

A photograph of two young children, a boy and a girl, in school uniforms, smiling and washing their hands at a public water tap. The boy is on the left, wearing a light green shirt and dark pants. The girl is on the right, wearing a light green shirt and a dark skirt, with her hair in braids adorned with green and black bows. They are both looking towards the camera. The water tap is a simple brass faucet on a concrete pillar. The background shows a chain-link fence and some greenery. A large blue triangle is overlaid on the left side of the image, containing the text.

Evidence Based Infrastructure

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Challenges for infrastructure decision makers

- Limited data and tools
- Complexity and silo-based thinking
- Short-termism
- Future uncertainty
- Traditional views of infrastructure



Evidence Based Infrastructure (EBI)

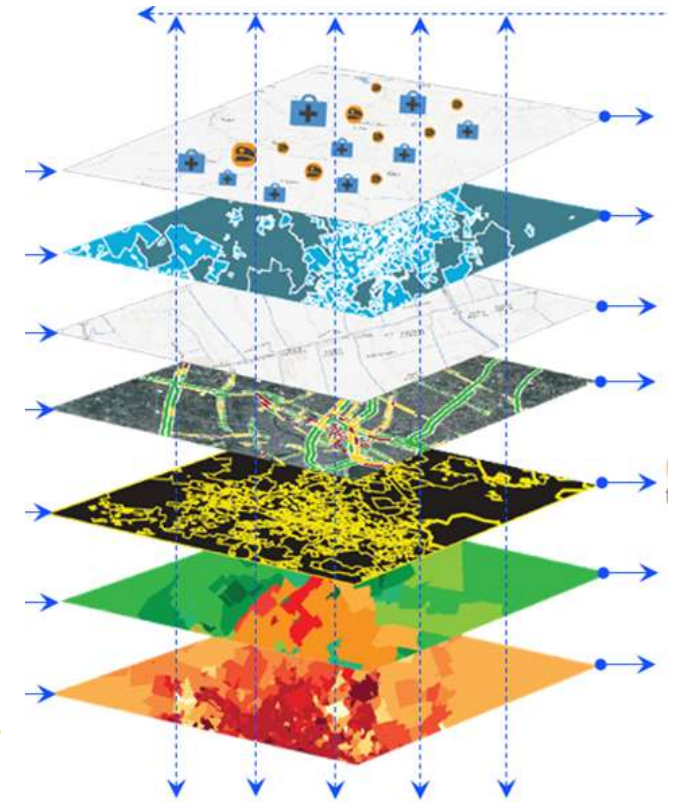
- EBI is a holistic approach to the planning, implementation and management of infrastructure systems
- Includes a series of practical methodologies and tools



Asset Assessment Tool for
Infrastructure

Capacity Assessment Tool for
Infrastructure

National Infrastructure Systems
Modelling



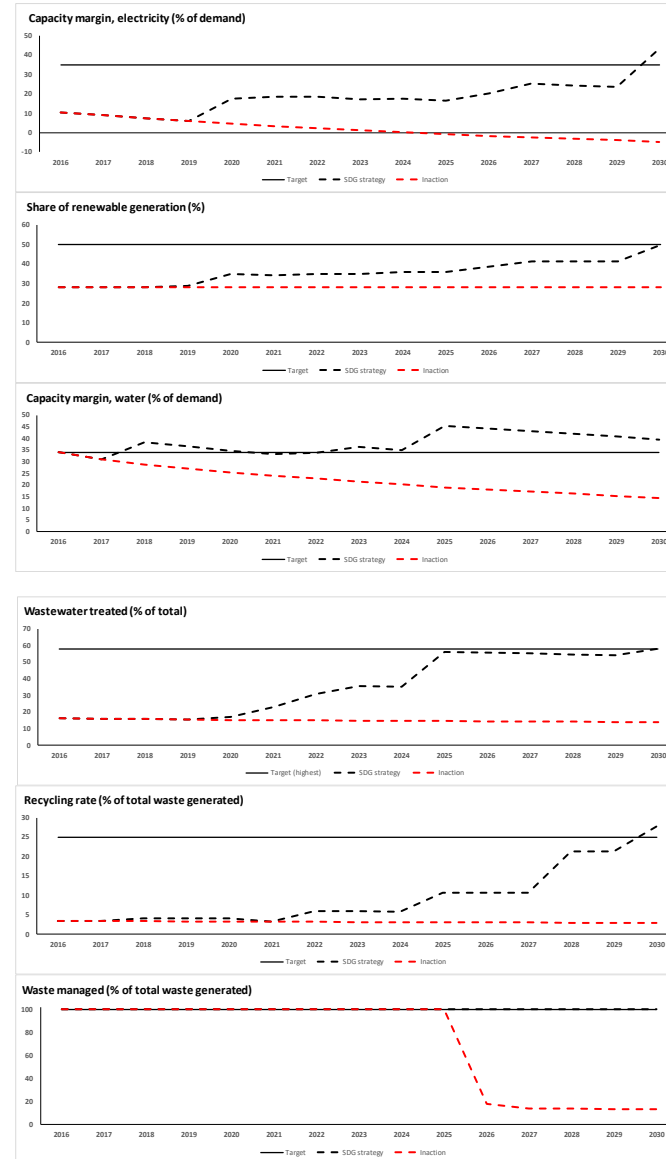
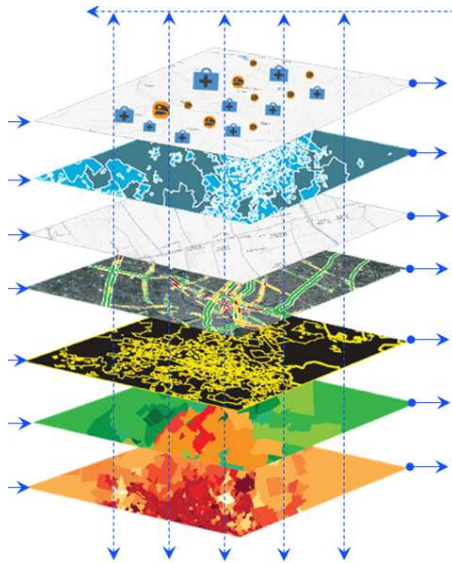
Asset Assessment Tool for Infrastructure

- National infrastructure database
- Asset location, interconnectivity, condition and performance
- Data through a variety of sources
- Open source web-based GIS platform
- Bangladesh, Nepal and Haiti, amongst others



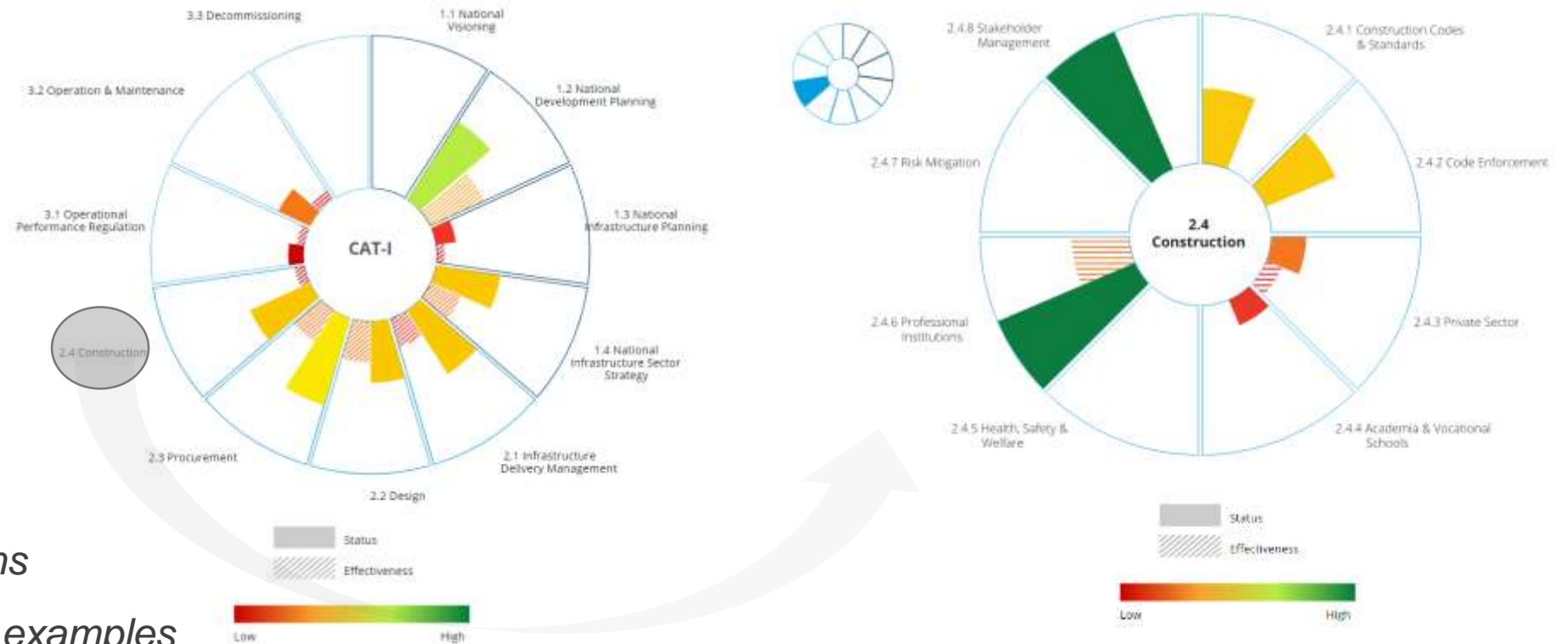
National Infrastructure System Model (NISMOD)

- NISMOD calculates current and future infrastructure needs and evaluates policy and investment options for meeting those needs
- UK, Palestine, Curacao, Saint Lucia



Capacity Assessment Tool for Infrastructure (CAT-I)

- CAT-I identifies strengths and gaps in the capacity of the enabling environment, in relation to the planning, delivery and management of infrastructure systems, at multiple scales
- Nepal, Brazil, Serbia, Kenya and others



- 11 indicators
- 93 sub-indicators
- 800 yes/no questions
- 200+ good practice examples

Conclusions

- Infrastructure choices define our collective future
- Infrastructure decision are challenging!
- Improved data, tools can help support decisions
- Evidence Based Infrastructure
 - Assessment of assets
 - Simulation of future infrastructure decisions
 - Assessment of the enabling environment

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