



Setting the Scene: Sustainable Infrastructure and the *International Good Practice Principles*

Infrastructure Systems

Built Infrastructure



Natural Infrastructure

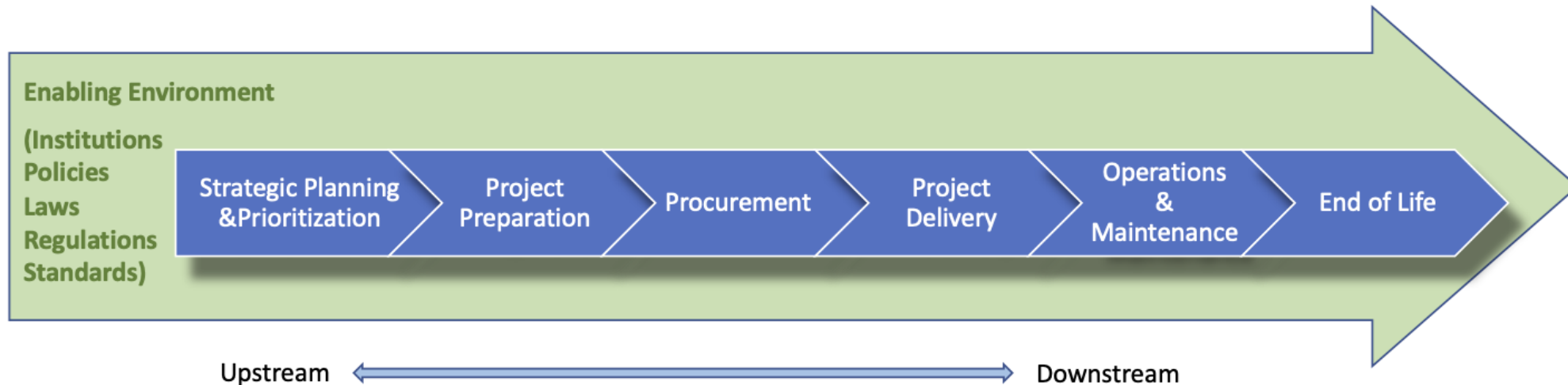


Hybrid Infrastructure



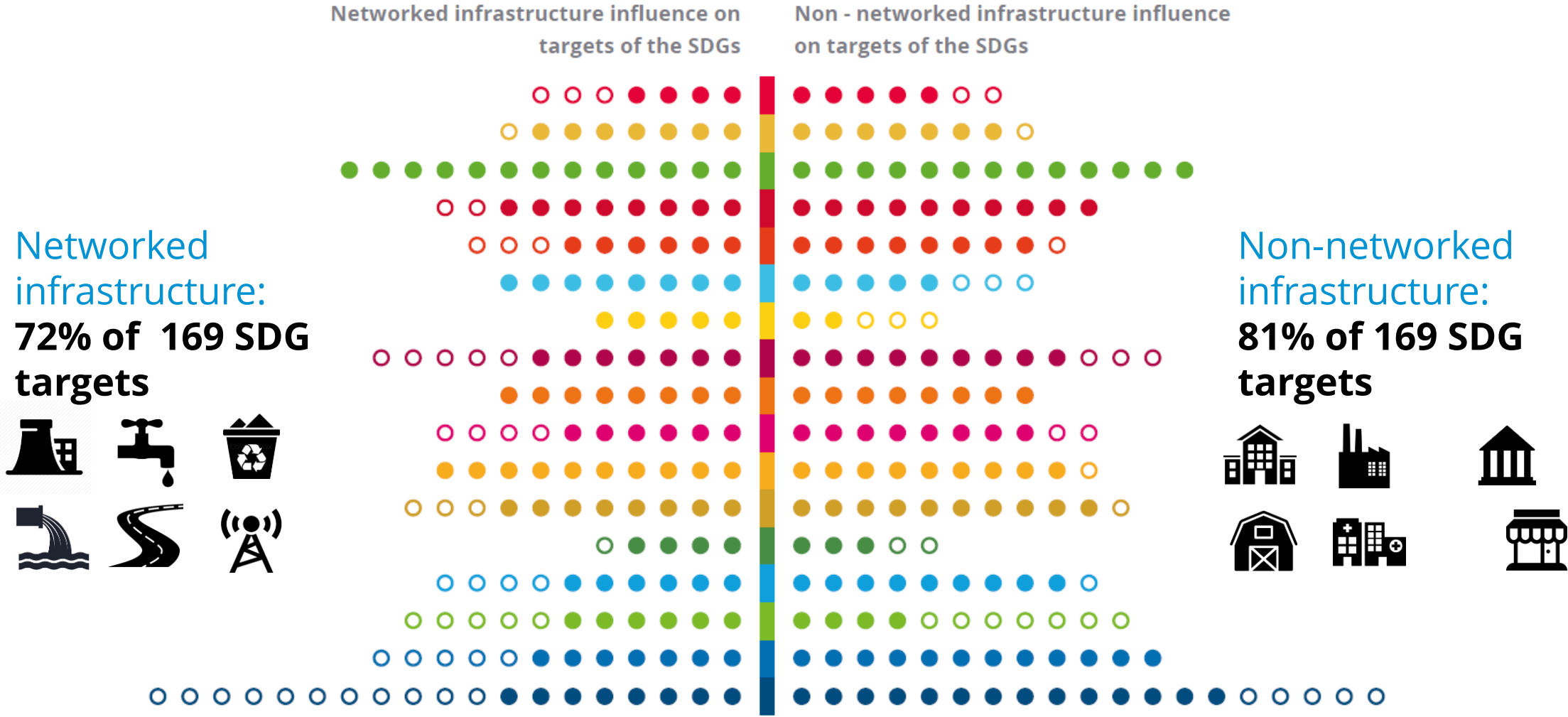
Sustainable Infrastructure

Sustainable infrastructure systems are those that are planned, designed, constructed, operated, and decommissioned in a manner to ensure economic and financial, social, environmental (including climate resilience), and institutional sustainability over the entire infrastructure lifecycle.



*This definition is adapted from the Inter-American Development Bank's definition of sustainable infrastructure in: Inter-American Development Bank (IDB). *What is Sustainable Infrastructure? A Framework to Guide Sustainability Across the Project Cycle*. (Washington, DC, IDB, 2018).

Infrastructure influences all 17 SDGs – Overall 92% of targets





#SolveDifferent

- Member States to “develop and strengthen national and regional systems-level strategic approaches to infrastructure planning”
- UNEP to support Member States to develop sustainable infrastructure as a means of implementing the SDGs
- UNEP to collect and share best practice, building on existing initiatives and identifying knowledge gaps, to assist Member States in promoting and strengthening the sustainability of their infrastructure, and to submit that report to the Environment Assembly at its fifth session

UNEA Resolution 4/5 on Sustainable Infrastructure

Sustainable Infrastructure Partnership



1. Raise awareness

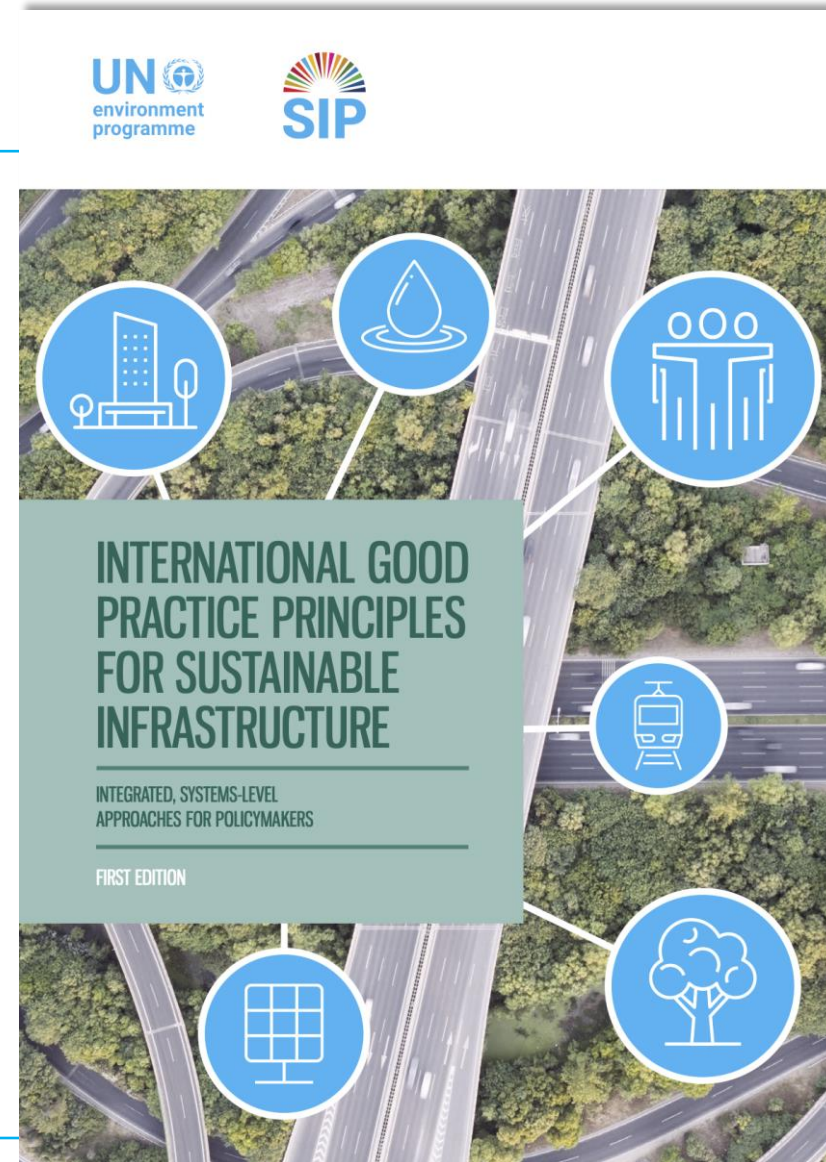
2. Develop streamlined normative and technical guidance

3. Strengthen the technical and institutional capacity of developing countries

Good Practice Principles

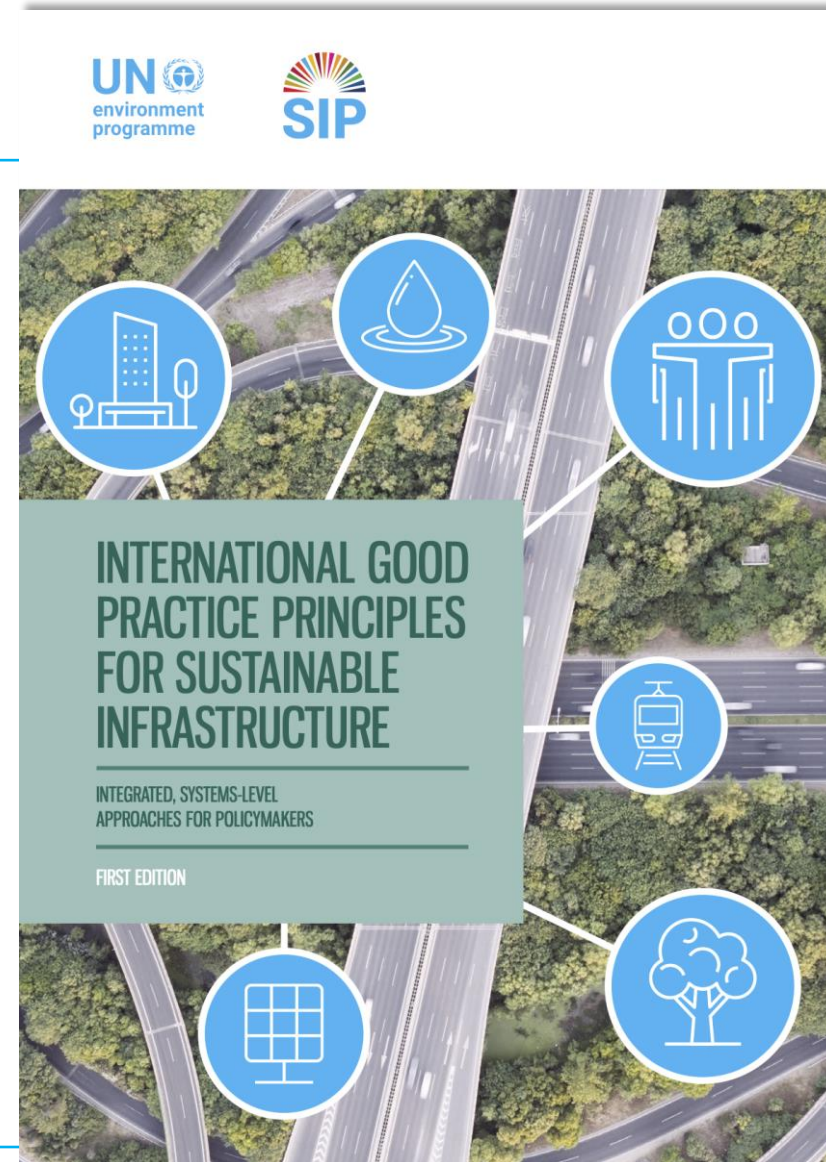
- 10 principles for policymakers
- Needs-based, systems-level, integrated approaches
- Emphasis on the enabling environment and “upstream” interventions

<https://wedocs.unep.org/bitstream/handle/20.500.11822/34853/GPSI.pdf>



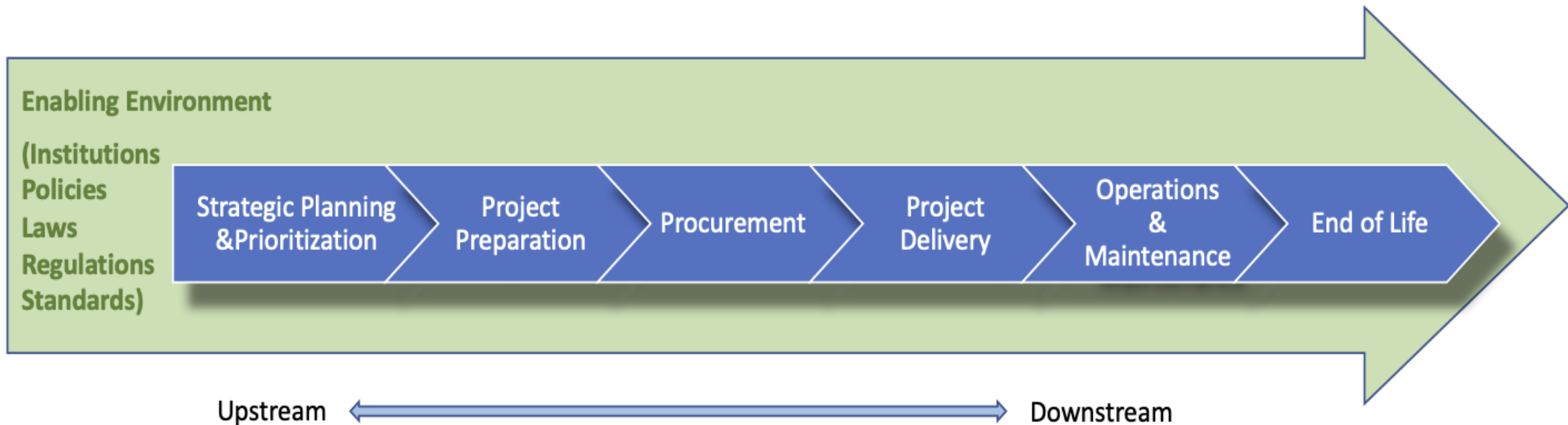
Good Practice Principles

1. Strategic Planning
2. Responsive, resilient, and flexible service provision
3. Comprehensive lifecycle assessment of sustainability
4. Avoiding environmental impacts and investing in natural infrastructure
5. Resource efficiency and circularity
6. Equity, inclusiveness, and empowerment
7. Enhancing economic benefits
8. Fiscal sustainability and innovative financing
9. Transparent, inclusive and participatory decision-making
10. Evidence-based decision-making



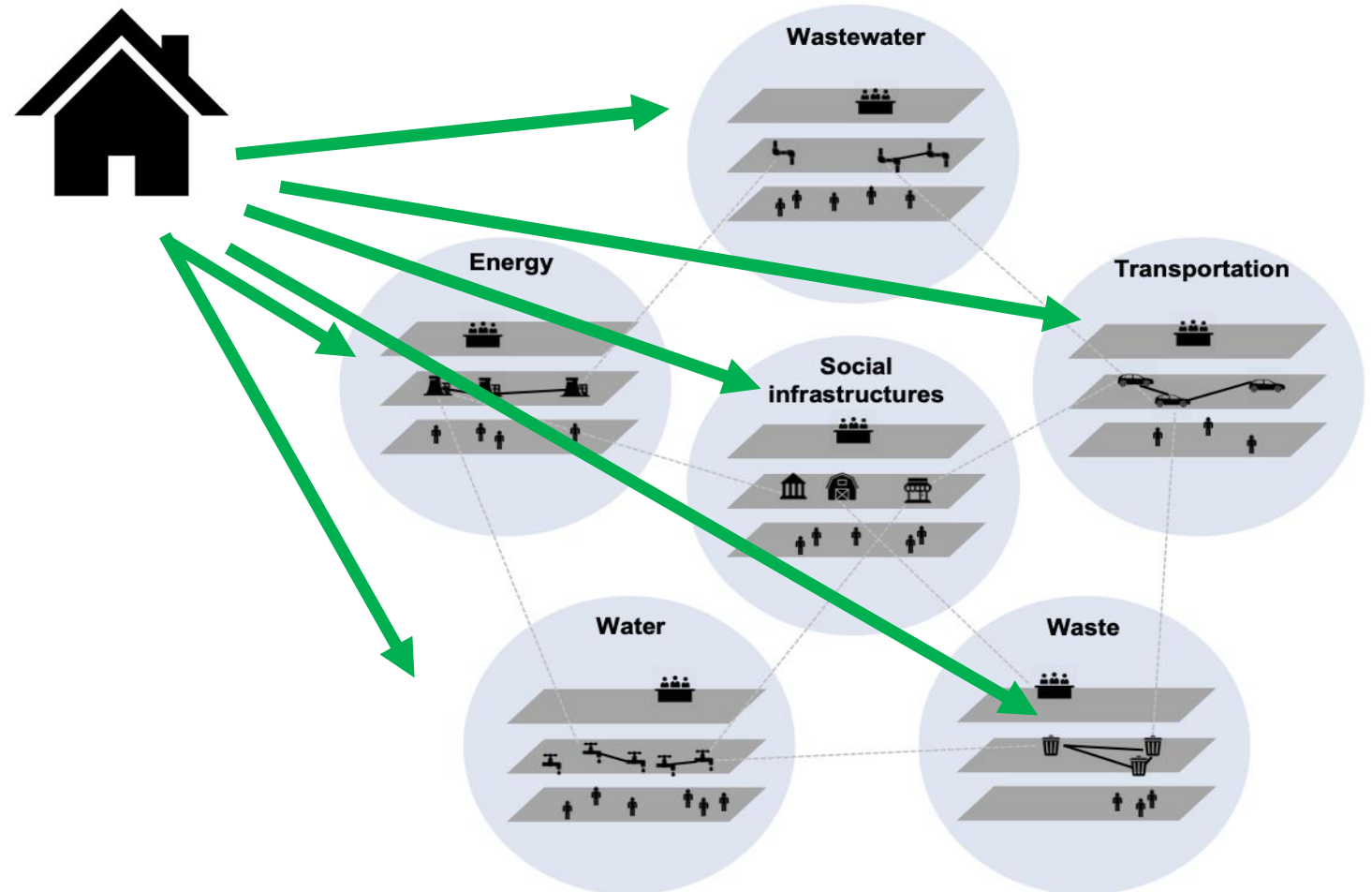
Good Practice Principles

- **Needs-based** = people centered, data and demand driven
- Focused on **systems-level** interventions, emphasis on the early planning phases and enabling environment (institutions, processes, policies)



Good Practice Principles

- **Integrated approaches:**
 - Integration of all aspects of sustainability
 - Integration of different infrastructure systems across time and space
 - Nature as infrastructure
 - Understanding impacts and benefits at the aggregate level
 - Integrated governance, policies, and processes



Sustainable Infrastructure Tool Navigator

- Database of tools
- User friendly navigation interface
- Matching stakeholders with the tools they need



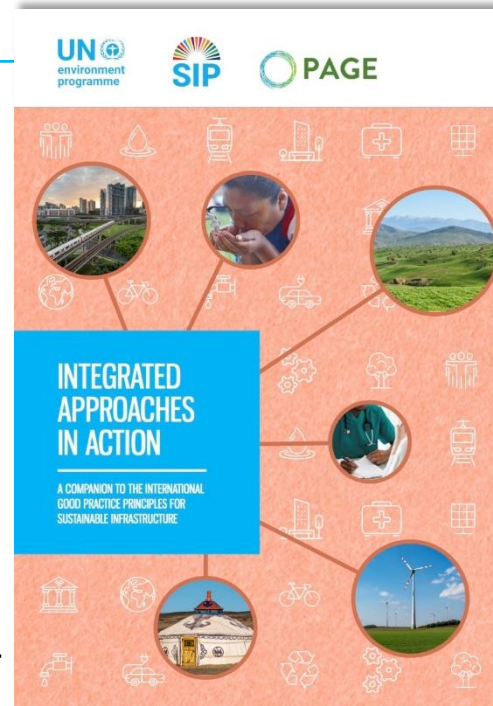
Case-based Learning

Case Study Database

- 10 case studies from around the world
- Illustrating the Principles
- Case study database

Sustainable Infrastructure Community of Learners

- Peer-to-peer
- Case-based learning
- Webinar series



Questions

1. What do you think are the most pressing sustainable infrastructure needs in your country?
2. What do you think are the main barriers to sustainable infrastructure in general, or specifically to taking more integrated approaches?