

*Towards achieving the SDGs and realising the NUA through the Spatial Planning Platform
- Transforming the Path to Resilient Infrastructure for Sustainable Urban Development -*

Planning and implementing resilient infrastructure in urban systems: initial reflections

Asako Yuhara, Senior Policy Analyst
Economic Transformation and Development Division,
OECD Development Centre

QUALITY
INFRASTRUCTURE
FOR DEVELOPMENT

28 June 2022, 11th World Urban Forum



Bridging infrastructure divides is paramount for development

We provide targeted advice to developing countries to improve their planning, financing and implementation of infrastructure policies.

We collect good practices on infrastructure planning, financing and implementation, also looking at the role of development cooperation in support of infrastructure in developing countries.

We do so by leveraging the inclusive membership of the OECD Development Centre and its policy dialogues.

The international community calls for resilient infrastructure and for enhancing the role of cities in sustainable development

- SDG Goal 9: “Build **resilient infrastructure** to promote sustainable industrialisation and foster innovation”. Investment in transport, irrigation, energy, communications, and water and sanitation infrastructure is essential to empower communities in developing and developed countries.”
- SDG Goal 11: “Making cities and human settlements inclusive, safe, **resilient** and sustainable. **Climate-resilient infrastructure** can also support efforts to achieve the Sendai Framework for Disaster Risk Reduction.”
- New Urban Agenda (NUA)(2016): 77. We commit ourselves to strengthening the **resilience of cities** and human settlements, including through the development of **quality infrastructure and spatial planning**,....
- G20 QII Principle 4: Building resilience against natural disasters and other risks

G20 Principles for Quality Infrastructure Investment(QII)

1. Maximizing the positive impact of infrastructure for sustainable development
2. Raising economic efficiency in view of life-cycle cost
3. Integrating environmental considerations in infrastructure investments
4. Building resilience against natural disasters and other risks
5. Integrating social considerations
6. Strengthening infrastructure governance

How to put these principles into practice?

1. Clarify what resilient infrastructure means
2. Identify key enablers
3. Mobilise partners and resources

1. What resilient infrastructure means in the urban context

- Ability to absorb shocks and continue functioning
 - E.g.
 - An electricity grid has a back-up to continue functioning
 - Built-in redundancy for Internet infrastructure
- Capacity to ensure continuity of critical urban services such as healthcare, schools, mobility and water
- Capacity to serve and include the poorest and avoid the poorest being disproportionately affected by shocks
- Ability to plan future-proof infrastructure
 - E.g. infrastructure for the energy transition

2. Key enablers

- Comprehensive long-term urban planning in coordination with national processes in advance rather than *ad hoc* build-up of infrastructure
- Factor in resilience in the pre-risk project assessment - e.g. geological and climate surveys
- Ensure financing for infrastructure maintenance
- Develop strategic preventative maintenance capacity
- Mobilise cutting-edge technology to ensure resilience
 - E.g. big data, artificial intelligence
- Accommodate vulnerable communities as critical users and beneficiaries

3. Mobilise partners and resources

- Mobilise adequate domestic and international financing for resilient infrastructure for urban systems in developing countries
 - G7 Partnership for Global Infrastructure
- Support domestic and international city-to-city partnerships for knowledge-sharing
- Explore innovative financing options
 - Eg. Build America
- Invest in capabilities at the urban level to plan, manage and implement resilient infrastructure

6-7 December 2022 High-Level meeting of the OECD Initiative for Policy Dialogue on GVCs, Production Transformation and Development joint session with MLIT on infrastructure resilient to natural disasters. Join us in the Azores, Portugal!



**QUALITY
INFRASTRUCTURE
FOR DEVELOPMENT**

Visit our infrastructure website:

OECD Infrastructure Platform and Quality Infrastructure for Development website:

<https://www.oecd.org/finance/infrastructure/bridging-the-development-divide.htm>

<https://www.oecd.org/dev/Quality-infrastructure-development.htm>