



Urban Climate Change Adaptation and Resilience Training

23-27 May 2016 • Singapore

Draft Programme as of 24 February 2016

Day 01 – Monday, 23 May 2016

Location: Singapore Environment Institute (SEI)
1 Kay Siang Road #08-01 Singapore 248922

09:00 **Meet at the XXX Hotel Lobby**
Travel to SEI

09:30 - 10:00 **Introduction, Course Objectives and Introduction of Participants**

10:00 – 10:30 **Welcoming Remarks**

- MFA – tbc
- CDIA – Joy Bailey
- USAID Adapt Asia Pacific - tbc

10:30 – 11:00 **GROUP PHOTO**

WELCOME RECEPTION

INTRODUCTORY KNOWLEDGE ON RESILIENT CITIES

11:00 – 12:00 **Module 1. An introduction to Climate Change Resilience**

The module discusses the concept of resilience and the need for building adaptive capacity to cope with the impacts of climate change. It also introduces the systems approach for thinking about urban areas as sites of complex interaction between places, people, institutions, and physical infrastructure

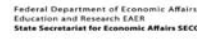
12:00 – 13:00 **Module 2: Understanding Climate Change and Local Impacts**

This provides a general overview of climate change at the global scale, along with some practical considerations regarding the models and assumptions that are used to develop projections of future climate conditions. Participants will develop a locally-specific description of the threats associated with a changing climate, as well as a generalized threat profile for their municipality or region. The module concludes with an overview of common first steps in developing climate change resilience strategies.

13:00 – 14:00 **LUNCH**



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14:00 – 14:45 **Module 2**
Activity: Identifying Primary Climate Change impacts in your City / Threat Profiling

14:45 – 16:15 **Addressing Climate Change in Singapore**

16:15 – 16:30 TEA BREAK

16:30 – 18:00 **Module 3. Scoping for Climate Change Adaptation and Resilience and Disaster Risk Reduction**

This module focuses on preparations for conducting a vulnerability assessment. These considerations include establishing a core team for conducting the assessment, deciding upon the scope and geographic scale of the assessment, determining the goals of the assessment, and selecting the tools and methods that will be used to conduct the assessment.

18:00 **End of Day 1**
Return to Hotel

Day 02 – Tuesday, 24 May 2016

Location: SEI

09:15 – 09:30 **Recap of Day 1**

09:30 – 10:45 **Module 4. Techniques for Vulnerability Assessment and Generating Climate Change Adaptation and Resilience Options**

This module discusses the steps for conducting a hybrid vulnerability assessment that includes both qualitative and quantitative methods. After prioritizing vulnerabilities, the second part of the module discusses how principles of resilience can be used to develop a portfolio of adaptation strategies to address identified vulnerabilities systematically. Working in groups, the participants will develop a range of options to address different aspects of the vulnerabilities they identified.

Activity: Estimating Exposure
Activity: Estimating Sensitivity

10:45 – 11:00 TEA BREAK

11:00 – 12:30 **Module 4**
Activity: Estimating Impacts
Activity: Estimating Adaptive Capacity

12:30 – 14:00 **Welcome Lunch Hosted by MFA**

14:00 – 17:00 **Site Visit**
(tbc transport or solid waste management related project)

17:00 – 17:30 **Reflective Debate: Methodological challenges observed during the training**

17:30 **End of Day 2**
Return to Hotel

Day 03 – Wednesday, 25 May 2016

Location: SEI

09:15 – 09:30 **Recap of Day 2**

09:15 – 10:45 **Module 4**
Activity: Prioritizing Vulnerability
Activity: Developing Strategies for Resilient Systems based on VA

10:45 – 11:00 TEA BREAK

11:00 – 12:30 **Presentation of Module 4 Outputs (15 minutes per city)**

12:30 – 13:30 LUNCH

13:30 – 15:30 **Module 5 Evaluating Strategies for Reducing Vulnerability and Mainstreaming Resilience**
The module provides guidance on how to develop evaluative criteria specific to the vulnerabilities and options identified in the fourth module. Participants will develop a list of evaluative criteria to apply to these options. Methods discussed include processes for group participation in the analysis of alternatives, such as multi-criteria analysis, cost benefit analysis, and Goeller scorecards.
Activity: Group Discussion on overcoming challenges in Mainstreaming Resilience

15:30 – 15:45 TEA BREAK

15:30 – 16:30 **City Infrastructure Investment Prioritization and Programming (CIIPP) Toolkit**
This session provides a walk-through of the toolkit consisting a spreadsheet (in excel) and a manual to assist local governments in the process of getting from a wish list of potential projects to a structured list of priority projects. –This CDIA tool uses a broad base of criteria to form a basis for objective decision-making and selection of projects

with a positive developmental outcome. It helps analyze the impact of projects on the local government budget and identify the financing gap.

16:30 – 17:30 Presentation from PUB on Meeting the Challenges of Singapore’s Stormwater Management Systems

**17:00 End of Day 3
Return to Hotel**

Day 04 – Thursday, 26 May 2016

Location: SEI

09:00 – 09:30 Depart and Travel to Alexandra Canal

**09:30 – 10:30 Site Visit
ABC Waters Learning Trail at the Alexandra Canal**

**10:30 – 12:30 Site Visit
Marina Barrage**

13:00 – 14:00 LUNCH

14:00 – 16:00 Module 6: Preparing Project Proposals to Access Climate Funds and Support

This module helps participants to develop coherent, bankable proposals for external support in the form of loans or grants. It presents the steps for developing a proposal such as detailing a problem/objectives tree, and a project logical framework.

16:00 – 16:15 TEA BREAK

16:15 – 17:00 Roundtable / Case Study on sharing lessons learned in preparing CCAR proposals

17:00 – 17:30 Pre-Feasibility Study (PFS)

This session elaborates on the overarching objective of a PFS to determine whether the proposed investment provides sufficient value to warrant the use of scarce resources (e.g. money, skills, time) and therefore whether it is worth proceeding to the next stage in the development process and conducting a full feasibility study.

**17:30 End of Day 4
Return to Hotel**

Day 05 – Friday, 27 May 2016

Location: SEI

09:15 – 09:30 **Energizer conducted by participant**

09:30 – 10:45 Linking to Project Finance

This session provides an introduction to Financial Statements and Cash Flow Analysis and a brief overview on alternative financing options to supplement their own sources of financing.

10:45 – 11:00 TEA BREAK

11:00 – 13:00 Module 7 Accessing Financing for Climate Change Adaptation and Resilience

The key objectives of this module are to describe different sources for financing climate adaptation and resilience, including international, national, and local sources; explain the basic goals and requirements of international climate adaptation funds; Identify appropriate roles the private sector can play in climate adaptation; Identify appropriate roles for different levels of government in seeking and using climate adaptation funds; and explain criteria for assessing the climate finance readiness of local governments.

13:00 – 14:00 LUNCH

14:00 – 14:45 Wrap-up Activity

14:45 – 15:00 Course evaluation

Evaluation of this training course

15:00 – 16:00 Closing Ceremony and Certificate Presentation

16:00 End of Programme
