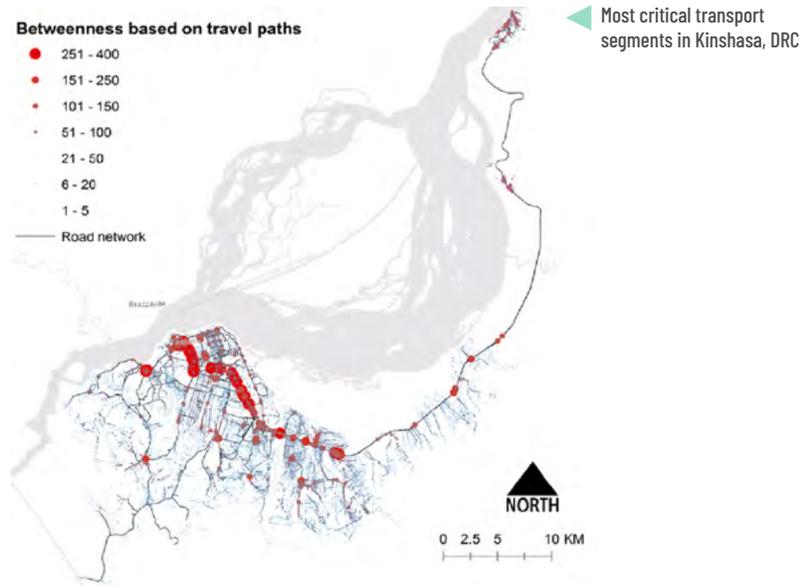


URBAN MOBILITY AND RESILIENCE TO HAZARDS – CITY-LEVEL DEEP-DIVE



Description: City level case study assessing the change in functionality of the transport services, the loss of accessibility to jobs and services, identifying the most critical links in the transport network and attaching an economic cost to the travel delays caused by hazards (conditional on income data). Several options exist that vary by their complexity and depend on data availability:

1. Using OSM transport networks with hazard maps with assumptions on travel speeds in “normal” and “disrupted” conditions
2. Using OSM transport networks with before/after risk reduction interventions hazard maps with assumptions on travel speeds in “normal” and “disrupted” conditions
3. Using public transport (including informal) information in GTFS formats with hazard maps

Sector: Transport, urban, disaster risk management (DRM)

Sub-sector (if any): NA

Applications: Possible uses include client engagement, inputs into ASAs, CCDRs, early operational engagements.

Final output: Slide deck

Examples/cases: Please see the [paper](#), short [demonstration note](#) and [blog](#) post for full analysis (option 3. Above). Examples of the output slide decks are available upon request. All these examples focus on the more complex option 3, which assumes public transport information is available

Data required (if any): If available local flood maps (ideally before/after DRM interventions), public transport information in GTFS format, income/consumption/welfare distribution maps or city-wide average information.

Geographic scope: Urban area

Hazard covered: Flooding (pluvial, fluvial, coastal), possibility of extending to 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 analysis relies on global hazard data layers and are suited for a big picture type of approach. It should not be used for investment decisions.