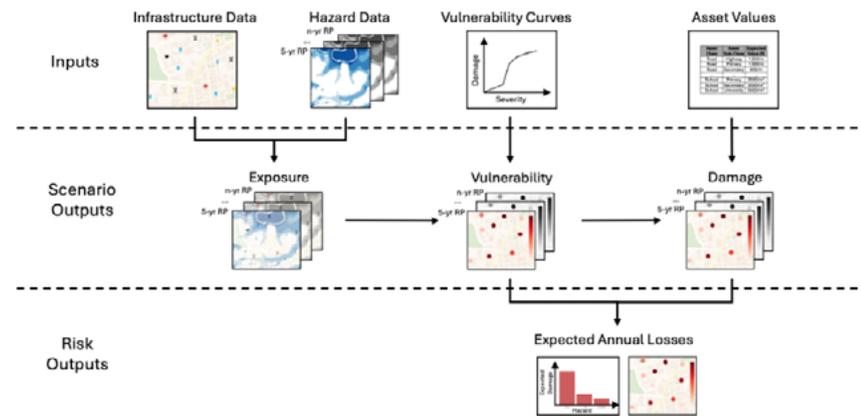


MULTI-HAZARD INFRASTRUCTURE ASSET EXPOSURE AND VULNERABILITY



▲ Multi-hazard infrastructure asset exposure and vulnerability – a pipeline illustration

- **Description:** Regional, national level or network-specific summary notes or presentations documenting the exposure and, if the information is available, the vulnerability of infrastructure assets to multiple hazards. The infrastructure sectors covered will encompass: transport, energy, healthcare, waste, telecommunication, water, and education. The hazards will encompass fluvial floods, pluvial floods, coastal floods, earthquakes, tropical cyclones (wind-induced damages only), and landslides. Several options are possible: single or multiple sector analysis.
- **Sector:** Transport, urban, disaster risk management, energy
- **Sub-sector (if any):** NA
- **Applications:** Possible uses include client engagement, inputs into ASAs, CCDRs, early operational engagements.
- **Final output:** Summary note
- **Examples/cases:** One example for energy has been provided, other examples can be shared upon request.
- **Data required (if any):** If available local hazard maps, infrastructure asset maps and other relevant information can considerably improve the deliverable. By default global hazard maps are used and infrastructure asset datasets are retrieved from OSM and other ancillary data sources. Client iteration is also possible to further refine the outputs (at an additional cost).
- **Geographic scope:** Regional, national, subnational
- **Hazard covered:** Fluvial floods, pluvial floods, coastal floods, earthquakes, tropical cyclones (wind-induced damages only), and landslides
- **Cost:** USD 15,000 – 20,000.
- **Time required:** ~ 1.5 – 3 months depending on team member availability and level of complexity of the analysis
- **Limitations/caveats:** The default analysis relies on global hazard data layers and publicly available information for infrastructure assets. As such it is better suited for a big picture type of approach. It should not be used for investment decisions.

