



Adapting Cities to Climate Change in East Asia

CLIMATE ADAPTATION



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East Asia Summit – 2nd High Level Seminar on Environmentally Sustainable Cities

Sustainable Cities and Coasts

Extreme Events –
• inundation
• wind damage
• bushfires
• heat waves



1. Adaptation Engineering
2. Coastal Vulnerability and Planning
3. Sustainable Urban Development
4. Urban Environmental Health
5. Community Adaptation and Resilience
6. Sustainable Use of Natural Resources

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Climate Adaptation through Sustainable Urban Development

To understand how water and wastewater services will be impacted by climate change and, through effective engagement develop adaptive urban planning responses for the case study cities



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Research for Development in Partnership

- inform and influence decisions on investment (immediate and longer term)
- link climate change impact analysis to urban planning (focus on water and wastewater service provision)
- build capacity in local institutions to support integrated planning of water infrastructure that is adapted to anticipated climate change impacts
- guide broader AusAID investment in the region across a wider set of urban challenges

CSIRO AusAID
Research for Development Alliance
A joint project



Australian Government
AusAID



Institute for Sustainable Futures



UNIVERSITY OF TECHNOLOGY SYDNEY

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Integrated Urban Water Management (IUWM)

IUWM is an approach for urban water utilities to plan and manage urban water systems by looking at the overall urban water cycle, including:

- water supply
- wastewater
- stormwater systems

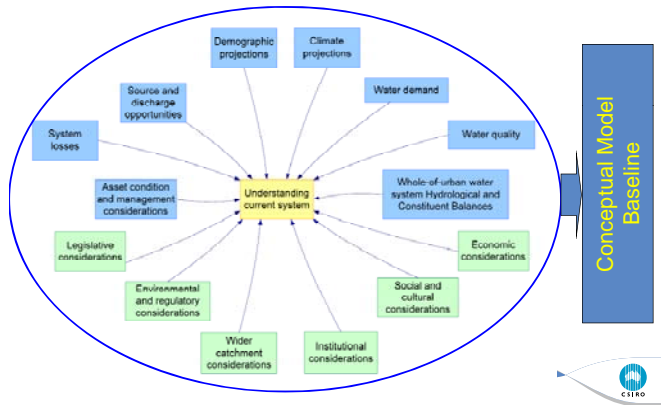


(Maheepala, 2010)

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Understanding current system



Outputs and Outcomes

- Knowledge of climate change impacts on water resources and water infrastructure
- Methodology for development of alternative urban water servicing options under climate change scenarios
- Revised urban development plans that incorporate climate change
- Prioritised investment in water and wastewater infrastructure
- More sustainable provision of water and wastewater services

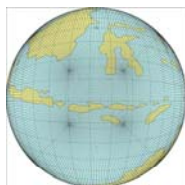


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Impacts to date

- Fine resolution climate simulation (Makassar)
- Capacity building
 - Training workshop
 - Research capacity
 - Student scholarships
- Collaborative learning



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Success

- More effective use of data and tools to measure performance of cities and urban development proposals
- Urban planning and development decisions utilise our science
- Implementation of practical options through urban development processes to increase adaptive capacity of cities



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Thank you

Climate Adaptation Flagship
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