

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Small-sized Project

Country/Region:	Indonesia	
Project Title:		ing Public Space as a Solution for the Effects of Global Climate
Change in Indonesi	a's Urban Areas	
Thematic Focal Area	: Urban Development	
Implementing Entity:	Partnership for Governance Ref	form in Indonesia (Kemitraan)
AF Project ID:	IDN/NIE/Urban/2019/1	
IE Project ID:		Requested Financing from Adaptation Fund (US Dollars): 710,000
Reviewer and contact person: Chibulu Luo IE Contact Person:		Co-reviewer(s): Saliha Dobardzic

Technical Summary	The project "EMBRACING THE SUN: Redefining Public Space as a Solution for the Effects of Global Climate Change in Indonesia's Urban Areas" aims to design climate-resilient urban public spaces as to enable community resilience in Samarinda City, Indonesia. This will be done through the four components below:
	 Project/Programme Background and Context: Component 1: Research and Development on citywide adaptation to climate change through public spaces (USD 75,000). Component 2: Awareness raising and local resilience strengthening through the design and implementation of a new public space typology (USD 450,000). Component 3: Capacity building, knowledge management and communication (USD 75,000). Component 4: Monitoring (USD 25,000).
	Requested financing overview:
	Project/Programme Execution Cost: USD 85,000 Total Project/Programme Cost: USD 710,000 Implementing Fee: Not provided Financing Requested: USD 710,000

	The initial technical review raises many issues, such as the need to further elaborate climate rationale and planned activities, with clear connection to adaptation, presenting a specific set of interventions for the concrete adaptation/infrastructure measures for the public space, improving on important elements of the proposal template including the results framework, sustainability aspects and stakeholder consultations, presenting a clear and complete budget and ensuring that fees are aligned with AF requirements, addressing discrepancies in the project component table and the disbursement schedule, providing a comprehensive gender assessment and demonstrating how such an assessment will inform overall project design and implementation arrangements, as is discussed in the number of Clarification Requests (CRs) raised in the review.
Date:	August 27 th , 2020

Review Criteria	Questions	Comments	Team Response
	1. Is the country party to the Kyoto Protocol?	Yes.	-
Country Eligibility	2. Is the country a developing country particularly vulnerable to the adverse effects of climate change?	Yes. Indonesia is highly vulnerable to the adverse effects of climate change – most notably, rising sea levels, increasing mean temperatures, changing rainfall patterns, and the increased frequency and magnitude of extreme weather events. Climate risks have already resulted in substantial loss of life, economic losses and infrastructural damages.	-

Review Criteria	Questions	Comments	Team Response
Project	 Has the designated government authority for the Adaptation Fund endorsed the project/programm e? Does the length of the proposal amount to no more than Fifty 	Yes.	-
Eligibility	pages for the project/programm e concept, including its annexes; or One hundred pages for the fully- developed project document, and one hundred pages for its annexes?		

Review Criteria	estions	Comments	Team Response
	Does the project / programme support concrete adaptation actions to assist the country in addressing adaptive capacity to the adverse effects of climate change and build in climate resilience?	 Not entirely. The project is largely theoretical, focusing on public space as the mechanism of building resilience in Samarinda city. The proposed public space aims to provide a diverse set of adaptation benefits to communities, including flood/drought protection, access to clean water, and reliable energy sources, among other interventions. CR1: Please further elaborate and provide more details on the climate rationale and planned activities, and highlighting clearly the connection to adaptation. CR2: The project presents a very high number of interventions under component 1, which leads to the risk of the project being ineffective in the long-run. In addition, the project seems too ambitious in its scope, compared to the requested AF funds. Please consider restructuring of Components 1 and 2 to focus on a fewer set of the most impactful interventions for the public space. We suggest to focus on delivering benefits ideally within one sector e.g., flood risk management, waste management or energy production, or any of the other sectors highlighted under Component 1, rather than spreading the financing too thinly across too many different themes. Please also explicitly state the interventions that will be used in the project, and provide examples of the technologies to be used (page 34). You may consider focusing on the ones that provide more leverage on the ground. CR3: Some of the capacity building activities under Component 1. Upon restructuring the project proposal as per CR2 above, please consider having focused and targeted awareness raising and capacity building. 	CR1 & CR2: Team already revise the proposal body regarding CR1 &CR2, please take a look at the page 29: 46 CR3 Basically they are different. Component 1 focuses on the development of a new typology of public space. Current best practice case studies, literature, policies, technologies, and tactics that will be reviewed and evaluate their feasibility for the Indonesian context, their accessibility, cost- effectiveness, and their overall potential impact in mitigating climate change hazards and causes. This phase will help the team to develop new approach regarding project preparation. Otherwise, raising awareness on component 2 focuses on the engagement of local stakeholders with the project while component 3 focuses on improving citizens capacity in terms of climate change adaptation after the development and implementation of the project. Please take a look again at the page 29-46

Review Criteria	Questions	Comments	Team Response
	4. Does the project / programme provide economic, social and environmental benefits, particularly to vulnerable communities, including gender considerations, while avoiding or mitigating negative impacts, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	 Not entirely. The current section on economic, social and environmental benefits reads rather generally and is not based on any specific interventions, i.e., as already mentioned, it is not clear what types of hard/soft infrastructure interventions will be prioritized. The project is very ambitious in its approach, involving interventions in several sectors/interventions i.e., water-management, energy production, food production, and waste-management, among others. Each of these sectors could have their own design elements and potential economic, social and environmental benefits for communities and vulnerable/marginalized groups. CR4: Please consider a more focused approach as stated in CR2 above. In addition, please provide specific information and estimations of the intended social and economic benefits of the selected concrete interventions. CR5: Please provide more information on how marginalized and vulnerable groups will benefit from the proposed adaptation interventions once you address CR2. 	CR4 & CR5 Regarding this question, the ESMP assessment has not finished yet and we will submit it as soon as possible

Review Criteria	Questions	Comments	Team Response
	5. Is the project / programme cost effective?	 No. The proposal currently presents no information in the section C. Cost-effectiveness of the project/programme. CR6: Once previous CRs are addressed (especially CR2), please ensure providing elements with regards to the cost-effectiveness of the selected adaptation interventions. Please ensure that there is a good presentation of elements that justify the effectiveness of the chosen measures as well as information on the cost-effectiveness of the selected options compared with other measures. Also please ensure that the section C is filled out (at this stage of the project, all sections of the project template should be completed). 	CR6 Similar to the CR4 & CR5, the ESMP assessment has not finished yet so the cost- effectiveness of the project also still in progress and will be submitted as soon as possible
	6. Is the project / programme consistent with national or sub- national sustainable development strategies, national or sub- national development plans, poverty reduction strategies, national communications and adaptation programs of action and other relevant	Yes. The document lists a number of plans/projects that are consistent with the project, including Indonesia's National Action Plan for Climate Change and the NDC.	

Review Criteria	Questions	Comments	Team Response
	 7. Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund?? 8. Is there duplication of project / programme with other funding sources? 	 Not entirely. The project document currently specifies that the project will comply with generic laws and standard mainly related to DRR and urban planning. However adaptation interventions may require following other specific standards of other sectors. CR7: Upon identification of specific projects/interventions (as already noted in the above CRs), please clarify how the project is consistent with any national/technical standards related to specific sectors/areas identified. No. Although the project doesn't seem to be duplicating efforts with other funding sources the project can benefit from lessons learned and building synergies with projects mentioned in section F. CR8: Please clarify how the project will build on lessons learned and results of other urban sector projects funded by other donors at the national or city level. 	CR8 Section G related to the lessons learned on the proposal has been revised, please take a look at the page 64-65.
	9. Does the project / programme have a learning and knowledge management component to capture and feedback lessons?	Yes. The project had a learning and knowledge management component under Component 3.	-

Review Criteria	Questions	Comments	Team Response
	10. Has a consultative process taken place, and has it involved all key stakeholders, and vulnerable groups, including gender considerations in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	 Details on stakeholder consultations have been provided. Accounting for challenges experienced due to the COVID-19 pandemic, the project team set-up a number of consultations with government and community members between April and August 2020, (including a virtual meeting with the City Government of Samarinda in July). CR9: Please provide the highlights of the main recommendations from these meetings, and provide summaries of meeting outputs, minutes, and an outline of next steps/action items that stemmed from these meetings (including the engagements with local youth members, women and vulnerable groups that are mentioned in the proposal), as an appendix. CR10: Considering the comments provided in CR2 above, the suggested refocusing would require additional consultations with stakeholders necessary to identify the specific activities to be implemented during the inception phase of the project. Please ensure to also include plans for these consultations and details on how you would integrate outputs from these consultations in the design and implementation of the sector-based interventions. 	CR9 Section H related to the consultative process has been revised, please take a look at the 65-70. The detail of each meeting also already attached as an appendix (Annex C)
	11. Is the requested financing justified on the basis of full cost of adaptation reasoning?	 No. Full cost of adaptation reasoning cannot be assessed until the above-mentioned CRs (1 to 10) are addressed. CR11: Please ensure addressing all CRs above and update the justification of funding consequently. 	C11 Regarding this question, it will revised after CR1 to CR10 completely addressed and wil submit it as soon as possible
	12. Is the project / program aligned with AF's results	Unclear. Alignment with the AF's results framework cannot be assessed until the above-mentioned CRs (1 to 6) are addressed.	Idem

Review Criteria	Questions	Comments	Team Response
	framework?		
	13. Has the sustainability of the project/programm e outcomes been taken into account when designing the project?	 No. Currently the project is too ambitious with regard to the requested funds and has a high risk of being ineffective. In addition, it is not clear what plans are being made (societal or financial) to ensure the sustainability of the project beyond the AF resources. The sustainability of the project cannot be fully evaluated until other CRs have been effectively addressed, in particular CR2. CR12: Please provide further clarifications on how will the project ensure that the city government will incorporate activities within the city budget? What 	CR12 CR1 & CR2 are addressed, the team also already reconstruct and focusing on the flood risk management system. Regarding the development beyond AF Fund please take a look at the section J page 71-72
	14. Does the project / programme	processes of be put in place to ensure this?Not entirely. Table 10 presents an overview of the risks and mitigation measures for each of the risks identified.	CR13, Section H already revised please take a look at page 65-70.
	provide an overview of environmental and social impacts / risks	However, it is also not clear how initial consultations have been considered in the overall project design. In addition, the gender assessment provided in the updated document is not sufficient based AF requirements.	Regarding data and communication limitation due to Covid-19 the gender assessment will be updated, revised, and
	identified, in compliance with the Environmental and Social Policy	CR13: Please describe how initial stakeholder consultations have been considered in the overall project design, particularly with regards to risks related to marginalised and vulnerable groups, and indigenous people.	submitted as soon as possible.
	and Gender Policy of the Fund?	CAR1: Please review the AF Gender Policy Guidance Document: <u>https://www.adaptation-fund.org/wp-</u> <u>content/uploads/2017/03/GenderGuidance-Document.pdf</u> and revise the Gender Assessment Section of the proposal based on guidance outlined in the AF Gender	

Review Criteria	Questions	Comments	Team Response
		 Policy and ensure it contains the following points: Ensure that the gender assessment provides both qualitative and quantitative data for gender roles, activities, needs and available opportunities, challenges or risks for men and women relevant to the project. 	
		 A strategy for gender-responsive implementation and monitoring arrangements within project planning and design, including gender responsive indicators. 	
		 Gender responsive indicators are included in the results framework, where relevant. 	
		 Grievances and complaints related to equality and women's empowerment should also be noted in grievance mechanisms. 	
Resource Availability	1. Is the requested project / programme funding within the cap of the country?	Yes.	-
	2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total	an IE fee of \$64,274.40 is stated. This stated amount is also higher than the 8.5% cap	The Budget plan has been revised, please take a look at the budget detail.
	project/programm e budget before the fee?	 (i.e., 64,274.4 /710,000 = 9.1%) We also note some discrepancies in the budget table (pages 48/49) with the disbursement schedule. The sum of 	

Review Criteria	Questions	Comments	Team Response
		\$820,443.83 is presented as the total project cost in the disbursement schedule (page 95), but not in Table 9 (page 49) or the project information page.	
		CAR2: Please provide an IE Management Fee and update the budget and Project component and financing table carefully and ensure inclusion of all required information, and address the discrepancy between disbursement schedule figures and project component and financing table (Table 9).	
		CAR3: Please ensure to present figures rounded to the nearest dollar (i.e. please no decimals or cents.)	
	3. Are the Project/Program me Execution Costs at or below 9.5 per cent of the total project/program e budget (including the fee)?	CAR4: Please revise the Execution Costs and update the Project component and financing table accordingly. There is also a large discrepancy in execution cost reflected in Table 9 and the disbursement schedule (page 95).	idem
Eligibility of IE	4. Is the project/program e submitted through an	Yes.	
	eligible Implementing Entity that has been accredited by the Board?		

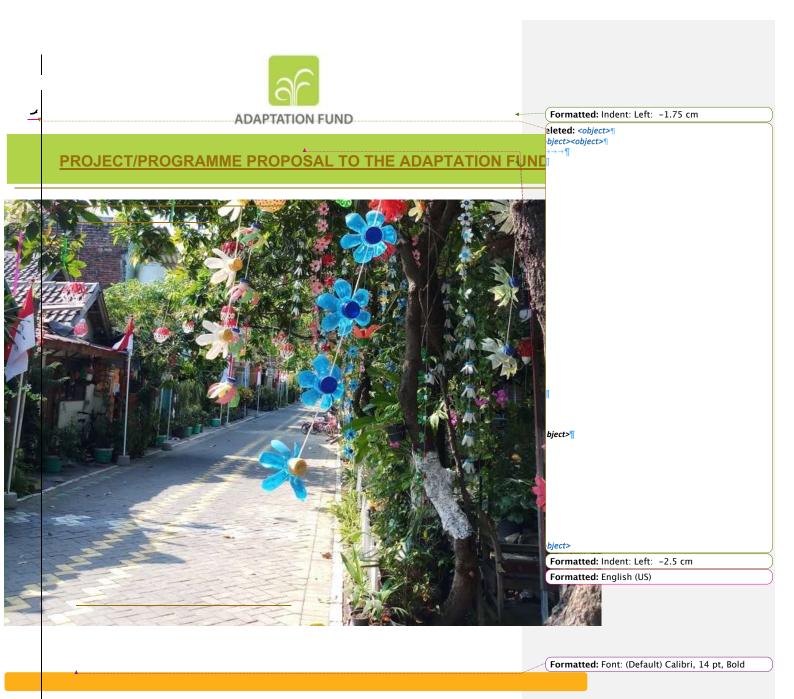
Review Criteria	Questions	Comments	Team Response
Criteria	 Is there adequate arrangement for project / programme management, in compliance with the Gender Policy of the Fund? 	 Not clear. Given the comments above in CAR1 related to gender considerations, it is not clear whether additional partnerships or collaborations with relevant civil society organizations or women's groups should be sought for the implementation of specific components and/or outputs. CR14: Please address CAR1 above and further update implementation arrangements, identifying relevant stakeholder partners, in compliance with the Gender Policy of the Fund. 	Regarding data and communication limitation due to Covid-19 the gender assessment will be updated, revised, and submitted as soon as possible.
Implementation Arrangements	2. Are there measures for financial and project/programm e risk management?	Yes.	
	3. Are there measures in place for the management of for environmental and social risks, in line with the Environmental and Social Policy and Gender Policy of the Fund?	Yes. these are identified in Table 10	

Review Criteria	Questions	Comments	Team Response
	4. Is a budget on the Implementing Entity Management Fee use included?	 No. IE Management Fee is not stated in the Project Component and financing table in page 49. No detail is provided on the use of the Implementing Entity Management Fee. CAR5: Please update the Project Component and financing table, as noted in CAR2. Please also provide a detailed budget breakdown of the Implementing Entity Management Fee. 	It's been revised please take a look again in the page 49 or table 9
	5. Is an explanation and a breakdown of the execution costs included?	 No. There is no detailed budget provided in this submission. The project document refers to Annex B, but the annex has not been added, and the project document contains no details on the breakdown of the execution costs. CAR 6: Please provide a detailed budget (updated once the above-mentioned CARs and CRs are addressed) including details on the breakdown of the execution costs. 	CAR 6, please take a look at the budget detail submitted along with the proposal
	6. Is a detailed budget including budget notes included?	 No. There is no detailed budget provided in this submission. The project document refers to Annex B, but the annex has not been added. CAR 6: Please include a detailed budget providing budget notes alongside the detailed budget. 	CAR 6, please take a look at the budget detail submitted along with the proposal

Review Criteria	Questions	Comments	Team Response
	7. Are arrangements for monitoring and evaluation clearly defined, including budgeted M&E plans and sex- disaggregated data, targets and indicators, in compliance with the Gender Policy of the Fund?	 No. This is not clear, especially in the absence of a detailed gender assessment. CR15: Please provide a complete M&E plan, including sex-disaggregated data, targets and indicators (based on the a complete gender assessment as per CAR1), indicators for component 1, as well as specify the arrangements to be used for monitoring and evaluation. 	CR15, the M&E plan will be revised and submitted as soon as possible
	8. Does the M&E Framework include a break- down of how implementing entity IE fees will be utilized in the supervision of the M&E function?	No. CAR 7: Please provide a complete M&E Framework with a break-down of IE fee.	Idem

Review Criteria	Questions	Comments	Team Response
	9. Does the project/programm e's results framework align with the AF's results framework? Does it include at least one core outcome indicator from the Fund's results framework?	Yes. The proposal shows alignment with the AF's results framework in Section F page 93.	

Review Criteria	Questions	Comments	Team Response
	10. Is a disbursement schedule with time-bound milestones included?	 A disbursement schedule is included but without time-bound milestones. In addition, we note several discrepancies between the disbursement schedule and the project component table, as noted in above CARs/CRs. CAR 8: Please address above CARs related to budget. In addition, please update the disbursement schedule taking into account the following points: The breakdown of IE fee is required for 1st and 2nd tranches in the disbursement schedule. Please do not use decimal points in the financials, namely the disbursement table. Please round to the nearest whole number, similarly to the comment in CAR 3. The totals of project funds, execution cost and the grand total are inconsistent with the main budget table and project component table in updated proposal (Table 9). 	please take a look at the budget detail submitted along with the proposal



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Project/ <u>Program</u> Category	: SMALL-SIZED PROJECT/PROGRAMME	F	ormatted	[9]
Country/ies	: INDONESIA		ormatted	
Title of Project/Programme	: EMBRACING THE <u>SUN: Redefining</u> Public Space as a Solution		eleted: prepare the Indonesian people to be resi	[10]
	for the Effects of Global Climate Change in Indonesia's Urban		ormatted	
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Amount of Financing Requested	: \$824, <u>835</u> (in U.S Dollars Equivalent)	F	ormatted	[15]
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1. PROJECT/PROGRAMME	BACKGROUND AND CONTEXT	F	ormatted	[17]
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This project aims to to explore flo	od adaptation infrastructures as a new typology of public space to	/>	eleted:	[19]
	ce awareness of Indonesian and laid a concrete resilient groundwork		eleted: anurban elements condition that is idea	al forma al
•	s1 <u>recognizes</u> the strategic role of public space in supporting	1199 1 🦯	ormatted	
	nvironments. Recent research addresses issues of vulnerability in nce strategies that reduce the 2, 3, through water sensitive design,	/ />		[21]
	All the measures described are reactive by nature; aiming to cope	/////≻	eleted: about the root causes of	$ \longrightarrow $
with the effects of climate change		()/>	ormatted	[22]
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This project adopts a different a	pproach to face climate change, focusing on public space as an		ormatted	[23]
	ng the challenged of climate change, as well as a <u>key</u> urban <u>elements</u>	// (D	eleted: , which will be tested through the constru	uctio
	agement and education on climate change. Through this project we	- Fe	ormatted	[25]
· · · · · · · · · · · · · · · · · · ·	typology of public space as an integrated infrastructural support for	D	eleted: facing imminent	
	e multi-layered complexities and challenges induced by climate	- F	ormatted	[26]
	nd other relevant hydro-meteorological disasters. The project will ng and adapting to the impact of annual flooding and support	D	eleted: of	
communities in pre and post disas		D	eleted: . The design interventions in the city of Sa	amaninda
•		M = M	eleted: in particularlood preparedness and oth	
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1. Can be found in: http://habitat3.org/the		S		
Accommodating Natural Processes. Wate	nd Climate Change Adaptation: The Potential of Public Space Design When, r, 10(2), 180. doi: 10.3390/w10020180,	$\land \land \succ$	ormatted	[30]
3 Williams, K., Gupta, R., Hopkins, D., Gre	gg, M., Payne, C., Joynt, J. L. R., Bates-Brkljac, N. (2013). Retrofitting		ormatted	[31]
England':suburbs to adapt to climate 10.1080/09613218.2013.808893	change. Building Research & amp; Information, 41(5), 517-531. doi:	$\langle \langle \rangle \rangle$	ormatted	[32]
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The new typology of the "climate adaptive" public space is going to be tested through the development of one multipurpose public space in Samarinda, Indonesia, as a pilot city. The city of Samarinda has provided critical input and indicated possible locations for the intervention. The design process relies on the engagement and involvement of local communities, as well as local governments, and will provide structures and systems to deal with critical environmental issues that are relevant to Indonesia as well as a global context. The new public space will integrate and improve the current urban environments in where it is located, and simultaneously envisioned as an ecological-social "anchor," to support the local communities. The social dimension of public space will be augmented with environmental *features* to help communities cope with the effects of climate change and contribute to reduce the ecological footprint, The overarching axiology of the proposed project is to pursue concrete adaptation actions based on 3 (three) strategic goals, (1) resilience; (2) response; and, (3) recovery. Through these actions a broad systems-level adaptation strategy will be achieved by thinking global and acting local (glocal), The project will address the social impact of floods on urban communities, it will provide an infrastructure with the main purpose of aiding communities during flood events. This infrastructure main scope will be functioning as a safe shelter during flood events; in order to achieve this scope, the new public space will engage also with other several hazards connected to climate change in general, and flooding in particular, The project will deliver, one pilot public space. It is anticipated that knowledge generated from this project will be replicable to other cities in <u>Indonesia and internationally, the knowledge</u> can be adapted and tailored to other communities with similar environmental changes due to climate change.

1.1. Indonesia and climate change

Indonesia is the largest archipelagic country in the world with more than 17,500 islands and 80,000 <u>kilometers</u> of coastline⁵ and is highly vulnerable to the effects of climate change. Indonesia is also the fourth most populous country in the world and has extremely rich ecosystems and high levels of biodiversity. Rising sea levels, increasing mean temperatures, changing rainfall patterns and the increased frequency and magnitude of extreme weather events are some of the main climate change impacts the country faces⁶ According to a global risk analysis conducted by the World Bank, Indonesia ranks 12^{th}_{k} out of 35 countries, facing high mortality risks from multiple hazard types⁷ Increasing disaster risk caused by floods, droughts, storms, and forest fires are being exacerbated by climate variability and presents a growing strain on public expenditures. For instance, the 2007 Jakarta floods amounted to more than US\$ 900 million due to resulting damages⁸.

<u>Climate change adaptation activity in Indonesia over the past six years has been marked by</u> increasingly widespread awareness-building campaigns about climate change and its impacts, including vulnerability assessment activities in several provinces, regional and city areas. In this way, these programs provide additional benefits in capacity strengthening and climate change adaptation.

According to a leading Indonesian environmental researcher, there are three things that have enabled the effective mainstreaming of climate change adaptation across several cities in Indonesia. First, regional leaders give attention to the issue of climate change. Second, the presence of conservation and environmental activists, who work together to <u>support</u> local governments so that their activities maintain existing sustainability benchmarks and local government commitments. Third, climate change adaptation <u>is now a</u> mainstreamed concern due to the increasing severity and frequency of

Ministry of Environment, 2007. National Action Plan Addressing Climate Change.
National Action plan for <u>Climate Change Adaptation</u> (RAN-API). <u>Synthesis Report</u> (2013).
World Bank. Indonesia: ClimateRisk and Adaptation Country Profile, (2011). Found online at:
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climate induced disasters. There is growing awareness that climate change is exacerbating such events, well as the loss of <u>hydrological functions including depletion of natural springs which</u> communities <u>relied</u> upon.

According the fifth Assessment Report by the Intergovernmental Panel on Climate Change (IPCC) released in 2013, the south region of Indonesia will experience a decline in rainfall and, conversely, the north will experience increased rainfall. The threat of drought due to El Niño effects will be a driving factor for wildfires, which have so far destroyed millions of hectares of forest land in Indonesia. Climate change also poses a major threat specific to Indonesia's unique geographical conditions. Namely, rising sea levels threaten to submerge entire islands across the archipelago. This outcome is predicted as a certainty unless both climate change adaptation and mitigation strategies are urgently implemented.

A report published by the Ministry of Public Works and Ministry of Environment (2007) states that the impact of climate change for Indonesia, namely rising sea level, poses threats to several industries such as offshore oil and gas platforms, transportation, fisheries, agriculture, and ecotourism as well as coastal communities. The report also states that sea-level rise of about 1 meter is estimated to flood approximately 405,000 Ha of coastal land, including small islands. Another aspect of climate-related impacts in Indonesia relates to crop failure due to drought. The Department of Agriculture monitored drought conditions on rice crops over ten years from 1993-2002. Results indicated that the average amount of agricultural land affected by drought was 220,380 Ha with land deemed "crop-failed" to reach 43,434 Ha. In the El Niño Southern Oscillation (ENSO) years, the volume of water in reservoirs dropped significantly, far below normal levels; this was observed mainly during the dry season, which occurs from June - September resulted in lower electricity generation.

I. Economic Context

Various studies conducted by the IPCC and other research institutions located both nationally and internationally show that vulnerability levels in developing and underdeveloped economies are high and that these economies are likely to have low adaptation capacity. Indonesia cannot escape its responsibility in reducing activities that cause global warming. As part of a global community, attention needs to be given to the urgent threat of climate change. Regarding carbon emissions, as the leading cause of global warming, Indonesia is rated as a significant contributor, ranked as the fifth largest emitter of greenhouse gases¹/₂, while at the same time being highly vulnerable to the impacts of climate change. Agriculture, plantations and fisheries are the main industries that draw upon Indonesia's power generation economy, while also acting as pillars to support national food security. Other critical areas that have been identified as vulnerable to the impacts of climate change include the energy sector, forestry industries, coastal management, water resources, infrastructure, and health. Microeconomic disruption to livelihoods is another important consideration, where localized threats also exist because of climate change impacts. Extensive research enables relatively accurate predictions to be made when it comes to the impacts of climate change. As such, there is enormous potential to enact influential macro-economic measures to minimize disruption and increase national security.

Serious efforts must be made to ensure the Indonesian people not only survive but thrive in the face of climate change and its impacts. The most vulnerable populations are those where communities depend on predictable climatic patterns. It is essential that the most vulnerable communities are identified, both in urban and rural areas, especially where people lack agency in relocating or adapting

9 World Resources Institute. Retrieved from: https://www.wri.org/our-work/project/forests-and-landscapesindonesia/climate-change-indonesia

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to issues such as erosion, abrasion, rising sea levels, flooding and landslides during high intensity rain. Indonesian communities also face threats of wildfire, drought and lack of access to clean water during long dry seasons. In extreme cases, annual growth of the economy of the country or a region is lost due to disaster events or climate variability. It is critical that we reduce embedded vulnerabilities in Indonesian communities and build resilience through development that pays attention to environmental management. Such development must account for ecological impacts, offsetting losses through strategies that build resilience across multiple domains.

II. Socio-Economic Context

Indonesia is the largest economy in Southeast Asia¹⁰₄ Furthermore, the country's economy has recently grown due to faster export turnarounds, strengthened investment and increased consumption¹¹₄. Despite levels of poverty and inequality having decreased in rural and urban areas, almost 10% of Indonesia's population (approximately 25.9 million people) lives below the World Health <u>Organization</u> (WHO) "poverty line", and approximately 20.78% remain vulnerable to falling into poverty¹²₄. The ADB estimates that costs related to the impacts of climate change will constitute between 2.5 and 7% of Indonesia's Gross Domestic Product (GDP) by 2100¹³₄. It is the country's poorest communities and vulnerable groups – such as women, children, the elderly and those with disabilities – who are expected to bear the greatest burdens of the impacts of climate change.

Indonesia's biodiversity is extremely rich, accounting for 15.5% of the world's flora and 10% of fauna¹⁴₄. Biodiverse ecosystems are essential in supporting livelihoods and industry, as well as driving economic growth. Biodiversity ensures resilience of natural systems and is the backbone of Indonesia's ability to bounce back in the case of disasters. Climate change has been recognized as one of the main threats to biodiversity¹⁵ and ecosystem services¹⁶ Furthermore, studies show that global climate change will j have a negative effect on the agricultural sector¹⁷ In 2017, agriculture, forestry and fishing accounted for approximately 13% of Indonesia's total GDP¹⁸ providing the main source of employment in rural areas¹⁹ This will not only result in a negative impact on rural incomes but will also affect food prices and food security (IFPRI).

III. Climate Change Projections

Indonesia experiences a tropical climate with two major seasons – the rainy monsoon season from November to April (with regional variations), and the hot dry season. Average annual temperatures range from $23-32^{\circ}C_{20}^{20}$ (27.7°C in 2007 and 27.9°C in 2008). Observed climatic changes indicate a mean annual temperature increase of about 0.3°C. This is projected to continue increasing by 0.2 - 0.3°C per

¹⁰ OECD Economic Survey: Indonesia, (2018), p. 9. Online at: http://www.oecd.org/eco/surveys/Indonesia-2018-OECD-
economic-survey-overview.pdf
¹¹ AsianDevelopment Outlook, (2018), p. 255. Online
at:https://www.adb.org/sites/default/files/publication/411666/ado2018.pdf
12 World Bank. Indonesia: ClimateRisk and Adaptation Country Profile, (2011).
13 Idem
14 The FifthAnnualReport of Indonesia to the Convention on BiologicalDiversity, 2014. Online at:
https://www.cbd.int/doc/world/id/id-nr-05-en.pdf
15 Jdem
16 WWF, (2007). Climate Change in Indonesia. Implications for Humans and Nature. Found online at:
http://awsassets.panda.org/downloads/inodesian_climate_change_impacts_report_14nov07.pdf
¹⁷ JFPRI, (2011). The Impact of Global Climate Change on the Indonesian Economy. Online at:
http://ebrary.ifpri.org/utils/getfile/collection/p15738coll2/id/126762/filename/126973.pdf
18 The World Bank, (2017). Online at: https://data.worldbank.org/indicator/NV.AGR.TOTL.ZS?locations=ID
¹⁹ ADB, (2015). Summary of Indonesia sAgriculture, Natural Resources, and Environment Sector Assessment
²⁰ University of Indonesia, (2007).

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decade. Indonesia's average rainfall levels are 1.7-3.1 cm in the lowlands and up to 6.1cm in mountainous regions (per year). Precipitation changes, being less uniform, project an increase in annual rainfall across most of the country. At the same time, precipitation in the southern regions is projected to decline by up to 15%. The risks faced across the country exist at opposite ends of a spectrum. Where some regions are anticipating decreased rainfall, and therefore possible drought, other regions face flood risk from a predicted increase in rainfall.

Table 1. Amount of Precipitation and Number of Rainy Days by Month in Samarinda Municipality, 2018²¹

Bulan/Month	Curah Hujan/Precipitation (mm ³)	Hari Hujan/ <i>Rainy Days</i>
(1)	(2)	(3)
Januari/January	215,9	18
Februari/February	97,7	18
Maret/March	<mark>154,1</mark>	17
April/April	<u>1</u> 80,2	20
Mei/May	296,3	21
Juni/June	197,0	15
Juli/July	<u>136,9</u>	12
Agustus/August	47,9	10
September/September	127,4	9
Oktober/October	151,9	20
November/November	126,7	20
Desember/December	<mark>,169,5</mark>	16
Average 2017	158,5	16

There is currently a 30-day delay projected delay in the annual monsoon season, which raises the chances of up to a 10% increase in rainfall later in the crop year (April-June). Additionally, this can cause up to a 75% decrease in rainfall later in the dry season (July-September)²², Furthermore, extreme weather events are expected to increase, leading to additional stressors, particularly in coastal areas²³,

¹ M	eteorology, Climatology, and Geophysics Board, Samarinda
2	WWF, (2007). Climate Change in Indonesia. Implications for Humans and Nature
3	Indonesia ClimateChangeSectoralRoadmap ICCSR. SynthesisReport, (2009). Found online at: https://adaptation-

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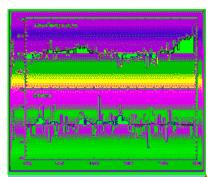


Figure 1. Changes in annual mean temperature, 1901-1998 (top) and annual rainfall, 1901-1998 (bottom), across Indonesia.²⁴

IV. Expected Impacts of Climate Change

In recent years, hazards such as floods, landslides and droughts, have caused substantial loss of life, economic loss and damage to infrastructure in Indonesia. Between 2001 and 2007, 4000 disasters impacted the country, of these, 37% were floods, 24% drought, 11% were landslides and 9% were windstorms²⁵, It is anticipated that changes in precipitation, seasonal shifts and timing of rainfall will lead to unpredictable and uncertain water availability, which will in turn influence agriculture and food security. Exacerbated droughts and <u>flooding have</u> the potential to cause <u>widespread crop</u> failure and water shortages, triggering a cascade of impacts – such as health emergencies, social instability, conflict, and population displacement – stemming from food and water insecurity.

Sea-level rise is expected to drastically impact many regions in the country. With anticipated global sea-level rise of about 2mm per year, which is projected to increase to about 5 mm per year over the next century²⁶ significant loss of coastline and islands are expected²⁷. Between 140 and 220 million people live within 100 km of the coast²⁸ and, of these, 115 to 160 million rely on marine sources for their livelihoods²⁹. Valuable ecosystems such as coastal mangroves are threatened by projected increases in sea-level rise, among other aspects of climate change. Warming sea-surface temperatures, which are expected to lead to the loss of coral reefs and to cause changes in oceanic circulation patterns and salinity, will result in a reduction in fish in tropical oceans. Projected climate models indicate that this large scale change in fish habitat will impact on one of Indonesia's primary industries; a main food supply source, which will lead to economic losses.

Another aspect that requires consideration is the possible adverse effect of climate change on human health, both directly and indirectly. Direct effects relate to projected increases in temperature, changes in precipitation, sea-level rise, and extreme weather events leading loss of life. Indirect impacts on human health because of climate change include an increase in the spread of diseases such as malaria, dengue fever, diarrhea, cholera, and vector-borne diseases. This increased health risk is also exacerbated by weather variations caused during the ENSO. The World Health Organization

24	WWF, (2007). Climate Change in Indonesia. Implications for Humans and Nature
25	The World Bank, (2017).
26	Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth
Asse	essment Report of the Intergovernmental Panel on Climate Change.
27	The World Bank, (2017).
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Formatted: Font: Calibri, English (US) Formatted: Centered, Space After: 6 pt (WHO) states that the spread of malaria is triggered by the occurrence of rainfall above normal levels and is further impacted by unstable weather patterns. The combination of the <u>negative</u> effects on human health, with limited public health capacity, will greatly impact Indonesia's population, particularly poor and vulnerable group³⁰

Part	LTechnical Summary: Indonesia and Climate Change
a)	Indonesia is especially vulnerable to the impacts of climate change, notably, rising sea levels, increasing in mean temperatures, changes in rainfall patterns and the increased frequency and magnitude of extreme weather events.
b)	Indonesia is ranked 5th in the world for carbon emissions, highlighting the urgent need for mainstreaming sustainable development and climate change mitigation.
c)	Unless action is taken, Indonesia faces widespread biodiversity loss, economic losses, increased magnitude and frequency of both flood and drought events, and negative social and public health impacts.

1.2. Urban development in Indonesia

The New Urban Agenda³¹ approved in Quito in 2016, and subscribed to by Indonesia, as well as the Sustainable Development Goals³² provide directions for sustainable development over the next 20 years. The Wuhan declaration³³ issued in 2018 promotes the needs of development focused on placemaking. These important documents advocate for people-<u>centered</u> development and recognize the important role that natural landscapes and public spaces serve in supporting contemporary urban lives. Indonesia is undergoing urban development at an unprecedented scale and pace, often adopting paradigms typical of western countries that do not appropriately reflect the local culture, society, environment and landscape. Currently, over 50% of Indonesians live in urban areas and up to two-thirds of the population are expected to live in cities by 2035³⁴ (figure 2).

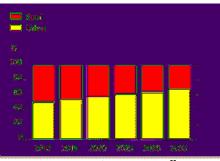


Figure 2. Population projections³⁵

30	Jdem,
31	Can be found in: http://habitat3.org/the-new-urban-agenda/
32	Can be found: https://www.un.org/sustainabledevelopment/sustainable-development-goals/
33	Can be found in: https://www.placemakingweek.org/wuhan
34	Asian Development Outlook, (2018)
35	Badan Pusat Statistik, 2013. Indonesia PopulationProjection.Retrievedfrom: AsianDevelopment Outlook, (2018), p
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Rapid urbanization in combination with other issues such as a lack of adequate planning, service provision and financing pose serious challenges. Many urban <u>centers</u> in Indonesia are experiencing social and environmental challenges due to the application of development paradigms ill-suited to the local landscape, society and culture. Cities, traditionally structured through a <u>recognizable</u> pattern of public spaces and with a clear representation of local culture, morph in congested environments, facing serious environmental issues due to climate change and uncontrolled commercial development. Water management, waste management, sewerage systems, food security, pest control, energy production, affordable living, shelter in case of extreme weather events, provision of affordable and safe housing, and sense of community are all emerging issues in Indonesian cities. These issues are intensified by unpredictable weather, extreme temperatures and recurrent flood events. <u>Per the Asian Development Outlook 2018</u>³⁶, only 1 in 3 urban households have access to clean water, and 1 in 100 water sources are directly connected to a sewerage system. The problem of this already deficient access to water infrastructure is further exacerbated by the impacts of natural hazards –in particular, floods and landslides – posing high risks to public health³⁷.

While major urban centres like Jakarta, Surabaya, and Yogyakarta have access to resources to face these challenges, second and third tier cities often rely only on the resourcefulness of their communities to face current climate and environmental challenges. As in many other emerging economies, Indonesia has often adopted a development paradigm that is typical of western temperate cities, often resulting in negative outcomes for established urban centres and communities. Car-based infrastructure, high-rise development and limited investment in public transport and public space challenge, not only the environmental sustainability of Indonesian cities, but also their social and economic viability. The traditional urban pattern of Kampong - a self-sufficient urban village - is today challenged by commercial development that leaves little to no space for public space and traditional community living. Some Kampong, as well as several communities in Jakarta and Surabaya, have demonstrated creativity and innovation in adapting to contemporary challenges. These communities have implemented programs that include urban agriculture, street beautification, waste recycling and community engagement. All these programs adapt existing in-between spaces within the city's urban form, contributing to the vibrancy of a Kampong. Despite the observed successes of such local communities and programs, there is currently a lack of structural capacity in cities to drive the necessary changes in mindset to move away from inappropriate westernized approaches to development. These paradigm changes could enable more traditional modes of development that are supportive of localised long-term sustainability, climatic conditions and resilience strategies for urban centres in Indonesia.

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Figure 3. Access to clean water and decent water (urban households) ³⁸		Deleted:
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1.3. National Policy and Strategy for "Adaptation" Activities in the Context of		Formatted: Font: Calibri, English (US)
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Limitations of funding, technology and human resources make Indonesia especially vulnerable to		Accent 1, English (US)
climate change. The level of policy intervention must be approached through the real needs of the country, region and islands. Therefore, the analysis and response of the impact of ecosystem, socio- economic and cultural changes (including exploring and using local wisdom and knowledge) is a priority that is essential in creating a prosperous future for Indonesia.		(Formatted: Font: Calibri, English (US)
Proactive measures have already been initiated through climate change research and exploration of opportunities for adaptation and mitigation of its impacts in several regions of Indonesia. This is done at the level of framework for developing policy strategies and implementing climate change adaptation activities in Indonesia. These activities are being carried out by ministries, institutions, non-governmental organizations and universities and regional governments, both funded by the state budget and through the support of donor organizations / institutions or other foreign government assistance.		
In 2009, the National Development Planning Agency (Bappenas) published the Indonesia Climate Change Sectoral Roadmap (ICCSR). One of the thematic issues included detailed directions for		
responding to, and anticipating the threat of climate change. The report <u>emphasized</u> the strategic		Deleted: emphasised
importance of sectors, such as coastal and fisheries, agriculture and health within the framework of		Formatted: Font: Calibri, English (US)
tional policy preparedness. The ICCSR document is expected to influence the National Medium- rm Development Plan (RPJMN) for 2009 - 2014. In 2010, Bappenas issued a 2010 Development Work an (RKP) that set the priority focus on increasing climate change adaptation capacity and mitigating sasters. Currently there are 5 main sectors with climate change adaptation policies and strategies, mely; the agricultural sector, coastal sector, marine, fisheries and small islands, health sector, public		
works sector and disaster sector through the National Disaster Management Agency (BNPB).		
There are two examples of policies within <u>several</u> policies from the Ministry of Agriculture, which have		Deleted: a number of
been issued in response to climate change, or considered to be related to adaptation efforts. One of	all second second	Formatted: Font: Calibri, English (US)
these includes The National Law No. 41 Year 2009 concerning Sustainable Food Agricultural Land		
Protection and Ministerial Regulation No. 39/Permentan/OT.140/6/2010, which outlines Guidelines for Licensing of Food Crop Cultivation Businesses. The action program of these policies seeks to		
develop water harvesting technology and efficiency of water use, such as drip irrigation, mulch and		
the development of land and plant management technologies to improve crop adaptability $^{39}_{{\scriptstyle {\rm A}},{\scriptstyle {\rm C}}}$		Formatted: Font: Calibri, English (US)
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In the coastal and marine sectors, 20 policies were issued in the context of climate change adaptation (DNPI, 2012) which were then translated into action programs. For the national level, there are	1	Deleted:),National
provisions regarding the management of coastal areas and small islands (National Law No. 27 Year	- 12	Formatted: Font: Calibri, English (US)
2007 <u>J, National Law No. 31 Year 2004</u> concerning Fisheries, National Law No. 27 Year 2007 concerning		Formatted: Font: Calibri
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In the health sector, the Ministry of Health has issued <i>Ministerial Regulation No. 1018/MENKES</i> / <i>PER/V/2011</i> concerning the Strategy for Adapting the Health Sector to the Impact of Climate Change.		Formatted: Font: Calibri, English (US)
This is followed by the issuance of action programs which include socialization and advocacy for		Formatted: English (US)
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³⁹ Sector Action Plan Document in Response to Climate Change Adaptation (2012).	Ľ	Formatted: English (US)

climate change impacts vulnerable populations and regions of climate change, improvement of climate change response systems, increased community empowerment in climate change adaptation per local conditions and other action programs (DNPI, 2012).

Meanwhile, the public works sector is divided into 4 sub-sectors, (1) Water Resources; (2) *Cipta Karya* (Human Settlement); (3) *Bina Marqa* (Roads and Bridges); and, (4) Spatial Planning. Water resourcing focuses on water balance including needs and availability, adequate water resources infrastructure, provision of alternative water sources, complete data and research, and water conservation. In the *Cipta Karya* (Human Settlement) sub-sector there are 3 strategic goals, (1) contribution of infrastructure services to economic growth; (2) contribution of infrastructure services to improving community welfare; and, (3) contribution of infrastructure to improve environmental quality. Some of the activities are assigned to the Roads and Bridges sub-sector, including roadside tree planting, drainage construction through the extension of run-off time, relocation of roads to areas that are less likely to be impacted by sea level rise and building levees or dykes in coastal areas.

Finally, Indonesia is seeing climate change adaptation activities in the sub-field of Spatial Planning. Here, adaptation efforts are carried out through the mainstreaming of climate change issues across the national spatial planning system. Thus, it can guarantee that spatial planning is undertaken with climate change projections <u>are taken into account</u>, ensuring that spatial planning does not increase vulnerabilities in a region or locality to the effects of climate change. Instead, the objective is to increase regional resilience to the impacts of climate change in the future (DNPI, 2012).

The implementation of various laws and regulations across the four sub-sectors have become policies and action plans for climate change adaptation in the public works sector. For example, *National Law No. 7/2004* concerning *Management of Water Resources* forms the basis for action programs such as improved management of natural resource infrastructure to support water supply and food security. There are 6 implementation provisions made at the level of *Government Regulations and Ministerial Regulations*, each of which has its action program. The policy and action program of the Spatial Planning sub-sector is *National Law No. 26/2007* concerning Spatial Planning which is then formulated into action programs such as, (1) providing access and processing of data and information related to climate change to spatial planning; (2); (3) space utilization; (4) space control; (5) institutional capacity building; and, (6) spatial planning and supervision (DNPI, 2012).

Concrete activities in Indonesia that translate the attention and commitment of climate change issues, especially in developing adaptation strategies, must be placed as a top priority. Awareness of the impacts that have already been felt must be in the efforts of stakeholders, as well as those that are predicted in the future. This is especially important in sectors and departments that are directly affected by climate change. At a policy level, the goal is to strengthen the role of the development sector to achieve targets and objectives through coordination between sectors. This adaptation effort requires strong collaboration especially between development sectors.

At present there remains a great deal of work to be done in adapting to the impacts of climate change. <u>Responsibility</u> lies with governance and environmental management of sectors that are a strategic priority when it comes to resilience-building. This includes, (1) protection of the Indonesian economy; (2) a focus on coastal areas under pressure due to various factors such as population growth; (3) exploitation of natural habitats for resources, including destruction and illegal deforestation; and, (4) reducing pollution caused by industry and housing activities. Addressing these issues will contribute toward resilience for Indonesian communities in the face of threats and impacts of climate change.

Part <u>2</u>,Technical Summary: Urban Development in Indonesia

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Indonesia is undergoing an unprecedented scale and pace of urban development

Urban development in Indonesia frequently adopts western approaches that are often inappropriate to the local culture and climate. There are lost opportunities to adopt locally-responsive strategies, which are more sustainable.

2. BRINGING IT ALL TOGETHER: FORGING NEW WAYS FORWARD FOR CLIMATE-RESPONSIVE URBAN PUBLIC SPACE

The challenges of Indonesia today and in the future regarding climate change adaptation must focus on local preparedness through the establishment of clear strategies, information and measurable outcomes. This is achievable only if the tasks and functions of each sector are understood through a spirit of collaboration between different government sectors, agencies, and local communities. This project proposes a new typology of public space for the Indonesian context – focused on peoplecentered development –addressing climate change through a coordinated and integrated approach. This new type of public space will strategically address flood adaptation, contextually addressing other current issues experienced by local Indonesian communities. Current strategies and policies aim to reduce the effect of climate change, minimize impact of development on local environments and prepare communities for future extreme weather events as well as environmental hazards⁴⁰. Redefining settlements patterns in Indonesian cities through an integrated and interconnected network of multiple public spaces will improve living conditions and wellbeing for local communities, while proactively tackling urgent issue of climate change. The aim of this to generate positive momentum that improves environments and ecosystems alongside sustainable urban development.

Table 2 <u>summarizes</u> the main hazards and risks faced by Indonesians as a result of climate change. These data will inform the strategic priorities and vision developed through this project and the design of a new typology of public space.

 Table 2. Summary of main hazards and risks connected to climate change in Indonesia

Clima	ate-Related Hazards and Risks	Level of Risk	
	Flood and Drought ⁴²		
A Contraction of the second se	Extreme events including droughts and floods are projected to increase in southern regions of Indonesia due to rainfall patterns. Droughts during El Niño events are expected to have more serious impacts on the south than temporary rainfall increases. Shorter and more intense rainy seasons will probably lead to more intense floods.	Severe	
	Access to Clean Water		
т.	Water availability could be impacted by climate change in Indonesia in <u>several</u> ways:		
	 Decrease in freshwater availability in coastal zones due to saltwater intrusion Decrease in inland water availability and saltwater intrusion in the rivers due to river flow reductions 	Severe	

⁴⁰ Santos Nouri, A., & Costa, J. P. (2017). Placemaking and climate change adaptation: new qualitative and quantitative considerations for the "Place Diagram". *Journal of Urbanism: International Research on Placemaking and Urban Sustainability, 10*(3), 356-382. doi: 10.1080/17549175.2017.1295096
 ⁴² Ministry of Foreign Affairs of the Netherlands (2018). Climate Change Profile Indonesia. Retrieved from: https://reliefweb.int/sites/reliefweb.int/files/resources/Indonesia_2.pdf
 ⁴³ Idem.

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	water availability due to a decrease in			Deleted: is considered to be	[172]
	luring the dry season.		-//	Formatted	
	iable Energy Sources ector in Indonesia is vulnerable to many		=	//>	[171]
	jected climate change, such as increasingly			Formatted	[173]
	ather events, higher air and water			Formatted	[174]
	, changes in rainfall and river discharge	High	////	Formatted	[175]
	d sea level rise👫 The power grid 🛵		//	Formatted	[177]
	and potentially vulnerable to the impacts of			Formatted	[178]
	ther events and sea-level rise		-//	Formatted	[179
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	vulnerability to climate change, including			/ >	[180]
	ability and extremes, is related to social as a pre-existing condition ⁴⁶ , Despite existing			Formatted	[185]
	verty is still significant ⁴⁷ , Almost 10% of its	High		Formatted	[181]
	approximately 25.9 million people) lives			Formatted	[182]
	y line and approximately 20.78% remains			Formatted	[183]
vulnerable of	falling into poverty ⁴⁸			Formatted	
Food Security	A9			Formatted	[184]
Food security	could be affected by climate change in				[186]
	a number of ways:			Formatted	[187]
	 Limited crop productivity due to rising temperatures Increase in crop failure risks due to reduced durations and unpredictable starts of the rainy season and decreasing rainfall predictability Decrease in food production due to increasingly 			Formatted	[188]
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	oods across the country			Formatted	
Decrease	e in food production in southern regions				[192]
	g Java, Bali and Nusa Tenggara) due to an	High		Formatted	[193]
	ng frequency and intensity of droughts			Formatted	[194]
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Waste Contai				Formatted	[202]
	nination is a pressing environmental issue in It is associated with a lack of public			Formatted	[203]
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	systems. Open burning of waste and solid			Formatted	
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related to the waste sector $^{50}_{\blacktriangle}$ and are still common	 Formatted: Font: Cali
practices in the country.	Formatted: Font: Cali

2.1. Focus of the Proposal

The aim of this project/program is to develop a new typology of public space that promotes building solutions and techniques that improve the environment, harvest resources and contribute positively to the overall ecological balance of area following the bioregionalism approach. In doing so, the objective of this new proposed typology is to strengthen climate change adaptation and resilience know-how within Indonesian communities using the built-environment as an approach. The project vision is to establish public space that support communities in coping and adapting to the climate change. The project addresses multiple environmental challenges relevant to climate adaptation; preliminary research has outlined a hierarchical links on these challenges whereby flood preparedness has been identified has the most strategic issue to be tackled in the pilot city. In order to support local communities during flood events, other conditions connected with climate adaptation will be addressed within the overall strategy as necessary conditions to adapt to increasing extreme flood events.

Table 2 outlines the hierarchy of interventions and illustrates how these public spaces must necessarily focus on, (1) flood and drought; (2) access to clean water; (3) access to reliable energy sources; (4) community vulnerability and safety; and, (5) waste management. It is anticipated that the new public space will reduce the impacts of climate change through flood adaptation. Contextually, the project will also promote energy production, sustainable water harvesting, and waste management. To achieve this, the project will focus on one pilot city with interventions and a series of low-cost highimpact design tactics - based on the template of the new typology - are planned. In this way, a new community-level climate resilient system will be developed to deal with climate change and its challenges. The selected city is Samarinda, capital of the East Kalimantan province; its position in the broader Indonesian context is shown in figure 4.

Samarinda is the capital city of the Indonesian province of East Kalimantan on the island of Borneo/Kalimantan. The city lies on the banks of the Mahakam River with a land area of 718 km². It is the most populous city on the entire Borneo/Kalimantan Island, with an estimated population of 872,691, up from 726,223 at the 2010 Census. Although it is the capital of East Kalimantan, some central government institutions such as the Police. Indonesian Army District VI of Taniung Pura, and Pelabuhan Indonesia (Port Transportation) are also located in the city. The city also has a bridge connecting its river banks, Mahakam Bridge, with the city centre on one side and the Samarinda <u>Seberang locality</u> on the other.

Samarinda City is divided into ten districts known as kecamatan; the city's population in 2019 was 872,768, with approximately 52% male and 48% female. The average annual growth rate was 0.018% between 2018-2019. The majority of the people of Samarinda are of Native Indonesian and Chinese descent. There are also Americans, Canadians, Japanese and Koreans working in Samarinda. Life expectancy in Samarinda is 73.6 years as of 2014.

50 https://www.bappenas.go.id/files/8913/5022/6069/climate-change-roadmap-wastesector_20110218181950_0.pdf

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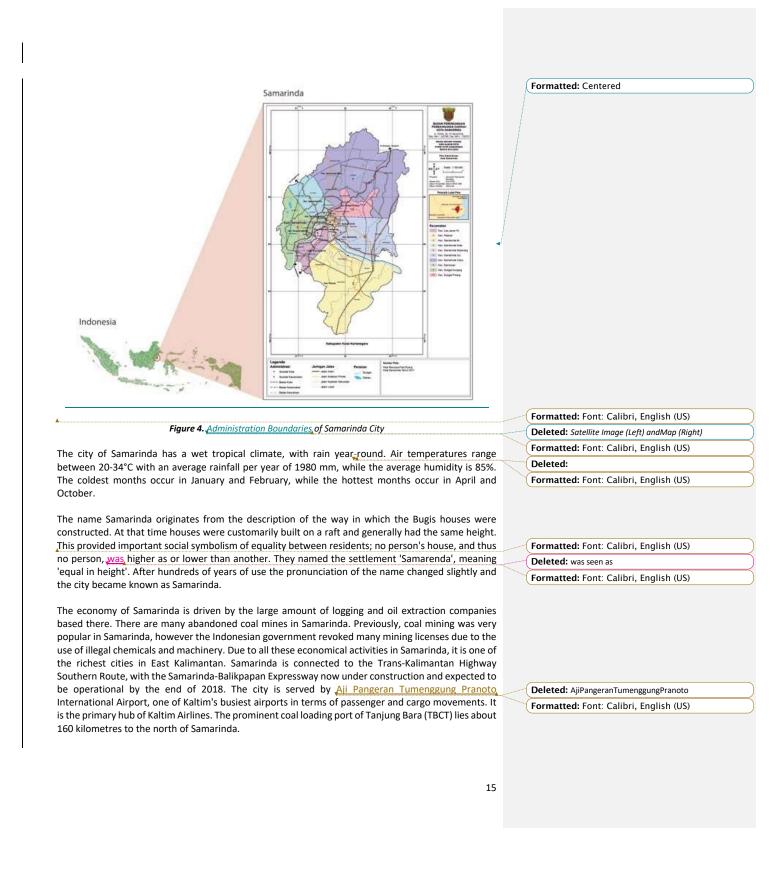
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At the beginning of 2020, Samarinda received several national awards in the City Category of the Performance Division of the Regional Administration (LPPD) award: (1) E-Government Management; (2) Public Information Openness; (3) Trade Sector; (4) Labor Sector; (5) Social Welfare Division; (6) One Stop Integrated Services Sector; (7) Division of Population Administration; (8) City Category Civil Registration; (9) Regional Financial Management; and, (10) Science and Technology Development and Innovation.

THE MAHAKAM RIVERS

Samarinda city has many rivers. There are 27 natural rivers that flow within the city of Samarinda and are spread across several districts and sub-districts. The main river is Mahakam River, which flows 980 km from the district of Long Apari in the highlands of Borneo to its mouth at the Makassar Strait. The city of Samarinda – the provincial capital of East Kalimantan – lies along the river, 48 km from the river mouth. The delta Mahakam River consist of specific micro climates, which are influenced by high and low tides. The Mahakam River is the largest river in East Kalimantan, Indonesia, with a catchment area of approximately 77,100 km². The catchment lies between 2°N to 1°S latitude and 113°E to 118°E longitude and originates in Cemaru from where it flows south-eastwards, meeting the River KedangPahu at the city of MuaraPahu. From there, the river flows eastward through the Mahakam lakes region, which is a flat tropical lowland area surrounded by peat land. Thirty shallow lakes are situated in this area, which are connected to the Mahakam through small channels. Downstream of the connection with the Semayang and Melintang lakes, the Mahakam meets three other main tributaries – the rivers Belayan, KedangKepala, and KedangRantau– and flows south-eastwards through the Mahakam delta distributaries, to the Makasar Strait.

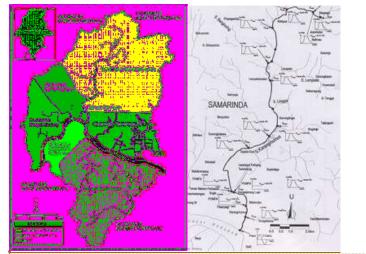
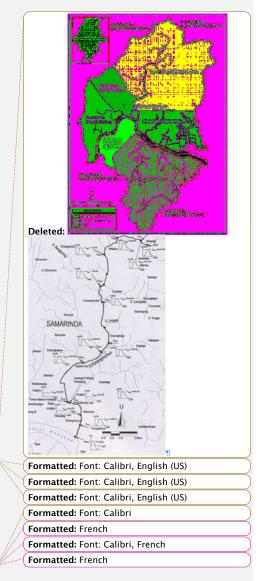


Figure 5. Mahakam River and Samarinda rivers system⁵¹

There are about 76 lakes spread in the Mahakam river basin and about 30 are located in the middle Mahakam area, including the three main lakes (Lake Jempang 15,000 Ha; Lake Semayang 13,000 Ha; Lake Melintang 11,000 Ha). The lake levels fluctuate seasonally from 0.5 m - 1 m during the dry season to 7 m during rainy season. The Mahakam lakes and surrounding wetlands act as water storage, as well as a trap of sediment contained in the water flowing into the lakes, which are now known to

⁵¹ Source: http://kehidupan-disamarinda.blogspot.com/2008/12/peta-butut-hulu-hilir-sungai.html



become shallower. This condition is presumably the result of an imbalance between sediment input and slow subsidence. Fishing is the primary source of livelihood in the Mahakam lakes area, with most of the men around the lakes involved in the fishing industry. The middle Mahakam lake area is an area of intensive fishing activity with a productivity of 25,000 to 35,000 metric tons of fish sourced per year since 1970.

The Mahakam delta is a mixed fluvial-tidal dominated delta. The delta covers about 1800 km², consisting of mangrove areas near the shore, Nypa swamps in the central areas, and lowland forest near the apex, corresponding to the first bifurcation. However, recent fishery development in this area has converted a vast area of mangrove into shrimp ponds, known as *tambak*. The delta has three main distributaries directed northeast, southeast and south. The area between these distributaries consist of a series of tidal channels that are generally unconnected to the main distributaries. The distributary channels are narrow and linear, with depths ranging from 8 to 15 m and distributary channel bifurcations appearing every 10 to 15 km. This lower Mahakam area is the second most productive hydrocarbon basin of Indonesia, which contains around 3 billion barrels of oil and 30 Tcf of gas reserves. Field geological investigations in this area were started in 1888, and in 1897 exploration drilling discovered oil at a shallow depth of 46 m on the Louise structure. Oil production started in 1898 followed by expansion of exploration to the entire Mahakam.

Mahakam and its floodplain is an ecologically important region. A total of 147 indigenous freshwater fish species had been identified in Mahakam. The Mahakam hosts the freshwater Irrawaddy dolphin *Orcaellabrevirostris*, called Pesut by local people. The dolphin is a critically endangered species, which is included in <u>the Convention</u> on International Trade in Endangered Species of Wild Fauna and Flora (CITES) Appendix I. The Mahakam river basin is also an important breeding and resting place for 298 bird species, among which, 70 are protected and 5 are endemic species. These include the Borneo dusky manikin *Lonchurafuscans*, Borneo whistler *Pachycephalahypoxantha*, Bornean peacock-pheasant *Polyplectronschleiermacheri*, Bornean blue-flycatcher *Cyornissuperbus* and Bornean bristlehead *Pityriasisgymnocephala*.

FLOOD

Floods in Samarinda occur almost every year and are always recurring, especially in the rainy season. Duration, height and extent of inundation happens to vary greatly. The duration of the flood that occurred ranged from 3-10 hours to the water height between 0.3-1.5 m, while the largest inundation area is in the Lempake area, with a pool area of \pm 200 ha. Samarinda itself included in the Karang Mumus Sub-watershed where this sub-watershed is also part of the Mahakam watershed, in length the main river namely Karang Mumus River is \pm 17 km long. Watershed Karang Mumus itself has an area of \pm 36 thousand ha, about 50.9% of the area Samarinda. The critical land area in the Karang Mumus Sub-watershed is \pm 28.3 ha or around 63.8% of the total Sub-watershed area. The average rainfall that occurs in this sub-watershed region it reaches> 150 mm/year. Besides that, Karang Mumus Watershed classified as a flat area (flat), thereby causing the flow velocity on this river is relatively low. Of the various conditions in the Karang Mumus Sub-watershed area, flooding is natural disasters most often occur in this sub-watershed. Because of this sub-watershed is a large part of Samarinda, which automatically floods happen will have an impact on the city of Samarinda itself.

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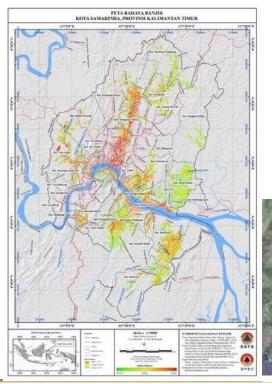


Figure 6. Flood Risk Map and flood projection in the Samarinda

	No.Sub District/Street Name	Inundation Height	Inundation Area	Duration (Hour)
		(m)	(Ha)	
1	Sempaja Selatan	0.4 - 0.6	20	4
2	Sempaja Utara	0.5 - 1.5	50	8
3	Lampake	0.4 - 0.6	200	8
4	Gunung Lingai	0.4 - 0.6	50	8
5	Sungai Pinang Dalam	0.4 - 0.6	30	5
6	Sungai Siring	0.4 - 1.0	50	10
7	Lempake (Simpang 3)	0.3 – 0.6	3	3
8	Temindung Permai	0.3 – 0.6	5	6
9	Bandara Temnidung (Jl. Gatot Subroto)	0.3 - 0.8	5	6

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		Inundation	Inundation	Duration	
	No.Sub District/Street Name	Height	Area	(Hour)	-
		<u>(m)</u>	(Ha)		+
10	Simpang Pinang Dalam	0.5 - 0.8	15	8	-
11	Simpang 4 Jl. Agus Salim	0.3 - 0.5	1	4	-
12	Sidomulyo	0.3 - 0.5	1	A.	-
13	Sidodamai	0.3 - 0.5	1	4	-
14	JI. Mulawarman	0.3 - 0.6	0.2	4	-
15	Simpang 4 Jl. Pang. 5 Batur	0.3 - 0.5	0.2	4	-
16	JI. Awang Long	0.3 - 0.5	0.5	3	-
17	Rapak Dalam	0.4 - 0.7	40	6	-
18	Tani Aman	0.4 - 0.8	30	6	-
19	Sungai Kaledang	0.3 - 0.6	3	5	-
20	Loa Bakung	0.3 - 0.6	10	6	-
21	Karang Asam Ilir	0.3 – 0.5	0.5	5	-

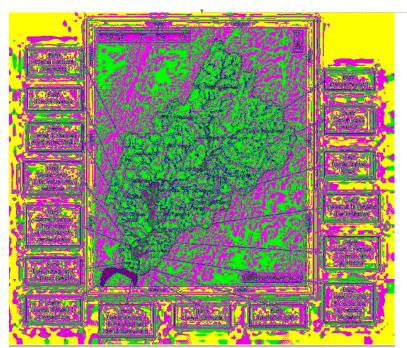


Figure 7. Map of Potential Flood Inundation Areas in the Karang Mumus Sub-watershed, Samarinda,

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19

SSD Karang Mumus Hulu Average Rainfall									
10	Date	Rain Sta Siri	tion Sei	Rain S	Station	Rain Sta Tanah M		Thiessen Average Score	Maximum Rainfall
		R1	C1	R2	C2	R3	C3		
				River Ar	ea : 69.53	3 Km2			
1	7-May-04	0	0 <i>,</i> 995	74	0,005	91	0	0,39	
2	3-Dec-04	96	0 <i>,</i> 995	0	0,005	0	0	95,49	95 <i>,</i> 49
3	12-Apr-04	0	0 <i>,</i> 995	0	0,005	112	0	0	
4	7-Jul-05	36,7	0 <i>,</i> 995	77	0,005	31,5	0	36,91	
5	28-Jan-05	81	0 <i>,</i> 995	0	0,005	14	0	80,57	80,57
6	3-Oct-05	28	0,995	68	0,005	118,9	0	28,21	
7	4-Nov-06	14	0 <i>,</i> 995	75	0,005	14	0	14,32	
8	25-Mar-06	99,5	0 <i>,</i> 995	74	0,005	15	0	99,36	99 <i>,</i> 36
9	24-Mar-06	0	0 <i>,</i> 995	0	0,005	71,1	0	0	
10	6-Nov-07	10	0,995	78,5	0,005	57	0	10,36	
11	10-Nov-07	86,7	0,995	79	0,005	61	0	86,66	86,66
12	11-May-07	86	0,995	0	0,005	100,1	0	85,55	
13	10-Oct-08	47,5	0,995	85	0,005	0	0	47,69	
14	22-Apr-08	86	0,995	33 <i>,</i> 5	0,005	0,9	0	85,72	85,72
15	4-Jun-08	0,8	0,995	3	0,005	63,9	0	0,81	
16	28-Nov-09	52,6	0,995	80	0,005	11,8	0	52,74	
17	16-Apr-09	91	0,995	0	0,005	48,5	0	90,52	90,52
18	24-Oct-09	20,6	0,995	52	0,005	53,9	0	20,76	
19	28-Oct-10	59,6	0,995	81,8	0,005	7	0	59,71	
20	17-Dec-10	82,3	0,995	0	0,005	0	0	81,86	81,86
21	31-Mar-10	12	0,995	0	0,005	90,3	0	11,94	
22	24-Apr-11	6,3	0,995	96,4	0,005	2,5	0	6,77	
23	5-Jan-11	93,4	0,995	0	0,005	14,7	0	92,91	92,91
24	31-Mar-11	0	0 <i>,</i> 995	0	0,005	90,3	0	0	
25	10-J un-12	0,2	0,995	77,2	0,005	8	0	0,6	
26	24-Oct-12	53,6	0 <i>,</i> 995	10	0,005	1	0	53,37	53,37
27	6-Jul-12	15,1	0 <i>,</i> 995	11,1	0,005	67,5	0	15,08	
28	3-May-13	0	0,995	96,1	0,005	0,5	0	0,5	
29	18-May-13	128,5	0 <i>,</i> 995	0	0,005	2,5	0	127,82	127,82
30	19-Sep-13	0	0,995	0	0,005	115,7	0	0	

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POLLUTION

Logging and mining activities have contributed to what has been termed an "alarming rate" of pollution of East Kalimantan's Mahakam River. Tests of water pollutants show that levels have increased sharply between 2009 and 2011. Despite the growing pollution, it is claimed that "the water is basically still safe for consumption." Unsafe concentrations of heavy metals have been observed in Mahakam fish. A 2015 study found lead concentrations in excess of 1000 times safe levels along with unsafe levels of copper, zinc, and cadmium⁵²

 Table 5.
 Data on principal element analysis on surface sediments in the Mahakam delta Water (Darlan,

 Yuli et al.. 2009)

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80	SAMPLE	(100 ₀ (100	21,0%3 500	1846 <u>6</u> 688	4940 535	8058 928	10940 600	6 <u>8</u> 9	110 ₀	(S)(C) 455	64. 68	900 ₀ 700	1940 1930	<u>経験</u> 688
1	STAD1	100.00	1448	839	1004	1.16	8.65	1.39	666	0.1	2.17	404	1.52	11.12
名	132409	- 98426P	197.43	2.62	0.49	16290	1.59	S AR	(<u>19</u> 25)	1 0.08	2.96		129	19466
3	1211年1	100.000	1 00	19.65	105	8288	5355	1.85	18.7N	- 1933	1.52	0/16	包织	「施路
4	14-005-1-3	3865	7.94	-2.03	0.62	0.55	1.89	668	8.25	0.12	112	-8.09	4.00	系統
- 11	(HINGER ALL)	10.00	161.56	12.55	44.60	0.24	1.10	148		10,02	28.8	0.012	5286	14:15
8	A DECISION		104.00	14	- 9 <i>69</i>	6.97	1.38	4.69		<u>. (96)</u>	18.94	800	948	自然
\sim	LAPPERED.	1000	1925	- 202	100	16.8	670	142	1 121	1 1993	616	6.36	1.17	1854
8	Hardson	198/19	1420	202	8.65	1.93	て渡し	1.88	8.53	1 49433	「忠知」	6.18	1.29	18,84
10	Sister and state	300.000	14570	4,48	1,6%	- 586A	1,80	122	- 84.8X	1998	11.20	1000	1.19	455
13	MILLION COLUMN	2069	838	4,29	1.59	636	2.53	1000	6483	1 (MS	0.840	6.6%	100	4.32
19	1000	認識	1845	幕僚	4.38	123	1.67	1,61	6.23	((B))P	94 8 8	(\$. 1)	1.00	能夠
38		1920	1843	202	4,29	1/36	1.80	1,49	- R R	(9)7	- 41日	0.03	230	们阁
1 3	MILLING SEA	「製作	The second se	\$11	0.10	11.55	1,03	9.38	640	小説	816	812	1.22	14.8%
14		100	1.44	100	1.22	222	127	1.8	12	-999	2000	0.00	12.00	
18	218.48	53,65	6.53	434	10.00	631	8.50	637	6,33	0.00	2.12	8.08	1,14	\$91

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SOCIAL ASPECTS

The River Mahakam is an economic resource for fishermen and farmers, and as freshwater source, as a waterway since ancient time until today. It is in this river basin where the Kutai kingdom evolved. The Kutai history is divided into two periods, Kutai Martadipura (around year 350-400) and Kutai Kartanegara period (around year 1300). Kutai Martadipura, a Hindu kingdom founded by Mulawarman at Muara Kaman, is regarded as the oldest kingdom in Indonesia. Kutai Kartanegara was founded by settlers from Java at Kutai Lama near the mouth of Mahakam. In year 1565, Islam was extensively spread in Kartanegara by two Moslem preachers from Java, Tunggang Parangan and RiBandang.

The Dayaks are the indigenous people inhabiting Kalimantan beside the Kutais and the Banjars. Since the 1970s, transmigration of people to East Kalimantan was <u>organized</u> by the Indonesian government, especially in areas near River Mahakam. Transmigration aims to migrate people from overpopulated Java, Bali, and Madura islands to stimulate greater agricultural productivity in outer islands. By 1973, almost 26% of the land under cultivation in East Kalimantan was being worked by transmigrants.

Another social aspect that is also related to the issue of social vulnerability is the gender issues in Samarinda where certain optimization are needed including; (a) Gender Mainstreaming Working Group's role; (b) The role of women in development (c) reporting system for women and children abuse; (d) Implementation of activities towards a children friendly city; (e) Services in accordance with the Convention Children's rights; (f) information about children's forums at school, and community; (g) The role of social institutions as a forum community participation; (h) public awareness in preventing violence towards women and children. All those issues cause high poverty rates includes the high of (1) The number of poor families due to limited access in utilizing development resources; as well as (2) The lack of adequate facilities and infrastructure for performance and service improvement.

⁵² Data on principal element analysis on surface sediments in the Mahakam Delta waters (Darlan, Yuli Et al., 2009)

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The table below lists some of the main issues being faced in Samarinda City. These include from social to environmental or development issues, that exacerbate the community' vulnerability to climate change.

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City Territory	Ethnicity	Vulnerable	Vision and Mission	$\langle \rangle$	Formatted: Font: Calibri, 10 pt, English (US)
		communities issues			Formatted: Font: Calibri, English (US)
narinda City	The first ethnic	 Environmental problems 	Focus (2018-2023) on:		Formatted Table
miles Ala	group living in this	that arise are <u>floods</u> , and	Realizing the quality		Formatted: Font: Calibri, English (US)
	area was the Banjar and BugisWajo.	poor waste management, thus making the quality of	of East Kalimantan's		Formatted: Font: Calibri
ALL SLATER	Furthermore various	health worse.	human resources that are independent,		
-73 - N	kinds of ethnic	Lack of infrastructure	highly competitive		Formatted: Font: Calibri
THE AF	groups began to	development mainly	and noble;	/	miles and
HE BANK	arrive and settle in	related to the construction	Realizing a reliable		Country of the second s
7 X LEST	Samarinda City	and maintenance of roads	economic structure		
	including: • Paser	and other facilities. This resulted in the difficulty of	with broadest		1-7-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	Javanese	connecting between one	community participation;	V	
	Madurese	city area and another.	Realizing equity and	$\langle \rangle$	Harris and the
	• Sasak	Throughout 2017, the	proportionality of		
	• Dayak	highest temperature of	basic services, for the		
	• Chinese And others.	Samarinda Municipality	community;	ALCONTRACT.	Deleted:
	And others.	is 28.30°C with <u>the highest</u> humidity of86%. When	Realizing effective, officiant participatory	J // //	Formatted: Font: Calibri, English (US)
	A	viewed from rainfall and	efficient, participatory and law-based		
		rainy, days, the	governance;		Formatted: Font: Calibri, Italian
		Municipality of	Realizing integrated		Deleted: highesttemperature
		Samarinda has the highest	and harmonious		(Formatted: Font: Calibri
		rainfall and rainfall in April and June in	development with an		(Deleted: °
		2017.	economic and		Formatted: Font: Calibri
		 Protection and support 	ecological based regional development		Deleted: thehighest
		for vulnerable populations:	approach.		Formatted: Font: Calibri
		women, children, elderly,			Formatted: Font: Calibri
		disabled. <u>Gender Problem</u> <u>Identification in Samarinda</u>	<u>9 Priority Agenda</u>		Formatted: Font: Calibri, English (US)
		is included optimalization	<u>Samarinda City:</u>		
		needed for: (a) Gender	• Priorities 1. Optimizing	,	Deleted: andrainy
		Mainstreaming Working	flood control.		Formatted: Font: Calibri
		<u>Group's role; (b) The role</u>	Priority 2. Increasing		
		<u>of women in development</u> (c) reporting system for	the degree of public		
		women and children	<u>health.</u>		
		abuse; (d) Implementation	• Priority 3. Development		
		of activities towards a	of education to produce		
		<u>children friendly city; (e)</u>	human resources		
		Services in accordance with the Convention	professional character		
		Children's rights; (f)	and religious.		
		information about	• Priority 4. Development and improvement of		
		children's forums at school,	infrastructure, urban		
		and community; (q) The	infrustructure, urbull		

City Territory	Ethnicity	Vulnerable communities issues	Vision and Mission	Formatted Table
		role of social institutions as a forum community participation; (h) public awareness in preventing violence towards women and children.	facilities and utilities supporting leading sectors and environmentally sound. Priority S. Poverty alleviation based on community economic empowerment. Priority 6. Disaster prevention and management, collaboratively and effectively. Priority 7. Improvement of religious life, arts and culture; increasing the role and achievements of youth, and sports; and increasing the empowerment of women. Priority 8. Strengthening regional income and development expenditure in the region.	Formatted: Font: Calibri
			Priority 9. Improving good governance.	
				Formatted: Font: Calibri
.2. Climate mitigat				Formatted: No bullets or numbering Formatted: Font: Calibri, English (US)

In 2010, the East Kalimantan government committed to sustainable development by launching the Green East Kalimantan focused strategy on improving natural resource governance. To reach its goal, the provincial government engaged various local stakeholders in East Kalimantan and requested support at national and international levels. Governor Awang Faroek Ishak launched *Green Growth Compact (GGC)* in September 2016 as a tool to bring together initiatives from the public and private sectors, local and national governments, communities, NGOs and universities. During the annual meeting of the Governor's Task *Force on Climate and Forests (GCF)* 2017 in Balikpapan, an agreement was signed by several of the stakeholders containing seven pilot initiatives, namely: (1) implementing an emission reduction program carbon for the FCPF scheme; (2) strengthen social forestry efforts (targeting 660,782 Ha); (3) strengthen 21 KPHs; (4) strengthen management of Wehea-Kelay's Essential Ecosystem (KEE) for corridors Orangutan; (5) developing partnerships for the management of the Territory Delta Mahakam; (6) supports the development vision of Berau Regency (Berau Forest Carbon Program); and, (7) developing plantations sustainable in all districts. Since the launch of the

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 •National Urban Development Project" (NUDP) (Project ID: P163896)

 •the "Improvement of Solid Waste Management to Support Regional and Metropolitan Cities" (Project ID:

P157245) coordinated by the World Bank

East Kalimantan strategy Green, KLHK at the national level has supported it as a model sustainable development for Indonesia.

Within the framework of the *Forest Carbon Partnership Facility (FCPF) Carbon Fund program*, the East Kalimantan Environmental Service relied on several tools to assess the status of the local environment, for example it introduced a system for measuring, reporting and monitoring (MMR) greenhouse gas (GHG) emissions and the National Registration System (SRN). This program was endorsed by the Government of Indonesia to participate in the *Forest Carbon Partnership Facility (FCPF) Carbon Fund program*. Currently East Kalimantan is in the negotiation stage of the Emission Reduction Payment Agreement (ERPA), to be <u>finalised in</u> 2020. This program also engages other institutions, namely: Research and Development Center for Socio Economic Policy and Climate Change (P3SEKPI); Climate Change Regional Council; and WWF (World Wide Fund for Nature).

CLIMATE KAMPONG PROGRAM

East Kalimantan Province has endorsed a green development model as the key to future sustainability in the region. Climate Change in East Kalimantan is not a figment of people's imagination. The Balikpapan Meteorology and Climatology Agency show that in the last 30 years there has been an increase in the average temperature of 0.043 °C per year in Samarinda, and 0.02 °C per year in Balikpapan. The Regional Council for Climate Change in East Kalimantan stresses how collaboration between stakeholders, government and citizens is a strategy to maximise efforts toward a Green Kalimantan. Currently, through the Green Development Agreement scheme, 11 pilot initiatives have been built, including emission reduction interventions through the Forest Carbon Partnership Facility (FCPF) scheme, covering an area of 660,782 hectares. Other interventions include the management of the Essential Ecosystem Area (KEE) for the orangutan corridor in the Wehea-Kelay Landscape, the development of the Delta Mahakam partnership, the Berau Forest Carbon Program (PKHB), the sustainable plantation development, land and garden fire control, SIGAP Program Prosperity and Climate Change Adaptation in the city of Balikpapan, and the Climate Kampong Program. Climate kampong program or PROKLIM is a national program by the Ministry of Environment and Forestry, aiming to increase the involvement of the community and other stakeholders in strengthening the capacity of adaptation to the effects of climate change and the effects of greenhouse gases. The purpose of the climate kampong is to encourage communities to adapt and take steps to address the impacts of climate change on their respective environments. Sindang Sari and Makroman Sub-districts at Sambutan district, Samarinda City, were selected to participate in the 2019 Climate Kampong Program. Sindang Sari Sub-district is a small example of Samarinda City's efforts to be proenvironment. The goal of this program is to facilitate citizens' engagement facing climate change and climate adaptation. The program has also a focus on educating new generations and preparing them for the future.

For the Samarinda City government, kampong development within the *Clean and Healthy Green Program* is very important as a practical and effective way to create an understanding of the importance of personal and environmental health for communities. Both selected kampongs in Samarinda City are expected to work towards creating a village that is in accordance with shared ideals. The climate kampong program actually aims to endorse how people try to protect their environment, adapt to climate change disasters and also to get ecological and economic benefits, in order to increase people's income and liveability. Deleted: in order to

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	Table 7. Local Action for overcomes the issue	e in Samarinda City	
No Hazard Risk	nd Climate-Related Hazards and Risks for Samarinda City	Samarinda Local Action	Stakeho
1 Flood a drough	The second se		
	 Floods in Samarinda is happen annually. Length, height and spaciou flood that have varied. The duration of the flooding that occurred ranged between 3 –10 hours with the water level between 0,3–1,5 m while the area of inundation The contained Lempake area, with a area of inundation to ± 200 ha. (AchmadGhozali, Ariyaningsih, Riyan Benny Sukmarab, Belinda Ulfa Aulia, 2015, A Comparative Study of Climate Change Mitigation and Adaptation on Flood Managemen Between Ayutthaya City (Thailand) and Samarinda City (Indonesia) Procedia - Social and Behavioral Sciences 227 (2016) 424 – 429 Flood disasters, landslides have increasingly occurred in Samarinda KutaiKartanegara, East Kutai, and West Kutai, this is a negative impact of mining that is rapidly developing and uncontrolled River flood hazard and urban flood hazard are classified as high based on modelled flood information currently available to the tool of <u>http://thinkhazard.org</u> Image the flood information currently available to the tool of the standard or the standard	 (Astuti, 2014; Sari, 2015): (1) The development of a retention pond as a water reservoir from rainfall runoff, (2) The development of drainage subsystems as the smooth management of the water discharge from residential unit toward the primary channel, (3) The development of floodgate on a tributary of the Mahakam River especially KarangMumus river and water pumps in flood area, (4) The City Rivers Normalization program for increasing water flows, (5) Development of Bendalis (a <u>small water</u>, 	Samarinda Mu

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		i) fluvial floods along the Karang Mumus River,	Increase public and private green space	Samarinda Citizen	Formatted	[395]
		ii) pluvial floods in the city, and iii) coastal floods due to the high-water levels in the Mahakam River.			Formatted	[396]
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		Flooding cause frequent inundation of buildings, temporary relocation of			Formatted	[398]
		people and associated health hazards. The river is a significant source of community activities despite the river pollution.			Formatted Table	[399]
		community activities despite the river pollation.			Formatted	[400]
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2	Access to clean				Formatted	[402]
	water	The community does not understand the essence of the existence of	 Clean Water Services through Regional 	Samarinda Municipality	Formatted	[403]
A		swamps on the left and right sides of the river that flow through the city	Water Companies.	Sumumuu wumepuncy	Formatted	[404]
		of Samarinda, even though this can be an alternative source of clean			Formatted	[405]
	T	water. Samarinda has lost swamps in the size of thousands of hectares and will continue to grow due to the decline of swamps in the interests of			Formatted	[406]
	_ <u> </u>	settlements and opening trade areas. (source: "Tidak ada kebijakan			Formatted	[407]
		dibuat untuk menghentik anok upasi atas rawa-rawa ,			Formatted	[408]
		https://www.niaga.asia/mengapa-air-menjadi-masalah-di-samarinda/).			Formatted	[409]
		water scarcity is classified as very low or non-existent based on modelled flood information currently available to the tool of			Formatted	[410]
		http://thinkhazard.org			Formatted	[411]
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2	Access to				Formatted	[413]
3	reliable energy				Deleted: http://thinkhazard.org	
	resources				Formatted	[414]
A	A	The number of households served by PLN connections has almost doubled in the period 2011-2015. However, there are still 200% of	Electricity Services by the State Electricity	Samarinda Municipality	Deleted: ¶	~ ~
	🕢 🔺 🕅	doubled in the period 2011-2015. However, there are still 70% of households that have not been served (BPS Samarinda, 2015)	Company.		Formatted	[415]
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Λ	Community				Formatted Table	[418]
4	vulnerability				Formatted	[419]
	and safety				Formatted	[420]
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		From 2010-2018 there was no significant reduction in the percentage of > Demand lawfully issues related to the	Samarinda Municipality	Formatted: Font: Calibri, English (US)
-		poverty, namely from 5.21% in 2010 to 4.59% in 2018 (BPS Kota management of coal mining environment.		Formatted: Font: Calibri
		Samarinda, 2018). East Kalimantan is faced with environmental problems due to Protection and support for vulnerable		Formatted Table
	<u>ריי</u> ט	Lost Kalimantan is juced with environmental problems due to uncontrolled mining exploitation. During the last 10 years, in addition to 32 fatalities, he said there were 632 excavated holes. Former mining excavations in East Kalimantan continue to take casualties in the past seven years. The number reached 32 people, 27 of whom were children. In the notes of the One Earth Forum, East Kalimantan is one of the deadliest provinces for its citizens. Because, since the Dutch colonial era, around 1894, this province, formerly called Borneo Land, has extracted itself. Through the dismantling of oil and natural gas and until this happens, natural wealth continues to be dredged. To this day, East Kalimantan is still relying on the economy for logging, coal extraction, and the opening of oil palm plantations. After Kaltara was expanded, the area of East Kalimantan became 12.7 million hectares are destined for mines. Meanwhile, the plantation area is only 3.37 million hectares. No more than 4.27 million hectares are living spaces that must be shared for houses of worship, hospitals and schools, roads and markets, as well as playgrounds and settlements for a population of 3.4 million. This all creates a living space that is of poor quality		Formatted: Font: Calibri, English (US)
		(https://www.mongabay.co.id/2017/03/27/masyarakat-kalimantan- timur-menderita-akibat-lingkungan-yang-rusak/)		Formatted: Font: Calibri
		Protection and support for vulnerable populations: women, children,		Formatted: Font: Calibri, English (AUS)
		elderly, disabled.		Formatted: Font: Calibri
5	Food security			Deleted: ¶ [4
		As of July 2019, at least there have been numerous forest fires which \blacktriangleright Until now, Samarinda City is only able to	Samarinda Municipality	Formatted: Font: Calibri, English (US)
A		have burn an area more than 60 Ha fulfill 18 percent of Samarinda's food needs.		Formatted: Font: Calibri, English (US)
		(<u>https://merdeka.com/peristiwa.html</u> ,) Indigenous people in that lived in The remaining 82 percent must be brought in		Formatted: Font: Calibri, English (US)
		East Kalimantan have continued to lose their main livelihoods since the from outside East Kalimantan by the city		Formatted: Font: Calibri
		presence of coal and mineral mining, the oil and gas industry, and palm oil plantations. The vast area of land needed investment has led to Synchronizing and sharpening the role of		Formatted: Font: Calibri
		narrow areas of management of indigenous people extension agents in the field plus increasing		Formatted: Font: Calibri, English (AUS)

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		(<u>https://money.kompas.com</u>). As a result of uncontrolled mining, the	the capacity of education counseling in the		Formatted: Font: Calibri
		agricultural sector in East Kalimantan was hit. Rice fields must be shifted	field of agriculture.		Formatted: Font: Calibri, English (AUS)
		because of being forced by mining sites.	Diversification of food and utilization of land owned by the community.	Samarinda Citizen	Formatted: Font: Calibri
			Coaching through the use of home yards to help fulfil household food needs		
5	Waste Contamination				Formatted: Font: Calibri, English (US)
		• Every day, Samarinda City produces 800 tons of garbage. These organic	Processing waste into recycled goods that are	Education Institution	Formatted: Font: Calibri, English (US)
		and non-organic wastes are collected from various points. If added up	worth selling.		Formatted: Font: Calibri, English (US)
		every month, the city produces 24 thousand tons of waste. On certain days the amount of garbage in the capital has increased dramatically. For	At certain times, where waste is very disturbing, the government invites Non-	Samarinda Municipality, NGO, Citizen	Formatted: Font: Calibri
	•	example on weekends, school holidays, Eid al-Fitr, Christmas and New	Governmental Organizations to clean up		
		Year. At that moment, garbage increases 30 percent compared to the usual day	Waste together. Form a junk cyber team that is tasked with 	Samarinda Municipality	_
	*/ I	 (Source: http://bontang.prokal.co/read/news/18363-astaga-sehari- 	spurring the community to maintain	Sumarinaa wanicipanty	Formatted: Font: Calibri, French
		samarinda-dipenuhi-800-ton-sampah).	cleanliness.		Field Code Changed
		• The number of Final Disposal Sites is only one that is qualified. Namely	The Government of Samarinda City has	/ / /	Formatted: Font: Calibri, French
		Bukit Pinang Final Disposal Site on JalanPangeranSuryanata, Samarinda	begun to formulate and issue policies related		
		Ulu. Even then the capacity is only up to 500 tons per day. In other words there are still 300 tons of waste volume that meets the capital city. The	to the condition of solid waste in Samarinda		Formatted: Font: Calibri, English (AUS)
		alternative is the Sambuta Final Disposal, which is district scale. However,	such as the issuance of Perwali Number 1 Year 2019 concerning Reducing the Use of	$\langle \rangle$	Formatted: Font: Calibri, French
		because of the problem of land, the volume of garbage that can be	Plastic Waste.		Formatted: Font: Calibri
		accommodated is only enough for the surrounding residents. [Source: http://samarinda.prokal.co/read/news/11758-volume-sampah-	Socialize the rules to the public to dispose of waste according to the place provided and		Formatted: Font: Calibri, French
		meningkat-tajam.html <mark>).</mark>	the time determined according to Perda		Formatted: Font: Calibri, French
			Number 2 Year 2011 namely, from 6 pm to 6		Field Code Changed
			am local time. Organic Waste Management.	Samarinda Municipality	Formatted: Font: Calibri, English (AUS)
				and Citizen	Formatted: Font: Calibri, French
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Part	<u>3</u> ,Technical Summary: New ways forward for climate-responsive urban public space
a)	The project vision is to create a new typology of public space, conceived as a series of public spaces that form an interconnected network within the pilot city of Samarinda.
b)	Key priorities for the project include solutions and education about (1) flood and drought; (2) access to clean water; (3) access to reliable energy sources; (4) community vulnerability and safety; (5) food security; and, (6) waste management.
c)	Each of the designed public spaces will encourage the local community to engage with the 6 key priorities. They will provide access to essential resources such as clean water, food and energy, provide educational opportunities to learn about sustainability and demonstrate how to reduce climate change impacts.

3. PROJECT/PROGRAMME OBJECTIVES

UNDERSTANDING OF THE TITLE:

EMBRACING THE SUN: Redefining Public Space as a Solution for the Effects of Global Climate Change in Indonesia's Urban Areas

Indonesia is a tropical country consisting of 5 large islands surrounded by many small islands. As a tropical country, of course the sun is the main daily companion for people in Indonesia and is an icon of the climate. But lately, we have found and witnessed many changes in people's attitudes towards our natural climate. Mainly related to the effects of climate change. Climate change is something that cannot be avoided all over the world. Including in Indonesia. At present, people prefer to avoid and ignore climate issues which are unfriendly and disturb the comfort of daily lives.

Through this proposal, we want to raise awareness of the threats and the potential of our Indonesian environment and our tropical climate; we want to increase awareness of the impacts of Climate Change and the main strategy to achieve this is rethinking Public Space.

The objective of this program is to prepare Indonesian communities to cope with the effect of climates change as well as reduce the causes of the current environmental crisis. The focus is on addressing flood adaptation and its social impact on urban communities. This is achieved through the development of a new typology of public space and its implementation within a pilot city, Samarinda city, and with the objective to address in the first instance the challenges of flood adaptation and preparedness; other challenges connected to climate change will have also to be addressed so to deliver an infrastructure that is self-sufficient during floods events, and an integral part of the urban social fabric outside flood-events. The program is based on an action research participatory methodology. The theoretical framework adopted is the *Positive Development* paradigm⁵³, which promotes building solutions and techniques that improve the quality of the environment, harvest resources sustainably and positive externalities to the ecological landscape in the vicinity. Positive

53 Birkeland, J. (2008). Positive development: from vicious circles to virtuous cycles through built environment design London: Earthscan

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development <u>paradigm</u> advocates interventions on the triple bottom line of economy, environment, and society, to improve the overall net performance of systems in different fields. Going beyond sustainable development, positive development advocates interventions that contribute a positive gain to <u>the</u> system and that instead of depleting resources, generate improvements on ecosystems, communities, and economic systems. In this paradigm, interventions instead of requesting continuous inputs to function, would produce outputs to support communities and better the overall environment⁵⁴. The Positive Development paradigm is implemented in this project through a systemic approach⁵⁵, aimed to create a resilient ecosystem within the city of Samarinda. The systemic approach aims to establish a network of infrastructures that respond in a coordinated way to different challenges connected to climate change.

The systemic approach <u>aims</u> to address in first instance the main challenge of flood adaptation; the proposed public <u>space</u> will then <u>also</u> address other climate related challenges <u>through the</u> detailed design of the new <u>infrastructure</u>. The systemic approach allows to <u>maximize</u> the resources and possibility of an ecosystem, <u>distributing</u> the load of current challenges, <u>maximizing</u> the gains of the interventions, outreaching different communities within the selected pilot city<u>56</u>. The creation of public spaces based on the new proposed typology, will also foster dynamics aimed to connect, enhance, and integrate existing public spaces.

The <u>long-term</u> vision is to create a network of public spaces that will support a new ecosystem that will provide benefits to the entire city. Although the <u>intervention</u> will be spatially limited to <u>one</u> specific <u>community</u>, the creation of a network <u>in the long term</u>, including existing and proposed public spaces, green areas, water bodies, community and social infrastructure, will <u>maximize</u> the environmental and social benefits of the <u>program</u>. The network will be established through low-cost high-impact design solutions to be progressively implemented in the urban tissue. <u>Design guidelines</u> for bottom-up or middle-out interventions will be developed building on learnings from this project. To provide an idea of the overall approach to the creation of this new typology, some relevant case studies are summaries in table 6. These case studies address one specific issue, contextually creating a public space addressing also secondary social and environmental issues.

 Table & Preliminary case studies for the development of a new typology of public space

Case Study	Location	Project
	<u>Nishiki, Japan</u>	The Nishiki Tower is an example of how in Japan structures designed to provide a haven for communities during tsunamis has been envisioned to solve also other community needs, and act as an urban landmark.
	<u>Venice, Italy</u>	igVenice has a strategy to deploy walkways across the city center quickly to face h

54 Idem.

55 Maser, C. (2012). Decision-making for a sustainable environment: a systemic approach. Boca Raton: Taylor & amp; Francis, 56 Idem

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<u>Copenhagen, Denmark</u>	Enghaveparken is a public park that is undergoing refurbishment so to accommodate the need of local communities as well as serve as a 24,000 cubic meter retention basin for water during major flooding events	
Zurich, Switzerland	MFO-Park in Zurich is an example of a vertical public space, where different platforms cater for different social activities. Ramps and stairs connect the different platforms providing a vibrant environment, especially for youngsters.	
Brisbane, Australia	Rainbank is an integrated system to collect rainwater in a 30h urban basin, treat the water through vegetation and store it for the use of the local area needs. The project relies on existing infrastructure and public spaces to collect and treat water, which is then stored underneath South Bank parkland, Brisbane main public space.	Formatted: Font: Calibri, English (US)
Sydney, Australia	Ballast Point Park in Sydney accommodates a structure built out of a recycled tank; this structure support micro wind turbines to produce clean energy for the local community	Deleted: [487] Formatted: Font: Calibri, English (US)
Bangkok, Thailand	Urban farming is an activity that is taking place in several cities; Suanluang 1 community in Bangkok has taken this activity to a new level; public spaces in the urban village are used to grow food, which is then used to prepare traditional food. This is sold once a week in a unique Muslim market, the larger of its genre in Thailand. This project has provided positive outcomes to residents in terms of quality of public space, access to food, and in terms of economic return through the markets.	Formatted: Font: Calibri, English (US)
Bogotá, Colombia	Mayor of Bogotá, Enrique Peñalosa has invested in the creation of an integrated network of bikeways, public spaces, supported by a Bus Rapid Transit. These interventions have provided a reduced reliance on private transportation and increased accessibility to the urban core reducing its congestion.	Formatted: Font: Calibri, English (US)

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Tirana, Albania

Since 2000, Tirana has invested in rejuvenating its public space creating a series of <u>colorful</u> interventions. This cost-effective project engaged the community in rediscovering their city; public spaces were revitalized with a positive effect on street security and commercial activities.

Within this theoretical framework, this program suggests a strategic role of a public spaces 57 Publice space is for definition communal space and a stage where private interests are generally negotiated for a greater common good. The disperse and interconnected nature of public spaces allow them to act as ecological corridors as well as social spaces 58. Looking at public spaces as opportunities to connect different parts of a city, different ecosystems, different communities, can contribute to face in a networked way emerging challenges, to distribute access to resources, to integrate opportunities for positive development within the urban fabric and social life.

The case studies reviewed individually address one specific issue connected to climate change; they all suggest the idea of public space as an infrastructure that links societal, economical, and environmental dynamics. This project recognizes the interconnected nature of flood events, their impact on communities at multiple levels, limiting access to resources and services. Flooding disrupts supply chains challenging food security and community sustenance; flooding affects access to clean water and power; flooding threatens the physical environment and undermines the social structure. This program aims to deliver a public space that will provide a haven for communities during flood events; this haven will be designed so to address the multilayered issue of floods. It will mitigate in first instance the effect of flooding within the selected community and provide access to resources to sustain the community during recovery. The public space will function as a community hub also outside flood season, maximizing the impact of the infrastructure on the local community.

Imagine the following scenario, you live in Samarinda and you find yourself in need of protecting yourself, your family, and your house from an incumbent flood. In first instance, your seek haven in a purposelly built structure, which will provide you shelter and support you during the incumbent event. While in the structure, you need access to clean water, food, and power; you need services and toilets. During the flood, you might need to face the rising water level to reach haven and protected walkways would make this task easier and safer. After the flood, you need to clean up, store debris, manage waste, reinstate your access to distribution lines and resources (how to do this?). Our rationale is that the physical impact of floods on a community are just one aspect of the issue and that there are several other factors to consider in order to foster community resilience and preparedness to embrace climate adaptation. The public space we envision addresses one issue, flood adaptation, proposing an integrated system that can cope with the nuances of this situation. The strength and innovation of this project is not limiting the intervention to the provision of a simple shelter. The strength of this project is to bring together existing solutions and technologies into an integrated system to address one complex issue through multiple integrated actions. The improvement of integrated actions, through a systemic approach, will be able to support communities before, during, and after a flood event, supporting them to adapt to climate change. The different actions will be co-located and integrated within the same public space, so to maximize the impact of the intervention and its costeffectiveness

57 Wikantiyoso, R., & mp; Suhartono, T. (2018). The role of CSR in the revitalization of urban open space for better
sustainable urban development. International Review for Spatial Planning and Sustainable Development, 6(4), 5-20
doi:10.14246/irspsd.6.4_5
58 Guaralda, M., & amp; Kowalik, M. (2012). Negative space and positive environment: mapping opportunities for urban
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This program, in the long-term, aims to have a positive impact on the enhancement of lives quality and life expectancy of communities within Samarinda city in Indonesia, through the development and construction of an integrated network of public spaces that will function as infrastructure to increase community resilience and provide communities with basic access to resources. The first and main aim of the network is to adapt and to prepare to face disruptive flood events. One public space will be developed to pilot this approach; its design and structure will provide communities with a space that will support the community before, during, and after flood events. The new public space will act as a hub where communities will learn about flood and will access resources and materials to face flood (for example sandbags) in preparation for a flood event. During a flood event, the public space will act as a haven where communities will be able to find refuge in a multi-level structure. The lower section of the structure will be designed as a floodable landscape to harvest flood waters and mitigate the impact on surrounding communities. The infrastructure will also provide communities with access to food, clean water, and power, so to support them while they need to shelter in the haven. After the flood, the public space will act as a hub to support recovery, temporarily store debris, organize cleanups and community recovery. A system of risen walkways is also suggested to connect the haven to surrounding areas. Outside the flood events, these walkways will act as benches and platforms supporting the local social community. Overall, the proposed public spaces will increase community safety during flood events. The physical interventions will address current and emerging issues linked to climate change through passive systems, community engagement, and affordable low-tech solutions. Outside flood events, the structure will host market functions at the lower level, children and youngsters facilities at the mexxanine level, and support also urban farming facilies thrgotuh its envelope. At the upper levles, solar panels and turbines will generate electricity to support the community while sheltering and provide a source of income outside the flood events, selling powersa to local businesses. Food production is seen as an important secondary component of this project, which can foster economic activities and social engagement also outside hazardous events. Local women will be a fundamental partner in the success of the intervention; they will ensure the redefinition of public space in the concept of positive development is achieved. The aim is no longer merely to bring women's voices to the public sphere for the benefit of women and children but to further transform the existing power relations structure as a result of patriarchal culture that marginalizes vulnerable groups. The new public space will provide women with a space where to be economically active with the production of food and leading communities in adapting to climate change. The pilot project in Samarinda City will provide the template for interventions in other Indonesian cities through the development of implementation guidelines. These guidelines might also be implemented in other national contexts, taking in consideration local needs and conditions.

The nature of the physical intervention and the character of the methodology to design and deliverthem will be a fundamental component in the long-term sustainability of the project. The use of passive technologies and design will ensure that the new public spaces will be maintained with the requirement of minimal investment in the long-term. The co-creation approach – through engagement with the local community during the design of public spaces – is aimed to foster a sense of ownership within the interested communities, who will then be entrusted with the day-to-day maintenance and activation of the public space system. The design of the new public space, will rely on the use of passive technologies and, where possible, off-the-shelf technologies. In order to identify suitable solutions and technologies for the city of Samarinda and the selected location, as part of the first component of the program, a contextual review will be developed. The selected solutions will be then discussed with community stakeholders and used as building blocks of the new public space. This approach will ensure cost effectiveness of the intervention; coupling existing technologies in the design of the pilot project will also allow to address specific issues of flooding on the social milieu, as identified with the community.

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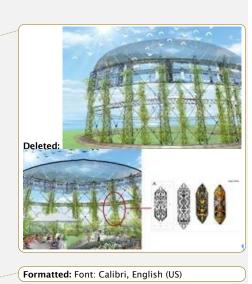


Figure 7. Artist's indicative impressions of one type of public space

3.1. Integrated Approach to Public Space Design and Climate Change Adaptation

The proposed typology aims to create a haven organised on multiple levels. The space that will be socially inclusive, culturally appropriate, vibrant to support the local economy, and have physical attributes to positively impact the local environment while increasing climate resilience. The project will address the need to prepare and adapt local communities to flood hazards, it will focus on five key elements to achieve a successful public space typology: water, energy, materials, social, and green. Water management and harvesting, food production, processing and storage, waste management and biodiversity enhancement will be by-product of the interventions related to each of these elements. The resulting public space network will be realised with dispersed low-tech design intervention built-in the day-to-day practices of local government and diversity by enhancing activities that target people from different genders, ages and ethnicities. High impact low cost interventions across one public space site will foster an integrated and Water Smart approach⁵⁹ to flood adaptation. The new public space typology will provide Samarinda with tangible adaptation strategies and tools including: (1) Resilience

- Public community space for markets, gatherings, play and education including shade structures.
- Solar power generation for mobile phone charging and lighting at night, ensuring passive surveillance of space at night and safe access for all members of the community.
- Perpetual access to clean safe water.
- Waste management

(2) Response

- Emergency distribution point for community access to crisis provisions, electricity for phone charging, sandbags etc.
- Access to reliable water and energy sources during a flood emergency.
- Evacuation and shelter management point for displaced people.

(3) Recovery

⁵⁹ Isakalides, P., Panousopoulou, A., Tsagkatakis, G., & Montestruque, L. (2018). Smart water<u>grids</u>, a cyber-physical systems approach. Boca Raton, FL: CRC Press/Taylor & Francis Group Formatted: Font: Calibri, English (US)

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Ongoing community resilience building following a flood event,

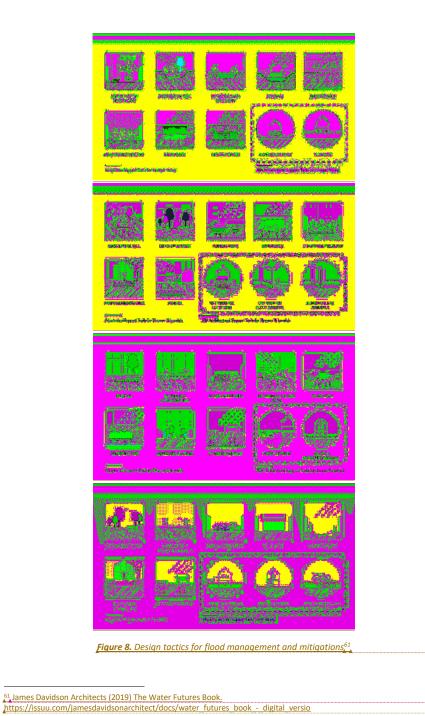
Briefly, the project will deliver:

- <u>A</u> palette of technologies and technological solution to inform the design of the pilot project, developed through a co-design approach with the interested communities.
- <u>One</u> pilot public <u>space</u> in Samarinda
- <u>Design guidelines consist of a palette of low-cost high-impact design tactics to be</u> implemented in time within the urban environment, so as to enhance flood water management and establish a cohesive network of interventions to manage floods through adaptation of existing public spaces and development of new ones.

The <u>selected</u> public <u>space</u>, identified in consultation with Samarinda City Government, will act asmultipurpose spaces within the specific framework of being in the first instance designed to support local communities to adapt to floods <u>not just in terms of physical response</u>, and mainly focusing on <u>the social response to flooding</u>. Detailed design of the proposed public space will be negotiated with local government and local communities<u>multi-level infrastructure</u>. The public space will be designed as a multi-level structure, taking as an example the Nishiki Tower and the MFO-Park. While structures designed to cope with tsunamis provide shelter for a limited time, due to the nature of the hazard, the structure we propose needs to accommodate community members over one-two days, so it is necessary that they provide a more sophisticated form of shelter. On the basis of preliminary research, their main feature should anyway be:

- The lower level of the public space has to act as a floodable landscape and work as a flood water retention basin during flood events. Flood water from surrounding areas has to flow to this space, where it can be safely managed.
- The community will therefore actively engage in the management of the public space and its preparation towards a flood event.
- Low-tech tactics in existing and proposed public spaces, including streetscapes, will facilitate the management and dispersion of flood waters.

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- Rainwater will be harvested through the shelter structureand stored in water tanks at the mezzanine level. Access to clean water will also be fundamental during the recovery phase of the flood as well as to support the day-to-day life of the community.
- While the ground level will be used for markets outside flood events, the mezzanine level will
 provide storage so that goods and equipment used for the markets can be safely preserved during
 floods.
- The public space will be fitted with ancillary items to support community members while they are sheltering, the recovery and also the day-to-day life of the local communities. Wind turbines and solar panels will facilitate the production of affordable electricity. Access to an off-grid power source will be strategic for the recovery phase after the flood. These items will be designed at the upper level of the haven.
- Landscaping of the public space will be realized as an edible landscape. The inclusion of greenery
 will have positive effects on the local microclimate and provide access to green areas for the local
 community, with benefits for their mental health.
- Benches and raised platforms beds will be used as walkways during flood events so to provide continous access to the haven.
- The public space will also be fitted with components for composting and wet waste management. Areas will be dedicated to safe recycling of materials and these materials will also be implemented to improve and expand this public space.
- The space will provide areas to support social entrepreneurship, with a specific focus on women and minorities.

Figure 7 provides a preliminary artist impression of the proposed public space; its functions will be multiple:

- Safe shelter point during flood
- Retention basin for flood water
- Emergency distribution point
- Community hub

The design of the public space will be articulated so to have a floodable lower section to collect water, host markets and store sand outside flood events; The mezzanine will provide storage for marketeers and will allocate services, such as rainwater storage and toilets. The upper sections, will provide shelter to residents and protection from rain and flood water; collection points for items to prepare for floods, for example sandbags or tarps, and to recover after the flood. A multi-functional building will also serve as evacuation center. Recovery will be supported providing access to fresh water and off-grid electricity, as well as to food produced on site. The structure of the haven, will be used to host food production (urban agricolture on the rooftop as well as on the facades.

One of the issues that was identified in the gender assessment is that female vendors often bring their young children with them, having to carry out their role as sellers and as caretakers. In order to provide suitable alternatives that can help alleviate the, several functions are proposed to be integrated in the design of the public space: a playground and a daycare center. The playground will be located on the floodable area and will be therefore be functional during times when there are no floods. The daycare will be located in the multi-functional center which will also act as evacuation center. Areas of the intrastructure will be designed so to accommodate the needs of children during, and outside flood events.

The response to flooding events will support local communities to adapt to climate change integrating into the space a series of existing technologies and solutions, so to maximize the effects of the intervention and address multiple dimensions of the social impact of floods.

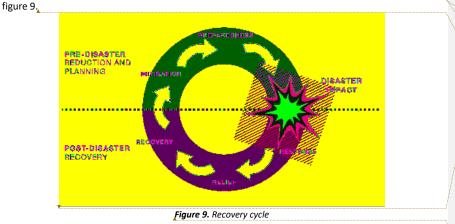
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	Deleted: <#>Rainwater will be harvested through shelter structures included in the space and stored in water tanks on site. Access to clean water will also be fundamental during the recovery phase of the flood as well as to support the day-to-day life of the community. [[] The public space will be fitted with ancillary items to support the recovery and also the day-to-day life of the local communities. Wind turbines and solar panels will facilitate the production of affordable electricity. Access to an off-grid power source will be strategic for the recovery phase after the flood. [¶] Landscaping of the public space will be realisedrealized as an edible landscape. The inclusion of greenery will have positive effects on the local microclimate and provide access to green areas for thelocalthe local community, with benefits for their mental health. The edible landscape will be a feature engaging the local community daily, through production and harvest of produce. This feature will also assist recovery providing access to fresh food or to mean to produce fresh food in the recovery phase of the flood. [¶] The public space will also be fitted with componentcomponents for compositing and wet waste
	management. Areas will be dedicated to safe recycling 9201
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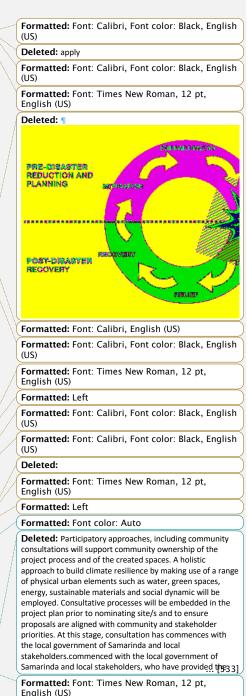


The approach to the design of the public space applies the concept of the recovery cycle illustrated in

The goal of this project is to design and implement facilities to support flood adaptation and act also as vibrant high-quality public spaces that invite a wide range of users to stay and enjoy, ensuring equal access to project benefits to various groups such as women, the youth and indigenous groups. Urban design plays an important role in finding synergies between climate resilience strengthening options and strategies that build social cohesion. For example, the creation of water buffers and water collection spaces can be designed as sports areas that benefit a wide range of groups of different ages and genders. Furthermore, interventions that increase greenery and vegetation in the city will not only help alleviate heat stress, offering refreshing spaces where people can find shelter during extreme hot days, but it can also enhance biodiversity in the city. Creating a diverse type of spaces that allow for water infiltration, vegetated areas that combine humid and dry spaces, shady and sunny areas, creating a rich environment for a more diverse flora and fauna will benefit urban communities, increasing their health and well-being while building their adaptive capacity.

Local citizens will be engaged in the design and construction of the proposed public spaces as a way to educate them in low-tech tactics to manage floods. It is hoped that <u>by</u> learning simple tactics to design open spaces so to be flood resistant and flood smart, citizens will be able to progressively improve the local urban landscape. Being engaged in the construction of the public spaces will enable participants to transfer into their broader community their learnings and to contribute to make their community more flood prepared through disperse, day-to-day interventions.

Participatory approaches, including community consultations will support community ownership of the project process and of the created spaces. A holistic approach to build climate resilience by making use of a range of physical urban elements such as water, green spaces, energy, sustainable materials and social dynamic will be employed. Consultative processes will be embedded in the project plan prior to nominating site/s and to ensure proposals are aligned with community and stakeholder priorities. At this stage, consultation has commenced with the local government of Samarinda and local stakeholders, who have provided the specific location for the intervention. Broader community consultation will be undertaken in the co-design phase of the program. Local community members will be engaged in providing ideas, sharing suggestions, and actively participate into the design of the space. This will be achieved through a series of workshop and collecting community data through situated installations, as well as public consultation.



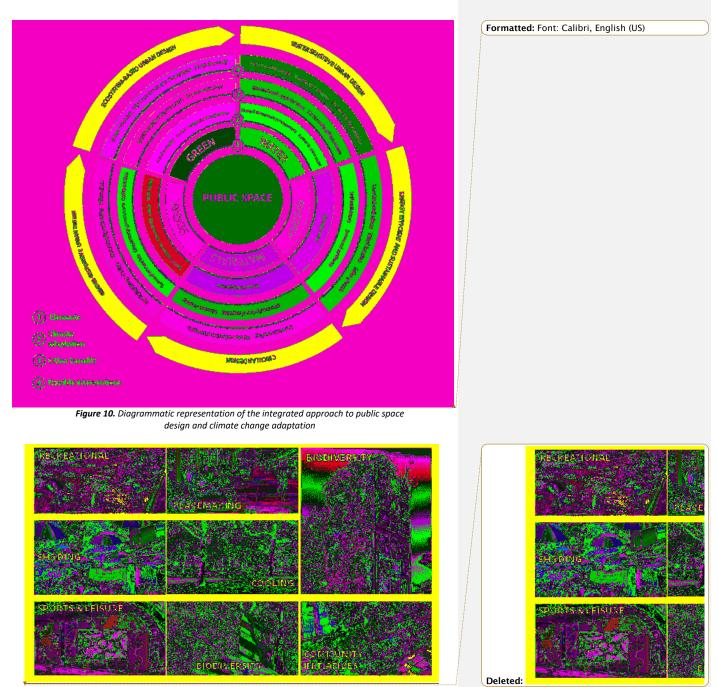
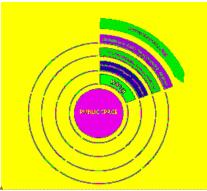
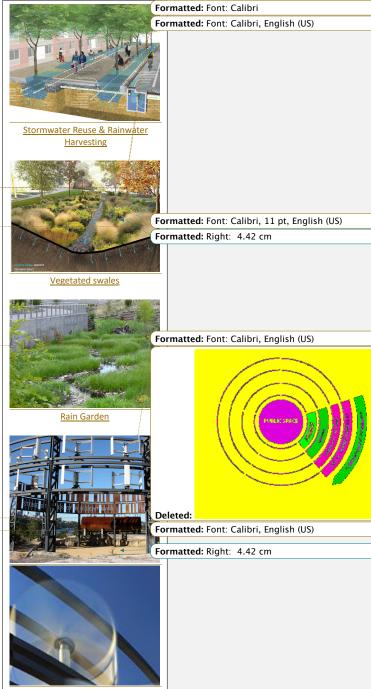


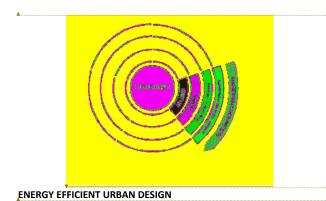
Figure 11. Urban elements and benefits





WATER SENSITIVE URBAN DESIGN

Water-sensitive urban design integrates the urban water cycle (i.e., stormwater, groundwater, water supply, waste water) into urban design. It sustainably manages water resources, enhances ecosystems and provides recreational opportunities for communities. Examples of water sensitive design options include: stormwater reuse solutions that can be employed for irrigation, vegetated swales (or drainage swale) that are designed to slow, filter and infiltrate water, rainwater harvesting to collect, store and use water for future needs, and rain gardens that provide localized stormwater and flood control.

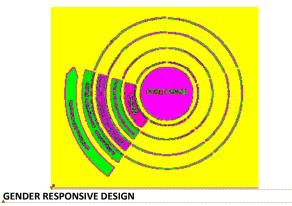


Access to reliable and renewable energy sources is essential to support community growth and contrast the effect of climate change. Low tech solutions that produce and distribute energy to communities such as solar panels, whirlpool turbines, and wind turbines are some of the technologies that can be explored to produce electricity locally, in conjunction to batteries and other system to store power.



CIRCULAR DESIGN

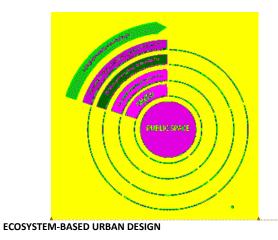
A sustainable approach towards materials for the construction of public space can bring many benefits in terms of waste management. This component will stretch the potential of this approach to identify techniques and tactics to create building materials from waste. Furthermore, choosing adequate materials will help build climate resilience to hazards such as floods. The use of pervious paving materials and green surfaces that allow for water infiltration will contribute to this.



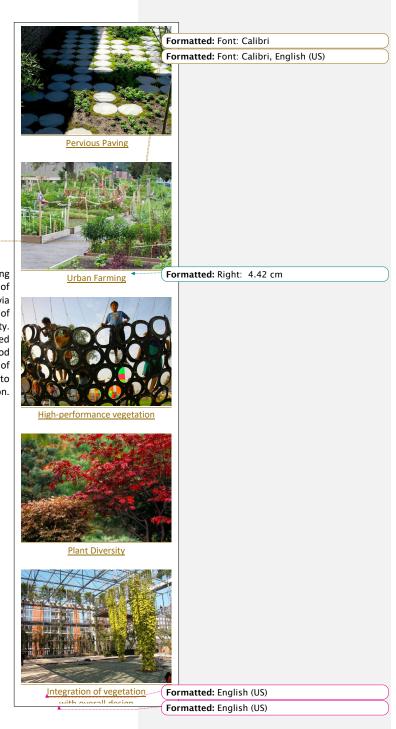
Sense of community will be enhanced through participatory processes. Communities will be requested to co-create the public spaces and engage in the design, development and construction phases. This will allow communities to have agency on their space and develop a sense of attachment to the new public space proposed. Gender-inclusive approaches will be integrated into the process. Appropriately designed public spaces will enhance social networks through the provision of spaces for encounter, will be designed to be safe and to promote health and well-being by providing a large variety of spaces activities such as sports, leisure, etc.







Greenery and vegetation help alleviate heat stress, offering refreshing spaces where people can find shelter during extreme hot days. The use of high-performance vegetation with significant water uptake via transpiration can improve stormwater management. The integration of greenery through diversification strategies will enhance biodiversity. Furthermore, food production, processing and storage can be integrated into the public space through urban farming. This will help achieving food security and self-sustainability for the communities involved. The aim of the program is also to provide community with common spaces where to process harvest together and store produce for community consumption.



3.2. Measuring Impact

In order to evaluate the actual impact of the intervention on the local environment and the local community, a framework based on three intertwined areas will the adopted, these being (1) Adaptation; (2) Innovation; and (3) Education.

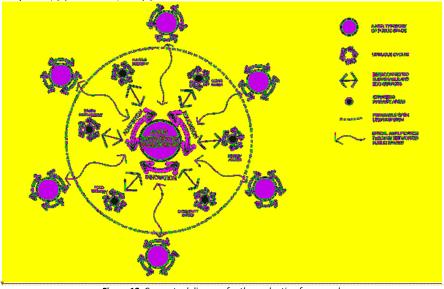
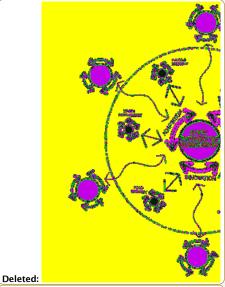


Figure 12. Conceptual diagram for the evaluation framework

In terms of adaptation, Flood and Drought are relevant issues for Samarinda; the project aims in the first instance to provide a safe shelter during flood events; it also aims to manage flood water as well as harvest and store rainwater. The integrated system of public places intends to act as a water management system during floods. The proposed public space will be floodable landscapes and include retention basins, so to contain water during floods and reduce the impact on surrounding communities. The proposed public spaces will include storage for sand, to be used to fill sandbags; citizens will be able to freely access this resource in preparation to flood events. Capacity and usage of the space will be one indicator of its performance; the number of people using the space as a refuge during hazardous events will be measured. The 5C-4R measurement framework (or similar freely available tool) will be used to measure flood resilience⁶². During flood events, the performance of the proposed public space will be monitored to assess the effectiveness in retaining stormwater and reducing overland flow., Access to Clean Water will be evaluated through the average quantity of water harvested and used for civic uses is used as an impact of the intervention in this field.

Whilst flood adaptation is the main line of action of this project, the proposed public spaces will be designed so to address also a number of secondary outcomes. The strategic role that ecosystems play is recognised in the literature 3. While forestation is adopted in rural setting as a strategy for carbon sequestration, within urban environments public spaces can play a fundamental role to reduce CO₂

Attps://floodresilience.net/frmc Morecroft, M. D., Duffield, S., Harley, M., Pearce-Higgins, J. W., Stevens, N., Watts, O., & Whitaker, J. (2019). Measuring the success of climate change adaptation and mitigation in terrestrial ecosystems. Science, 366(6471), eaaw9256. doi: 10.1126/science.aaw9256



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emissions and provide opportunities to sink carbon. Thinking of public spaces as part of an integrated ecological system can provide concrete and measurable indicators for climate adaptation. The biomass of the vegetation integrated in the proposed new typology of public space can provide a quantitative measure of carbon reduction. A first indicator of the impact of the project therefore is the <u>variation in the biomass</u> of vegetation in the areas of intervention. Corollary from this indicator is the measurement of <u>vegetation canopy</u>; the project aims to increase the average shaded area in the location. A longitudinal record of <u>temperature in selected points</u> will also be used to measure the impact on the urban heat island.

Wind turbines and solar panels are included in the concept design for the new typology of public space; the *average power produced* by the intervention will address *Access to Reliable Energy Sources* as well as contribute to reduce CO₂ emissions providing a reliable alternative to fossil fuel combustion.

Community resilience will be fostered by engaging community groups and community members in every stage of the project. Impact on *Community Vulnerability and <u>Safety will</u> be assessed, measuring daily use of the public space and their engagement in the activities afforded by the structure. Data will be collected through <i>survey tools* and *"counters"* to collect quantitative data on the number of people using the spaces. A longitudinal research study measuring attitudes and beliefs about climate change in the local community will also be implemented through a survey of the general population. Statistical data will also be used to evaluate a longitudinal impact on the citizens' <u>livability</u> (health improvements, energy consumption, infant mortality rates, water-borne disease, and hospital admissions).

Food production is a key component of the new typology of public space. Food will be produced in situ, and facilities such as communal kitchens will also guarantee that the public space can also be used to process food. Markets are also planned as one of the social activity for the pace. The quantity of food produced in situ will be monitored as well as <u>citizens' use of the communal facility</u> for social uses.

The proposed public space will act as a community hub where suitable waste is collected and recycled. <u>The quantity of waste recycled</u> in situ and the potential economic profit from this activity will also be monitored. As is common in several Indonesian Kampong, recycling can form the basis of a flourishing commercial activity where new artefacts are produced recycling and reusing waste.

In terms of **Innovation**, impact in this field is assessed measuring the ability of a system to produce a steady stream of opportunities. The replicability of the solutions adopted in the new typology of public space will be assessed through <u>focus groups</u> with residents and stakeholders. The project will also be proposed for independent scrutiny via a<u>cademic publications and conference presentations</u>. Community members participating in these construction and development of the new typology will be engaged in devising innovative solutions to achieve climate adaptation through low-tech approaches. Solutions developed during the process will provide participants with know-how that can be applied to start-ups or other medium scale enterprise. The new public space will be monitored and measured (number of start-ups, co-working opportunities, commercial activities). The engagement of some disadvantaged stakeholders such as women or those with a disability will also be an important indicator of the innovation component of the project. The Suanluang 1 community in Bangkok is an example of food markets <u>organized</u> and driven by women; the new public space will afford women agency to grow and cook food as well as to start other small commercial activities, taking advantage of the structure of the space.

In terms of **Education**, the planning, design and construction of the new typology is envisaged as an opportunity to train locals in a number of skills. The focus of the project will be on recycling and reusing

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materials with a low-tech approach to mimic the performance of the public space at a domestic scale. Participants in the project will learn about water harvesting, water sensitive planting, energy generation, and building techniques that can be transferred to domestic environments. The number of <u>participants to the process will be monitored</u> to assess how learnings from this experience have impacted daily lives and employability. <u>Entry and exit surveys</u> will also ensure measurement of the impact of the learning experience on participants. The new typology of public space is also designed to be a learning space; schools will be <u>monitored and surveyed</u> to assess how they engage with the space in terms of their formal and informal learning.

These are preliminary indicators to monitor the project and assess its impact; more specific indicators will <u>be</u> negotiated also with the local community so that they can be the main actors to manage, monitor and assess how the new typology responds to their needs, and the needs of climate adaptation. The program is intended to operate according to a dual benefit model, using materials and construction methods typical of public space. E.g. soft and hard landscaping and rudimentary shelter structures for ordinary use. Through considered design, these will function effectively during periods of flood, serving to both shield water flow from areas of the site while retaining water in other parts to protect surrounding areas.

In its current development state, the project directly addresses the following Sustainable development goals:

SDG3 Good Health and Wellbeing

3d: Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks

SDG5 Gender Equality

5.1. End all forms of discrimination against all women and girls everywhere.

SDG 6 Clean Water and Sanitation

6.1By 2030, achieve universal and equitable access to safe and affordable drinking water for all 6b: Support and strengthen the participation of local communities in improving water and sanitation management

SDG 7 Affordable and Clean Energy

7.1 By 2030, ensure universal access to affordable, reliable and modern energy services 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix

SDG 9 Build Resilient Infrastructure

9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all

SDG 11 Sustainable Cities and Communities

11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations

11.7 By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities

11.b By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015–2030, holistic disaster risk management at all levels

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SDG 13 Climate Action

13.1 Strengthen resilience and adaptive capacity to climate- related hazards and natural disasters in all countries

13.2 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

Tech	nical Summary: Project Objectives
a)	The objective of this project is to prepare Indonesian communities to cope with the effect of climate change as well as mitigate the causes of the current environmental crisis.
þ)	The project is informed by a Positive Development Paradigm of Global Climate Change and Sustainable Development which is including the growing understanding of innovation processes, developed to address technological change, but applicable to social innovation.
<u>c</u>)	The creation of public spaces will also foster community connection, enhance, and integrate existing public spaces. The vision is to create a network of public spaces that will support a new ecosystem that will provide benefits to the entire city.
<u>(</u> d)	The project's impact will be measured according to the following outcomes: Adaptation Innovation Education

4. PROJECT/PROGRAMMES COMPONENTS AND FINANCING

In Indonesia, informal public space is unconsciously found in many places. From urban to rural areas, people have their own terminology to describe communal space. The Indonesian Government itself doesn't use phrase "public space", but promotes open green space with some thematic models. In Jakarta, at the moment use the name of RPTRA (Ruang Publik Terpadu, Ramah Anak) or Integrated Child Friendly Public Space and will be change soon to Taman Maju Bersama and became to political more then became city policy to provide place for public. Another case is in Bandung City, a place that was meant to provide for people and that became a very artificial environment, with many marketing twists providing thematic flavors, for example Taman Jomblo (Park for Single) and several others similar instances. All of this triggers questions and challenges us to re-define public space. Can a new typology of public space enhance our places and communities? Space for public often doesn't have any real meaning, which results in empty public spaces, unsafe, underused, and overall not felt as the hearth of the community. Public spaces are often the product of bureaucracy and the compromise between private interests and public needs. <u>Commercialization</u> of public spaces and competition for urban spaces are some of the complex fights and tensions that we experience in the contemporary city. Adding to these a risk adverse culture, the overall result is that "public space" became an expensive endeavor, it is not uncommon for a project to budget more than USD 20.000just to make feasibility studies, often neglects the participation of people and community engagement. This project aims also to use this new typology of public space as an example of a process to integrate participatory process for the future development in a flexible, innovative, and democratic way

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Lesson Learned from Surabaya:

CakMarkeso Cultural Centre in <u>Kampong Ketandan</u>, Surabaya, was inaugurated by the Mayor of Surabaya, Wednesday, 07/27/2016. This cultural center, which represents the public space for connecting people, was inaugurated with several delegates, The Third Session Preparatory Committee (Prepcom) 3 for Habitat III. The <u>Cak Markeso</u> Cultural Centre in the form of Joglo (traditional Javanese building) is located in the middle of the settlement and becomes a venue for discussion about all things related to the environment in which it lives. Its construction is the result of cooperation between the United Cities Local Government of Asia Pacific (UCLG ASPAC), UN-Habitat, and the Surabaya City Government.

This development is an important thing for the Surabaya City Government in realizing Surabaya's development into a sustainable developing city. For Surabaya, public space is not just a green open space, but also in the form of buildings that people can gather and strengthen social interaction. With the existence of this public space, the community's enthusiasm is maintained and still supports each other to improve the *kampong*.

Kampong Ketandan is one of the old *kampongs* at Surabaya. Its location is surrounded by modern buildings. This *Kampong*, in the heart of Surabaya City, lives for 24 hours because its citizens actively interact. Unlike the shopping area that was closed at 10:00 p.m., the people guarded the city for 24 hours when the shops were closed. Therefore, it is important to maintain the *Kampong* Ketandan.

The components of this project are:

Component 1: this component focuses on the development of a new typology of public space. Current best practice case studies, literature, policies, technologies and tactics will be reviewed evaluating their feasibility for the Indonesian context, their accessibility, cost-effectiveness, and their overall potential impact in mitigating climate change hazards and causes. This component will be <u>formalized</u> with a series of guidelines, tactics, solutions and spatial relationships that will be then applied in the different communities involved in the <u>program</u>. The new typology of public space will be defined through review and evaluation of:

a. water sensitive urban design tactics
b. water treatment processes using natural landscape
c. rainwater harvesting, treatment and storage solutions
d. urban agriculture and edible landscape options
e. community based processes for food production, processing and storage
f. waste reduction strategies
g. recycling programs
h. production of building materials through waste recycling
i. off-grid solutions for energy production and storage
j. synergies and processes to support community resilience and economic viability
k. local social and cultural practices
l. community dynamics, needs and aspirations

Component 2: This component <u>is organised in two different phases</u>. <u>Phase 1 will engage communities</u> in Samarinda city to apply the findings of component 1 to the actual co-design of public spaces and the creation of an integrated system of public spaces. This will be achieved with an inclusive participatory design approach structured through a series of workshops and interactive debates. A first workshop will be delivered with selected stakeholders to profile the local communities, <u>their</u>

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character, and the best way to engage them. Strategic locations for the interventions will be discussed and negotiated with the local government; with the aim to identify key sites that could establish an integrated network, enhance existing public and green spaces, outreach and benefit different communities. Once the sites of the specific interventions are defined, the specific local communities will be consulted and invited to provide their input through formal and informal methods, such as surveys or idea walls. A second workshop will then be delivered to analyze data from the community engagement phase and gather a better understanding of the priorities, needs, and desires of the local communities; during this second workshops, participants will be also involved in designing a public space to respond to global challenges as well as local issues. <u>Phase 2 will progress the capacity building</u> <u>exercise and, after the construction of the project, deal with the maintenance of the new public sapce</u> <u>as well as its community activation, throguth the establishment of ongoing community groups,</u> <u>community initiatives, and projects to maintaign the new areas.</u>

Component 2, will build on the findings from Component 1 and results from <u>co-design phase</u>. Component 2 is the co-development and construction of actual public spaces in <u>the selected</u> communities. The construction site will engage professional builders who will share their knowledge with community members, so to use the construction also as an opportunity for skills development for community members. Inter-generational learning will also be promoted, with the participation of women, youth and the elderly.

Component **3**; This component will develop training for community groups and government officials to divulgate finding of the project as well as <u>publicize</u> the methodology of intervention, its benefits, and capabilities. The training will rely on soft resources, such as videos or rich-media contents, hard resources, for example booklets, and face-to-face training.

Component 4: This component will regard the monitoring of the long-term sustainability of the project and the assessment of its impact on the local communities. Data will be collected before the commencement of the project, after completion of the intervention and two years after the completion of the intervention. Data collection will be collected addressing a number of quantitative and qualitative indicators⁶⁴ to monitor the actual impact of the new integrated system of public spaces on the relevant communities.

The Budget of the Project as seen below (see table 7):

Table 9. The Budget of the Project

Project/Programme Components		Expected Concrete Outputs		Expected Outcomes	Amount (US\$)	
1	Research and Development on city- wide adaptation to climate change through public spaces	1.1.1. 1.1.2. 1.1.3.	Research conducted on climate-resilient public spaces, including best practices and lessons learned within the Asia-Pacific Region, and South- East cities in particular Assessment tool and methodology for the evaluation of climate-resilient public spaces developed Public space guidelines, incorporating new typologies	1.1. Increased urban resilience through the development of a new public space typology and guidelines that can inform planning processes at the city- level	109,207	

Pancholi, Surabhi, Yigitcanlar, Tan, & Guaralda, Mirko (2018) Attributes of successful place-making in knowledge and ≤ innovation spaces: Evidence from Brisbane's Diamantina knowledge precinct. Journal of Urban Design.

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Milestone	Expected Dates	Expected Duratio
Component 1:		
 Development of theoretical model for the new typology of public space 	202 <u>1</u> ,	4 months
Component 2:		
Context analysis	202 <u>1</u>	1 month
Community engagement		2 months
 Intervention designSpace activation and 		3 months
management		
Component 3:		
 Intervention construction 	202 <u>1</u>	9 months
Training and findings divulgation	2022	<u>3 months</u>
Component <u>4</u> ;	2021	1 month
 Monitoring of the impact of the interventions 	2022	1 month
and their sustainability	2023	1 month

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PART II: PROJECT/PROGRAMME JUSTIFICATION

A. Project components

Describe the project / programme components, particularly focusing on the concrete adaptation activities of the project, and how these activities contribute to climate resilience. For the case of a programme, show how the combination of individual projects will contribute to the overall increase in resilience.

This program adopts an action research participatory methodology; it alternates phases of actions to phases of evaluation and reflection. It is articulated in an initial research phase and in then coordinated projects to design, develop, build, and manage public spaces in a pilot city. The theoretical background of the project is grounded in the *Positive Development* paradigm⁶⁵ and on a systemic approach⁶⁶. The hypothesis of the *Positive Development* paradigm is that today we have enough knowledge and knowhow to build buildings and structures that not only <u>minimize</u> the impact on the environment, but also could produce positive gain for local ecosystems. In the *Positive Development* paradigm, buildings incorporate different technical devices to treat water, clean air, produce food and broadly support an ecosystem. The systemic approach aims to consider the city as an integrated ecosystem, where interventions in a specific site can generate positive benefits for the entire system, through the creation of ecological and social corridors, networks of infrastructures and services.

This approach has already been implemented in the design of some public spaces and ecological corridors, where passive approaches, such as use of vegetation, have been successfully applied to manage rainwater, retain pollutants and contribute to stream and creek overall health⁶⁷, Building on recent experiences of urban farming⁶⁸, this program aims to develop a new typology of public space that will provide a positive impact on community resilience, environment sustainability and economic development.

Public spaces have been <u>recognized</u> in the New Urban Agenda as strategic contexts where to address several of the recurrent issues of contemporary cities, including social and environmental issues. Public space requires communities to work together and an integrated approach to negotiate different aspects of public life. Expanding this concept, it is <u>recognized</u> that public spaces today can be rethought in a way to accommodate more soft landscapes, not for beautification effects, but for environmental protection⁶⁹. The positive impact of urban greenery on environment is extensively discussed in literature⁷⁰. In addition to environmental gains, greenery has been <u>recognized</u> having a positive effect also on mental health and community activities,⁷¹ The incorporation of traditional wisdom in the design of public spaces, plants selections, <u>color</u> schemes, and material applications, can

Maser, C. (2012). Decision-making for a sustainable environment: a systemic approach. Boca Raton: Taylor & Francis Lawson, G. M., & Wang, P. (2009). Water sensitive urban design : landscape planning and design to improve water quality in Shijiazhaung and Yueyang.

- Sekiyama, M., Terada, T., & Yokohari, M. (2017). Post-Disaster Food and Nutrition from Urban Agriculture: A Self-Sufficiency Analysis of Nerima Ward, Tokyo. International Journal of Environmental Research and Public Health, 14(7), 748. doi:10.3390/ijerph14070748
- ⁶⁹ Kowalik, M., & Guaralda, M. (2011). Mapping resilience : A framework for changing cities: AST Management Pty Ltd. ⁷⁰ Climate change adaptation in practice : from strategy development to implementation. (2013). Chichester, West Sussex, UK: John Wiley & Sons Inc.
- 71 Holt-Damant, K., Guaralda, M., Taylor Gomez, M., & Nicollet, C. (2013). Urban jungle : making cities healthy places for Australians with neurodiversity: AST Management Pty Ltd.

Deleted: <#>The environment is a unity of space with all objects, power, circumstances, and living things, including human beings and their behaviour, which affect the survival of the lives and welfare of humans and other living things;

Environmental management is an integrated effort to preserve the environmental function which includes policies for structuring, utilizing, developing, maintaining, restoring, controlling, and controlling the environmental 1

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⁶⁵ Birkeland, J. (2008). Positive development : from vicious circles to virtuous cycles through built environment design. London: Earthscan.

also contribute to strengthen a community sense of identity providing a contemporary interpretation to ancient knowledge.

The application of western paradigms to the design of contemporary cities has often produced an urban form <u>characterized</u> by segregation of function and subdivision of activities. In many contemporary cities we can record a strong contraposition between parks for recreation and hard landscapes for civic activities. Zooning and modernist design have broken traditional pattern of public spaces and imposed a car-based approach that has profoundly impacted lifestyle, resilience, and sustainability⁷²

Components of the Program

More than dispersing in the urban fabric different functions and activities, this program will develop a new typology of public space to support communities 'positive development. In addition to social and cultural values, the new typology will provide an active strategy to cope with climate change. The proposed public spaces will also act as activity hubs and provide communities with a safe place during extreme weather events. Public spaces, being at the <u>center</u> of community life, should be designed as safe shelter in the case of extreme weather events, provide conditions to face natural hazards in a self-sufficient way, protecting the community and its main assets. The establishment of an integrated system of public spaces, will allow the creation of ecological corridors to improve biodiversity and environmental resilience. The systems will be enhanced by the new public spaces and completed by their strategic role within the broader urban ecology.

The implementation of the new typology of public space is also promoted as an opportunity to educate communities in more strategic approaches to urban development. Learning building techniques, environmentally sustainable and advanced tactics, and a sensitivity to ecological systems, can inform communities to transform their environments and promote better ways to self-construct dwellings and community facilities. Public space is promoted as a space for the community where to exchange, learn and interact for the common good.

Component 1

The first component of the <u>program</u> will be the theoretical development of this new typology, the parameters, characteristics and specification of this new type of space will be based on an analysis and review of case studies, researches, technologies, tactics, and solutions that have been or are suggested as potentially strategic to support *Positive Development*. The innovative component of this <u>program</u> sits in the potential of the new typology to be applied to different contexts and be implemented in other cities at least in the Asia-Pacific region.

Public spaces are at the <u>center</u> of communities. Indonesia today is experiencing a change of meaning in traditional public spaces and a general undersupply of community spaces. Top-down developments often focus on specific infrastructures, like sport facilities and playgrounds, and generally lack informal public spaces that can be appropriated by communities. Bottom-up projects often limit to retrofit existing spaces and beautify available spaces, which often do not have the characteristics to host proper community activity and needs.

The first phase of the <u>program</u> will<u>analyze</u> and evaluate the broader Indonesian context and formulate a new type in the form of a series of design guidelines, implementation processes, and spatial layouts to provide communities with a social communal space, as well as an integrated system to equip citizens to cope with climate change and environmental hazards.

⁷² Guaralda, M. (2014). Form-based planning and liveable urban environments. Urban Morphology, 18(2), 157-162.

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From the environmental point of view, the new typology will have to deal with:

- Water management and harvesting. Access to clean drinkable water, stormwater management, sewerage <u>organization</u>, water storage and <u>utilization</u> are all emergent issues in a society experiencing more and more extreme weather events. Current solutions, tactics and technologies will be gathered and evaluated so to develop a model that would afford communities with an infrastructure to provide them with clean water; <u>minimize</u> pollutants released in the environment, harvest water for domestic and agricultural uses. In selecting technologies and tactics, preference will be given to passive technologies, to solutions relaying on integrated environments, were plants can be used in the management of natural resources. Several case studies developed in Europe and North America have successfully demonstrated how plants and planting can be used to manage urban water system, urban pollutants, and mitigate effect of climate change. This program will evaluate the principles of these case studies and develop a series of guidelines suitable for the Indonesian context, in terms of plants selections as well as cultural relevance of the solutions proposed.
- This component of the <u>program</u> will provide a positive impact on the community resilienceproviding access to drinkable water. It will also provide a positive impact on the broader environment reducing the release of pollutants in streams and creeks. The use of vegetation will mitigate urban heat island and contribute to the local microclimate73.
- Energy production. It is <u>recognized</u> how access to reliable and renewable energy sources is essential to support community growth and contrast the effect of climate change. This <u>program</u> will evaluate low tech solutions to produce and distribute energy to communities, potentially providing also communities with a source of income selling energy surplus to other areas. Solar panels, whirlpool turbines, and wind turbines are some of the technologies that will be explored to produce electricity locally, in conjunction to batteries and other system to store power.
 - This component of the program will reduce communities' reliance on fossil fuels and reduce carbon emission in the environment. From the social point of view, it will provide communities with a reliable and cheap source of energy to support their viability and growth74.
- Food production, processing and storage. The strategic use of vegetation to manage watersystems will also be extended to cover food production. Several communities in Indonesia are
 already pursuing with success urban agriculture on a small scale. This component of the program
 aims to achieve food security and self-sustainability for the communities involved. Different
 technologies and solutions will be reviewed, such us community gardens, hydroponics, green walls
 and green roofs. The aim of the program is also to provide community with common spaces where
 to process harvest together and store produce for community consumption.
 - This component of the <u>program</u> will address not only food security, will also address climate change in terms of mitigation of urban heat island. The extensive use of vegetation in the proposed new typology will allow to store carbon and reduce heat reflected by hard surfaces. Food production and processing will also allow to enhance spirit of community, preserve communities' traditional practice and provide a stream for local commercial growth 75.

73 Lee, S., & amp; Yigitcanlar, T. (2010). Sustainable urban stormwater management : water sensitive urban design perceptions, drivers and barriers 74 Sustainable future for human security : environment and resources. (2018). Gateway East, Singapore: Springer,

75 Suparwoko, B., & mp. Taufani, B. (2017). Urban Farming Construction Model on the Vertical Building Envelope to Support the Green Buildings Development in Sleman, Indonesia. Procedia Engineering, 171, 258-264 doi:10.1016/j.proeng.2017.01.333

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• Waste management. Indonesia is successfully adopting the model Reduce-Reuse-Recycle. This component of the program will stretch the potential of this approach to identify techniques and tactics to create building materials from waste. Some projects have already successfully recycled paper and plastic for the production of bricks, then used in the construction of small buildings. This tactic will be evaluated in the context of the Indonesian society and the process commenced with the construction of the new propose public space, which is envisioned as built with mainly recycled materials⁷⁶.

This component of the <u>program</u> addressed climate change in terms of reduction of pollutants⁴ in current ecosystems, <u>encouraging</u> reuse and recycle will also limit emissions and provide communities with a potential source of income linked to the production of building materials

- Economic viability. The first phase of the program will identify synergies and tactics to supportcommunity growth and development. A first set of activities will be linked to the construction of the new public space. Community members will be involved in the actual construction so to learn new techniques and new skills that they can then use in their future life. A pillar of the project is the empowerment of the community, so skills development through the entire process will be fundaments. Participants will learn how to process waste to produce building materials, how to build structures, how to deal with urban food production and processing. A variety of skills will be offered to the community. This would allow participants options about their future life and the community different sources of income.
 - This component of the program will address climate change through education and training. Participants will learn a set of skills aimed to achieve a sustainable positive development. Empowering communities with different kinds of knowledge will also allow them a better agency on their lifestyle and future development. Today many communities in Indonesia are focusing on tourism as the predominant source of income, this is anyway not realistic or viable, and so it is strategic that one of the outcomes of the project is providing communities with alternative options and economic models 78,
- Community resilience. Sense of community will be enhanced through the participatory process of the program. Communities will be requested to provide their input in the design, development and construction of the new public spaces. In the development of Phase 01 guidelines and models, community members will also be consulted so to include provision for cultural symbols and meanings, social practices and <u>communities'</u> aspirations.
 - This component of the program stretches from phase 01 to phase 02. In phase 01, communitieswill be consulted to <u>finalize</u> the model of new public space, incorporating their aspirations, social practices and cultural values. In the second phase of the project, co-creation will allow communities to have agency on their space and develop a sense of attachment to the new public space proposed79

76 Municipal solid waste management in Asia and the Pacific Islands : challenges and strategic solutions. (2013). New York: Springer.

78 McFarlane, C., & amp; Desai, R. (2015). Sites of entitlement: claim, negotiation and struggle in Mumbai. Environment & amp;

Urbanization, 27(2), 441-454. doi:10.1177/0956247815583635

79 Wikantiyoso, R., and Suhartono, T. (2018). The role of CSR in the revitalization of urban open space for better sustainable urban development. International Review for Spatial Planning and Sustainable Development, 6(4), 5-20 doi:10.14246/irspsd.6.4_5

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The first component will include activities UNTAG and QUT joint activities, as well as some specific components developed by QUT:

- High level kick-off round table for Urban Climate Adaptation | this seminar aims to launch the program and discuss adaptation to climate change with local stakeholders, experts, and politicians. This activity will be organized by UNTAG with QUT staff attending the event.
- Two Workshops with experts to inform the design phase of the project and gather data on best practice. This activity will be organized by UNTAG with QUT staff attending the event.
- Tool and Method Development | this activity includes desktop research, literature review, contextual review, review of relevant technologies, R&D, prototyping, and preliminary design of components to include in the design of the pilot public space. This activity will be developed by QUT with input from UNTAG.
- Methodology development | this activity covers the development of a methodology integrating mobile technologies and situated installation for community engagement (InstaBooth) to involve local communities in the design and construction of the new public space. The InstaBooth⁸⁰ is an approach to community engagement developed at QUT since 2012 and applied in a number of different contexts in Australia, USA, China, Malaysia, and South America. This approach allows community members to engage in an asynchronous debate about emerging topics, provide feedback, share ideas, and develop original contents to inform planning, design and policy developments. This methodology has been successfully applied to a number of projects commissioned by the Queensland Government, community groups, as well as leading industry partners. The instaBooth is a mobile installation that allows participants to engage with a number of different components, to suit interests and attitudes of different community members. The InstaBooth is a key component in data collection and idea generation for the co-creation phase of the project. Prior to each project, the InstaBooth is activity will be developed by QUT with input from UNTAG.

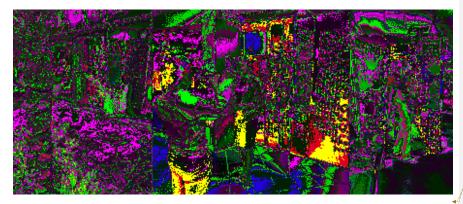


Figure 13. InstaBooth deployment for Community Engagement projects at Pomona, Brisbane Central Station, RBWH

Component 2

As mentioned under sub-section *Focus of the proposal*, the second component of the <u>program is</u> <u>organised in two stages and</u> is based in Samarinda City. Locations of the specific locations for the

80 Guaralda, M., Mayere, S., Caldwell, G., Donovan, J., & Rittenbruch, M. (2019) The InstaBooth: an interactive methodology for community involvement and place-making. *Journal of Place Management and Development*, 12(2), pp. 209-226.

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intervention, one (1) new public space, is being discussed and negotiated with local government, stakeholders and communities.

Selected communities within Samarinda City will be identified to pilot the new typology of publice space. The pilot will be structured as a co-creation process:

- The community will be engaged in mapping their neighborhood. Opportunities, challenges, conflicts, and possibilities will be recorded, through workshops and deployment of the InstaBooth;
- Public workshops will run to discuss ideas, locations and aspirations of the community. The guidelines developed in phase 01 will be discussed and scenarios for their implementation negotiated with the different stakeholders;
- The project for the physical new public space will be developed with the community support by a local professional who will ensure compliance to local legislation as well as provide creative input in the process;
- The community will be then engaged in the actual development of the project. In <u>this case</u>, the land and location will be provided by the City Government of <u>Samarinda based on the</u> recommendation and assessment so that the project will <u>in line with the city development</u> plan and <u>strategy81</u>. The new public space is meant to be a generator for the new physicality of the space as well as its identity, so as part of the development of the public space, plans for the future development of the <u>neighborhood</u> will be negotiated;
- The physical construction of the space will be done engaging professionals as well as members of the community. This approach is to ensure that community members can learn a set of skills during the process and aspire to future professional opportunities:
- Once the project has been completed, the community will take charge of running and managing the public space. Apart <u>from</u> events and <u>festivals</u>, stress will be put on everyday activities to make the space dynamic, <u>livable</u> and sustainable.

The second phase of the second component will take place during and after construction of the infrastructure. It aims to engage community members in the construction, activation and management of the new public space through a series of workshops and pop-up events.

The continuous engagement of community in each phase of the process will ensure a sense of ownership for the new public space. The importance of engaging the community in developing everyday activity in this new space will be strategic for the success of the program. The new typology of public space will have to be a space where to gather, work, play, and learn in a community setting. Participation methods are chosen because, in these phases, the community can involve in the planning and development process that is essential to the project implementation. This activity will trigger strong relationships with space and place

This component will be coordinated by UNTAG; QUT will provide material, data and support to be used in the workshops. QUT personnel will also aid UNTAG staff in running the co-creation workshops.

The second component of the project is the actual construction of the infrstructure. The construction of the new public space will involve a survey of the current urban form and its potential reorganization. The local communities will be engaged in a discussion about their future social, environmental, physical, and economic outlook. The proposed process might involve land

81 The City Government of Samarinda will give full support and granted access to government data that relevant to this project and will actively involve in the project development and implementation. Note of Meeting with Mayor of Samarinda H.E. Mr. Syaharie Ja'ang attended by Head of Environment Agency, Head of Communication and Informatics Agency, Head of Planning and Development Agency at Jakarta, January 23, 2020.

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acquisition, relocation of some activities, new constructions and demolitions of existing buildings. Where necessary, the community will work together in building new dwellings, infrastructures and resources to benefit the entire community. Surpassing the fragmented and individualistic approach of traditional western zooning, the program suggests a community approach to the development of neighborhoods. With the aid of experts, communities will implement guidelines and tactics developed as a new typology of public space to gain control and agency on their own environment. Regaining the traditional approach to urban development as a coordination and collaboration between citizens and communities, this program will promote in the medium-long term changes to urban form to achieve a city that could better respond to the current challenges of climate change.

This component will be coordinated by UNTAG; <u>QUT personnel will also aid UNTAG staff in running</u> <u>this component</u>.

Component 3

The third component of the program will deal with divulgation of the experience and learnings. Training will be <u>organized</u> for designers, government officials and community leaders, so to create awareness about the new typology of public space proposed; its principles, its applicability to different contexts. In parallel, publications and event will be <u>organized</u> to <u>publicize</u> the <u>program</u>, its findings and educate the broader community.

Sharing and divulgating the findings of the program and its achievement will allow other communities to gain agency on their urban form, to gain an awareness of the potential of public space in terms of building positive, sustainable, resilient communities and structure urban form in a more sustainable and responsive way.

UNTAG will lead this component with QUT input in the development of training and resources for government officials. QUT will lead the development of academic papers to publicize the project and its outcomes.

Component 4

The fourth component of the program will deal with the assessment and monitoring of the interventions. In order to evaluate the impact and effectiveness of the new public spaces developed as well as of the system of public spaces that they will generate, qualitative and quantitative data will be collected before the construction of the new public spaces; at completion of the construction, two year after completion of the construction. The method to collect data and assess the impact of the interventions will be based on the following place quality framework 828384;

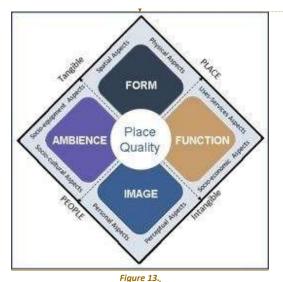
82 Yigitcanlar, Tan, Guaralda, Mirko, Taboada, Manuela B., & amp, Pancholi, Surabhi (2018) Place making for knowledge generation and innovation: Planning and branding Brisbane's knowledge community precincts. In Yigitcanlar, Tan, & amp, Bulu, Melih (Eds.) Urban Knowledge and Innovation Spaces Insights, Inspirations and Inclinations from Global, Practices. Routledge (Taylor & amp, Fancis), New York, pp. 115-147,

83 Esmaeilpoorarabi, Niusha, Yigitcanlar, Tan, Guaralda, Mirko, & amp; Kamruzzaman, Md. (2018) Does place quality matter for innovation districts? Determining the essential place characteristics from Brisbane's knowledge precincts. Land, Use Policy, 79, pp. 734-747,

84 Pancholi, Surabhi, Yigitcanlar, Tan, & more Guaralda, Mirko (2018) Attributes of successful place-making in knowledge and innovation spaces: Evidence from Brisbane's Diamantina knowledge precinct. Journal of Urban Design

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Place Quality Framework, based on Pancholi, Yigitcanlar, Guaralda (2018)

This framework considers tangible and intangible characteristics of place and it is articulated in a number of specific sub-indicators to specifically assess performance of public spaces in terms of their contribution to the overall urban form, economic sustainability, social dynamics, as well as experiential and cultural components. This framework will be used to monitor the impact of the intervention collecting statistical data, economic indicators, and assessing the performance of the public spaces in terms of community usage and perception, through surveys and site observations.

This component will be supervised by UNTAG, while QUT will lead publications to publicize the project and its findings.

In summary, this project aims to address specific climate change dynamics typical of Indonesia and relevant also for other geographical areas with similar challenges. The proposed new typology of public space, developed so to generate an integrated system of public spaces, will contribute to prepare Indonesian people to face the hazards of climate change through different tactics, strategies, and processes.

Climate Change Impact	Adaptation Action
Flood or drought	Water sensitive urban design
Access to clean water	Rainwater harvesting and treatment
Access to reliable energy sources	Renewable energy production and distribution
Community vulnerability and safety	Community based interventions
Food security	Urban Farming
Waste contamination	Waste treatment and recycling

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B. Economic, social and environmental benefits

Describe how the project / programme provides economic, social and environmental benefits, with particular reference to the most vulnerable communities, and vulnerable groups within communities, including gender considerations. Describe how the project / programme will avoid or mitigate negative impacts, in compliance with the Environmental and Social Policy of the Adaptation Fund.

The project will bring various economic, social, and environmental benefits to all stakeholders. The most dominant (economic, social and environmental) impacts of the gains are the citizens of Samarinda that are currently impacted by the impacts of climate change.

Based on the analysis of the 15 principles under the Adaptation Fund's Social and Environmental Policy, the project is highly feasible to be implemented economically, socially and environmentally. It will result in multiple socio-economic and environmental benefits without significant negative risks.

Output		Expected Benefits	
<u>Output</u>	Social	<u>Economic</u>	Environmental
Output 1.1.1. Research conducted on climate- resilient public spaces, including best practices and lessons learned within the Asia-Pacific Region, and South-East cities in particular	This project will endorse behavioral change for the community and strengthen social capital between vulnerable groups, e.g., youth, women, and children.	=	-
Output 1.1.2. Assessment tool and methodology for the evaluation of climate-resilient public spaces developed	=	The assessment tools will endorse time and budget efficiency for the city to have comprehensive information regarding the process of development.	A city can assess in more efficiency in time so that any environmental problem can be reported fast.
Output 1.1.3. Public space guidelines, incorporating new typologies that can be used as a best practice for replication	=	The guideline will endorse time and budget efficiency for the city to have comprehensive information regarding the process of development.	The same issue related to the development of public space can be solved faster.
Output 2.1.1. Community profiling developed for targeted locations in the City of Samarinda			
Output 2.1.2. Targeted communities are engaged in design processes through a participatory approach (e.g. workshops, interactive debates, etc.), focused on climate-resilient public spaces	Public participation will ensure that the needs of communities are met. Special emphasis is put on ensuring fair and equal participation of vulnerable groups.		
Output 2.2.1. Climate-resilient public space is co-developed and built in the selected communities (in the city of Samarinda) based on previous findings	People more cohesive more than before.	People can get economic benefit through public space	The environmental problem that been state in the problem statement will gradually decrease.
Output 2.2.2. Community groups are established, based on existing governance structures (if present), to ensure adequate maintenance of the public spaces		The maintenance budget from the government will decrease by more than 50%.	

Output	Social	Expected Benefits Economic	Environmental	
Output 3.1.1.	Jocial	Leonomie	Environmentar	
Training for community groups to				
divulgate findings of the project				
and methodology of the				
intervention				
Output 3.1.2.				
Training for government officials				
in key sectors (e.g. planning				
departments) on project findings,				
methodologies and approaches applied for replication				
applied for replication				
Output 3.2.1.				
Lessons learned and best				
practices on climate-resilient				
public spaces and community adaptive capacity building are				
captured and disseminated for				
regional replication				
Output 4.1.1.				
Evaluation of place quality before				
the intervention, at completion				
of the intervention, and two years after the completion of the				
interventions				
C. Cost-effectiveness of the Describe or provide an ana		tiveness of the propos	ed project / programme.	
D. Consistency with national Describe how the project			ub national sustainable	
development strategies, ir				
plans, poverty reduction s				
of action, or other relevan				
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- Preservation of environmental functions is a series of efforts to maintain the continuity of the carrying capacity and capacity of the environment;
- 6. <u>The carrying capacity of the environment is the ability of the environment to support the lives of humans and other living beings;</u>
- Preservation of environmental carrying capacity is a series of efforts to protect the ability of the environment against the pressure of change and/or negative impacts caused by an activity, so that it is still able to support the lives of humans and other living beings;
- Environmental capacity is the ability of the environment to absorb substances, energy, and/or other components that enter or are included in it;
- Preservation of environmental capacity is a series of efforts to protect the ability of the environment to absorb substances, energy, and/or other components that are discharged into it;
- 10. <u>Resources are elements of the environment that consists of human resources, natural resources, both biological and non-biological, and artificial resources.</u>

National Action Plan For Climate Change Adaptation 2014 (Rencana Aksi Nasional Adaptasi Perubahan Ikilm 2014)

By considering the notion of adaptation to climate change and its objectives, adaptation can be said as an effort to increase the resilience of a system to the effects of climate change. Climate change adaptation in Indonesia is directed as:

- Adjustment efforts in the form of strategy, policy, management, technology and attitude (negative) impacts of climate change can be reduced to a minimum, and even if possible can utilize and maximize the positive impact.
- Efforts to reduce the impact (consequences) caused by climate change, both directly and indirectly directly, both continuous and discontinuous and permanent and impacts according to their level.

In short, the action plan is directed so that: (a) the impact of climate change can be reduced to a minimum possible, (b) can increase resilience and reduce the level of vulnerability of a natural system, life records, programs or activities on the effects of climate change.

To support the field of sustainable living system resilience and resistance to climate change, the main target of the infrastructure sub-sector is to increase the coverage of services and strengthen a reliable and quality infrastructure system in the face of the effects of climate change. The main objectives can be achieved through several targets, as follows:

- 1. <u>Development of the concept of infrastructure resilience that is adaptive to climate change</u>
- 2. Development of infrastructure that is adaptive to climate change
- Provision and adjustment of infrastructure that has a direct impact on the health of the community that has a high level of accessibility, especially for groups of people who are vulnerable and resilient to climate change
- 4. <u>Management of integrated infrastructure layout with spatial planning in sustainable</u> <u>development</u>

Ministry of Public Work Regulation No. 11/PRT/M/2012 About National Action Plan for Climate Change Mitigation and Adaptation Year 2012-2020

In an effort to adapt to climate change, Indonesia faces enormous challenges, especially the characteristics of the territory of Indonesia as an archipelago, geographical location in tropical climates, and between the Asian Continent and the Continent of Australia and between the

Pacific Ocean and Indian Ocean, which is why Indonesia very vulnerable to climate change. This		
is indicated by several facts, including droughts and floods, which harm food security, human		
health, infrastructure, settlements, and housing, especially in coastal areas and urban areas.		
Ministry of Environmental and Forestry Regulation No. P.33/Menlhk/Setjen/Kum.1/3/2016		
About Development Guideline for National Adaptation Plan		
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plans, and/or programs (Article 4 [letter e], Article 9 [paragraph 3], Article 10, Article 11]		Formatted: Font: Calibri, English (US)
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The GOI will implement enhanced actions to study and map regional vulnerabilities as the basis		Formatted: Font: Calibri, English (US)
of adaptation information system, and to strengthen institutional capacity and promulgation of		
climate change sensitive policies and regulations by 2020. The medium-term goal of Indonesia's climate change adaptation strategy is to reduce risks on all development sectors (agriculture,		
water, energy security, forestry, maritime and fisheries, health, public service, infrastructure,		
and urban system) by 2030 through local capacity strengthening, improved knowledge		
management, convergent policy on climate change adaptation and disaster risks reduction, and		
application of adaptive technology.		
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planning, that stated at Regional Regulation on Samarinda Regional Spatial Planning, No. 2 of 2014-2043.

It is stated that Samarinda City Government has an obligation to provide public space, through related agencies, in realizing government policies to plan, utilize and control, related to regional development planning regarding public space by taking into account the indicators of the stages of supply and utilization public space includes: planning, land acquisition, engineering design, implementation of public space development, utilization and maintenance to be useful for current and future generations and the realization of an urban public space area

E. Compliance with relevant standards and policies

Describe how the project / programme meets relevant national technical standards, where applicable, such as standards for environmental assessment, building codes, etc., and complies with the Environmental and Social Policy of the Adaptation Fund.

The project will follow the technical standards publishes by the Ministry of Public Works and Housing the Republic of Indonesia, e.g., Law No. 28 the Year of 2002 about Building, Law No. 24 the Year of 2007 about Disaster Management, Law No. 26 the Year of 2007 about Spatial Planning, Ministry of Home Affairs Regulation No. 1 the Year of 2007 about Green Open Space Planning In Urban Area, Ministry of Public Works Regulation No. 5 the Year of 2008 about Provision and Utilization Guideline for Green Open Space in Urban Area, etc.

F. Duplication of project

Describe if there is duplication of project / programme with other funding sources, if any.

Currently, there is no duplication of this project with other funding sources. Although projects coordinated by the World Bank such as the "National Urban Development Project" (NUDP) (Project ID: P163896) and the "Improvement of Solid Waste Management to Support Regional and Metropolitan Cities" (Project ID: P157245) also focus on the urban environment, the areas targeted are different. The project "Improvement of Solid Waste Management to Support Regional and Metropolitan Cities" aims to improve solid waste management services in selected cities across Indonesia, supporting solid waste management policy and legislation, financial sustainability, and stakeholder collaboration across all aspects of the sector (e.g., collection, treatment, disposal, recycling and waste generation)⁸⁵. Although *Embracing the Sun* integrates waste into the proposal, it is with a very different approach. The project aims to identify techniques and tactics to reuse materials that can be incorporated into the design and construction of spaces, with a focus on communities. In this way, the objective in relation to waste will be to raise awareness on the importance of reducing-reusing-recycling model and to find creative solutions that could not only bring environmental benefits but also provide a source of income. It aims to promote and enhance bottom-up and community-based strategies, rather than top-down approaches.

The "National Urban Development Project" aims to improve subnational capacity to prioritize capital investment and help cities achieve more efficient infrastructure development through adequate land use planning. Although there are principles that are presented in both projects, such as the use of spatial tools with landscape carrying capacity to mitigate losses from natural disasters, the project coordinated by the World Bank has a much broader scope. The NUDP interventions aim to lay a foundation for more efficient and effective financing of infrastructure, conducting analyses of land

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<u>http://documents.worldbank.org/curated/en/640491496386470384/pdf/PIDISDS-CON-Print-P157245-06-02-2017-1496386463379.pdf</u>

suitability for land use planning and to guide infrastructure investment (referring to a wide range of urban elements, such as water supply, sanitation, schools, etc.), but not specifically public space.	
In this way, although the three projects are envisioned within the urban environment, the current project targets public space and focuses on its strategic role as enabler of climate adaptation. In this	
way, the resulting concrete outputs from this project (i.e., assessment tool and methodology for the evaluation of climate-resilient public spaces, public space guidelines, lessons learned, etc.) aim to increase urban resilience, informing planning processes at the city-level in the area of public space.	
<u>Therefore, there is no duplication with the aforementioned projects.</u> <u>Strategic-wise, the project will follow the PPPP (Private - Public - People Partnership) approach.</u>	
Lessons learned from Surabaya linked to their success in producing public space based on PPPP (i.e. Joglo Markeso at Ketandan Kampong, Surabaya) will be taken into consideration. The project draws on lessons learned from several projects funded through UN-Habitat's Global Public Space Programme	(Deletedu -
(e.g., Kampong Ketandan, Tanah Kali Kedinding and Keputih). Aspects such as public participation and the importance of integrating social aspects into the design rather than following only a technical approach mean that these projects can be relevant case studies among best practices that will be researched under component 1 of the project. However, there is no duplication given that this project	Deleted: n
focuses strongly on the strengthening of climate-resilience of public spaces while incorporating social dimensions to address the underlying causes of vulnerability.	Deleted:
G. Learning and knowledge management If applicable, describe the learning and knowledge management component to capture and disseminate lessons learned.	Dereteu.
Ensuring the project sustainability clearly relies on knowledge management, public engagement strategy as well as the collaboration among stakeholders of each program component in the project. These fundamental aspects become important to make sure of the achievements of the project objectives as well as future replication. This effort can be seen in each component, especially in	
<u>component 3. Several key activities that support the sustainability of the project are:</u> <u> 1. Establishing Segiri Market Public Space Community</u>	Formatted: Font: Bold
Under project component 2, citizens and municipal government officials will be engaged in every phase of the project development. Engagement experience throughout all the processes will directly and/or indirectly gave them opportunities to be aware then responsive to the climate change	Formatted: Space After: 6 pt
adaptation effort. Furthermore, they will be encouraged to establish a community that is intended to be a forum for coordination and knowledge management, discussing relevant issues, and together took a lesson learned along the process of resolving the problems. This community will also enable	
them to join forces in maintaining and develop segiri market public space for further needs.	Formatted: Font: Bold
Stakeholders capacity building related to the climate change adaptation effort will be crucial. Under component 3, citizens will be introduced to sustainable activities particularly through public space	Formatted: Space After: 6 pt
utilization that will help them reduce their vulnerability, while the government official will be introduced to several alternative mechanisms that support them in maintaining public space and formulate other strategies for further development. Eventually, both citizens or government officials	
will gain capacity improvement to strengthening their climate change adaptation effort, even after embracing the sun project completed.	

3. Publication and Dissemination

Aligned with capacity building effort, component 3 will also focus on how to disseminate lessons learned in adapting climate change through embracing the sun project. It will provide project documentation, infographic/video graphic, and other printed publications such as leaflets, posters, and banners as well as book as knowledge product to compile best practices that will capitalize as not only digital material for campaign on social media or website but also advocacy materials for policy brief formulation. Learning will also be obtained and disseminated through a series of studies to support the adaptation of climate change based on public space journal. The results of the study are then disseminated in the form of a research paper or a scientific journal.

In addition, learning and knowledge management that is integrated into the project under component 3 will create awareness about the new typology of public space proposed; its principles, its applicability to different contexts. Sharing and divulgating the findings of the program and its achievement will also allow other communities to gain agency on their urban form, to gain an awareness of the potential of public space in terms of building positive, sustainable, resilient communities and structure urban form in a more sustainable and responsive way.

H. Consultative process

Describe the consultative process, including the list of stakeholders consulted, undertaken during project preparation, with particular reference to vulnerable groups, including gender considerations, in compliance with the Environmental and Social Policy of the Adaptation Fund.

In the early stage of the project, the consultative process faces real challenges, especially with the COVID-19 pandemic. However, to maximize the result, the process starts from April 4, 2020, with minimal participants. The first online meeting was held on April 29, 2020, and attended by Head of Environment Agency and a representative from Communication and Informatics Agency, the City of Samarinda. The second online meeting was held on April 30, 2020, and attended by Assistant II Mayor of Samarinda, Head of Environment Agency, Head of International Cooperation and Head of Public Relations, the City Government of Samarinda. In the second meeting, the discussion focused on the alternative of location that suitable for adaptation criteria.

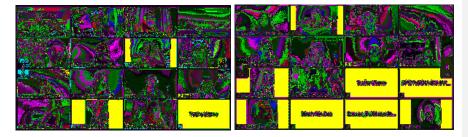


Figure 14. Strengthening Communication with the City Government of Samarinda

On July 20, 2020, the team has organized the first formal meeting with the City Government of Samarinda by using online meeting tools. This meeting was attended by the Mayor of Samarinda City Mr. Syaharie Ja'ang, Samarinda City Secretary Mr. Sugeng Chairuddin, Assistant II Mayor of Samarinda Mrs. Nina Endang Rahayu, Head of Environment Agency Mrs. Nurrahmani, a representative from Kemitraan (Partnership) Mrs. Dewi Rizky and several others participant from City Government of Samarinda, Kemitraan (Partnership) and UNTAG-QUT team. This first meeting aims to get direction and input from the city government about the location that will be implementing place for the

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Sharing and divulgating the findings of the programme and its achievement will allow other communities to gain agency on their urban form, to gain an awareness of the potential of public space in terms of building positive, sustainable, resilient communities and structure urban form in a more sustainable and responsive way.¶

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proposal. During this first meeting, Mayor of Samarinda explains how important is this project to be in-line with the City of Samarinda program plan, primarily related to flooding management plans. In the discussion, the City of Samarinda permitted the team to have a pre-survey to understand the location and city context better.

Field Survey to The City of Samarinda



Figure 14. Several Location proposed by Samarinda Municipal Government

The first field survey was dedicated to visiting several locations that have proposed by the Mayor of Samarinda to be the location of embracing the sun project. Each location has its advantages and challenges. However, the location near Segiri Market is the preferable to choose because located in the higher ground and close to the area that prone to flood events. Moreover, the chosen area is also located closely with dense settlements that have complex challenges related to climate change. Issues such as poor waste management, low access to clean water, and minimum access to reliable energy as well as gender issues become the main consideration why this location will be a perfect hub to boost climate change adaptation efforts in Samarinda.



Figure 15. Settlement and Poor Waste Management System Near Designated Area

Besides visiting the proposed area, further coordination with the Mayor of Samarinda is also held in this field survey. This meeting was obtained to reconnect the team objective and what the city can benefit from embracing the sun project implementation. Through this discussion, the team explained that the project will prioritize flood mitigation and risk reduction in the designated area, but along the process, the project will also engage with the local community to address climate change issues.

The Mayor of Samarinda agreed with the initial proposal and inform that they have other initiatives that might be integrated into the designated area. Government Municipal collaborate with the ministry of public works to build a waste treatment plant near Segiri Market and a retaining wall along Karang Mumus River as a mitigation strategy in reducing flood risk. Therefore, the mayor of Samarinda believes that embracing the sun project will bring added value for the city development plan that already made as well as become valuable assets in adapting climate change effort in Samarinda.



Figure 16. Coordination with Mayor of Samarinda City

<u>Realizing challenges that will come along the implementation of the project, its important to</u> <u>engaged with the local youth community in Samarinda. The local youth community will be involved</u> <u>in encouraging the wider public to take part in the development process as well as promoting a fresh</u> <u>perspective in utilizing public space as a tool to deal with climate change effect.</u>

During the discussion, embracing the sun project need to address social as well as economic issues in designated area. The local youth community thinks it can begin with reimagining the root function of the market itself as an economic hub for the city. Consequently, the developed public space has to address the socio-economic context and combining with a new approach that promotes sustainability. they believe this idea will bridge the climate change adaptation process smoothly and encourage local citizens to involve more.

Aligned with those ideas, the collaboration established along the development process can also utilize to manifest a new sustainable maintenance scheme that will support the government municipal in maintaining the public space. The initial idea is to establish relevant economic activities in the designated area as an attraction that produces a new source of income or other benefits.

The attraction will draw citizens to utilize the public space and get an exposure to the climate change adaptation component builds there. The collective contribution from economic activities near the public space will be managed by the established community independently and capitalized for maintaining the public space itself. This approach believes will be a solution for boosting the community's sense of belonging to the public space, as well as to reduce the government cost in maintaining their assets.



Figure 17. Concultation process with local youth community

During the second visit to Samarinda, the team focused on the gender assessment and other issues relevant to it for further consideration. From the list of names form Local Technical Implementation Unit - Segiri Market and market observation, there tend to be more women sellers than men living and working in the market particularly in the "wet" section of the market that mostly sells fresh fruit, dry food, and fresh meat and vegetables.

This situation also leads the embracing the sun team to observe the basic infrastructure that supports women and children activities in the Segiri Market. The results showed that there is an absence of proper basic infrastructures such as toilet or day-care that accommodates women and children needs. This finding strengthens the need to establish comprehensive public space that not only focuses on the flood management system but also reducing community vulnerability as part of the climate change adaptation efforts.

Along the observation process, the government municipal official also explains that women and children near Segiri Market mostly affected by flood events. They cannot access water as easily as they can do before the flood happens. The water will be contaminated by the waste leftover near the Segiri Market and provoke greater risk not only for women's hygiene but also for the children's health.

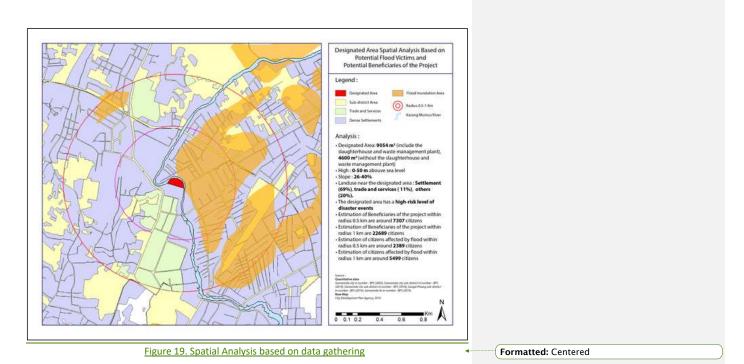


Figure 18. Segiri Market Observation

<u>No.</u>	<u>Stakeholders</u>	Date	Issue
<u>1</u>	Environment Agency City of Samarinda	<u>April 29, 2020</u>	Introduction to the project/program
<u>2</u>	<u>Assistant II Mayor of</u> <u>Samarinda</u>	<u>April 30, 2020</u>	Location of Implementation, Project Supporting Data
<u>3</u>	Mayor of Samarinda	<u>July 20, 2020</u>	Beneficiaries, Strategy, Location point
<u>4</u>	Environment Agency City of Samarinda	July 27, 2020	Priority locatin and issuess in each location
<u>5</u>	Sidodadi sub-district officials	July 28, 2020	Disaster data event, beneficiaries, local community and stakeholders, and commitment in supporting this projectt
<u>6</u>	City Planning Agency	July 28, 2020	Spatial Plan of Samarinda City, Samarinda Mid-term Development Plan, other collaboration related to climate change adaptation in Samarinda
Z	Environment Agency City of Samarinda	<u>July 28, 2020</u>	<u>Climate Change Adaptation</u> Local Action Plan, Environmental issues
<u>8</u>	Local Technical Implementation Unit - Segiri Market	<u>July 28, 2020</u>	Male and Female merchant's data, gender issues, existing waste management system, further development plan
<u>9</u>	Mayor of Samarinda	July 29, 2020	Next step and further consideration
<u>10</u>	Local Youth Community	July 29, 2020	Issues and key stakeholders in a preferable location, approaches in mass gathering, and existing local collaboration activities
<u>11</u>	<u>Local merchant in Segiri</u> <u>Market</u>	<u>August 3, 2020</u>	Basic infrastructure, daily activities, gender issues, economic issues, and other issues related to Pasar Segiri neighborhood development
<u>12</u>	Local Youth Community	<u>August 4, 2020</u>	Segiri Market field observation, alternative idea to support development plan

The summarize of the consultation process that has been done can be seen in the following table:

Based on the data analysis and consultative process with the government municipal, the location near the Segiri Market will be the most suitable option to implement embracing the sun project. The total number of potential beneficiaries and the complexity of the issues will make the project became a valuable effort, especially in the climate change adaptation process in Samarinda.



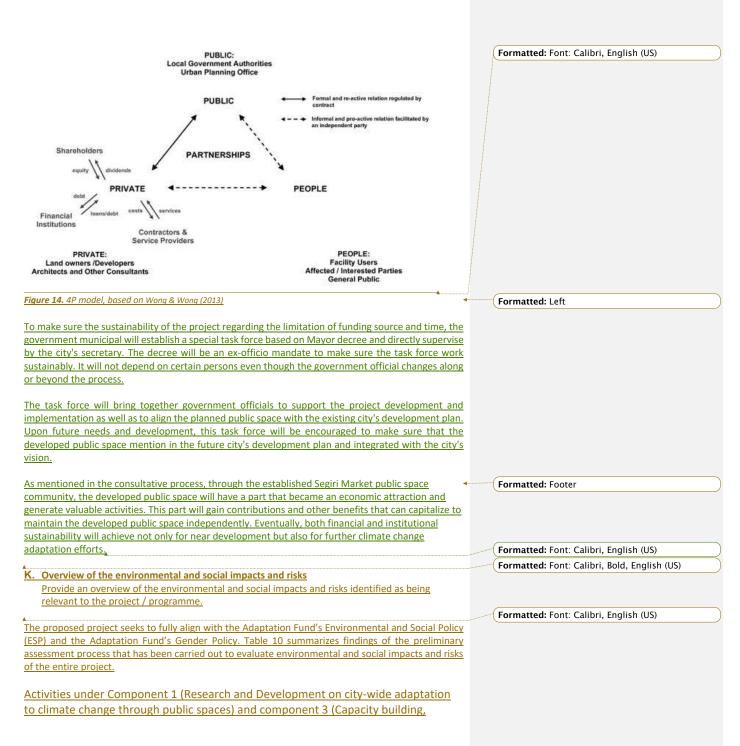
I. Justification for funding requested

Provide justification for funding requested, focusing on the full cost of adaptation reasoning.

The proposed project components, outcomes and outputs fully align with national and local government priorities and gaps identified, and with the results framework of the AF. The table below provides a justification for funding requested, showing the impact of AF funding compared to no funding (baseline) related to expected project outcomes.

<u>No.</u>	Program Component	Baseline	Additionally (with AF)
1	Research and Development on city-wide adaptation to climate change through public spaces	There is a lack of research conducted on climate-resilient public spaces, best practices in the region and assessment tools for the evaluation of public spaces.	Research is conducted on climate- resilient public spaces and best practices in the Asia-Pacific Region, with an emphasis on South-East countries. Based on the research, an assessment tool is developed in order to evaluate their level of climate-resilience. The aforementioned inform the development of public space guidelines that incorporate new typologies and that can be implemented and replicated.

<u>No.</u>	Program Component	Baseline	Additionally (with AF)		
	Awareness raising and local resilience strengthening through the design and implementation of a new	The target locations for the development of the project are not climate-resilient, and frequently affected by floods. Public participation is not currently	Communities have been fully involved in design processes of the pilot public space. The pilot project is co-developed and built in the selected locations, and community	(Formatted: Left
	public space typology	mainstreamed into design processes.	groups are established for the use and maintenance of the public spaces.		
	Capacity building. knowledge management and communication	1. Public awareness of climate change threats is very low. 2. Local authorities have limited understanding of local climate	1. Public awareness on climate change threats and the importance of co-creation through participatory design of public spaces is increased.		
		change vulnerabilities and disaster risks and have no plans to address these.	2. Local authorities have used tools and are capable of implementing the approaches and methodologies.		
	Monitoring	There are no assessment tools for the evaluation of climate-resilient public spaces and no implemented projects that have been evaluated against an assessment framework.	One site is assessed before the intervention, at completion and after the completion of the intervention based on the assessment tool developed under component 1, serving as example on how to evaluate and monitor climate- resilient public spaces.		
Sust	ainability of the project			(Formatted: Highlight
<u>Desc</u> acco terms	ribe how the sustainability unt when designing the pr of the long-term feasibili	ty of the intervention; the public	spaces will be designed applying		Formatted: Highlight Formatted: Font: Calibri, English (US)
Desc acco terms ution:	ribe how the sustainability unt when designing the pr of the long-term feasibilit s, technologies, and mater	oject / programme.	spaces will be designed applying intenance. The planning, design,	(
Desc acco terms utions nstruc vate-f	ribe how the sustainability unt when designing the pr of the long-term feasibilit s, technologies, and mater tion, and maintenance pr People-Partnership. The er	oject / programme. ty of the intervention; the public rials that will require minimal ma rocesses of the project will be br ngagement of public and private s	spaces will be designed applying intenance. The planning, design, ased on the 4P model ⁸⁶ ; Public- stakeholders, as well as the local		Formatted: Font: Calibri, English (US)
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knowledge management and communication resilience strengthening) have been categorized as low risk (Category C). The activities under Component 2 (output 2.2.1) are still to be defined based on the guidelines and methodology developed under component 1.

As such, some activities have the <u>potential to adversely</u> impact the environment and affected people, without an adequate management plan and mitigation measures. For this reason, activities under component 2 (output 2.2.1) are categorized as medium risk (Category B) or low risk (Category C). Given the small scale and localized interventions that are envisaged under this component, category A is not considered.

In this way, the project is regarded as a medium risk (Category B).

Table 10. Overview of the environmental, social impacts and risks identified as being relevant to the

	project/prog	ramme.		strengthening) have been categorized as low i	
Checklist of environmental and	Further assessment and management required	Potential impacts and risks and	Mitigation	C). The activities under Component 2(output 2 to be defined based on the guidelines and me developed under component 1.	
social principles	for compliance	opportunities			
	The activities that have		Compliance of project	Deleted: potentialtoadversely	
	been defined at project		activities will be	Formatted: Font: Calibri, English (US)	
	preparation phase are	Insufficient alignment with laws, regulations and standards,	Insufficient alianment	monitored throughout	Formatted: Font: Calibri, English (US)
	aligned with existing laws and normative acts.		implementation phase	Formatted: Font: Calibri	
	However, those activities		,	Local technicians will be	Formatted Table
Compliance with the Law	that are still to be defined	particularly for interventions under	consulted on this.	Formatted: Font: Calibri	
	under component 2 will need to be screened and	component 2		Formatted: Font: Calibri	
	assessed at a later phase	(construction of		Formatted: Font: Calibri, English (US)	
	to ensure full compliance	public space).		Formatted: Font: Calibri, English (US)	
	with laws, regulations and standards.				
Access and Equity	The community profiling (Component 2, Output 2.1.1.) will provide an in- depth analysis of existing groups and dynamics within the community. This will help assess whether additional measures are required to ensure equal participation and access.	Unequal distribution of project benefits among target communities. Unequal engagement and participation in workshops, consultations, etc. throughout the project process. This could potentially exclude less empowered community members from decision-making processes.	Vulnerable groups in the target communities will be identified. Then, activities will be designed to ensure full participation of vulnerable groups, by conducting specific focus group discussions (if needed).	Formatted: Font: Calibri	
Manninglized and	Ensuring participation of people with disabilities or	Potential risks include that traditionally	Consultations and other participatory approaches		
Marginalized and Vulnerable Groups	engaging peak bodies that represent them will be particularly important	vulnerable groups such as women, youth, children, the	will be tailored to the context by for example, conducting women-only	Formatted: Font: Calibri	

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Deleted: ENVIRONMENTAL AND SOCIAL RISKS AND IMPACTS¶

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Deleted: The proposed project seeks to fully align with the Adaptation Fund's Environmental and Social Policy (ESP) and the Adaptation Fund's Gender Policy. Table 10 summarizes findings of the preliminary assessment process that has been carried out to evaluate environmental and social impacts and risks of the entire project.

Deleted: Activities under Component 1 (Research and Development on city-wide adaptation to climate change through public spaces) and component 3 (Capacity building, knowledge management and communication) resilience strengthening) have been categorized as low risk (Category C). The activities under Component 2(output 2.2.1) are still to be defined based on the guidelines and methodology developed under component 1

	during the design phase to ensure that the public spaces meet accessibly requirements.	elderly, people with disabilities are not engaged appropriately throughout design and execution phases.	/ youth-specific focus group discussions or workshops.	
Human Rights	Consultations will capture issues related to human rights in the target areas.	Principle that applies to community-related processes and interventions in public space.	Consultations and participatory processes will be designed to follow a human-based approach.	Formatted: Font: Calibri
		Despite progress made, inequalities between men and women are still present across the country ⁸⁸ , Among the	Women-only focus group discussions or workshops will be implemented if needed in order to ensure equal participation throughout	Formatted: Font: Calibri
		issues that hinder gender equality are: deficient participation	the design phases. Gender empowerment	Formatted: Font: Calibri
Gender Equity and		of women in paid employment, gender inequality in access to	and involvement of women in decision- making will be promoted	Formatted: Font: Calibri
Women's Empowerment		education, weak institutional framework for gender mainstreaming, low participation of women in decision making and violence against women. Risks identified are related to a potential lack of participation of women.	by ensuring that an equal number of female and male representatives are present in the established community groups.	
	Safety and security measures related to the	Potential lack of adherence to the ILO labour Standards and national labour laws.	Adherence to the ILO labour Standards and national labour laws is to be monitored throughout the process as a standard procedure. This includes the eight	Formatted: Font: Calibri, English (US)
Core Labour Rights	construction phase under 2 must be in place and are to be monitored throughout the construction phase.	Communities may not apply safety and security measures during construction works related to the implementation of activities under output 2.	International Labour Organization Convention (ILO) core labour standards related to fundamental principles and rights of workers, as well as ILO Convention No. 169, which concerns rights of indigenous and tribal peoples. Contracts	Formatted: Font: Calibri

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			periodically to ensure compliance with these laws.	
Indigenous Peoples	Consultations will capture issues and needs related to the different ethnic groups that are present in the target communities.	Indonesia is a country of great diversity and complexity in its culture, ethnicity, language, people, and geography ⁸⁹ There are 500 ethnic groups speaking more than 600 languages across the country ⁸⁰ The Javanese form the majority ethnic group at 45% of the population. The Sundanese, Madurese, Coastal Malays, and other ethnic groups make up the rest. Muslims form the majority	Appropriate tools translated to the relevant languages within each context will be used to ensure that communities are aware of their rights. The project will be consistent with UNDRIP, and particularly with regard to Free, Prior, Informed Consent (FPIC) during project design and implementation.	Formatted: Font: Calibri Formatted: Font: Calibri Formatted: Font: Calibri Formatted: Font: Calibri Formatted: Font: Calibri Formatted: Font: Calibri, English (US)
		religious group at 89% of the total population ⁹¹ . The complexity of the context will require that this principle is monitored throughout the planning and implementation phases.		Formatted: Font: Calibri Formatted: Font: Calibri
Įnvoluntary Resettlement	Interventions under component 2 will be designed to avoid resettlement.	The design of public spaces could potentially identify the need to demolish existing buildings. This could potentially lead to involuntary resettlement. Given that the interventions are	If involuntary resettlement is identified as a potential risk, related activities will not be approved.	Formatted: Font: Calibri Formatted: Font: Calibri, English (US)
Protection of Natural Habitats		planned to be executed within an urban context, the risk of negative environmental impacts in natural habitats is low.		Formatted: Font: Calibri, English (US) Formatted: Font: Calibri Formatted: English (US) Formatted: Font: Calibri, English (US) Formatted: Font: Calibri

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		project aims to			
		incorporate eco-			
		system-based			(Deleted: system based
		adaptation measures		and the second second	Formatted: Font: Calibri, English (US)
		that will provide			
		environmental and			
		socio-economic co-			
		benefits.	No. status tala settita al		
		Indonesia is considered to be one	No risks identified		
		of the 17			
		megadiverse			
		countries in the			
		world. However,			
	Further assessment will be	existing pressures			Formatted: Font: Calibri
	linked to the	such as habitat			
	enhancement of identified	degradation,			
	opportunities.	overexploitation,			
	These are linked to both	climate change,			
Conservation of Biological	planning and	economic crises in the			Formattade Forte Calibri Fradiah (US)
Diversity	implementation processes	country, among			Formatted: Font: Calibri, English (US)
Diversity	(e.g. Promoting the	others, threaten			
	enhancement of	biodiversity			
	conservation of biological	conservation ⁹²			Formatted: Font: Calibri
	diversity as part of the	Opportunities			Formatted: Font: Calibri
	Guidelines developed	identified for the			
	under component 1)	project include the			
		recognition of public			
		spaces as enhancers			
		of biodiversity in urban contexts,			
		potentially acting as			
		ecological corridors.			
		Project activities aim	The assessment tool and		
		to increase climate	methodology for the		
		change adaptation	evaluation of climate-		
		and to promote	resilient public space		
		practices that	typologies (activity 1.1.4)		
Climate Change		contribute to climate	will ensure that		Formatted: Font: Calibri, English (US)
		change mitigation	interventions under		
		(e.g. renewable	component 2 have no		
		energy sources). No	negative impacts with		
		risks are identified for	regards to this principle.		
		this principle.			
			Waste management is		
	Design and construction	Construction could	integrated into the		
	phases will prioritize and	lead to inadequate	approach in order to		
Pollution Prevention and	promote the use of local	resource	raise awareness on the		Formatted: Font: Calibri, English (US)
Resource Efficiency	materials.	management and	issue and promote good		
		production of	practices. This will be		
		excessive waste	applied throughout the		
	Further assessment is	Public spaces have	whole process No risks identified		
Public Health	related to the	Public spaces have the potential of	ivo risks identijied		Formatted: Font: Calibri, English (US)
	related to the	the potential of			<u> </u>

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	enhancement of	improving citizens'		
	opportunities.	health and well-		
		being. This can be		
		achieved by creating		
		green spaces, spaces		
		that can be used for		
		recreational and		
		sports activities, etc.		
		Opportunities are		
		identified that can be enhanced through the		
		project.		
		projeci.	The community profiling	
			(Component 2, Output	
		Project activities	2.1.1.) will collect local	
		might affect	knowledge on physical	
Dhusiaal and Cultural		unidentified cultural sites which exist in	and cultural heritage in	
Physical and Cultural Heritage		the targeted areas	the targeted areas. This	Formatted: Font: Calibri, English (US)
nemuye		and are impacted by	will allow analyzing the	
		project activities	perceptions on physical	
		project detivities	and cultural assets that	
			may be highly valuable	
		No. vieles and identified	to the community.	
		No risks are identified for activities under	No risks identified	
		components 1 and 3.		
		Component 2 will		
		require further		
		assessment based on		
	Screening of activity 2.2.1.	the activities that are		
Lands and Soil	will determine whether	defined after the		
Conservation	additional management is	designing phase.		Formatted: Font: Calibri, English (US)
conscivution	required once the design	Given that the project		
	phase is completed.	is within an urban		
		context and will		
		promote urban		
		agriculture at a small		
		scale it is highly unlikely that any risks		
		are triggered.		
		ure triggereu.	1	Formatted: Font: Calibri, English (US)

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PART III: IMPLEMENTATION ARRANGEMENTS

Arrangements for project implementation Describe the arrangements for project / programme implementation.

The Location:

Α.

THE LOCATION OF PUBLIC SPACE



Size of the land:	<u>1,300 m2 (Estimated)</u>		Deleted: 54.090
Status:	Belong to Samarinda Local Government		
Other information:			
(1) Located on the bank	is of the Karang Mumus River		
(2) The government's p	lan to make it a Green Open Space on the banks		
(3) Located near the Tra	aditional Market (Pasar Segiri)		
The location for implementa	tion of the project has discussed with the City Government of Samaring	la	
with specific criteria that will	in line with the city's strategic plan. This location located in the city center	er	
of Samarinda, near the Segir	i Market, and the total area is 54.090-meter square.		
The City Government of Sar	narinda's strategic plan explains that the location has a significant soci	al	
problem. Based on that, this	s project hopefully will answer not only the climate change problem bu	<u>it</u>	
also a social problem.			
<u>Table</u>	11. Stakeholder involvement by output or activity.		Formatted: Font: Italic
.			Formatted: Font: Italic

Output	Stakeholders	-	Formatted: Font: 10.5 pt	
1.1.1 Research conducted on climate-resilient	Central Government, Municipal Government,		Formatted Table	
public space, including best practices and lesson	UN-Habitat Global Public Space, and Pratt		Formatted: Font: 10.5 pt	\longrightarrow
learned within the Asia-Pacific Region, and South-	Institute New York.		Formatted: Font. 10.5 pt)
East Asia cities in particular				
1.1.2 Assesment tool and methodology for	UNTAG Surabaya, QUT, Pratt Institute New York,		Formatted: Font: 10.5 pt	
evaluation of climate-resilient Public Space	Municipal Government, and UN-Habitat Global			
developed	Public Space			
1.1.3 Public Space guidelines, incorporating new	UNTAG Surabaya, QUT, Pratt Institute New York,		Formatted: Font: 10.5 pt	
typologies that can be used as a best practice for	Municipal Government, and UN-Habitat Global		()
replication	Public Space			
2.1.1 Community profiling developed for targeted	Municipal Government, UNTAG Samarinda,		Formatted: Font: 10.5 pt	
locations	Local Community, Local CSO			
2.1.2 Targeted communities are enggaged in design	Municipal Government, UNTAG Samarinda,		Formatted: Font: 10.5 pt	
processes through a participatory approach (e.g.	Local Community, Local CSO		(PT	
workshop, interactive debate, etc.), focused on				
climate-resilient Public Space				
2.2.2 Community groups are established, based on	Municipal Government, UNTAG Samarinda,		Formatted: Font: 10.5 pt	
the existing governance structure (if present), to	Local Community, Local CSO		(PT)
ensure adequate maintanance of the Public Space				
3.1.1 Training for community groups to base	Municipal Government, UNTAG Samarinda,		Formatted: Font: 10.5 pt	
strengthen community adaptation in Public Space	Local Community, Local CSO		(
location				
3.1.2 Training for government officials in key sector	Municipal Government, UNTAG Samarinda.		Formatted: Font: 10.5 pt	
(e.g. planning department) on project findings,			(
methodologies and approaches app				
3.2.1 Lessons learned and best practices on climate-	City Government of Samarinda, UNTAG		Formatted: Font: 10.5 pt	
resilient Public Space and community adaptive	Surabaya, QUT, Kemitraan			
capacity building are captured and disseminated for				
regional replication				
4.1.1 Evaluation of place quality before the	City Government of Samarinda, UNTAG		Formatted: Font: 10.5 pt	
intervention, at completion of the intervention, and	<u>Surabaya, QUT, Kemitraan</u>)
two years after the completion of the intervention				
4.2.1 Lessons learned and best practices on climate-	City Government of Samarinda, UNTAG		Formatted: Font: 10.5 pt	
resilient Public Space and community adaptive	Surabaya, QUT, Kemitraan			
capacity building are captured and disseminated for				
regional replication				

B. Measures for financial and project risk management Describe the measures for financial and project / programme risk management.

All risks in project implementation are analyzed during the design phase with the participation of all relevant stakeholders. A mitigation strategy is established to ensure that the risk is well managed. The table below

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presents the types of risks, description of risk and risk level and the strategies that have been and will be done to minimize them.

Type of Risk	Description of Risk	<u>Risk</u> <u>category</u> (H/M/L)	<u>Risk Mitigation Strategy</u>		
Institutional	Weak commitment built by	Medium	This project will build in Segiri	•>	Formatted: Font: (Default) Calibri, English (US)
	project implementers with		Market neighborhood that being		Formatted Table
	central/provincial/local		hot-spot area related to political		(
	government due to changes in government structure and lack		issues and social economy activities. The development		
	of coordination and		process that happened in the		Formatted: Font: (Default) Calibri, English (US)
	communication.		election year might be one of the		(Tormatted: Torit: (Deradit) Calibri, Eligiish (05)
			sensitive issues that use to		
			politicization the designated area.		
			To minimize the risk, PMU will ask		
			the municipal government to form an official team under		
			Secretary of Samarinda City (ex		
			officio) supervision		
	<u>Changes in project personnel</u>	Low	In establishing working		Formatted: Font: (Default) Calibri, English (US)
	can affect the availability of		relationships with the PMU, the		Formatted: Font: (Default) Calibri, English (US)
	qualified staff		Consortium implements a recruitment system with output		Formatted: Font: Arial, English (AUS)
			of work contracts during the		
			project. With this mechanism, the		
			personnel attachment with the		
			consortium in achieving the		
			project goal will be the legal basis.		Formatted: Font: (Default) Calibri, English (US)
<u>Financial</u>	Delays in disbursement of	Medium	Building active communication		Deleted: ¶
	funds, procurement and institutional efficiency (long		with the grantor and fulfilling all forms of financial procedures in		Formatted: Footer
	approval process and others)		budget disbursement.		Formatted: Font: (Default) Calibri, English (US)
	that delay project				Formatted: Font: (Default) +Body (Calibri), Spanis
	implementation.				Deleted: 1
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					Formatted: Font: (Default) Calibri, English (US)
<u>Social</u>	Lack of community (direct	Medium	Building good relationships		Formatted: Font: (Default) Calibri, English (US)
	beneficiaries) in supporting to the project		with local government, community and the		Formatted: Footer
	A		community leaders (direct		Formatted: Font: (Default) Calibri, English (US)
			beneficiaries) before the		Formatted: Font: (Default) Calibri, English (US)
			 project starts Establishing temporary mini- 		Formatted: Font: Arial, English (AUS)
			groups for specific		Formatted: Font: Calibri, 10 pt
			beneficiaries (local youth	Ì	Formatted: Footer, Indent: Left: 0.07 cm, Hanging: 0.38 cm

Type of Risk	Description of Risk	category	Risk Mitigation Strategy	Formatted: Fo	nt: Calibri, 10 pt, English (US)
		<u>(H/M/L)</u>	community, merchants,	Formatted: Fo	nt: (Default) Calibri, English (US)
			<u>general citizens near</u> <u>designated location) to gather</u> targeted community.	Hanging: 0.38	oter, Indent: Left: 0.07 cm, 3 cm, Bulleted + Level: 1 + Aligne Indent at: 1.27 cm
			Utilization of activities in the	Formatted: Fo	nt: (Default) Calibri, English (US)
			form of training/workshops/group	Deleted: ¶ ¶	
			discussions to provide amn	Formatted: Fo	nt: (Default) Calibri, English (US)
			understanding of the project	Formatted: Fo	oter
	Communities are less aware of	Medium	This project will encourage the	Formatted: Fo	nt: (Default) Calibri, English (US)
	climate change and have lack of		communities and introduce	Formatted: Fo	nt: (Default) Calibri, English (US)
	enthusiasm to respond to disasters. If beneficiaries are		participatory methods to so that they can be provided with	Formatted: Fo	oter
	not fully aware of the impacts		understanding on the impacts of	Formatted: Fo	nt: (Default) Calibri, English (US)
	of climate change, it is difficult		climate change.	Formatted: Fo	nt: Calibri, English (US)
	to gain their commitment in climate change adaptation			Deleted: 1	
	through public space development.			Deleted: <#>	People with disabilites¶
	<u>Conflict of community interest</u> in developed public space	Medium	This project will build trust among stakeholders in the Segiri Market	1	ntion (context & project specific)¶
			neighborhood. There will be a representation person for each group that coordinates in the		tion (context & project specific)¶
			decision-making process. Furthermore, this project will	¶ Women¶ ¶	
			promote collaboration in every phase of development to prevent conflict of community interest	Include descrip ¶ Elderly people	ntion (context & project specific)¶
	Low technical knowledge of	Medium	This project will provide the	¶ Include descrip	ntion (context & project specific)¶
	municipal government officials and communities to maintaining the public space.		municipal government and communities with sustainable scheme related to public space	1	f vulnerable groups in Local governmer
			<u>maintenance. The alternative</u> <u>sustainable scheme is expected to</u> reduce the maintenance cost that	¶ Include descrip	ntion (context & project specific)¶
			burden the local development budget	¶ Special progra project¶	ms involving vulnerable groups in the
				¶ Include descrip	ntion (context & project specific)¶
	d social risk management	l rick mana	compart in line with the	¶ Opportunities groups ¶	for inclusión of marginalized vulnerable
	sures for environmental and socia d Social Policy of the Adaptation		zement, in line with the	¶ Include descrip	ntion (context & project specific)¶
	al management plans that identify		s, where the proposal should include ssary to avoid, minimize, or mitigate	increasingly ma the PMU level	mmunity groups who then become arginalized as a result of project activitie will try to solve this problem in a
	the project location			government, a	vay involving all parties, including the nd vulnerable groups themselves, throu cess, and participatory approaches. The

<u>Project/program preparation has identified environmental or social risks, where the proposal should include environmental and social management plans that identify actions necessary to avoid, minimize, or mitigate potential environmental and social risks.</u>

Environmental and Social Principles	Description of Risks	<u>Risk</u> categor ¥ (H/M/L)	Risk Mitigation Strategy
<u>Marginal and</u> <u>Vulnerable Groups</u>	There are several possibilities that will not involve some vulnerable groups in project activities	Low	 The Assessments of vulnerable groups who will be involved in the project are identified by several categories such as age, work, income and family dependents. The data will then be fairly chosen for group involvement in each project activity The Project activity must record how much the involvement of vulnerable groups as beneficiaries, and must be evaluated Monitoring will have an impact on this will be carried out as scheduled during the project activity
	The participation of vulnerable groups who are beneficiaries is not fully approved, so that it will trigger uneven social impacts	Low	The existence of assistance activities for <u>vulnerable groups in an effort to increase</u> <u>capacity</u>

GRIEVANCE MECHANISM

In alignment to the Adaptation Fund's Environmental and Social Safeguards Policy, the implementing entity (Kermitraan) has a grievance mechanism in place, available in the target areas, ensuring an accessible, transparent, fair and effective means of communicating concerns during project design and implementation. Project stakeholders affected by the project will be informed of the grievance mechanism for any criticism or complaint of an activity.

This grievance <u>mechanism will</u> allow affected stakeholders to raise concerns and will be given the option to remain anonymous. Modalities for raising grievances will include a postal address to which community members can write in any language, an email address and a confidential telephone number. Consultations and workshops held throughout the project implementation will also serve as a means for stakeholders to raise concerns or suggestions.

These mechanisms consider the special needs of different indigenous groups as well as gender considerations. A hotline and mailbox offer an immediate way for affected stakeholders to express their concerns. The <u>hotline will</u> be available in local languages and offer the opportunity for those that may be affected by the project to complain or provide suggestions on how to improve project design and implementation.

In addition to the grievance mechanism set in place by the implementing entity, the address and email address of the Adaptation Fund will also be made public (i.e., social media, participatory workshops, etc.) for anyone to raise concerns regarding the project:

Adaptation Fund Board secretariat Mail stop: MSN P-4-400

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1818 H Street NW Washington DC 20433 USA Tel: 001-202-478-7347 afbsec@adaptation-fund.org

JNSTITUTIONAL ARRANGEMENTS

The institutional arrangement includes the distribution of roles and responsibilities in the implementation of ESMP. The key players and their responsibilities will be as follows:

<u>Designation</u>	Responsibility
Program Management Unit (PMU)	Identification of Environmental and Social Problems at the Project Site Public disclosure Creation of grievance mechanism at EE level Reporting and disposal of grievances
<u>Kemitraan (Partnership)</u>	Monitor and review the process ESMP implementation Set up the grievance mechanism at IE level Disposal of grievances

GENDER ASSESSMENT

The proposed location of the planned puble space is within the wet market complex of Pasar Segiri, the biggest foods and vegetables wholesaler market for the city of Samarinda. Other than dry foods and fresh vegetable products, the market also have wide range of products sold, such as clothings, face/body care products, and even reselling used products. Apart from small stalls in the "wet" area, it also has shop houses in buildings. The wet area consists of food products, while the shop houses sells more expensive goods, including electronic products.

The whole complex – around 5,4 hectares – lives for 24 hours non stop, catering the need of small vegetable and other food products vendors buying in small bulk. The market expand early in the morning from 2am-7am, (illegally) occupying part of the street to cater the need of vegetable vendors that will buy in bulk and distribute produce to residential areas. In day time, around 7am - 10am, home maker comes to buy fresh products for the needs of their household in smal amount. By mid day, the market is relatively not as busy as other times the day, and the sellers have time to arrange their goods or take some nap. In the afternoon, working women swarm in to buy foods for their family. The business continues, despite time, and the sellers continue doing many things, if not catering the buyers, cleaning vegetables or buying supply.

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In terms of the long-term feasibility of the intervention; the public spaces will be designed applying solutions, technologies, and materials that will require minimal maintenance. The planning, design, construction, and maintenance processes of the project will be based on the 4P model⁹³: Public-Private-People-Partnership. The engagement of public and private stakeholders, as well as the local communities, will be vital to the success of the project. The aim of the participatory approach is to create ownership by the community, so that in the future the community is empowered with the activation and maintenance of the public spaces in collaboration with the local government. Skills learned by community members during the construction phase will be strategic also for the day-to-day maintenance of the public spaces.¶

The 4P model⁹⁴ ensures a more resilient and sustainable management structure better equipped to face the challenges of climate change, because it relies on a variety of stakeholders and it is grounded in the engagement of end users, the communities where the public spaces will be developed, in every phase of the process. The handover of the space from the local government to the local community will be a key phase of the process, grounded in the participatory design of the project.¶

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Though no data of sellers and buyers in Pasar Segiri disaggregated by sex is available, from the list of names and market observation, there tends to be more women sellers than men living and working in this market especially in "wet" section of the market that mostly sells fresh fruit, dry food and fresh meat and vegetables. In total there are over 1500 sellers in the market, that can be differentiated by products sold and locations.

Going through the list of market stall tenants, despite the common culturally unequal ownership/control over properties among women and men in other areas, market stalls are equally owned (or rent for



At around 1am, women are arranging their stalls by < the street to prepare for early morning buyers.

a long period of time) under female and male names, reflecting a more equal position of men and women in the wet market context. Going through the list, some stalls are seen dominated by one person – renting the stalls to other sellers, mostly poorer food and vegetable seller. Women names (identified either by feminine name or by salutations) mostly own/rent stalls in the market selling vegetables (los sayur), and less women own/rent stalls selling meat/fish products and only very small proportion are listed as owner or renting shop houses. In vegetable stall sections, women names are listed as the tenant in over 50% of the stalls.

A short observation on alleys in the vegetable sections confirmed the above notion and more, showing that in around 10 shops, 8 women sellers were seen tending to their small food and/or vegetable stalls, mostly alone, few with their husband. Without enough support, women working as food seller are experiencing multiple burden in their reproductive and productive work. A young mother, in her thirty, has to tend her shop while nursing her baby in a not-so-clean stall she owned. She still looked after her shop when she was heavily pregnant and got only 3 months break after her baby was born. Once back in the shop, she took her baby with her even when looking after to the stall in the wet market, despite hygiene issues of the wet market context and the poor air circulation. She looks after the shop every day without break from around 9am to 5pm after she finishes all her reproductive works at home. Her husband usually leave home first to buy the food and vegetable they are selling. They have another child, around 8 years old, who stays at home with the grand mother. Next to her, in another stall, a mother was sleeping on top of her stall table, while rocking her baby that sleeps in a small "sarong" hammock hung at the stall's ceiling. It was around 2 in the afternoon, business was rather quiet. Walking further inside the market alley, small children, elementary school age, were seen sitting on the stall's table top, glued to a mobile phone playing game or watching videos. The mothers, who are vegetable food sellers, cannot give too much attention to them as they are busy taking care of their goods. The work never stops. When there is no buyer to serve, they sit and clean vegetables: peeling onion leaves or cabbage, packing vegetables that are already bought by a customer, or selecting fresh vegetables from the bad ones. When tired or feeling sleepy, these women just lay at the table stalls and fall asleep, without being disturbed by busy surroundings.

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Sanitation facilities at Pasar Segiri with toilets with limited space for women with children. A woman seller with her young child spending their days in the market, without day care centers.

Segiri market is not only a place to work but for some of the sellers it is also their home most of the days. The sellers and their family lives in their stalls or small rented rooms within the market complex. Women, men and children have to adapt to the market context with poor sanitation, poor air circulation and unhygienic conditions. Children do not have place to play, they are running around inbetween stalls or play right next to the river that has become the community waste dumping place. At an old wooden bridge connects Pasar Segiri with residential areas across the river, children are playing without any caution for safety. Bigger children are helping their parents selling goods, children in wet market are working at a very young age. The covid pandemic in the last 3 months have increased vulnerabilities of children as they do not go to school but spend most of their days in the market with their parents because no one can take care of them at home.

Other than Pasar Segiri community, there are also residential areas surrounding the proposed public space location. The main concern of this area is the frequent flood that happened twice in the last 6 months (when it used to happen only once in the last 10 years time). The flood brought dirty water from the river to their houses. One-storey houses owned or rented by low-income families will face more damaging impact as they do not have options to move to higher place or evacuate. Flooding in the wet market area increases the health risk for people living and working in the market. Women and children are at risk and are more vulnerable to the impact of flooding.

Gender Assesment	Descriptions Relevant with Project
Categories	
Gender Roles	Women carry multiple burden as they perform their role as sellers in the
	market, especially in vegetable and food section, while they still have to
	perform most tasks in the domestic space. Without any reliable support
	system, the women have to carry out their reproductive roles in the
	market, especially caring for their small children. The proposed public
	space should provide some level of support for these women by
	providing a place where women could entrust the care of their children
	to, and involving women gorups in the community as the care givers for
	the children.
Gender Activities	Women and children are the vulnerable groups within the proposed
	public space area in Pasar Segiri as they live lives inside the wet market

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	complex and some have make Pasar Segiri their homes. Men and			
	women work as sellers for almost 24 hours as the activities in the market			
	never cease. Many children spend their days inside the wet market			
	accompanying their parents. Older children, within elementary school			
	age, were seen taking some responsibility in managing their stores			
	(cleaning veggies, packing, weighing and other simple tasks). There is			
	not many alternative activities for children to do within the area and			
	almost no space that could be used by the children to learn and play.			
Gender Needs	The health and safety of women and children that live most of their days	•	Form	atted: Font: (Default) Calibri, 10 pt, Font
	inside the wet market are at risk. Women and children are lacking of			: Text 1, English (US)
	proper place to rest, there is no proper sanitation facilities provided		\sim	atted: Justified
	within the market place, no area to play for children who accompany		Form	latteu. justineu
	their parents (living) in the market. Women are at risk because of			
	multiple burden they have to carry the domestic works and family caring			
	responsibilities, while managing their shops in the market.			
	The community living inside and in the surrounding areas of the market			
	have to adapt to climate change, with more frequent flood happening			
	in their living area that could last for a week, poor water quality		Delet	ted:
	especially when the river is currently considered as waste dumping		Delet	
	place, and lacking of clean sanitation facilities that will have long term		Delet	ted:
	impact for women's reproductive health.		Delet	
Opportunities and	The involvement of women groups and young people in Samarinda kota	•	Form	atted: Font: (Default) Calibri, 10 pt, Font
Challenges/Risks	communities to manage the public space that will become a safe space			: Text 1, English (US)
	for women and children, especially for vulnerable groups living and		Eorm	atted: Justified
	working in the Pasar Segiri area. However, considering the burden of		Form	latted. Justified
	their work and the importance of sustaining their livelihood in Pasar			
	Segiri market, inviting women merchants/sellers from Pasar Segiri could			
	be a challenge as they have long working hours and are mostly reluctant			
	to leave their working space to join any group activities.			
	Care giving activities for children of women sellers could ease the			
	burden, while giving a safer place for children to grow with more			
	educative options of activities (library, conducting a non-formal			
	education programs, providing space to play safely). However, day care			
	program is yet to be a common practice in Indonesia, especially in			
	Samarinda area, and any additional cost to daily family expenses (to pay			
	for the day care facilities) may create rejection as the lower income			
	family may have a tight budget. Building trust to leave a child with			
	strangers may also be an issue, thus involvement of women sellers			
	· · · · · · · · · · · · · · · · · · ·			
	groups (informal or formal) is necessary to gain trust and allow women			

D. M&E PLAN

Describe the monitoring and evaluation arrangements and provide a budgeted M&E plan.

INCLUDE DESCRIPTION OF M&E ARRANGEMENTS

Project Results	Indicators	<u>Target</u>	Sort by	Monitoring Methods & Tools	Frequency	<u>Responsibility</u>			
Project Component 1. Research and Development on city-wide adaptation to climate change through public spaces									
Outcome 1.1 Increased urban resilience through the development of a new public space typology and guidelines that can inform planning processes at the city-level					<u>Quarterly</u>	Kermitraan and EEs			
Output Level:									
1.1.1. Research conducted on climate-resilient public spaces, including best practices and lessons learned within the Asia-Pacific Region, and South-East cities in particular					<u>Quarterly</u>	Kermitraan and EEs			
1.1.2. Assessment tool and methodology for the evaluation of climate-resilient public spaces developed					Quarterly	Kermitraan and EEs			
1.1.3. Public space guidelines, incorporating new typologies that can be used as a best practice for replication					<u>Quarterly</u>	Kermitraan and EEs			
Project Component 2. Awareness ra			design and imple	ementation of a new public s	pace typology				
Outcome 2.1 Increased awareness and ownership of design processes	Percentage of targeted population aware of climate projections and expected impacts and	<u>50 %</u>	<u>Neighborhood</u>	Documentation review Activity Report review Participation lists Quarterly Report review	<u>Quarterly</u>	Kermitraan and EEs			

Outcome 2.2 Community-based infrastructure developed resulting in a strengthened adaptive capacity	Physical infrastructure improved to withstand climate change and variability-induced stress	<u>1 public</u> <u>space</u>	<u>City</u>		<u>Quarterly</u>	Kermitraan and EEs
Output Level:						
2.1.1. Community profiling developed for targeted location in the City of Samarinda	No. of community profiles developed for the targeted location	<u>1</u>	<u>None</u>	Documentation review	<u>Quarterly</u>	Kermitraan and EEs
2.1.2. Targeted communities are engaged in design processes through a participatory approach (e.g. workshops, interactive debates, etc.), focused on climate- resilient public spaces	No. and type of risk reduction actions or strategies introduced at local level	1	<u>Neighborhood</u>	Activity Report review Participation lists Quarterly Report review	<u>Quarterly</u>	Kermitraan and EEs
2.2.1. Climate-resilient public space is co-developed and built in the selected communities (in the city of Samarinda) based on previous findings	No. of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by asset types)	<u>1 public</u> <u>space</u>	<u>City</u>	Activity Report review documentation Quarterly Report review	Quarterly	Kermitraan and EEs
2.2.2. Community groups are established, based on existing governance structures (if present), to ensure adequate maintenance of the public spaces	Number of community groups established and number of people	<u>3</u>	<u>Neighborhood</u>	Activity Report review Participation lists Quarterly Report review	<u>Quarterly</u>	Kermitraan and EEs
Project Component 3. Capacity build	ling, knowledge management and	<u>communication</u>				

Outcome 3.1 Increased capacity at the city- and community-levels on climate-resilient strategies and design options for public spaces	No. and type of targeted institutions with increased capacity to minimize exposure to climate variability risks	1	City	Activity Report review Participation lists	Quarterly	Kermitraan and EEs
Outcome 3.2 Knowledge sharing and increased awareness on project results among targeted audience (communities, governmental bodies, general public)	Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses	Number to be defined	None	Quarterly Report review Documentation	<u>Quarterly</u>	Kermitraan and EEs
Output Level: 3.1.1. Training for community groups to divulgate findings of the project and methodology of the intervention	Number of people aware of predicted adverse impacts of climate change, appropriate responses and project and methodologies implemented in the intervention	<u>1 training (at</u> <u>least 50%</u> <u>women</u> <u>participating)</u>	Neighborhood	Activity Report review Documentation Participation lists	Quarterly	Kermitraan and EEs
3.1.2. Training for government officials in key sectors (e.g. planning departments) on project findings, methodologies and approaches applied for replication	20 staff trained	20 staff trained	<u>City</u>	Activity Report review Documentation Participation lists	Quarterly	Kermitraan and EEs
3.2.1. Lessons learned and best practices on climate-resilient public spaces and community adaptive capacity building are captured and disseminated for regional replication	5 news outlets in the local press and media covering the topic.	<u>5</u>	None	Quarterly Report review Documentation	<u>Quarterly</u>	Kermitraan and EEs
Project Component 4. Monitoring Outcome 4.1	Evaluation of the project impacts	1	<u>None</u>	Documentation review Baseline survey, end of completion survey, survey	Quarterly	Kermitraan and EEs

Increased understanding and awareness of the impact of the intervention				two years after the completion of the intervention			
Output Level:		1	1	Γ			
4.1.1 Evaluation of place quality	Evaluation report in the project	<u>3 surveys</u>	<u>None</u>	Baseline survey, end of	<u>Quarterly</u>	Kermitraan and EEs	 Deleted:
before the intervention, at	location			completion survey, survey			
completion of the intervention, and				two years after the			
two years after the completion of				completion of the			
the interventions				intervention			

E. Results Framework

Include a results framework for the project proposal, including milestones, targets and indicators.

<u>Outcome/</u> <u>Output</u>	Indicator	Baseline	Target	Source of Verification	Risk & Assumption				
Project Component 1. Research and Development on city-wide adaptation to climate change through public spaces									
Outcome 1.1 Increased urban resilience through the development of a new public space typology and guidelines that can inform planning processes at the city- level		Ō		Activity Report, Documentation Copy of assessment tool and methodology Copy of public space guidelines					
Output 1.1.1. Research conducted on climate-resilient public spaces, including best practices and lessons learned within the Asia-Pacific Region, and South- East cities in particular		<u>0</u>		Activity Report, Documentation					
Output 1.1.2. Assessment tool and methodology for the		<u>0</u>		Copy of assessment tool and methodology					

Outcome/ Output	Indicator	<u>Baseline</u>	Target	Source of Verification	Risk & Assumption
evaluation of climate-resilient public spaces developed					
Output 1.1.3. Public space guidelines, incorporating new typologies that can be used as a best practice for replication		<u>0</u>		Copy of public space guidelines	
Project Component 2. Awarene	ess raising and local resilience stre	ngthening throug	h the design and implementation of a nev	v public space typology	
Outcome 2.1 Increased awareness and ownership of design processes	Percentage of targeted population aware of climate projections and expected impacts and	<u>0</u>	<u>50 %</u>	Copy of community profiles Activity Report Participation lists Documentation	
Output 2.1.1. Community profiling developed for targeted location in the City of Samarinda	No. of community profiles developed for the targeted location	<u>0</u>	1	Community profiles (documentation)	
Output 2.1.2. Targeted communities are engaged in design processes through a participatory approach (e.g. workshops, interactive debates, etc.), focused on climate-resilient public spaces	No. and type of risk reduction actions or strategies introduced at local level	<u>0</u>	1	Activity Report Participation lists	
Outcome 2.2 Community-based infrastructure developed resulting in a strengthened adaptive capacity	Physical infrastructure improved to withstand climate change and variability-induced stress	<u>0</u>	<u>1 public space</u>	Activity Report, documentation	

Outcome/ Output	Indicator	Baseline	Target	Source of Verification	Risk & Assumption
Output 2.2.1. Climate-resilient public space is co-developed and built in the selected communities (in the city of Samarinda) based on previous findings	No. of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by asset types)	<u>0</u>	<u>1 public space</u>	Activity Report, documentation	
Output 2.2.2 Community groups are established, based on existing governance structures (if present), to ensure adequate maintenance of the public spaces	Number of community groups established and number of people	<u>0</u>	3 (at least 1 with a focus on gender) (at least 1 with a focus on youth)	Activity Report Participation lists	
Project Component 3. Capacity	building, knowledge management	t and communica	tion		
Outcome 3.1 Increased capacity at the city- and community-levels on climate-resilient strategies and design options for public spaces	No. and type of targeted institutions with increased capacity to minimize exposure to climate variability risks	<u>0</u>	1	Activity Report Participation lists	
Output 3.1.1. Training for community groups to divulgate findings of the project and methodology of the intervention	Number of people aware of predicted adverse impacts of climate change, appropriate responses and project and methodologies implemented in the intervention	<u>0</u>	<u>1 training (at least 50% women</u> participating)	Activity Report Participation lists	
Output 3.1.2. Training for government officials in key sectors (e.g. planning departments) on project findings, methodologies and approaches applied for replication	20 staff trained	<u>0</u>	20 staff trained	Activity Report Participation lists	

Outcome/ Output	Indicator	Baseline	<u>Target</u>	Source of Verification	Risk & Assumption
Outcome 3.2 Knowledge sharing and increased awareness on project results among targeted audience (communities, governmental bodies, general public)	Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses	<u>0</u>	Number to be defined	Documentation	
Output 3.2.1. Lessons learned and best practices on climate-resilient public spaces and community adaptive capacity building are captured and disseminated for regional replication	5 news outlets in the local press and media covering the topic.	<u>0</u>	5 news outlets (local press and media)	Documentation	
Component 4. Monitoring Outcome 4.1 Increased understanding and awareness of the impact of the intervention	Evaluation of the project impacts	<u>0</u>	1	Documentation Baseline survey, end of completion survey, survey two years after the completion of the intervention	
Output 4.1.1 Evaluation of place quality before the intervention, at completion of the intervention, and two years after the completion of the interventions	Evaluation report in the project location	<u>0</u>	<u>1 report</u>	Documentation Baseline survey, end of completion survey, survey two years after the completion of the intervention	

F. Alignment with the Results Framework of the Adaptation Fund Demonstrate how the project / programme aligns with the Results Framework of the Adaptation Fund

Project Outcome(s)	Project Outcome Indicator(s)	Fund Outcome	Fund Outcome Indicator	<u>Grant</u> Amount
Outcome 1.1. Increased urban resilience through the development of a new public space typology and guidelines that can inform planning processes at the city-		Outcome 7: Improved policies and regulations that promote and enforce resilience measures	7. Climate change priorities are integrated into national development strategy	(USD) 105.363
evel Outcome 2.1. Increased awareness and ownership of design processes	Percentage of targeted population aware of climate projections and expected impacts and	Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level	3.2. Modification in behavior of targeted population	40.000
Outcome 2.2. Community-based infrastructure developed resulting in a strengthened adaptive capacity	Physical infrastructure improved to withstand climate change and variability-induced stress	Outcome 4: Increased adaptive capacity within relevant development and natural resource sectors	4.2. Physical infrastructure improved to withstand climate change and variability- induced stress	<u>409.681</u>
Outcome 3.1. Increased capacity at the city- and community-levels on climate-resilient strategies and design options for public spaces	No. and type of targeted institutions with increased capacity to minimize exposure to climate variability risks	Outcome 2: Strengthened institutional capacity to reduce risks associated with climate- induced socioeconomic and environmental losses	2.1. No. and type of targeted institutions with increased capacity to minimize exposure to climate variability risks	30.000
Outcome 3.2. Knowledge sharing and increased awareness on project results among targeted audience (communities, governmental bodies, general public)	Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses	Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level	3.1. Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses	51.000

Project Outputs	Project Objective	Fund Outcome	Fund Outcome	Grant
	Indicator(s)		Indicator	Amount
				<u>(USD)</u>
1.1 Research conducted on climate-resilient public spaces, including best practices and lessons learned within the Asia-Pacific Region, and South-East cities in particular.		Output 7: Improved integration of climate-resilience strategies into country development plans	7.1. No., type, and sector of policies introduced or adjusted to address climate change risks	<u>105.363</u>
1.2 Assessment tool and methodology for the evaluation of climate- resilient public spaces developed				
1.3 Public space guidelines, incorporating new typologies that can be used as a best practice for replication.				
2.1.1 Community profiling developed for targeted locations in the City of Samarinda 2.1.2 Targeted communities are engaged in design processes through a participatory approach (e.g. workshops, interactive debates, etc.), focused on climate-resilient public spaces	No. of community profiles developed for the targeted locations No. and type of risk reduction actions or strategies introduced at local level	Output 3: Targeted population groups participating in adaptation and risk reduction awareness activities	3.1.1 No. and type of risk reduction actions or strategies introduced at local level	50.000
2.2.1 Climate-resilient public space is co- developed and built in the selected communities (across the four cities) based on previous findings	No. of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by asset types)	Output 4: Vulnerable physical, natural, and social assets strengthened in response to climate change impacts, including variability	4.1.2. No. of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by asset types)	409.681
3.1.1 Training for community groups to divulgate findings of the project and methodology of the intervention	Number of people aware of predicted adverse impacts of climate change, appropriate responses and project and methodologies implemented in the intervention	Output 3: Targeted population groups participating in adaptation and risk reduction awareness activities	3.1. Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses	15.000

3.1.2 Training for government officials in key sectors (e.g. planning departments) on project findings, methodologies and approaches applied for regional.centers 20 staff trained Output 2.1: Strengthened 2.1.1. No. of staff trained to respond to, and mitigate impacts 15.000 Formatted Table 0 n project findings, methodologies and approaches applied for regional.centers and networks to respond rapidly to extreme weather events Deleted: centres	
key sectors (e.g. capacity of and mitigate impacts planning departments) national and of, climate-related on project findings, regional centers events methodologies and and networks to respond rapidly to	
planning departments) on project findings, methodologies and approaches applied for national and regional centers of, climate-related events Deleted: centres	
on project findings, methodologies and approaches applied for regional centers events Deleted: centres	
methodologies and approaches applied for respond rapidly to	
approaches applied for respond rapidly to	
replication extreme weather	
events, Deleted: 1	
3.2.1. Lessons learned 5 news outlets in the local Output 3: Targeted 3.1.2 No. of news 51.000	
and best practices on press and media covering population groups outlets in the local	
climate-resilient public the topic. participating in press and media that	
spaces and community adaptation and risk have covered the	
adaptive capacity reduction topic	
building are captured awareness	
and disseminated for activities	
regional replication	

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G. Budget

Include a detailed budget with budget notes, a budget on the Implementing Entity management fee use, and an explanation and a breakdown of the execution costs.

For the detail see Annex B (Excel File).

						-			Formatted: Font: 12 pt, Bold
<u>Code</u>	Program	Description	Budget Notes		Detail Budget	•			Deleted: Look at the Annex B¶
k		<u></u>			Total in USD			//	Formatted: Font: Bold
1	Component 1	Development of theoritical model	-	\$	109,027			$\left(\right)$	Formatted: Indent: Left: 0 cm,
		for the new typology of Public Space New Public Space typology and				_	\mathbb{N}	11.	Deleted: INCLUDE ¶
<u>1.1</u>	Outcome 1.1	guideline that can be implemented		\$	109,027		$\langle \rangle$	$\left(\right)$	Formatted: Font: (Default) +Bo
		in the city					/ /	()	Formatted Table
		Research conducted on climate-	Objection: Developing collective approaches and theoretical model for a new typology of Public Space related to the traditional market and riverside area improvement as the				$\langle \rangle$	//	Formatted: Font: (Default) +Bo
		resilient public space, including best	social and economic activities epicenter in adapting climate change					$\langle \rangle$	>
<u>1.1.1</u>	<u>Output 1.1.1</u>	practices and lesson learned within	Social and economic activities epicenter in adapting climate change	\$	85,027			1	Formatted: Font: (Default) +Bo
		the Asia-Pacific Region, and South- East Asia cities in particular	Involvement: Central Government, Municipal Government, UN-Habitat Global Public						Formatted: Font: (Default) +Bo
			Space, and Pratt Institute New York.					1	Formatted: Font: (Default) +Bo
			Objection: Developing user-friendly tools and apps to help citizens to perceive climate						
		Assesment tool and methodology	and resilience context in public space that will be utilized in development location						
<u>1.1.2</u>	Output 1.1.2	for evaluation of climate-resilient Public Space developed	Involvement: UNTAG Surabaya, QUT, Pratt Institute New York, Municipal Government,	2	14,000				Formatted: Font: (Default) +Bo
		<u>Public space developed</u>	and UN-Habitat Global Public Space						
			Objection: Building interactive boots that will be used as knowledge transfer media						
		Public Space guidelines,	among citizens, local stakeholders, and government officials to understand climate						
		incorporating new typologies that	change and resilience through in public space development. So it can be a best practice						
<u>1.1.3</u>	Output 1.1.3	can be used as a best practice for	that will replicate for further development in Samarinda City or other Indonesian cities.	\$	10,000				(Formatted: Font: (Default) +Bo
		replication	Involvement: UNTAG Surabaya, QUT, Pratt Institute New York, Municipal Government,						
			and UN-Habitat Global Public Space						
		Awareness raising and local							
	Component 2	resilience strengthening through the		¢	459,682				
A	component 2	design and implementation of a new		3	433,002				Formatted: Font: (Default) +Bo
		Public Space typology							
<u>2.1</u>	Outcome 2.1	Increased awareness and ownership		\$	50,000				Formatted: Font: (Default) +Bo
A		of the design processes							Delault) +BO

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			Target: Citizens, community, and local merchants in Segiri Market neighborhood as well as the youth community in Samarinda		
<u>2.1.1</u>	<u>Output 2.1.1</u>	Community profiling developed for targeted locations	Objection: Building Trust with the local community as well as municipal government to collaborate and support the public space development through embracing the sun project	<u>\$ 10,000</u>	Formatted: Font: (Default) +Body (Calibri), 9 pt
			Involvement: Municipal Government, UNTAG Samarinda, Local Community, Local CSO		
		Targeted communities are enggaged in design processes through a	Target: Citizens, community, and local merchants in Segiri Market neighborhood		
<u>2.1.1</u>	Output 2.1.2	participatory approach (e.g. workshop, interactive debate, etc.),	Objection: Collaborating and incorporating local ideas to public space development plan in the designated area	<u>\$ 40,000</u>	Formatted: Font: (Default) +Body (Calibri), 9 pt
		focused on climate-resilient Public Space	Involvement: Municipal Government, UNTAG Samarinda, Local Community, Local CSO		
<u>2.2</u>	Outcome 2.2	Community-based infrastructure developed resulting in a strengthened adaptive capacity		<u>\$ 409,682</u>	Formatted: Font: (Default) +Body (Calibri), 9 pt
			Target: Segiri Market Neighborhood		
<u>2.2.1</u>	Output 2.2.1	Climate-resilient Public Space is co- developed and built in the selected communities (in the City of	Objection: Improvement and construction of basic infrastructure (exp: sanitation, waste management, lighting, education center, etc) in Segiri Market Neighborhood	\$ 399,682	Formatted: Font: (Default) +Body (Calibri), 9 pt
		Samarinda) based on previous findings	Involvement: Municipal Government, UNTAG Samarinda, Local Community, Local CSO, Private Sector (Construction and installation)		
		Community groups are established,	Target: Segiri Market Neighborhood		
<u>2.2.2</u>	Output 2.2.2	based on the existing governance structure (if present), to ensure adequate maintanance of the Public	Objection: Establishing Segiri Market public space community and strengthening their bonds to support the maintenance of public space process through collaborative and sustainable model in the effort of adapting climate change	<u>\$ 10,000</u>	Formatted: Font: (Default) +Body (Calibri), 9 pt
		<u>Space</u>	Involvement: Municipal Government, UNTAG Samarinda, Local Community, Local CSO		
2	Component 3	Capacity building, knowledge management and communication		<u>\$ 81,000</u>	Formatted: Font: (Default) +Body (Calibri), 9 pt
<u>3.1</u>	Outcome 3.1	Increased capacity at the city and community-level on climate-resilient strategies and design option for Public Space		\$ 30,000	Formatted: Font: (Default) +Body (Calibri), 9 pt

			Target: Segiri Market Neighborhood		
<u>3.1.1</u>	Output 3.1.1	Training for community groups to base strengthen community	Objection: Introducing citizens near Segiri Market with sustainable activities that will help them in adapting to climate change effect. Strengthening local community	<u>\$ 15,000</u>	(Fouriertande Fourte (Doffmult) - Dodie (Collibrit), Ourt
2.1.1	000000000	adaptation in Public Space location	ownership of the developed public space through embracing the sun project	3 13,000	(Formatted: Font: (Default) +Body (Calibri), 9 pt
			Involvement: Municipal Government, UNTAG Samarinda, Local Community, Local CSO Target: Municipal Government		
<u>3.1.2</u>	Output 3.1.2	Training for government officials in key sector (e.g. planning department) on project findings, methodologies and approaches app	Objection: Improving Municipal Government Officials' understanding regarding sustainable maintenance schemes that will help them in monitoring and preserving the public space that has developed by embracing the sun projects. Introducing them with best practices from cities throughout the globe related to improving and managing public space for further development Involvement: Municipal Government, UNTAG Samarinda.	<u>\$ 15,000</u>	Formatted: Font: (Default) +Body (Calibri), 9 pt
<u>3.2</u>	Outcome 3.2	Knowledge sharing and increased awareness on project result among targeted audience (communities, governmental bodies, general public)		\$ 51,000	Formatted: Font: (Default) +Body (Calibri), 9 pt
<u>3.2.1</u>	<u>Output 3.2.1</u>	Lessons learned and best practices on climate-resilient Public Space and community adaptive capacity building are captured and disseminated for regional replication	Target: Governmental bodies and the general public Objection: Spreading embracing the sun project' result and lessons learned to the wider public (national and international) Involvement: City Government of Samarinda, UNTAG Surabaya, QUT, Kemitraan	\$ 51,000	Formatted: Font: (Default) +Body (Calibri), 9 pt
4	Component 4	Monitoring		<u>\$ 38,288</u>	Formatted: Font: (Default) +Body (Calibri), 9 pt
<u>4.1</u>	Outcome 4.1	Increased understanding and awareness of the impact of the intervention		\$ 17,500	Formatted: Font: (Default) +Body (Calibri), 9 pt
<u>4.1.1</u>	Output 4.1.1	Evaluation of place quality before the intervention, at completion of the intervention, and two years after the completion of the intervention	Target: Segiri Market Neighborhood Objection: Monitoring and evaluation of the project implementation, especially how the intervention promotes better adaptation of climate change Involvement: City Government of Samarinda, UNTAG Surabaya, QUT, Kemitraan	\$ 17,500	Formatted: Font: (Default) +Body (Calibri), 9 pt

<u>4.2</u>	Outcome 4.2	Knowledge sharing and increased awareness on project result among targeted audience (communities, governmental bodies, general public)	Target: Governmental bodies and the general public Objection: Spreading embracing the sun project' result and lessons learned to the wider public (national and international) Involvement: City Government of Samarinda, UNTAG Surabaya, QUT, Kemitraan	<u>\$</u>	20,788	 Formatted: Font: (Default) +Body (Calibri), 9 pt
k	Total Activity			\$	<u>687,996</u>	 Formatted: Font: (Default) +Body (Calibri), 9 pt
A	Total Output			\$	<u>687,996</u>	 Formatted: Font: (Default) +Body (Calibri), 9 pt
A	<u>Total</u> Outcome			\$	<u>687,996</u>	 Formatted: Font: (Default) +Body (Calibri), 9 pt
.	Total Component			\$	<u>687,996</u>	 Formatted: Font: (Default) +Body (Calibri), 9 pt
<u>A.</u>	Total Project/P	rogramme Activitites Cost		<u>\$</u>	<u>687,996</u>	 Formatted: Font: (Default) +Body (Calibri), 9 pt
B	Total Project E	xecution Cost (PEC) and M & E Cost		\$	<u>72,221</u>	 Formatted: Font: (Default) +Body (Calibri), 9 pt
Ç	Project/Progra	amme Cycle Management Fee charged b	y the Implementing Entity	\$	<u>64,618</u>	 Formatted: Font: (Default) +Body (Calibri), 9 pt
A	<u>TOTAL</u>			\$	<u>824,835</u>	 Formatted: Font: (Default) +Body (Calibri), 9 pt

H. Disbursement schedule

Include a disbursement schedule with time-bound milestones.

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Time-bound project activities

					_	_			_	Time	eframe	e/Mon	<u>iths</u>	_						\sim	
<u>Component</u>	Expected Output	<u>Activities</u>	Sub Activities	<u>1</u> <u>2</u>	3	4	5	<u>6</u>	Z	8	<u>9</u>	10	11	12	13	14	<u>15</u>	16	17	18	F
1. Development of theoritical model for the new typology of Public Space	1.1.1 Research conducted on climate-resilient public space, including best practices and lesson learned within the Asia-Pacific Region, and South-East Asia cities in particular	1.1.1.1 Re- Thinking Public Space Typologies for Urban Climate Adaptation	A. High level kick off round table for Urban Climate Adaptation (Keynote Speaker: Minister of National Planning and Development, Minister of Forestry and Environment, Minister of Spatial Planning and Land Management) B. Discussion and Workshop with UN - Habitat Global Public Space		-	-	-	-	-	-	_	-	-	-	_	-	-	-	-	-	F F F F
			Programme (Nairobi) and Block- By-Block Foundation C. Discussion and Workshop with Pratt Institute New York (Master Program of Urban Placemaking and Management) and Project For Public Space		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			D. Tool and Method Development at QUT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1.1.2 Assesment tool and methodology for evaluation of climate-resilient <u>Public Space</u> developed	1.1.2.1 Formulating tool and methodology to became user friendly	E. Integrating tools and apps development at QUT		-		-	-	-	-	-	-	-	-	-	-	-	_	-	-	
	1.1.3 Public Space guidelines, incorporating new typologies that can be used as a best practice for replication	1.1.3.1 Tools and Methods Finalization	F. Guideline preparation		-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	

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										Time	eframe	e/Mon	<u>iths</u>							
Component	Expected Output	<u>Activities</u>	Sub Activities	1	2	3	4 5	6	7	8	9	10	11 1	2 13	14	15	16	17	18	Formatted: Font: 9 pt
2. Awareness	2.1.1 Community	2.1.1.1	G. Need assesment and group	_	_					_	_	_		_	_	_	_		_	Formatted Table
raising and local	profiling developed	Community	discussion																	Formatted: Font: 9 pt
<u>resilience</u>	for targeted	engagement																		
strengthening	locations																	_		
through the	2.1.2 Targeted	<u>2.1.2.1</u>	H. Participatory Design	-	-		-	-	-	-	-	-		-	-	-	-	-	2	
design and	communities are	<u>Community</u>	Workshop															_		
implementation	enggaged in design	engagement	I. Detail Engineering Design and	-	-		-	-	-	-	-	-		-	-	-	-	-	-	
of a new Public	processes through a		BOQ Development																	
Space typology	participatory																			
	approach (e.g. workshop,																			
	interactive debate,																			
	etc.), focused on																			
	climate-resilient																			
	Public Space																			
	2.2.1 Climate-	2.2.1.1	J. Construction of Public Space		_		-		-									-		
	resilient Public Space	Development		-	-		-	-	-	-	-	-		-	-	-	-	-	1	
	is co-developed and	of Climate																		
	built in the selected	Resilient																		
	communities (in the	Public Space																		
	City of Samarinda)																			
	based on previous																			
	findings																			
	2.2.2 Community	<u>2.2.2.1</u>	K. Community maintenance	-	-		-	-	-	-	-	-		1	-	-	-	-	2	
	groups are	Community	training																	
	established, based	organizing																		
	on the existing																			
	governance												1							
	structure (if																			
	present), to ensure												1							
	adequate maintanance of the																			
	Public Space																			
	PUDIIC Space										1									

				_		_	_	_			Time	frame	e/Mor	<u>nths</u>				_		-	_	
Component	Expected Output	Activities	Sub Activities	1	2	3	4	5	6	7	8	9	10		12	13	14	15	16	17	18	Formatted: Font: 9 pt
3. Capacity	3.1.1 Training for	3.1.1.1	L. Training for community about	-	-	-		-	-	-	-	-										Formatted Table
building,	community groups	Community	adaptation in the new develop					·····														Formatted: Font: 9 pt
knowledge	to base strengthen	Training	Public Space																			
management	<u>community</u>																					
and	adaptation in Public																					
communication	Space location																					
	3.1.2 Training for	3.1.2.1 Official	M. Training for city officials	_	_	_	_			_	_	_	_	_	_	_	-	_	-	_	_	
	government officials	Training	about project findings and		-			-				-					-				-	
	in key sector (e.g.		replication																			
	planning																					
	department) on																					
	project findings,																					
	methodologies and																					
	approaches app 3.2.1 Lessons	3.2.1.1	N. Book Publishing																	-		
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ENDORSEMENT BY GOVERNMENT AND CERTIFICATION BY THE IMPLEMENTING ENTITY

A. Record of endorsement on behalf of the government

Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme:

H. Syaharie Ja'ang Mayor of Samarinda	Date: July, 30 th , 2019
Prof. Johan Silas	Date: January, 10 th , 2019
Advisor to the Mayor for City Planning and	
Urban Heritage	

B. Implementing Entity certification

Provide the name and signature of the Implementing Entity Coordinator and the date of signature. Provide also the project/programme contact person's name, telephone number and email address

I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans (President Decree No. 16/2015; P.13/MENLHK/Setjen/OTL.0/1/2016; P.33/MENLHK/Setjen/Kum.1/3/2016; Indonesia Intended Nationally Determined Contribution/INDC; COP 21; Paris Agreement signed by Government of Indonesia; Book and Map of Information System of Vulnerability Index Data (SIDIK); Permen-KP No. 2 year 2013; Climate Change Adaptation National Action Plan)and subject to the approval by the Adaptation Fund Board <u>commit to implementing the Project in compliance</u> with the Environmental and Social Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this Project..

perference		
Inda Presanti Loekman		
Executive Director a.i. o	f Kemitraan	
Implementing Entity Co	ordinator	
Data: 17th Jan 2020	Tel. and email: +62-21-7279 9566;	/
Date: 17th Jan 2020	Inda.Loekman@kemitraan.or.id	
Project Contact Person:	Dewi Rizki	
Tel. and Email: +62-21-7	279 9566; Dewi.Rizki@kemitraan.or.id	

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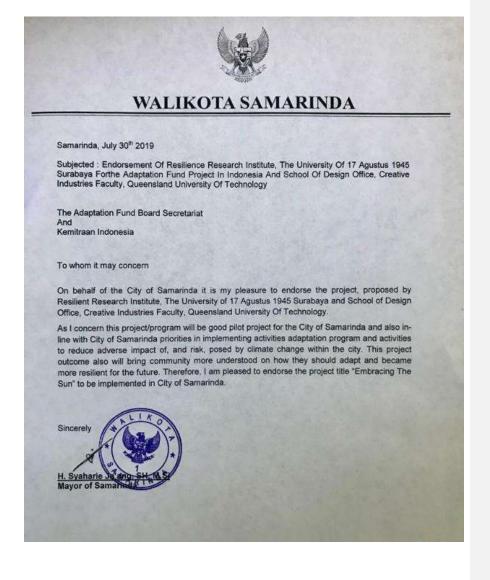
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ANNEX A Endorsement letters

The Endorsement Letter from the Mayor of Samarinda City (Municipal Government City of Samarinda)



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The Endorsement Letter from the Advisor to the Mayor for City Planning and Urban Heritage (Municipal Government City of Samarinda)



Surabaya, 20th January, 2019

Subject:

Endorsement of UNTAG Surabaya Resilience Institute (Pusat Studi Resiliensi), Universitas 17 Agustus 1945 Surabaya, Indonesia, for the Adaptation Fund Project in Indonesia

To Whom It May Concern,

On behalf of the Surabaya City Government, it is my pleasure to endorse the project, proposed by UNTAG Surabaya Resilience Institute (Pusat Studi Resiliensi), Universitas 17 Agustus 1945 Surabaya, Indonesia.

Surabaya is one of the largest cities in Indonesia. The city has won various global awards, because it represents the future of the city of Indonesia, with good governance and innovation in overcoming the challenges facing the urban environment, especially related to global climate change, to bring economic and environmental benefits holistically to the people of Surabaya. In developing its benefits, Surabaya hopes to be a role model for other cities in Indonesia.

Therefore, it is necessary to invite other local governments in the potential cities, to learn what has been done by Surabaya, so that it can be duplicated in their cities. Here the role of non-government organizations, such as the UNTAG Surabaya Resilience Institute is needed. This institution is always active and participates in various activities in Surabaya and its surroundings. They participate to building resilience at the local level through advocacy, awareness raising, capacity building, design workshop & implementation and promoting city-to-city collaboration. One of the trusted institutions that are partners is the School of Design Office, Creative Industries Faculty, The Queensland University of Technology. I am confident, through this collaboration; they will produce better and more useful products.

Sincerely,

the.

Prof. Johan Silas Advisor to the Mayor for City Planning and Urban Heritage

ANNEX C Field Report

Field Report for Adaptation Fun Proposal "Embracing the Sun" Samarinda, July 27 - 30, and August 4 - 6, 2020

1. Meeting Summary with Samarinda Environmental Agency

Attendance: No. Name Position <u>Nurrahmani</u> <u>1.</u> Head of Environmental Office, City Government of Samarinda Head of Pollution Control and Environmental Damage (PCED) 2. Rosana Department, Environmental Office, City Government of Samarinda Head of Environmental Division, PCED Department, 3. Yudi Sulistyanto Environmental Office, City Government of Samarinda Regional Asset Division, Regional Financial and Asset <u>4.</u> M. Arief Surochman Management Agency, City Government of Samarinda

Meeting Notes:

<u>*The field visit to the City of Samarinda was conducted during the COVID-19 pandemic. All attendance during the field visit is following the strict health protocol.</u>

The field visit aims to have confirmation from the City Government of Samarinda about the location that will be used for the Adaptation Fund Implementation project. Before the field visit, the City Government of Samarinda has sent four places that might be possible to be the location for project implementation. The four sites are scattered in a different part of the city. Two areas are located in the north of Samarinda, and the other two. are located in the south of Samarinda. One of the indicators used to select the place is the land should be owned by the City Government of Samarinda and should be used for the public interest.

The first location is located at the Karang Mumus riverbank near the Segiri Market. This location has complexity problems, not only the environment but also social. The second location is still located at Karang Mumus riverbank but more to the south; this area is more ready, but during the field visit, based on a quick observation, there is no significant problem of the environment nor social that need to be addressed. The third location is at Untung Suropati Street in front of the big mall; this area is not suitable for implementing the program due to the place's condition were only green median that separated two streets. The fourth location was inside the new low-cost housing complex at Cipto Mangunkusumo Street. This location was also not suitable for the project's aim because it has lower environmental and social problems that need to be addressed.

Based on the field observation, a suitable location for project implementation is the Karang Mumus riverbanks near the Segiri Market. And as the conclusion of this field survey, the Head of the Environment Office will report it to the Mayor of Samarinda and discuss it with the project team.

2. Meeting Summary with the Mayor of Samarinda

Attendance:

/ teen					
<u>No.</u>	Name	Position			
<u>1.</u>	H.E. Mr. Syaharie Ja'ang	Mayor of the City of Samarinda			
<u>2.</u>	Dr. Sugeng Chairuddin	City Secretary of the City of Samarinda			

<u>3.</u>	Mrs. Nina Endang Rahayu	Assistant II for the Mayor of the City of Samarinda
<u>4.</u>	<u>Nurrahmani</u>	Head of Environmental Office, City Government of Samarinda
<u>5.</u>	Rosana	Head of Pollution Control and Environmental Damage (PCED) Department, Environmental Office, City Government of Samarinda
6. Idfi Septiani		Head of Public Relations, the Regional Secretariat the City of Samarinda, City Government of Samarinda

Meeting Notes:

*The field visit to the City of Samarinda was conducted during the COVID-19 pandemic. All attendance during the field visit is following the strict health protocol.

During the meeting with the Mayor of the City of Samarinda, the proposal team presents the field observation result. The aims of the meeting to get the same perception between the city government and the project team. The perception alignment is crucial to put the proposal in line with the city government's future development plan, so the proposal's result will be sustainable in the future.

The other thing that the proposal team discusses in this meeting is the methods used for the project. The approach that will be implemented is a bottom-up method that will focus on participation and collaboration. This approach will put the public as an active subject, not just the proposals or projects' object. It means that the design process will be based on observation, discussion, the public's input, or in other words, all the phases of programming and designing will be produced in Samarinda and with the public. The proposal team will not bring any program or design to the Samarinda; we will use a blank sheet.

The Mayor of the City of Samarinda has agreed with the proposals' ideas and will give full support to the proposal team. The Mayor of the City of Samarinda also instructed the City Secretary of Samarinda and Assistant II to the Mayor of Samarinda to help, support, and convoy the program and align with the program be implemented in Samarinda.

The meeting's conclusions are:

- the Mayor of Samarinda asked for a regular meeting between the proposal team and the City Government of Samarinda, and it will lead by the City Secretary of Samarinda,
- the City of Samarinda will provide all data that will be needed by the proposal team, and the Head of Environmental Office will be the person in charge,
- the City Government of Samarinda will facilitate the process of discussion between the proposal team with all the stakeholder inside the city government, and
- the City Government of Samarinda will follow-up on several processes that need to be done
 in the field.

3. Meeting Summary with the Youth Group

Attendance:

<u>No.</u>	Name	Position
<u>1.</u>	Rachel I. T.	Sajen Group
<u>2.</u>	Adi Chandra	Sajen Group Owner
<u>3.</u>	Yogi Septiawan	Ngegass Group Owner
<u>4.</u>	<u>Christian</u>	Airo Water
<u>5.</u>	Ryanto Chaniago	Karma Industries

c	Idfi Septiani	Head of Public Relations, the Regional Secretariat the City of
<u>b.</u>	<u>Idn Septiani</u>	Samarinda, City Government of Samarinda

Meeting Notes:

*The field visit to the City of Samarinda was conducted during the COVID-19 pandemic. All attendance during the field visit is following the strict health protocol.

The youth group meeting talks about bringing economic value and developing a creative economy in line with the proposal idea. Not only that, during the meeting, but we also discuss the engagement with the youth, how they can contribute since the early phase of the program.

This phase is essential since the process of climate change adaptation must be supported by all and giving both benefits to the environment and humans. The youth was giving the idea of how the river can use not only a river but also the centre of attention; by doing that, people will start to think of the river as their asset.

Meeting conclusion, the youth group agrees to work together with the proposal team to involve the process actively.

Meeting Summary with Woman and Vulnerable

Meeting Notes:

The field visit to the City of Samarinda was conducted during the COVID-19 pandemic. All attendance during the field visit is following the strict health protocol.

Meeting with women and other vulnerable groups was talking about what they understand about climate change and adaptation to climate change. This question triggers the discussion about the necessary infrastructure that they hope can support them in adapting climate change, how they see their daily life in reality. During the field observation, the team found out that their not enough facility can be used both by women and children.

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