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

- 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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