



# INFRASTRUCTURE CORRIDOR SIMULATOR

The **Infrastructure Corridors Simulator** is built on in-depth research and methodology of infrastructure co-deployment simulation to promising infrastructure corridors. It contains the spatial simulation module, as well as calculus and variable modules, which identify:

- The most prospective economic and technological flows.
- Scenarios and economic efficiency for infrastructure corridor development.
- The most appropriate combination of co-deployment partnerships.



The Simulator is a collaborative workspace and virtual co-location for online teamwork. Professionals can use it to work together on joint planning, designing infrastructure co-deployment, and developing integrated infrastructure corridors across borders and between countries regardless of the distance of their location.

More than 100 integrated infrastructure corridors can be simulated, with a total length more than 75,000 km, along 62 land borders between ESCAP Member-States in Asia and the Pacific

More than 70 different types of infrastructure facilities, including roads, railways, tunnels, bridges and overpasses can be designed using this tool.

Using the simulation can save labour costs during the pre-feasibility phase, and estimate co-deployment efficiency – for example possible savings of capital and operational cost.

Currently the Simulator contains qualitative and quantitative parametric data for three pilot corridors:

- Almaty (Kazakhstan) – Cholpon-Ata (Kyrgyzstan);
- Urzhar (Kazakhstan) – Chugunchak (China);
- Semei (Kazakhstan) – Rubtsovsk (Russian Federation).

To simulate new transboundary corridors the following initial data are needed:

- Economic and technical flows around the territory of infrastructure corridor;
- Traces of existing or planned facilities with granularity up to separate segments;
- Site-specific data set for scenario simulation, partnerships model and other needs.

## POTENTIAL PARTNERS



Asian Development Bank



## COMMITTED PARTNERSHIP

ESCAP and ITLLDC have confirmed their commitment to strengthening the technical capacities of selected LLDCs. For the simulation of newly-identified transboundary infrastructure corridors, technical expert groups will be established. These will conduct in-depth training, collaborative research, and data collection.

This tool contributes to achieving Sustainable Development Goals (SDGs), on: (i) connectivity: SDG 1, 5, 9, 17, (ii) e-resilience: SDG 9, 13, 17, (iii) traffic and network management: SDG 9, 16, 17, (iv) broadband for all: SDG 9, 17.

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