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
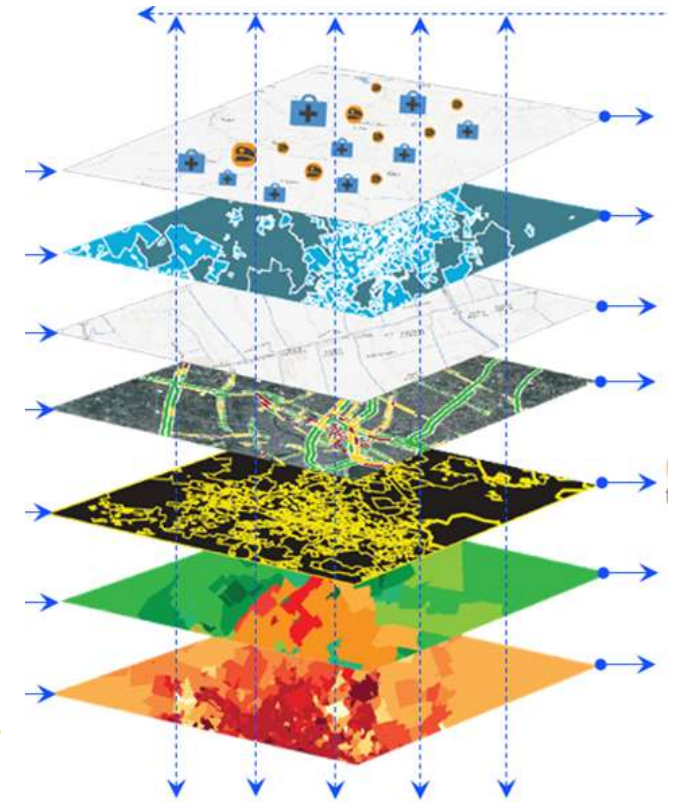
Evidence Based Infrastructure (EBI)

- 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

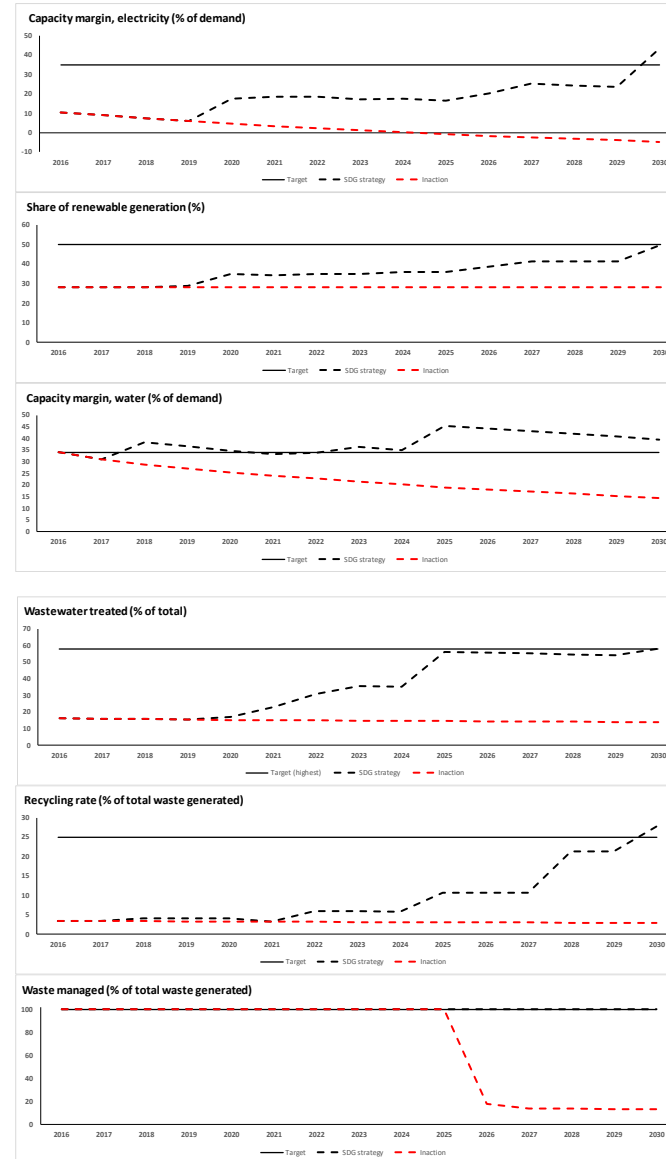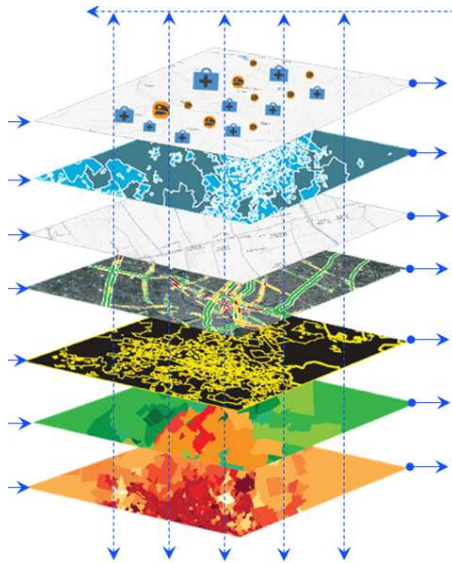**National Infrastructure Systems Modelling**

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
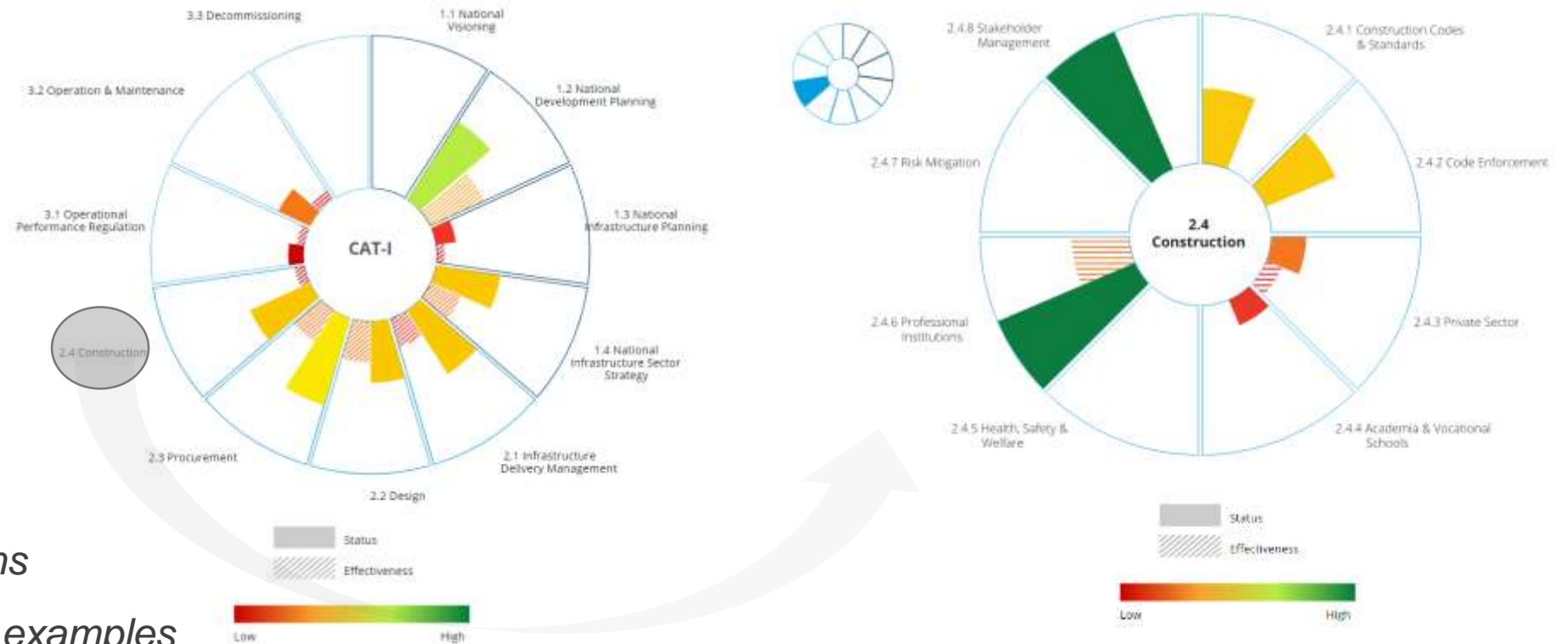- Bangladesh, Nepal and Haiti, amongst others

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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