



# Asia Pacific Adaptation Network

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## ECONOMIC SECTOR RESILIENCE – POLICY AND CLIMATE GOVERNANCE

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# Infrastructure – What is Infrastructure?

The key **enabler** for development by **facilitating the flows of goods and services** that allow societies and communities to function effectively, grow and flourish.

Typically we think of **economic activity** in terms of **services** that are required for an economy to function effectively

- **Transport** – essential for the movement and flows of goods and people
- **ICT** – essential for the transfer of information and data
- **Water and Waste Water** – essential for many activities e.g. in the production of goods or food
- **Solid Waste** – the result of economic activity and can in itself an economic activity
- **Energy** – Fundamental for every economic activity

In essence all economic activity is in some way or another underpinned by the **services** that infrastructure enables

# Infrastructure Resilience

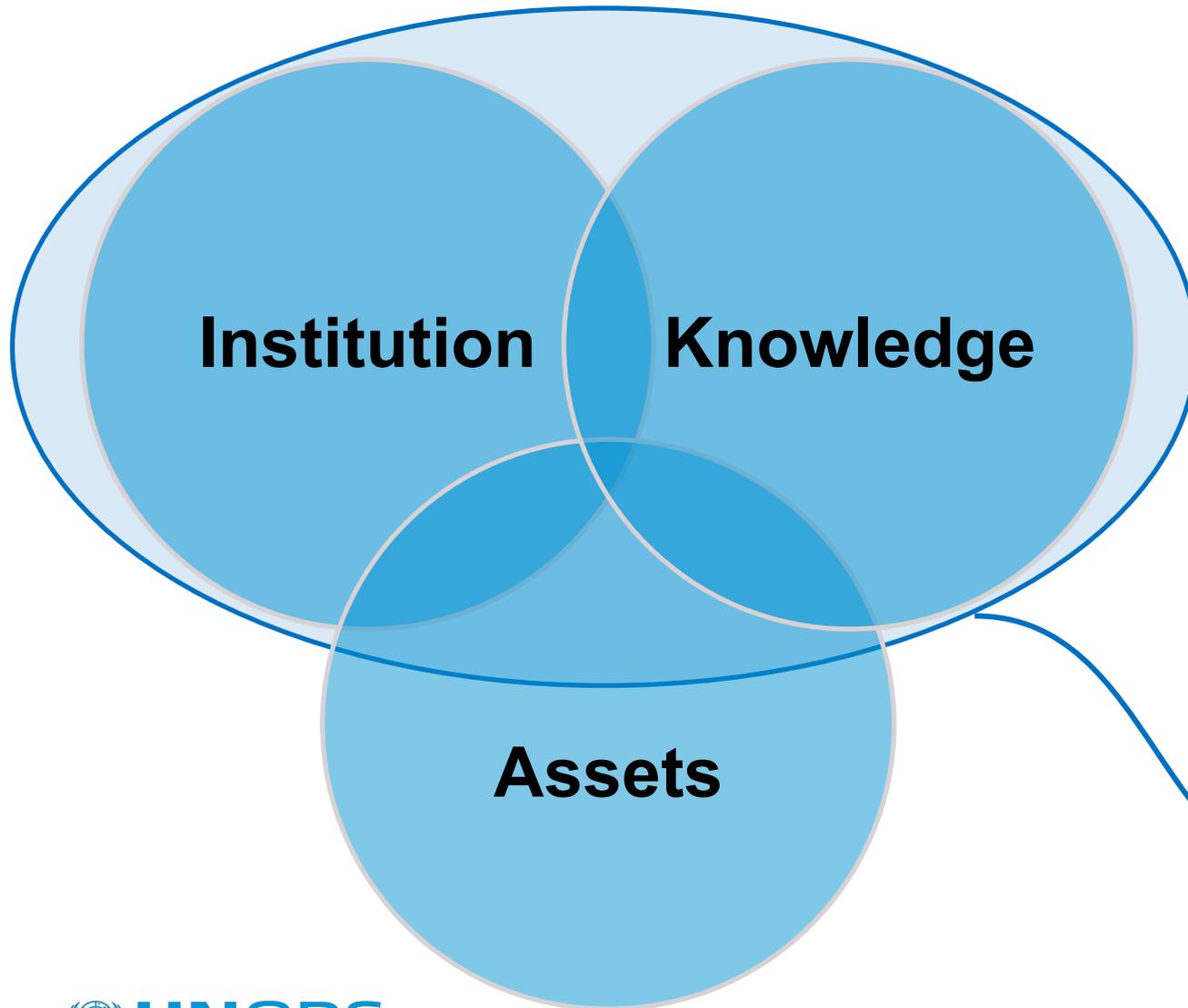
Key to ensuring economic activity is not disrupted by shocks or stresses is to ensure the **continuity of services** – i.e the **delivery of services by the assets** is not disrupted, or the disruption is minimized, when hazards interact with the infrastructure assets.

In short the **infrastructure assets** need to be **resilient**

How do we achieve resilient **infrastructure assets**?

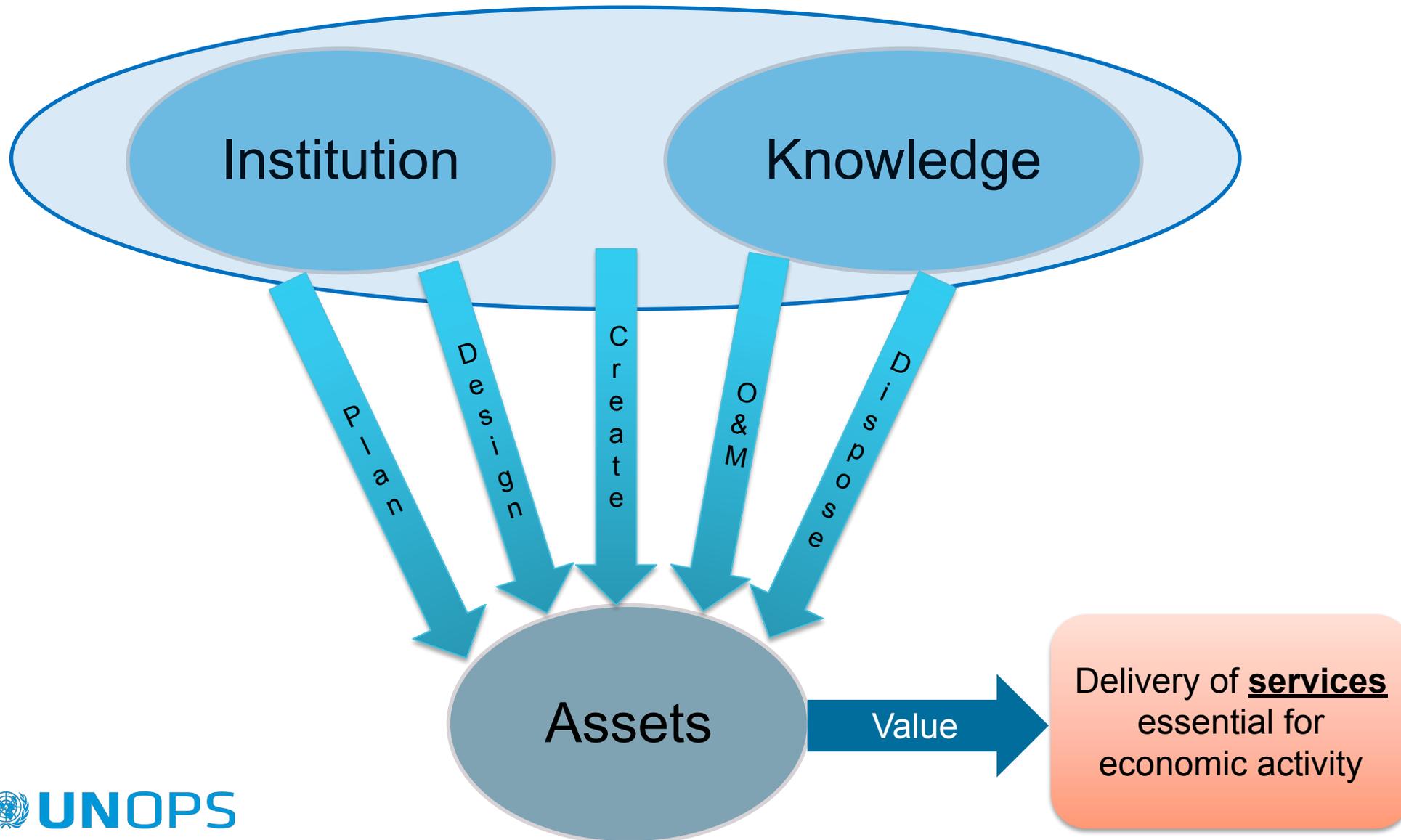


# Infrastructure Systems



- **Institution** – The organization responsible for the management of the assets
- **Knowledge** – Knowledge about the assets Often interpreted as the data but it is much broader as it covers codes, standards, research etc
- **Assets** – Physical component we can see such as roads, bridges, buildings etc
- **Knowledge and the Institution = Capacity** in the Infrastructure system

# Infrastructure Systems to Deliver Services



# National Resilience Program

## Local Government Engineering Department - Bangladesh

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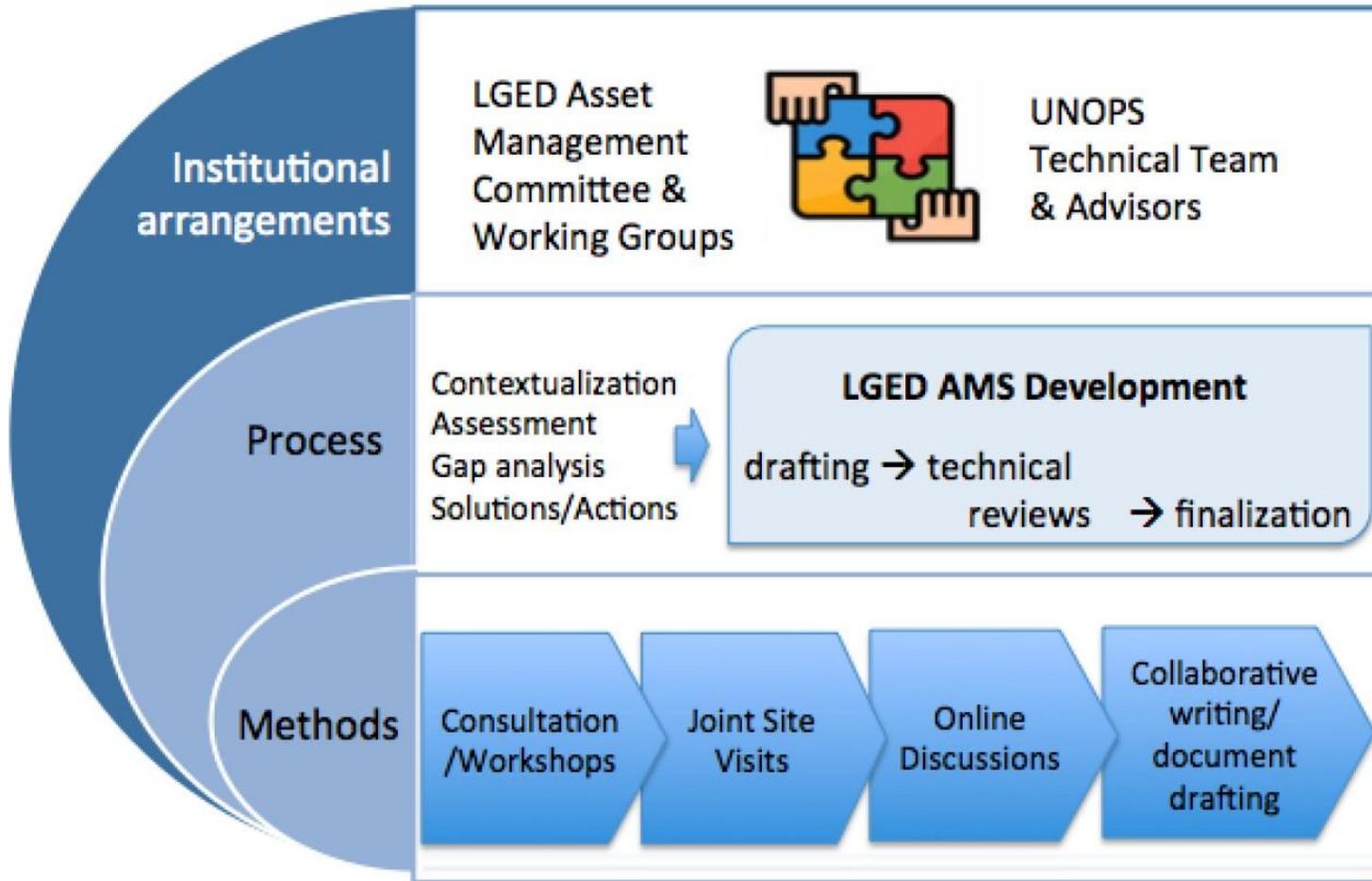
- The Local Government Engineering Department (LGED) under the Ministry of Local Government, Rural Development & Cooperatives of the Government of Bangladesh is responsible for planning, developing, maintaining and managing local level infrastructure across the country.
- Being one of the largest implementing arms of the government, LGED recognizes that it is essential to **manage assets** to sustainably **deliver appropriate levels of services** to the community and to meet the expectations and needs of the present and future generations.
- UNOPS together with UNDP and UNW is working with the Government of Bangladesh to increase resilience to disaster and reduction in disaster risk, loss of lives and livelihoods and protection of the health of persons, businesses and communities in Bangladesh

### **Objective of the LGED Component with UNOPS**

Improved capacity of GoB to achieve resilience through designing and constructing risk-informed, disability inclusive and gender-responsive infrastructure systems

# National Resilience Program

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There was a preconceived notion deeply rooted in the organization that the AMS is a software or database and limited to maintenance management.

Their expectation was that the AMS will appear as something physical.

However, LGED's top management has realized that the **AMS is nothing physical** – it is about **doing business in a new way** by improving its procedures, processes, and systems; and bringing about a cultural change within the organization – i.e. Good Governance

# Resilient Infrastructure Underpinning Economic Activity

*“We cannot be mere consumers of good governance, we must be participants, we must be co-creators”*

Rohini Nilekani, Indian writer, author and philanthropist. She is the founder-chairperson of Arghyam Foundation, a non-profit that focuses on water and sanitation issues

