Capacity building resources on ICT for resilience

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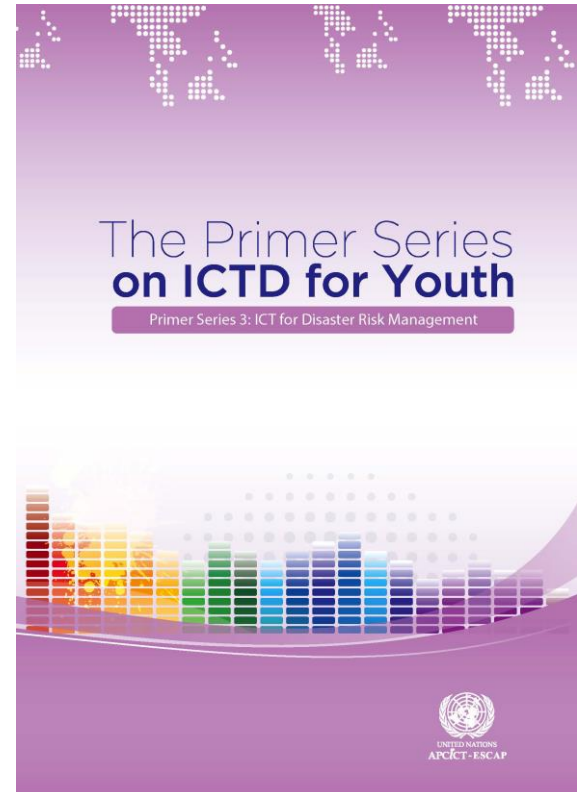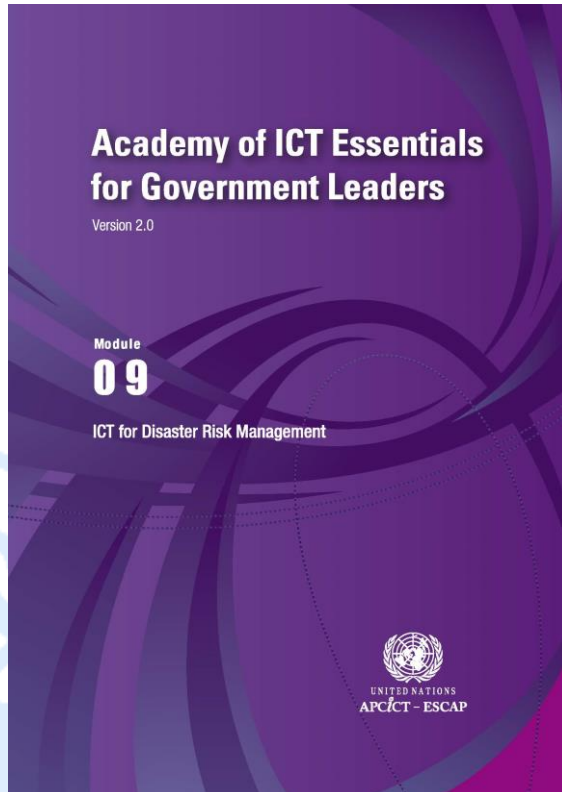
Resilient ICT Connectivity for the Knowledge Economy, SDGs and the WSIS Goals
Almaty, Kazakhstan
21 September 2016

ESCAP / APCICT

Background

➢ Great attention disaster events

➢ Better understanding of disaster risk and climate change impacts

➢ Coordinated preparedness and response

➢ Desire for integration of disaster risk and climate impact in development planning

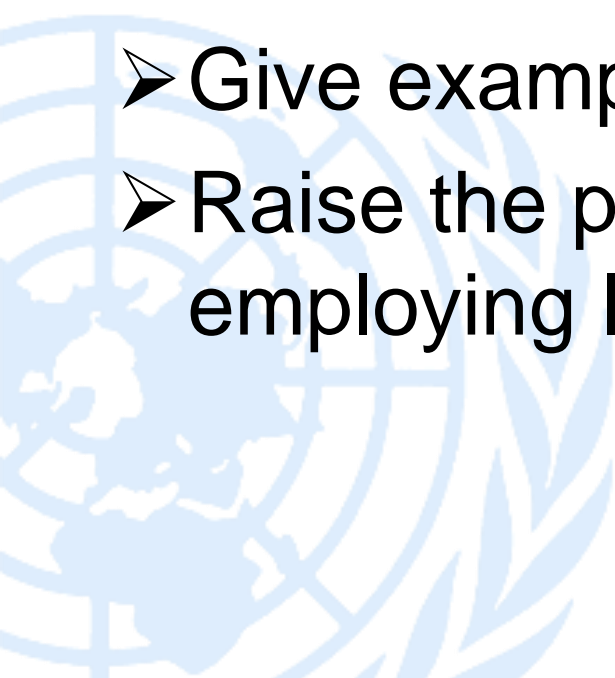➢ Continuous developments in information and communication technologies
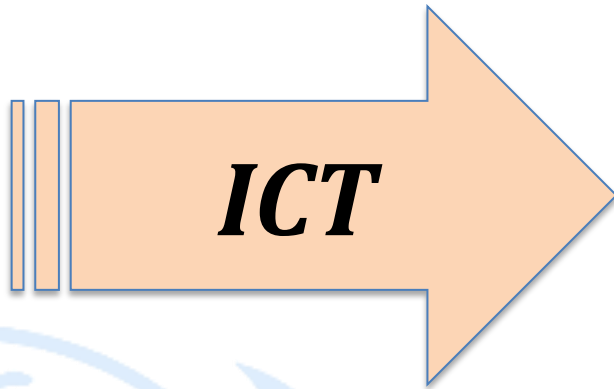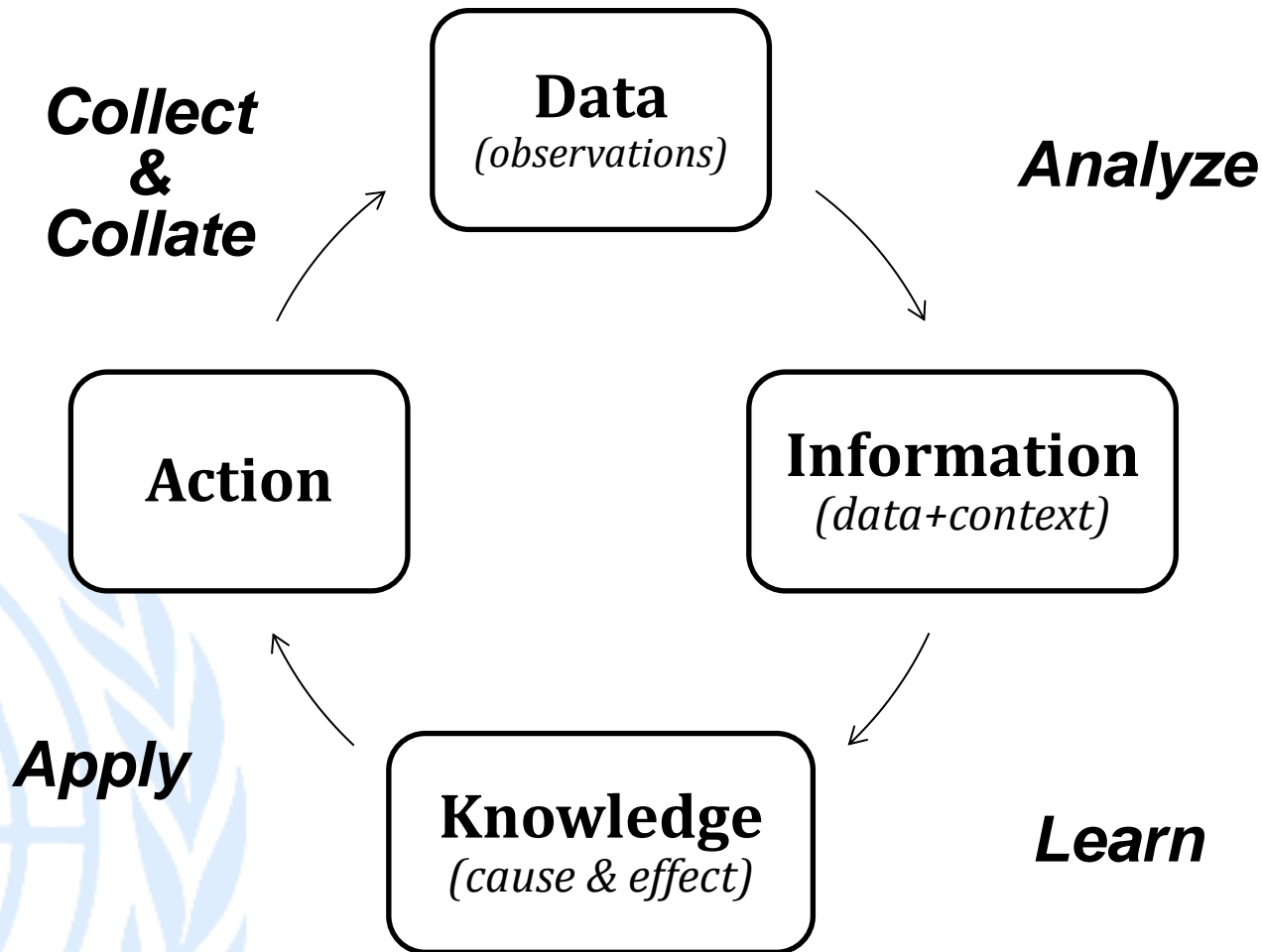
ICT and Disaster Risk Management

Objectives

➤ Provide an overview of disaster risk management (DRM)

➤ Present an approach: matching ICT to information needs

➤ Give examples of ICT applications in DRM

➤ Raise the policy considerations for employing ICT in DRM (Academy module)
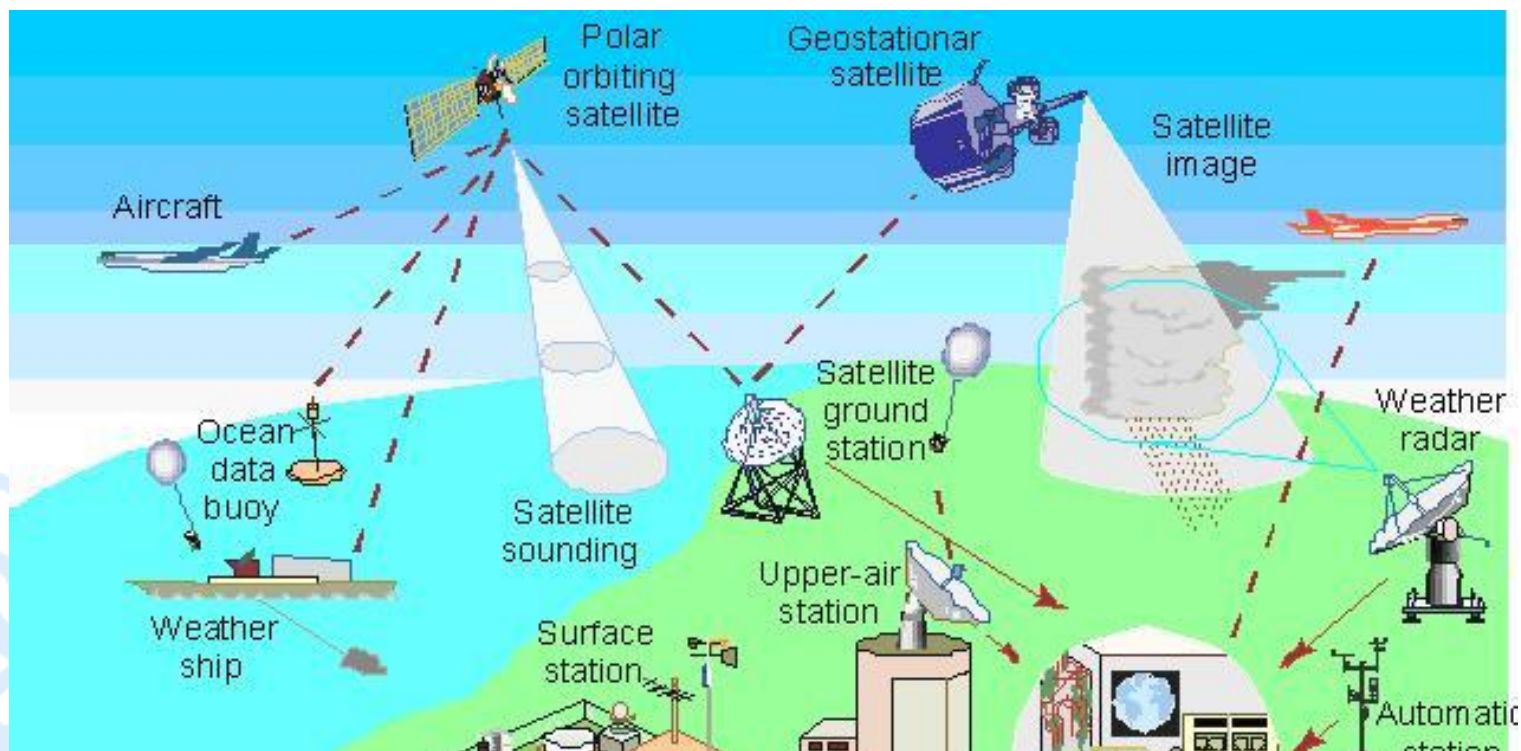
Phases of Disaster Risk Management

ICT →

Disaster Mitigation	**Disaster Preparedness**
Disaster Response	**Disaster Recovery**

Disaster Risk Reduction

Information Management Cycle

What are the information needs?

Some examples

DRM Activities	Decisions to be Taken	Information Needs
Early warning	To evacuate or not? Where to send evacuees	Hazard arrival time Safe locations and routes
Provide relief	Amounts of items to procure Where to send relief	Hazard duration estimate Records of relief shipments
Construct buildings	Houses, schools or hospitals? How many do we build?	Extent of damage to houses, buildings, infrastructure
Regulate construction	Allow or deny the application for a building permit?	Hazard zones Extent of hazard impacts

Sensors in Early Warning Systems