Figure 2 reproduction

This directory contains the code and data needed to reproduce Figure 2. The figure displays 14 of the 22 calculated paths: seven principal, three supplementary local and four regional comparator paths. Panel B enlarges local segments of ten paths. The complete numerical analysis contains 22 base paths and 54 principal sensitivity runs.

The legend reads “Regional comparator paths”, “Harbetsuvan paths” and “Other local paths”. Colours distinguish the three source zones. Solid lines mark regional comparator paths, long-dashed lines mark Harbetsuvan paths and short-dashed lines mark the other local paths. The PNG is 4200 × 4527 pixels at 600 dpi; the SVG retains editable text and the PDF is a single page. Exact typography requires the installed Palatino font, which is not redistributed.

From the package root, run:

```
python -m pip install -r source/figure2_reproduction/source/requirements_figures.txt
PYTHONDONTWRITEBYTECODE=1 MPLBACKEND=Agg python \
    source/figure2_reproduction/reproduce_figure_2.py
```

The wrapper writes Figure_2.png, .pdf and .svg to figures/, together with a generated plotting manifest. It only supplies package-relative input and output paths to the supplied plotting source. It selects the 14-path figure; the script’s optional 16-path variant is not the submitted figure. The original display input is data/least_cost_path_outputs.json within this reproduction directory. The complete matrix is read from the package’s data/complete_matrix/primary_complete_paths.json for its recorded checksum. No least-cost search is run.

The package’s figures/figure_manifest.json identifies the supplied figures and captions. Rerunning the plotter reproduces the artwork. PDF and SVG metadata may differ between runs.