



An integrated approach to urban climate change adaptation

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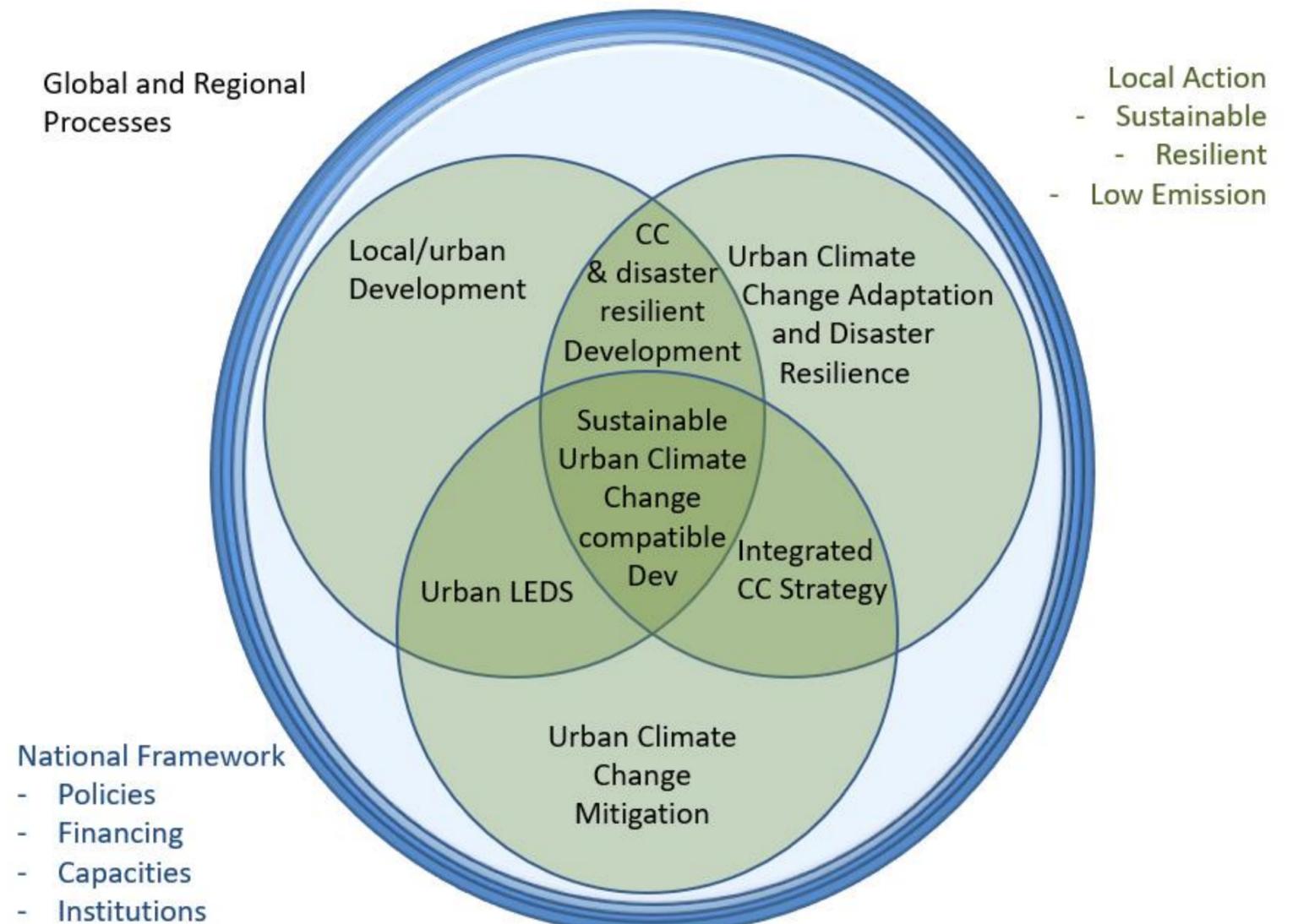
**Spatial Planning
Platform Meeting**

Hyakunenkan, Seinan Gakuin University

The many dimensions of integration

- international frameworks
- multi-level governance
- multi-sectoral approach
- climate change and DRR
- adaptation, mitigation & sustainable development
- financing
- the needs of specific groups
- ...and of course the spatial dimension

UN-Habitat's climate action support framework

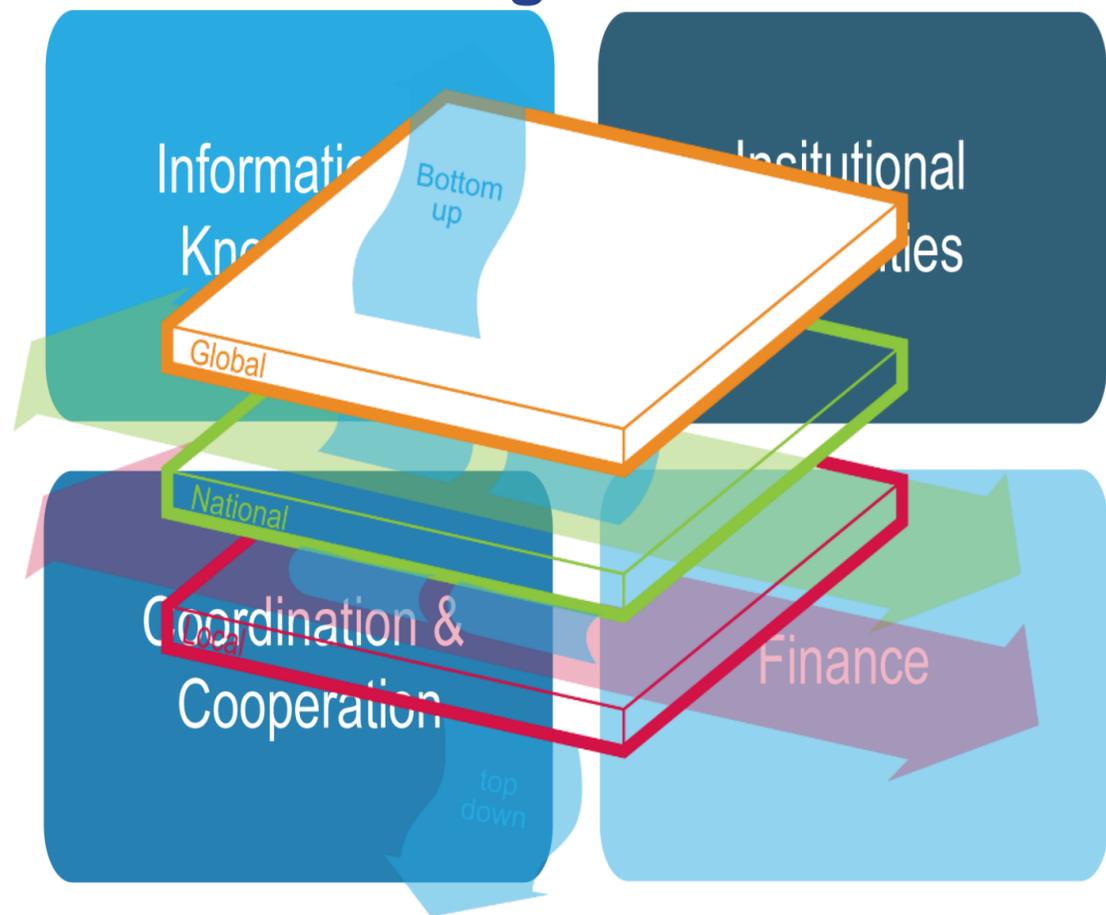




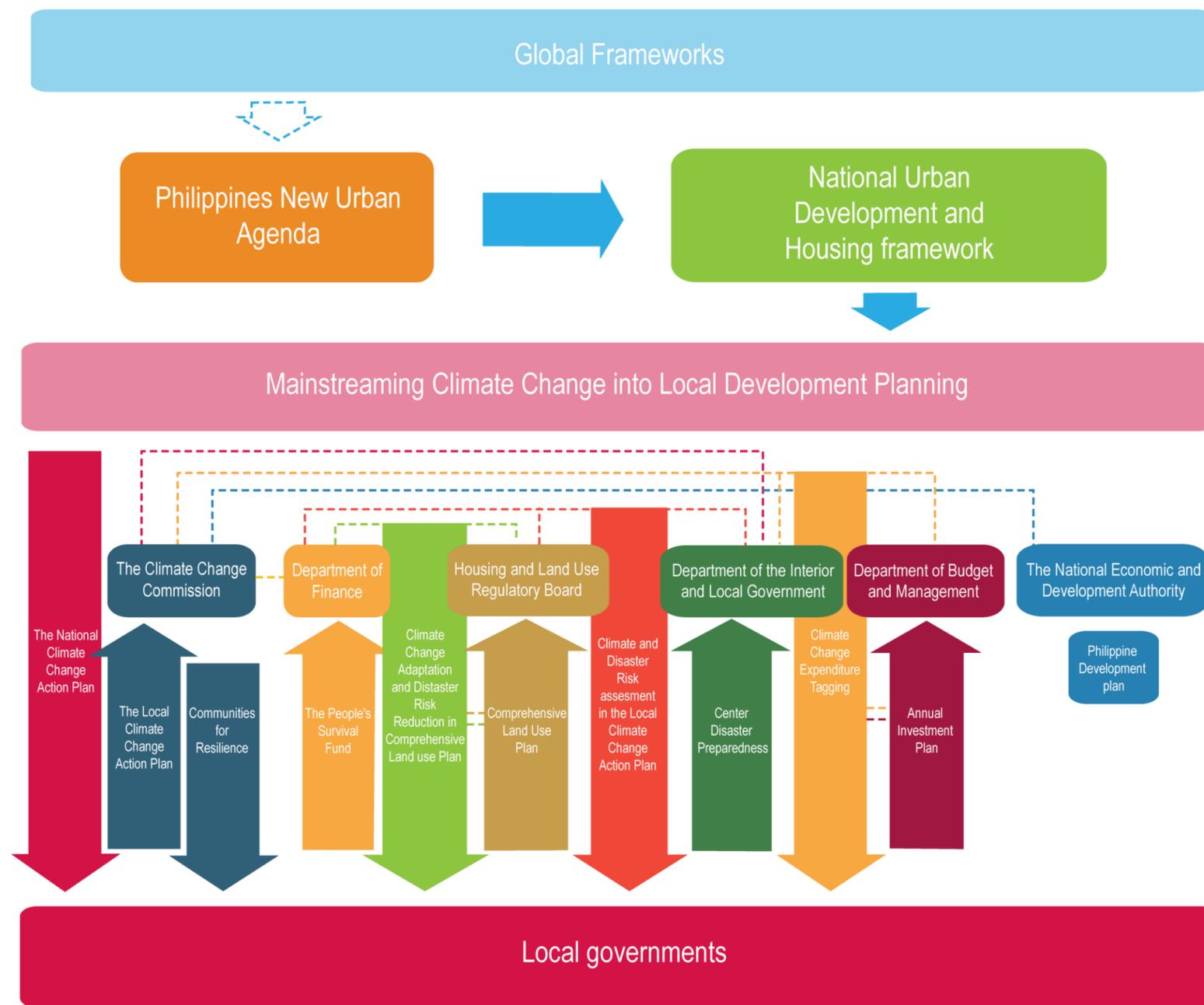
	March 2015	September 2015	December 2015	October 2016
<i>Date</i>	March 2015	September 2015	December 2015	October 2016
<i>Title</i>	Sendai Framework	Sustainable Development Goals	Paris agreement	New Urban Agenda
<i>Logo</i>				
<i>Aim</i>	Increase countries' resilience to disasters / disaster risk reduction	Comprehensive development agenda	To keep global temperatures from rising above 2 degrees Celsius	Sustainable urban development
<i>Climate Change and Urban components</i>	<ul style="list-style-type: none"> ● Increasing number of countries with local and national disaster risk reduction strategies ● Reduce global disaster mortality and effected people ● Reduce disaster economic loss and disaster damage to critical infrastructure ● Increase the availability to and access of multi-hazard early warning systems, disaster risk information and assessments 	<ul style="list-style-type: none"> ● Increase the number of settlements adapting and implementing strategies on climate change and disaster resilience ● Reduce number of casualties and people effected by economic losses ● Access for all to adequate safe and affordable housing / basic services + upgrade slums and transport systems ● Access to safe, inclusive green public spaces ● Reduce environmental impact of cities (air quality, waste etc.) 	<ul style="list-style-type: none"> ● Increasing the ability to adapt to the adverse impacts of climate change ● Foster climate resilience and low greenhouse gas emissions development ● 30 Nationally Determined Contributions with a strong urban content. (Latin Am.: 4, Africa: 11, Middle East: 2, Asia Pac: 13) ● 65 Nationally Determined Contributions with a moderate urban content. (Latin Am.: 16, Europe: 2, Africa: 27, Middle East: 11, Asia Pac.: 9) 	<ul style="list-style-type: none"> ● Provide mechanism to implement local agendas ● Addressing climate change by reducing green house gas emissions ● Strengthening urban resilience to reduce the impact of disaster Improve connectivity and support green initiatives ● Promote safe, accessible and green public spaces ● Supporting cleaner cities ● Provide basic services ● Means of implementation: governance, capacities, finance, planning, partnerships



Multilevel Governance vertical and horizontal Integration



Mainstreaming Climate Change in the Philippines





CLIMATE CHANGE AND NATIONAL URBAN POLICIES IN ASIA AND THE PACIFIC

A REGIONAL GUIDE FOR INTEGRATING CLIMATE CHANGE CONCERNS INTO URBAN-RELATED POLICY, LEGISLATIVE, FINANCIAL AND INSTITUTIONAL FRAMEWORKS



	I) Substantive process	II) Resource & Capacity Assessment & Development	III) Urban & Climate Related Policy Alignment	IV) Institutions & Stakeholders
Phase A: Feasibility & Diagnosis	<ul style="list-style-type: none"> Identify drivers (WHY) you want to mainstream climate change action into urban policy Identify urban-related climate change issues, mainstreaming objectives & climate change actions (WHAT) Diagnose if examples of climate change mainstreaming into national urban policies in other countries or climate change concerns mainstreamed into other policies in your country (e.g. other sectors or sub-national level) Identify other cross-cutting issues (e.g. gender) that could additionally be mainstreamed in your policy and mainstreaming process of your country on other topics from which you can learn Map out your individualised mainstreaming process using the Framework (HOW) Research existing monitoring & evaluation methodologies & potentially adapt Propose baseline indicators for measuring progress against mainstreaming goal & interim milestones & draft M & E Plan Draft the diagnosis paper based on your mainstreaming process map <p>The goals, substance & main steps of the mainstreaming process (including M&E) have been clearly articulated in the diagnosis paper</p>	<ul style="list-style-type: none"> Identify core teams for feasibility & diagnosis, formulation, implementation & M & E phases of mainstreaming process (WHO) Assess availability & gaps in needed human, financial, informational, institutional & other resources for undertaking the mainstreaming process and develop strategy for additional financing & capacity development (if needed) <p>The necessary (human, financial) resources & institutional commitments for the mainstreaming process have been secured</p>	<ul style="list-style-type: none"> Identify relevant sectors in international frameworks linked to urban development and climate change with relevance for urban context Identify relevant national & sub-national urban related documents, including stage of National Urban Policy development, & check if climate change mainstreamed Identify relevant national and sub-national climate policy, strategies & frameworks that have relevance in urban context & check if urban-related concerns sufficiently covered Analyse SMDT, including gaps in the above-mentioned 'body of documents' vis-à-vis climate responsive urban development to identify entry points, cross-referencing opportunities & priority needs for mainstreaming Analyse status & relationship degree of alignment of above documents to each other, including respective international & domestic, public & private financing mechanisms Identify urban policy documents into which to mainstream climate change actions (WHERE) & outline mainstreaming context - or how climate change can drive development of new NUP <p>The urban policy documents into which to mainstream have been identified & an associated outline has been drafted (or in case of new climate responsive NUP) has been drafted from scratch as part of a discussion paper</p>	<ul style="list-style-type: none"> Map relevant institutional landscape (government), including responsibilities under documents in A2) & identify potential mainstreaming champions Map relevant key stakeholders (outside government), & identify potential mainstreaming champions Determine potential means & level of engagement of all relevant institutions & key stakeholders based on capacities & interest (HOW, WHAT) Agree with institutional partners & key stakeholders on participation strategy for mainstreaming process, including potentially forming a reference group (WHO) <p>Consensus has been reached with institutional partners & other stakeholders on content & process for mainstreaming policy formulation & implementation as proposed in the discussion paper</p>
Phase B: Formulation	<ul style="list-style-type: none"> Decide where & how to insert mainstreaming content in policy proposal (e.g. information linked to analysis of situation & trends, as well as sectoral & issues discussions & agreed measures/ actions) or draft from scratch (if new NUP) Draft text, ensuring that proposed climate change actions or climate adjusted existing urban development actions based on clear & realistic work plans, account for budgeting needs & include stakeholder considerations Conduct periodic monitoring & evaluation as per plan developed in Phase A: Preparation Undertake implementation analysis to understand legislative & administrative landscape <p>The drafting process has been well planned and executed & an implementation analysis has been included in the policy proposal</p>	<ul style="list-style-type: none"> Create detailed formulation plan, including timeline, work responsibilities & budget for policy formulation process by core team & reference group Undertake capacity development activities of core team or reference group if needed Ensure institutions are ready to implement mainstreamed policy documents/ NUP through capacity gap assessment (human, technical, financial, informational) of implementing agencies <p>The core team & the wider reference group has clear assignments & capacity to complete them in time & with high quality, including periodic M&E</p>	<ul style="list-style-type: none"> Newly formulate or revise NUP/ identified policy documents to mainstream climate change, including clear indication of what other documents need to be aligned & an estimation for budget needs & other resources to implement the mainstreaming objectives Align national policy targets with international framework targets & indicators, as well as review and reporting requirements as far as possible Ensure institutions are ready to implement mainstreamed policy documents/ NUP through capacity gap assessment (human, technical, financial, informational) of implementing agencies If appropriate in country context, assist with aligning urban legislation & sectoral & sub-national policies & plans with climate mainstreamed national policy, as well as with other projects & initiatives that function as implementation mechanisms <p>Text of policy proposal has been either newly formulated or adapted to include all climate responsive language by evidence an climate change goals & trends & impact of planned climate change actions, & C) concrete mainstreaming objectives & climate change actions - by sectors & of national & sub-national levels</p>	<ul style="list-style-type: none"> Include relevant institutions & key stakeholders during formulation process (e.g. agreed during preparation, capacity linked to analysis of challenges & opportunities & the detailed proposals for concrete measures/ actions) <p>Participating institutions & stakeholders support formulation of changes & are ready to support implementation</p>
Phase C: Implementation	<ul style="list-style-type: none"> Facilitate the process of having the policy proposal sanctioned/ adopted/ agreed by the respective oversight/ decision-making bodies in line with country-specific requirements Continuously monitor process & outcomes of implementation, & create feedback mechanisms to inform future policy cycles (responsibilities defined, clear progress indicators, analysis of downstream policy documents, regular meetings with reference group & key stakeholders) <p>The process of adopting and operationalizing the policy has been completed</p>	<ul style="list-style-type: none"> Create detailed implementation work plan on support/ coordination/ oversight by core team & wider reference group Support resource mobilization for implementation of mainstreamed climate actions, considering domestic, international, private & public, financing sources & mechanisms & support measures to channel financial resources to national & sub-national implementing bodies Develop capacities of sectoral & sub-national implementing bodies if mandated & needed (including on how to access climate financing & support institutionalization of capacity building processes where possible) <p>All necessary resources & capacity development for successful implementation have been provided to all key implementers</p>	<ul style="list-style-type: none"> Newly formulate or revise NUP/ identified policy documents to mainstream climate change, including clear indication of what other documents need to be aligned & an estimation for budget needs & other resources to implement the mainstreaming objectives Align national policy targets with international framework targets & indicators, as well as review and reporting requirements as far as possible If appropriate in country context, assist with aligning urban legislation & sectoral & sub-national policies & plans with climate mainstreamed national policy, as well as with other projects & initiatives that function as implementation mechanisms <p>All linked ('downstream') documents have been aligned with new climate responsive national urban policy, enabling access to their implementation of urban-related climate change actions</p>	<ul style="list-style-type: none"> Facilitate delegation of roles & responsibilities to sectoral & sub-national implementing bodies Define roles & responsibilities for stakeholders & facilitate institutionalization of coordination processes (e.g. development of standards & procedures for stakeholders) if possible <p>All relevant government bodies & non-governmental stakeholders actively & inclusively contributed to policy adoption & operationalization, while their roles have been clarified & if appropriate institutionalized</p>
Phase D: Evaluation	<ul style="list-style-type: none"> Evaluate if mainstreaming process has been effective & inclusive Evaluate if policy proposal sanctioned/ adopted/ agreed by the respective oversight/ decision-making bodies Evaluate if climate-responsive national urban policy has been operationalized with follow-on policies, legislation, plans etc. Plan or encourage evaluation of whether the mainstreamed/ new national urban policy has enabled implementation of urban-related climate change actions <p>Evaluation process has been implemented & institutionalized including all relevant government bodies & stakeholders</p>	<ul style="list-style-type: none"> Evaluate if capacity building had desired impact & reached the right people Evaluate if climate responsive national level urban policy aligned with local, national & global financing opportunities 	<ul style="list-style-type: none"> Evaluate if mainstreaming process of national urban policies fully considering existing sectoral & sub-national policies & legislation Evaluate if mainstreamed urban policies aligned with targets, indicators, monitoring & review of international frameworks 	<ul style="list-style-type: none"> Evaluate if institutional roles, responsibilities, coordination clear & process is functioning Evaluate if all key stakeholders were meaningfully involved throughout, their resources were effectively incorporated & their needs met
	<p>Output Phase D: Evaluation: EVALUATION REPORT, whose content has been agreed by key institutions & stakeholders and institutionalized (e.g. periodic evaluation & review of policy impacts with view to if necessary, the national urban policy process)</p>			

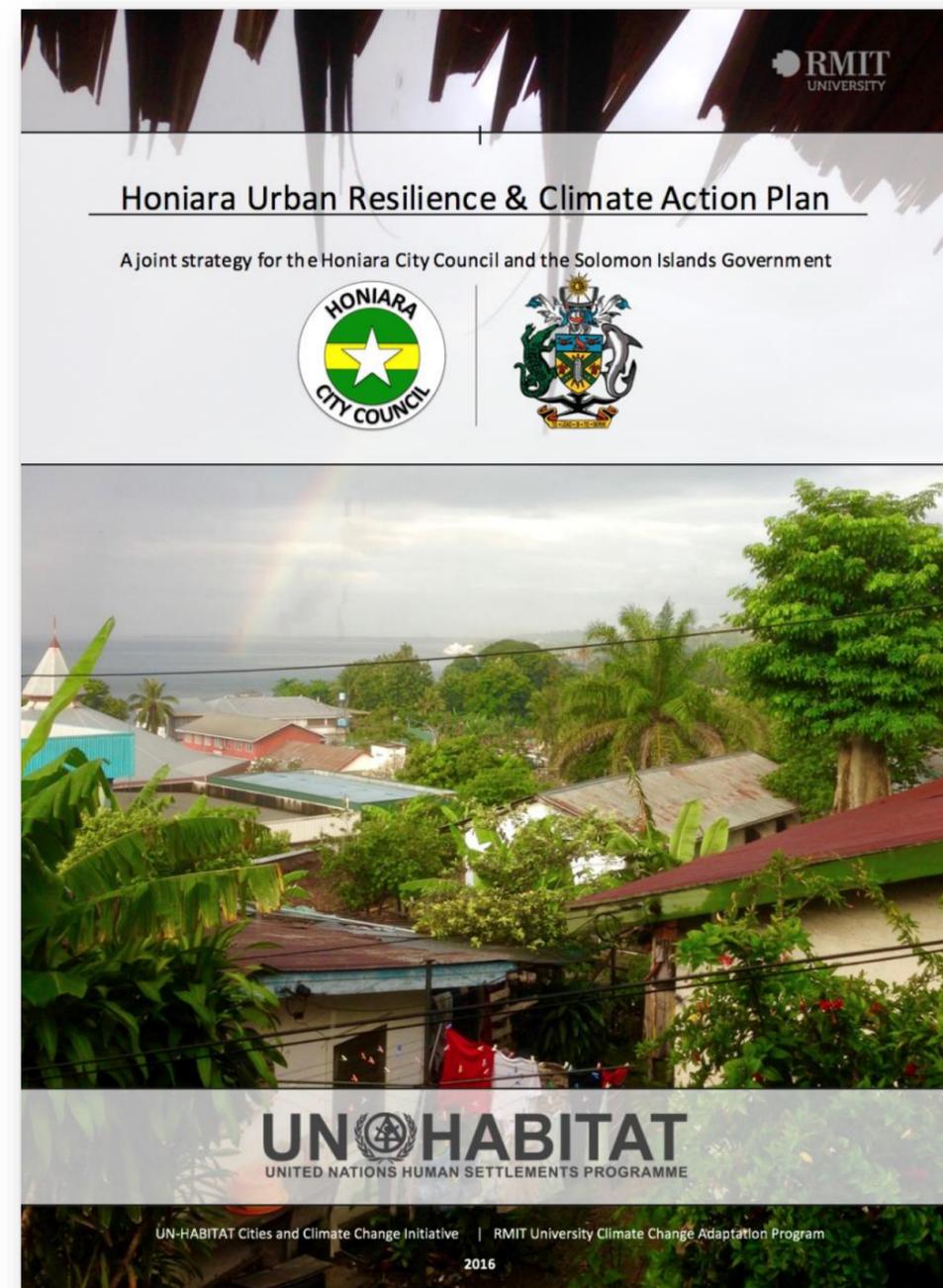


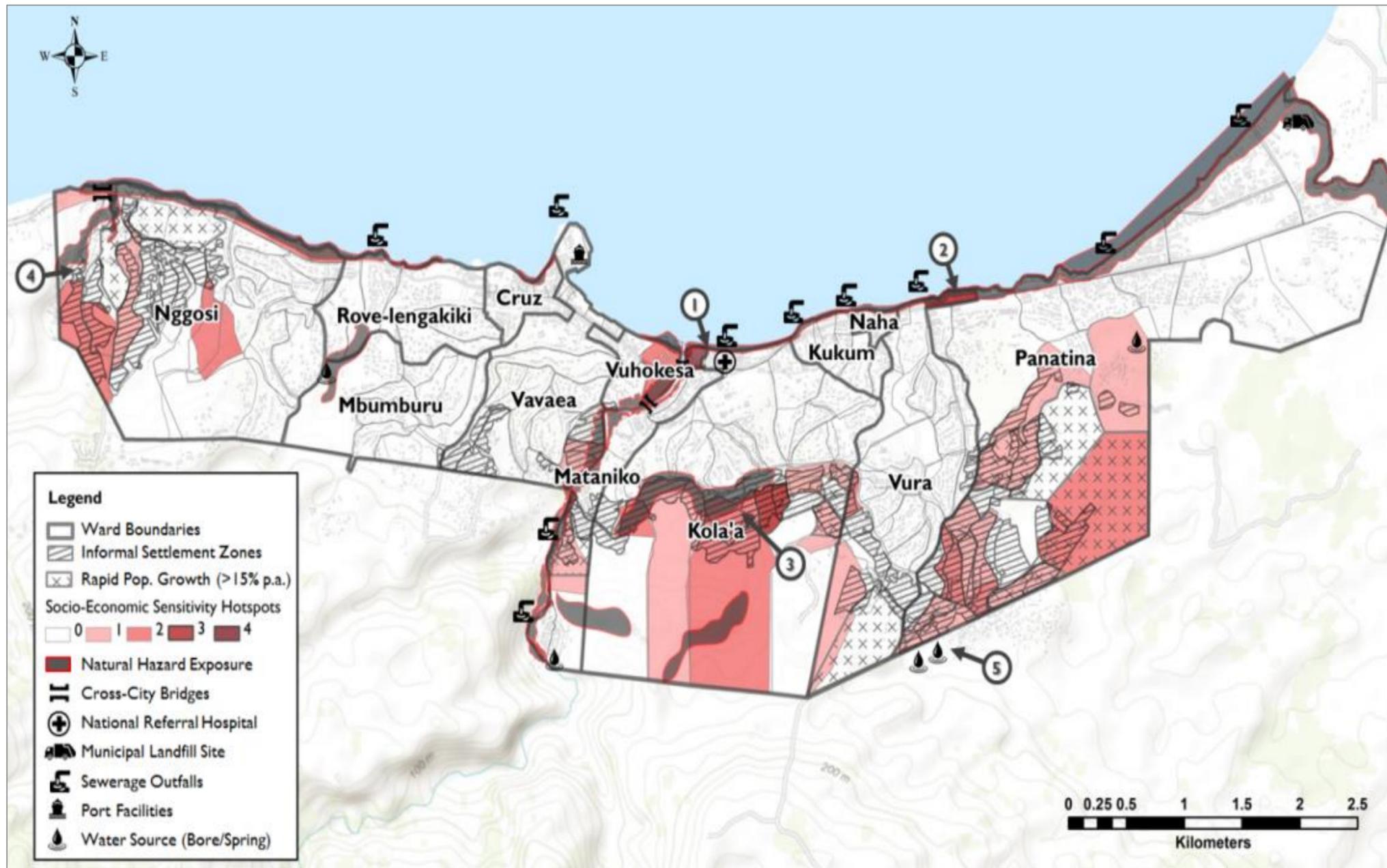
10 City-wide entry points:

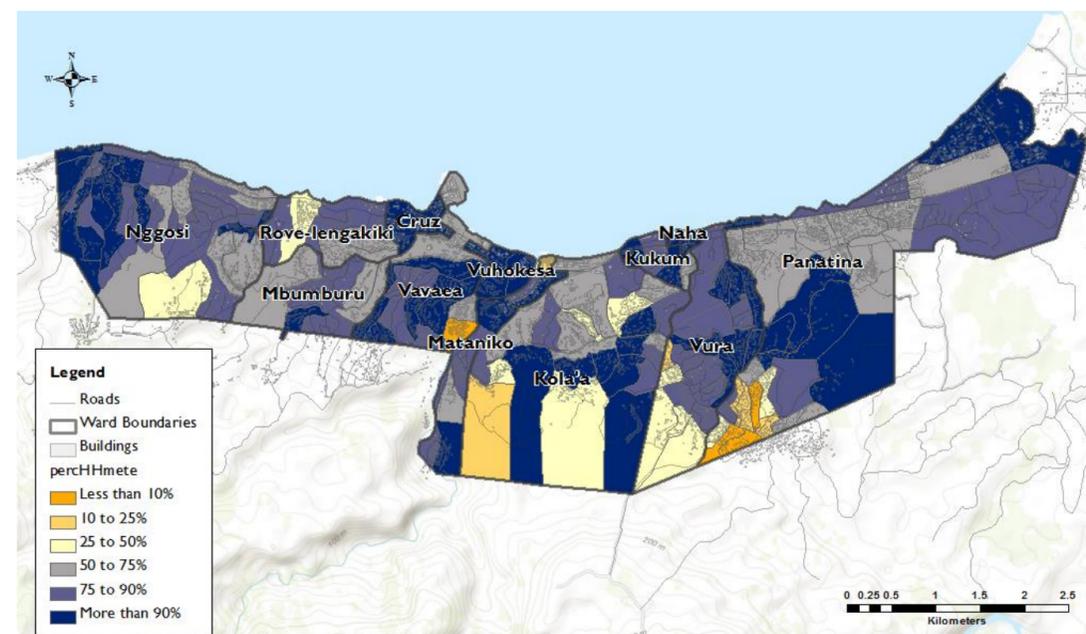
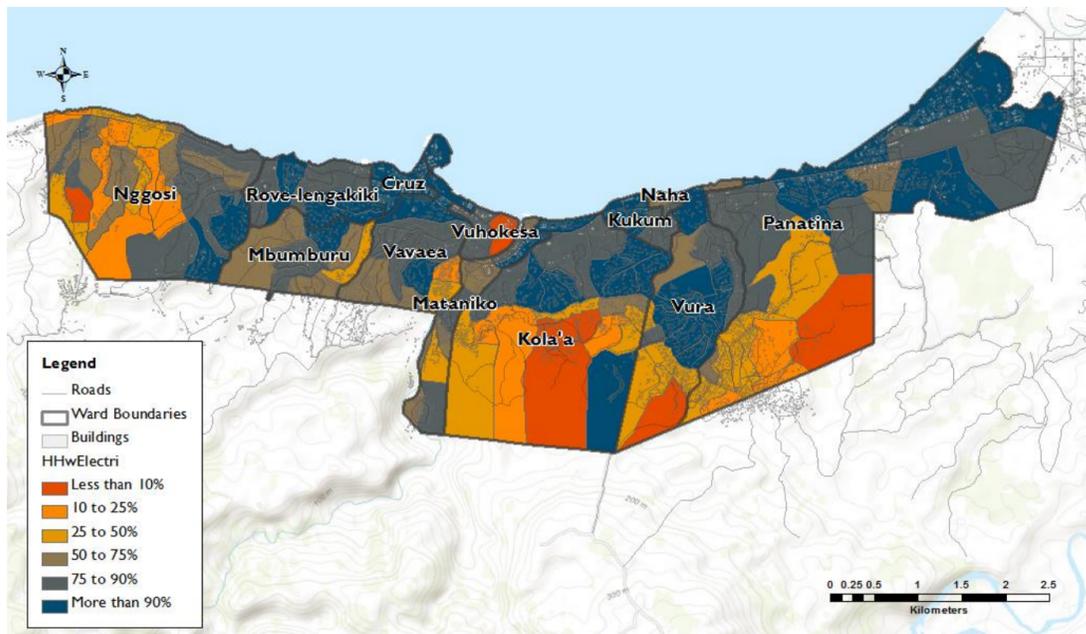
- Urban Planning and Land
- Housing
- Infrastructure
- Water, Sanitation and Waste
- Ecosystems and Coastal Protection
- Human Health and Well-being
- Communication, Awareness
- Livelihoods
- Disaster Response
- Governance and Partnerships

3 Levels

- City
- Ward
- Hotspot communities







Tenure

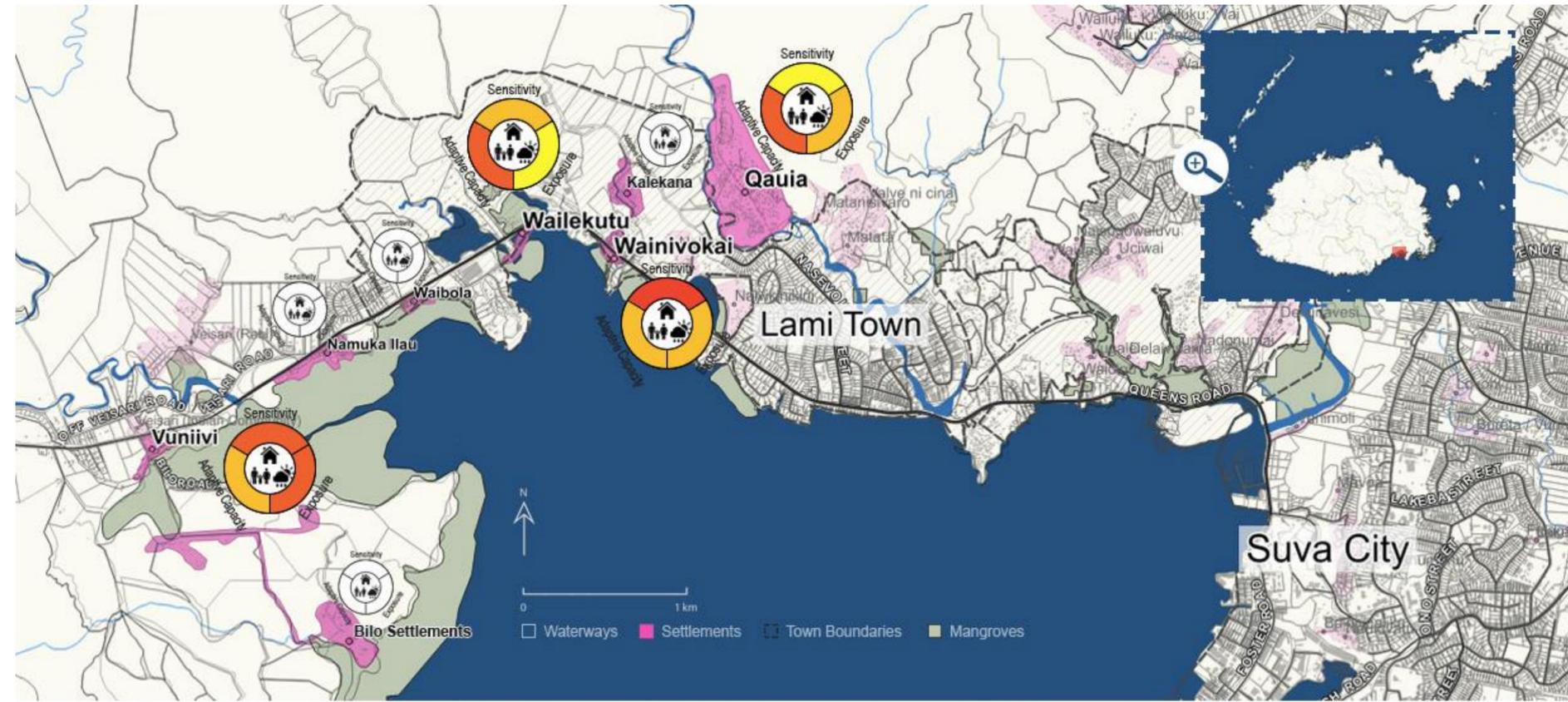
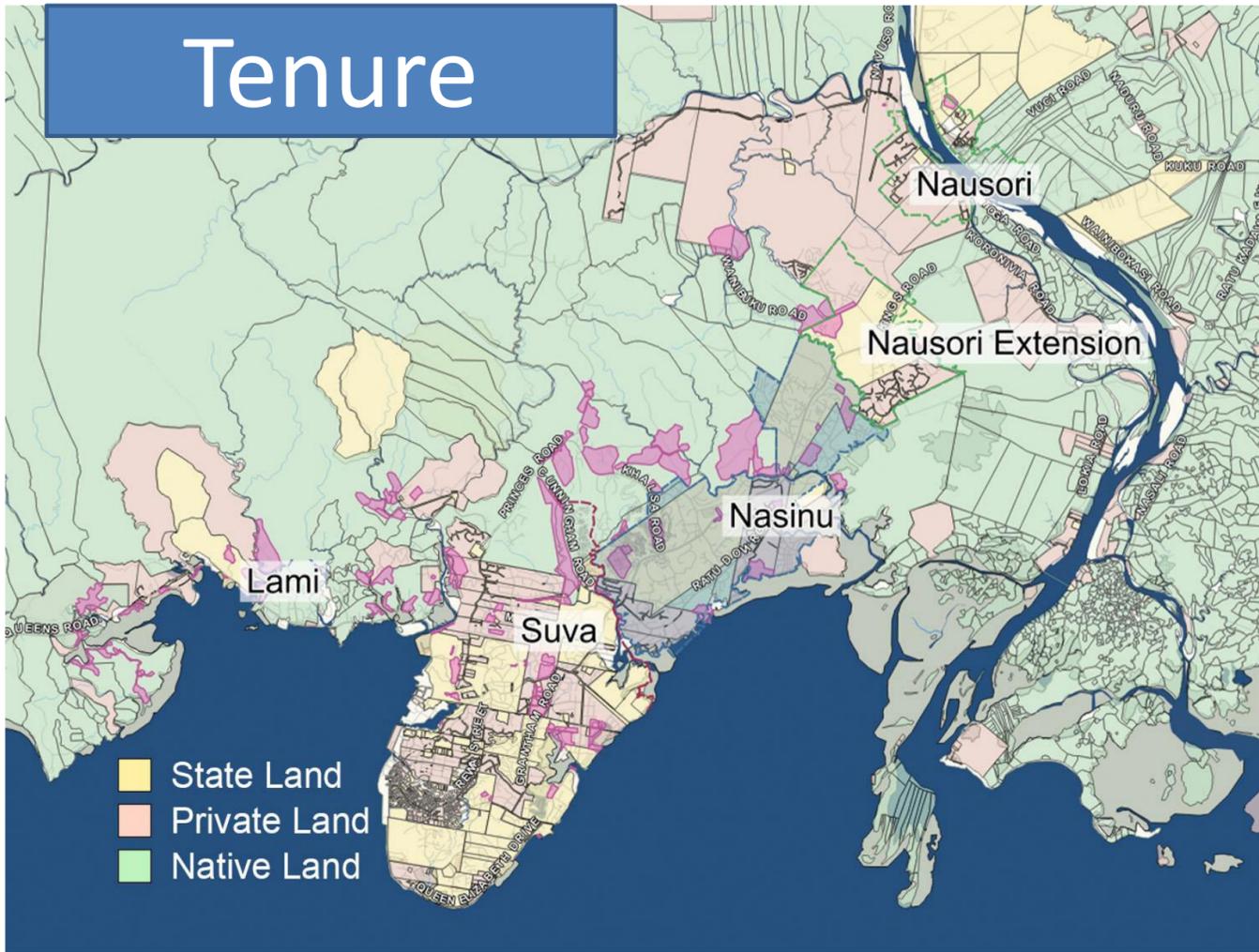


Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

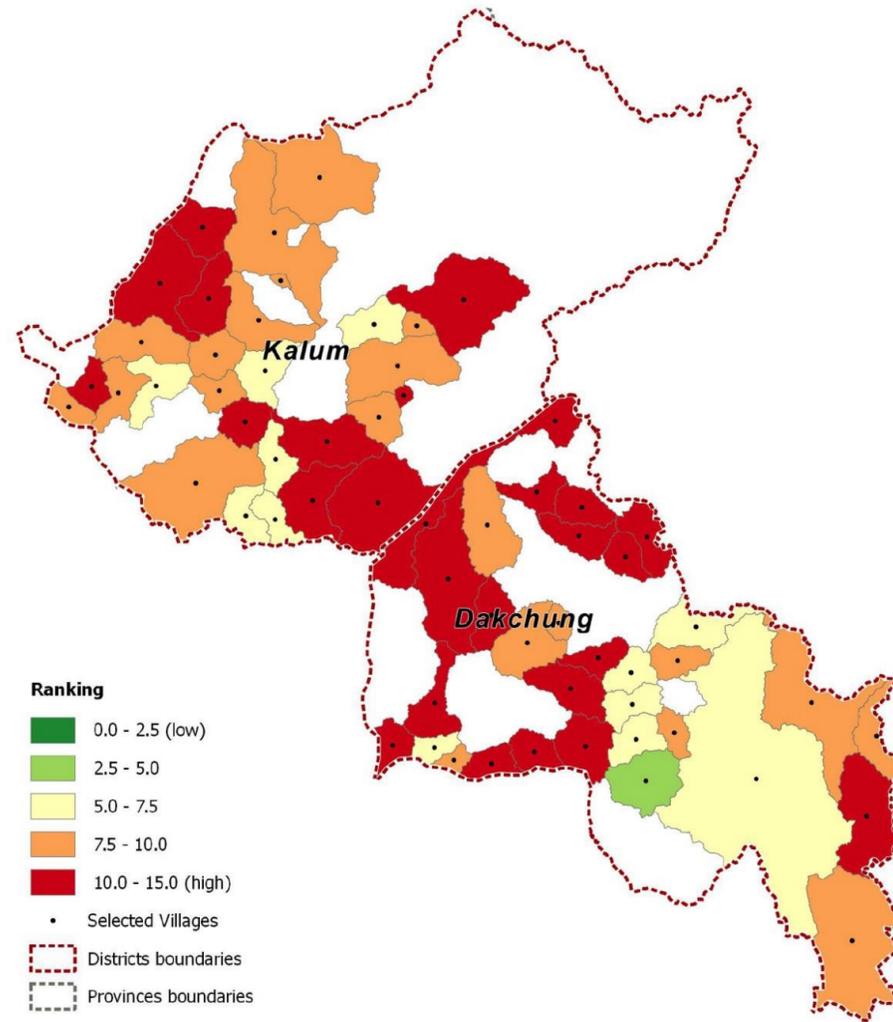
Fig. 8.



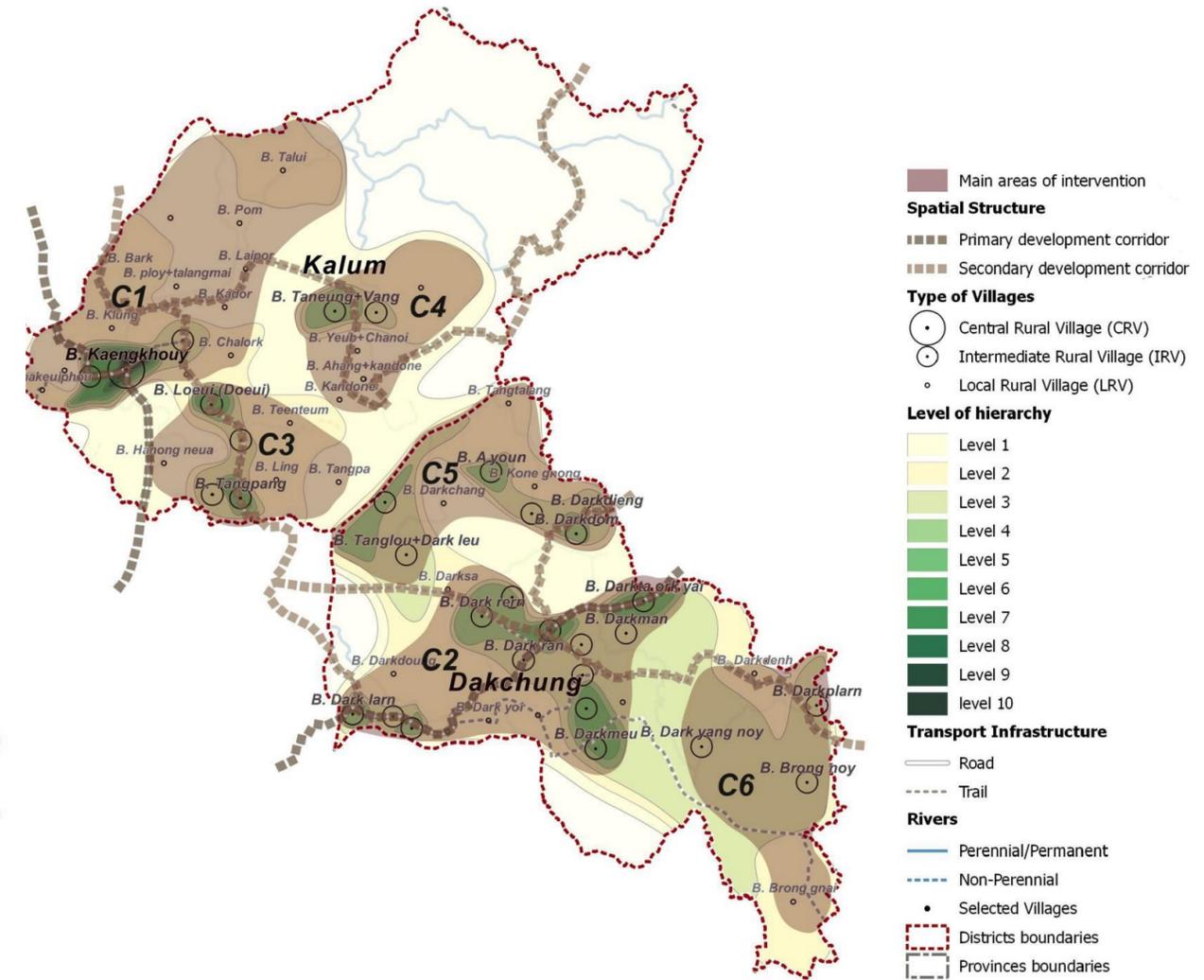
TERRITORIAL LINKAGES AND SPATIAL STRUCTURE



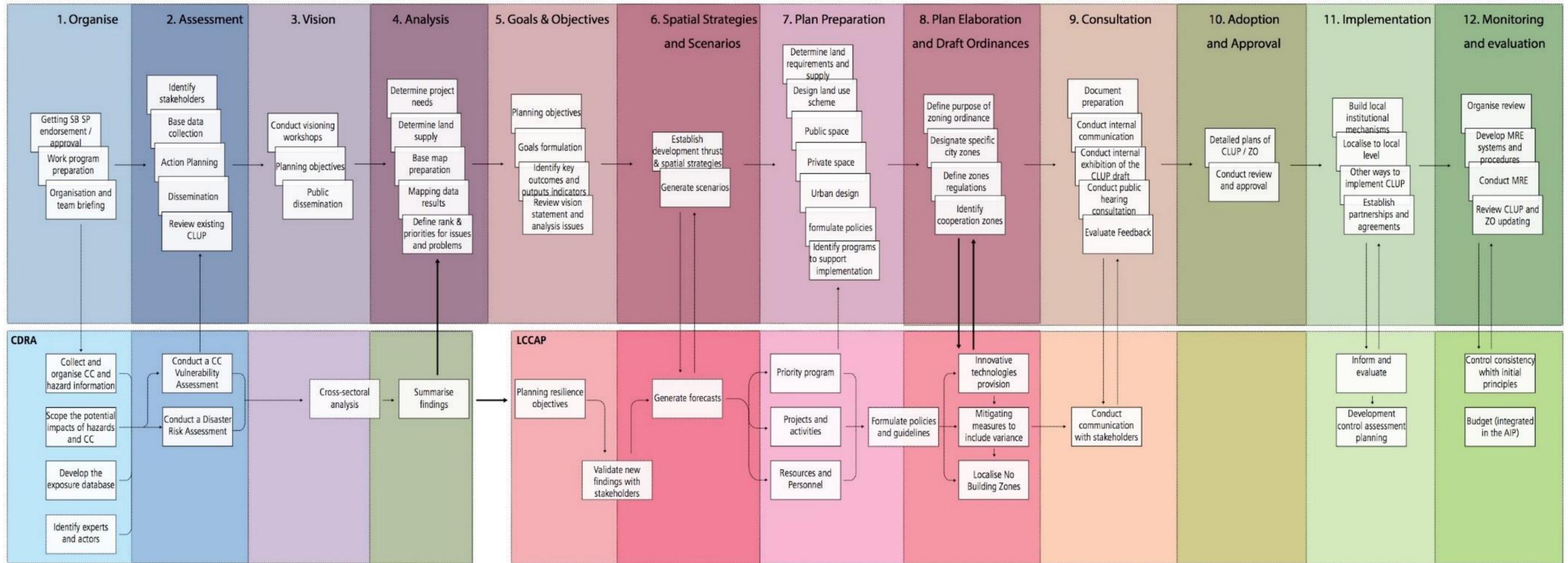
Vulnerability Index (village level)



Clustered Interventions



Philippines Comprehensive Land Use Plan Development



Climate Change and Disaster Risk Assessment

Local Climate Change Action Plans



Integrating climate change into spatial plans

UN  **HABITAT**
FOR A BETTER URBAN FUTURE