



Sustainable Infrastructure for DELIVERING SDGs

Nara Luvsan

Head of the UNEP Central Asia Sub-regional Office based in Almaty, Kazakhstan

Outline

- 1) Background
- 2) Why sustainable infrastructures is important
- 3) Opportunities & Challenges
- 4) UN Environment's Activities.

- **Innovative, sustainable infrastructure is highly relevant to advancing the 2030 Agenda and UNEA objectives of achieving a pollution-free planet and sustainable consumption and production.**

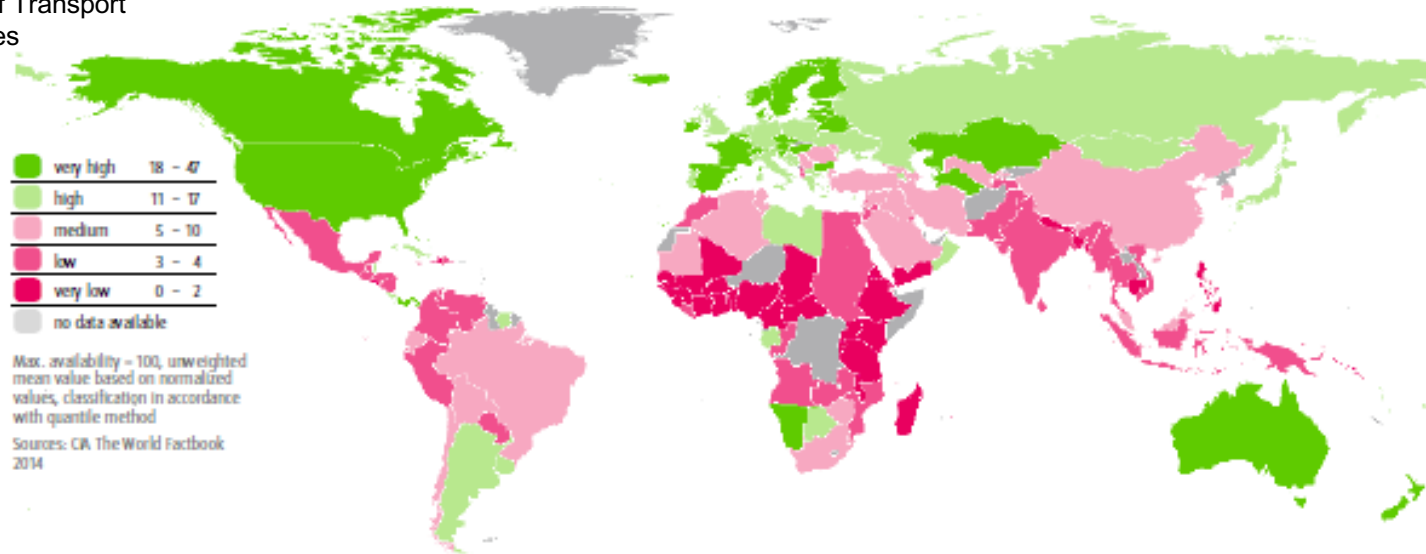


State of Infrastructure in the World

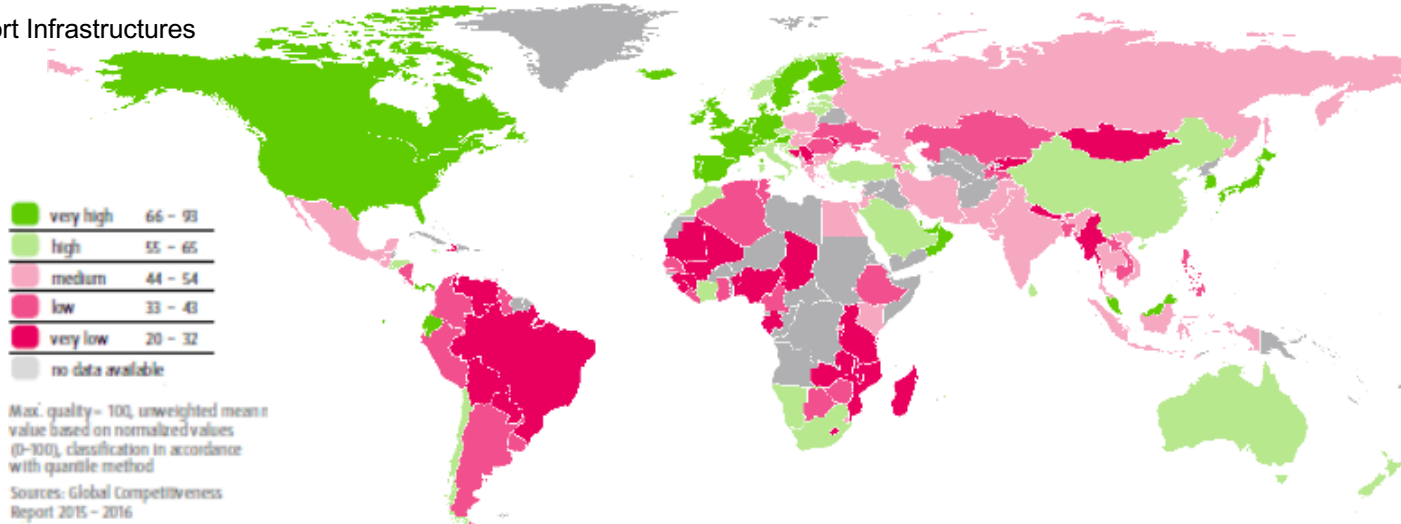


State of Infrastructure in the World

Availability of Transport Infrastructures



Quality of Transport Infrastructures



Why sustainable infrastructure is important

1) Infrastructure is critical to achieving the 2030 Agenda.

- infrastructure underpins the global economy, and countries cannot achieve sustainable development without infrastructure.
- It is estimated that approximately US\$1 trillion/year will have to be invested in infrastructure in order to meet the Sustainable Development Goals (SDGs). Certain Sustainable Development Goals, such as:
 - ✓ Goal 6 on Clean Water and Sanitation,
 - ✓ Goal 7 on Affordable and Clean Energy,
 - ✓ Goal 8 on Decent Work and Economic Growth,
 - ✓ Goal 9 on Industry, Innovation and Infrastructure,
 - ✓ Goal 11 on Sustainable Cities and Communities, and
 - ✓ Goal 12 on Responsible Consumption and Production,
- are directly linked to the development of sustainable infrastructure, while the remainder of the goals are indirectly supported by it.

Why sustainable infrastructure is important

Innovative infrastructure is necessary to mitigate pollution and holistically advance the Sustainable Development Goals

.As the physical structures underlying our societies, infrastructure can be a major source of pollution if not planned and built to be environmentally sustainable. Innovative infrastructure is essential to addressing root causes of pollution and, in doing so, furthering the Sustainable Development Goals in an integrated and holistic manner.

Innovative infrastructure is essential to promoting sustainable consumption and production

Infrastructure provides the backbone of production processes. Numerous issues relating to infrastructure will therefore influence the sustainability of production, including the sourcing of raw materials for new infrastructure construction, the use of resources like water and energy during construction and operation, choices to improve existing infrastructure rather than build new infrastructure and the disposal of wastes from infrastructure demolition. Infrastructure availability also influences consumption by individuals.

Innovative infrastructure creates synergistic opportunities for advancing the Sustainable Development Goals

When properly designed, innovative infrastructure has the potential to simultaneously promote economic, environmental and social Goals

Opportunity & Challenge

A wonderful serenity has taken possession of my entire soul.

Innovative infrastructure implies multiple levels of innovation

The transition to sustainable infrastructure will require multiple forms of innovation.

- Policy innovation
- Institutional innovation
- Technology innovation
- Financial innovation

OPPORTUNITY



CHALLENGE



Macro-level, integrated planning is essential to promoting innovative, sustainable infrastructure

Lack of macro-level, integrated planning is an important barrier to developing sustainable infrastructure. While many existing tools can be used to support assessment and decision making in line with the Sustainable Development Goals, such as impact assessment and public participation, these tools are often invoked too late in the infrastructure-related policy/project cycle to be effective.

UN Environment's Activities

“ Innovative, sustainable infrastructure ”





THANK YOU

Nara Luvsan, UNEP
Email: Nara.luvsan@un.org