

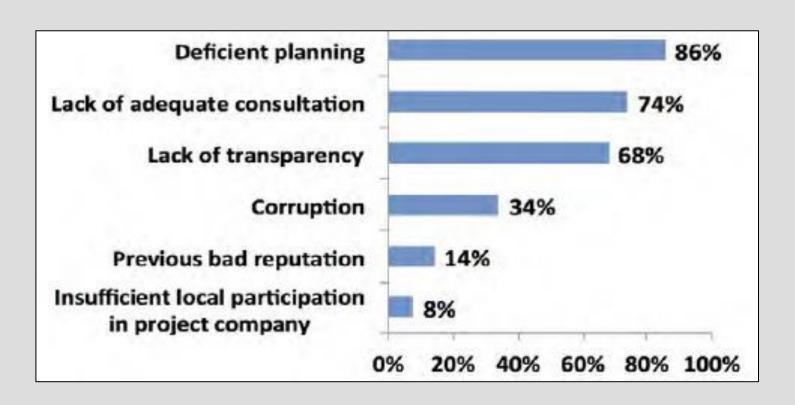
INFRASTRUCTURE INVESTMENT GAPS 2016-2030

For Southeast Asia/Pacific,: \$32
 trillion

• For entire A/P: **\$26 trillion**



LACK OF INTEGRATION = PROJECT FAILURE



Source: Inter-American Development Bank

WHAT TO INTEGRATE?

Project-cycle Sub-sectors Areas of integration SDGs Institutions

Governments to:

- Prioritize integrated approach to infrastructure
- Make institutional arrangements
- Seek implementation support from development partners

KAYSTONE PHOMVIHANE, LAOS AN INTEGRATED, NATURE-BASED APPROACH

- Susceptible to increased flooding
- ADB formed Kaysone Climate Change Core Groupto assess issues/find solutions.
- Integration of stakeholders with broad consultation of stakeholders
- Restoration of river beds as a nature-based solution to flooding.



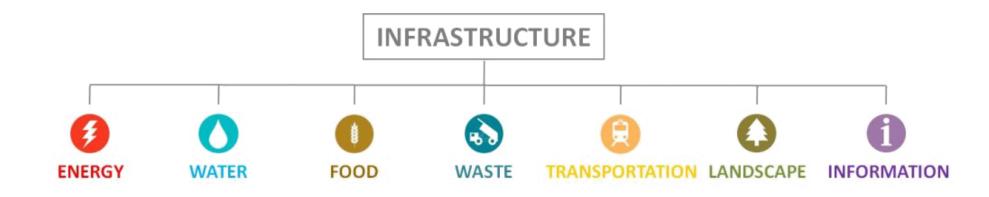
TOOLS AT SYSTEM LEVEL I

Planning Guidelines for Sustainable Cities

- Holistic & interdisciplinary approach
- Environmental, social and economic sustainability for each infrastructure system



Applied to city as an organization of integrated infrastructure systems:



TOOLS AT SYSTEM LEVEL 2

National Infrastructure Systems Modelling (NISMOD)





- Interdependencies
- Forecast demands
- Infrastructure decisions



Aim:

To develop/demonstrate a new generation of data, simulation model & tools to inform analysis, planning & design of national infrastructure

HO CHI MINH CITY, VIETNAM NISMOD FOR ASSESSING ADAPTATION TO SEA LEVEL RISE

Methodology

- Exposure & vulnerability assessed through flood maps
- Two indicators of risk: damage to assets & # of potential casualties
- Simulate implementation of adaptation measures & calculate effectiveness



Outcome

- Ring dike would protect inner city but increase risk in more rural districts
- Elevating areas at risk and dry proofing buildings will reduce impacts to city as a whole
- Combinations of measure seen as optimal solution

WAY FORWARD & WHAT YOU CAN DO

 Raise awareness of integrated approach to infrastructure as a system

Promote application of integrative tools & institutional arrangements

 Request development partners to support knowledge sharing, capacity building, & access to green finance.