

Swiss Rail Network

Research question:

What modifications **raise the capacity and the efficiency** of a rail system by applying network theories and by changing parameters of our model?

Modeling:

- Apply theory to Swiss rail system.
- Contingency plan: General Gravity model.

Parameters

- Network/Connection/Connection types
- Delay resistance
- Speed between stations
- Hold time at the station

References:

1. Marc Barthélemy, "Spital Networks", 2011
2. Maciej Kurant and Patrick Thiran, "Extraction and analysis of traffic and topologies of transportation networks", 2006
3. Jago Dodson, Paul Mees, John Stone and Matthew Burke, "The Principles of Public Transport Network Planning: A review of the emerging literature with select examples", 2011