

Rapidis

Esri Business Partner since 2003
Software for analysis and modelling in Transportation and Transit.

Software for Route Planning and Logistic optimization.

ArcGIS based

All analysis and modelling tools use ArcGIS as their platform. Accessible for users, great presentation of results and a good platform for integration and

Data

Easy import of GTFS and use of available street network data to establish a basis for analysis and planning work.

Comprehensive Data Model for Transit.

Analysis can use stops, zones or addresses as their foundation.



Transit Analyst

Insight in travel patterns and passenger flows

- Get the complete picture of how passengers travel
- Model and assess how passengers change between lines and modes
- Forecast consequences from service changes; before implementation
- Analyze alternative scenarios

Travel Patterns – Passenger OD Matrix

Output:

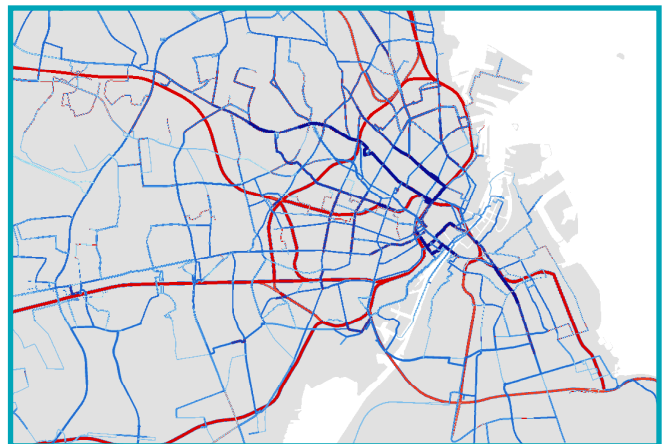
- All journeys and passenger flows
- Every individual trip with all details
- Changes between lines and modes

Input:

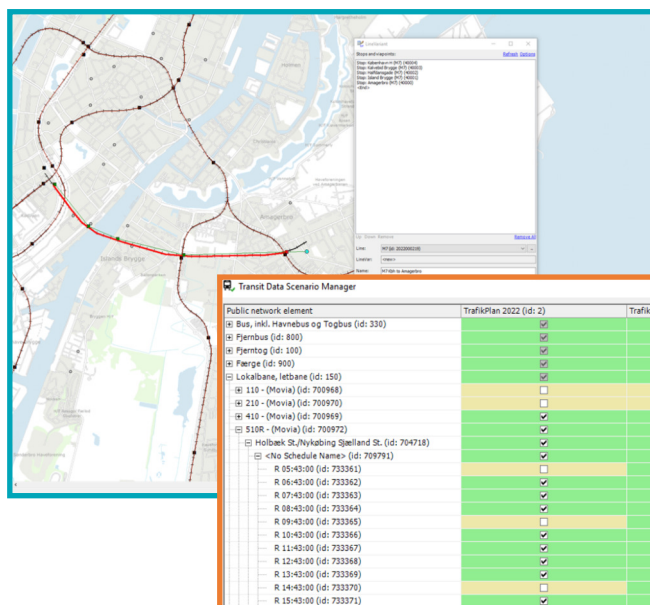
- Timetables; import for GTFS
- Passenger counts/travel card data

Route Choice Modelling:

- Synthesizes a complete OD matrix when travel card data and counts are incomplete



Forecast consequences from service changes

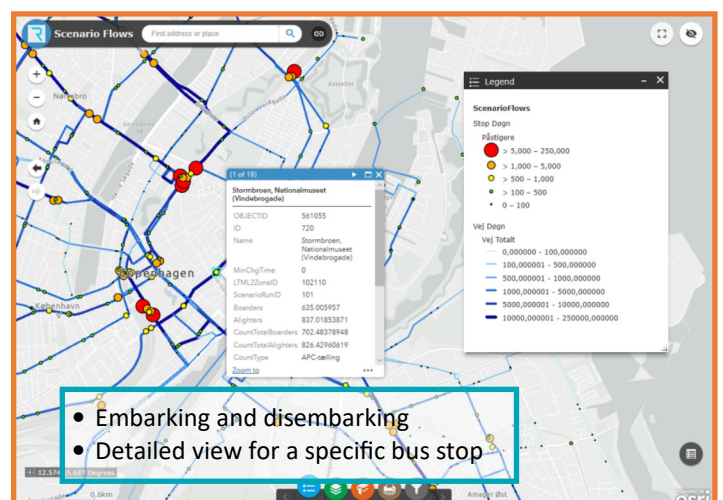
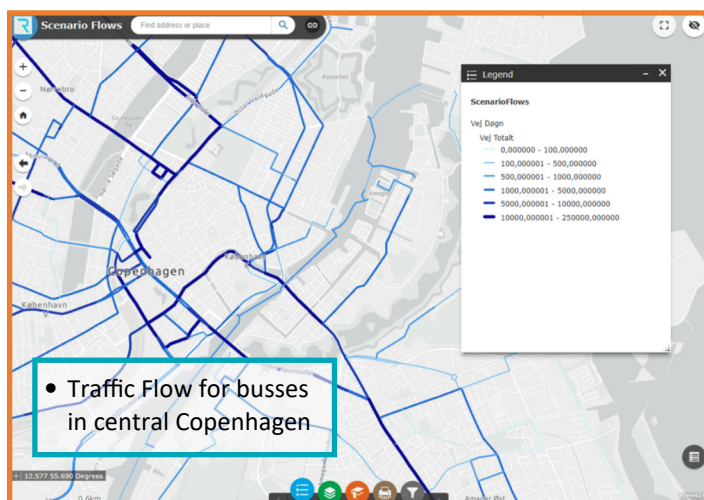
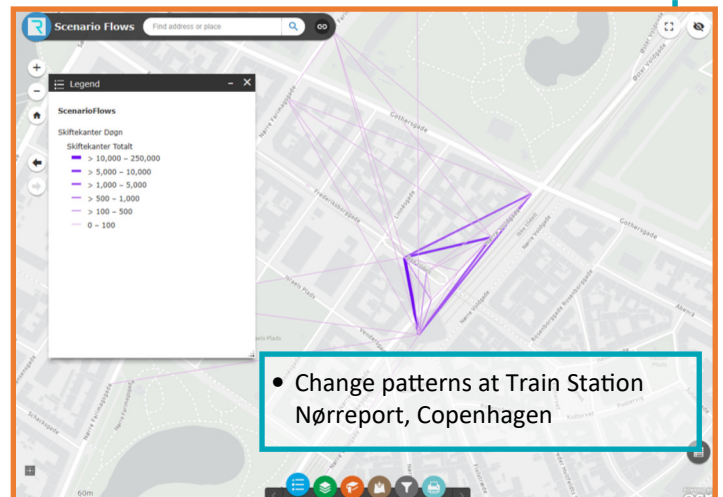
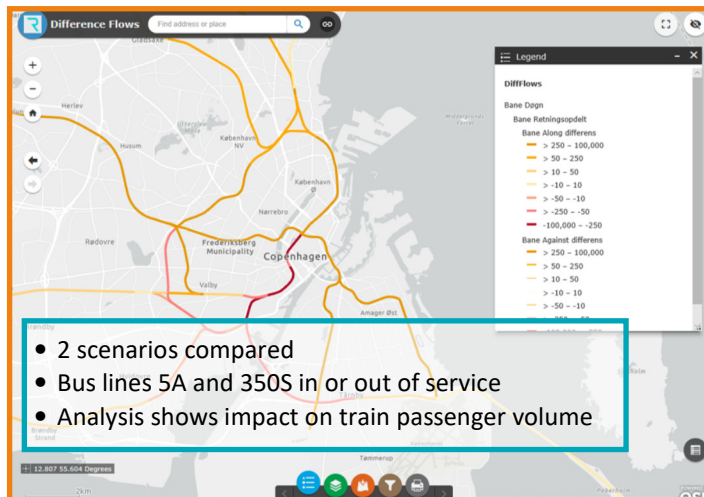


Scenario Manager:

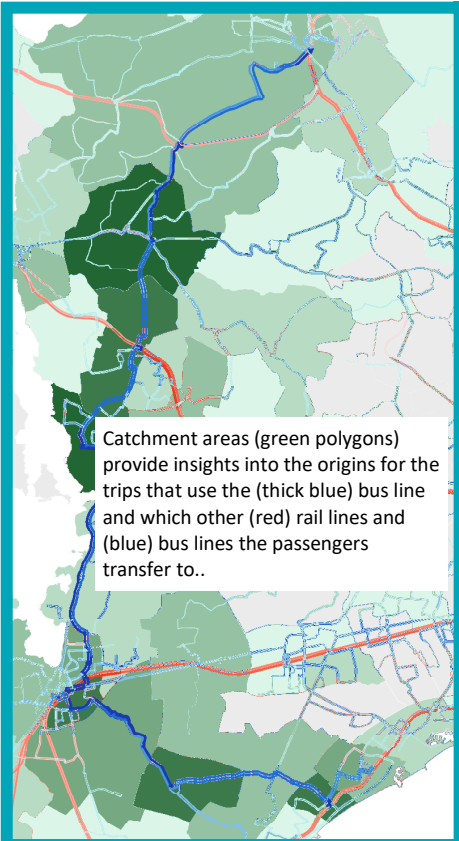
- Create new lines or change existing lines or schedules
- Transit Analyst will analyze which passengers will be affected and which alternative routes they will choose
- Calculate which routes will have more or less passenger volume if changes are implemented

Web Presentation Module (examples)

Easy access to results and analysis with the web presentation module



Case: Movia— Analysis using counts and travelcard data



Movia is responsible for bus transit in the Copenhagen area. Using embark/disembark counts and travelcard data a monthly report is produced showing trip patterns, passenger flows, transfer patterns and more. By updating this report monthly Movia is able to monitor impacts of service changes, events and more. ArcGIS helps provide an overview of the complex data.

Case: DSB; Danish National Railways

Daily Insight for Copenhagen Urban Rail

Copenhagen Urban Rail collects a large amount of daily data; embark/disembark counts as well as onboard counts with high average coverage.

Using this wealth of data an hourly trip pattern is estimated as well as passenger flows.

