

# Assessing the impact of the new Gotthard Base Tunnel



The Gotthard Base Tunnel was opened in 2016. What impact has the tunnel had on passenger and freight transportation? And what impact has it had on the economies, local populations, and settlement patterns of the cantons of Ticino and Uri? Working together with the Swiss consulting firm INFRAS and the Swiss engineering firm Brugnoli e Gottardi, we applied 33 indicators to assess the initial impact of the new railway infrastructure. In 2023, our investigations will expand to include the new Ceneri Base Tunnel and the new cantonal railway station in Altdorf.

## Client

Swiss Federal Office for Spatial Development (ARE)

## Facts

Period 2019 - 2023

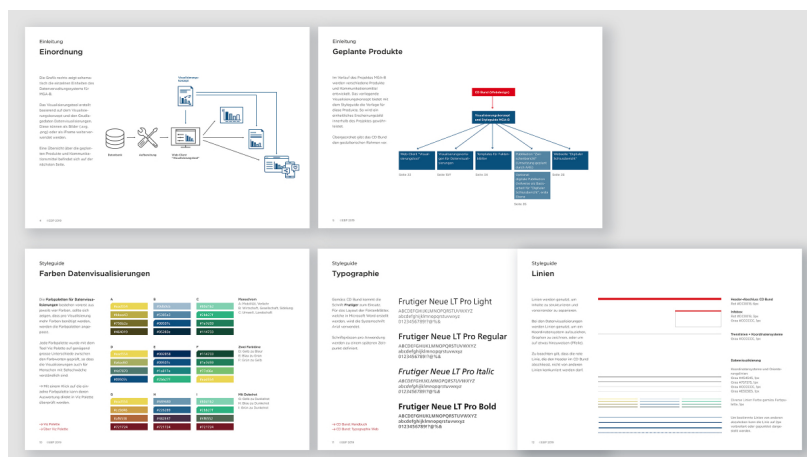
Project Country Switzerland

## Contact persons

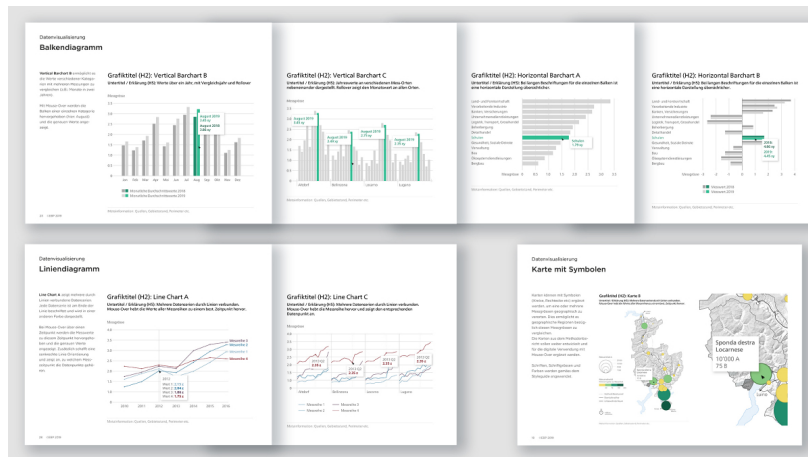
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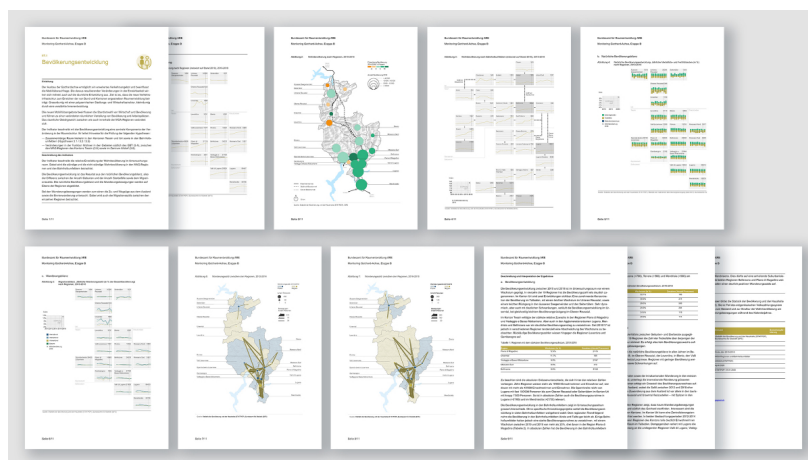
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The visualization concept defines visual components and their application throughout the project.



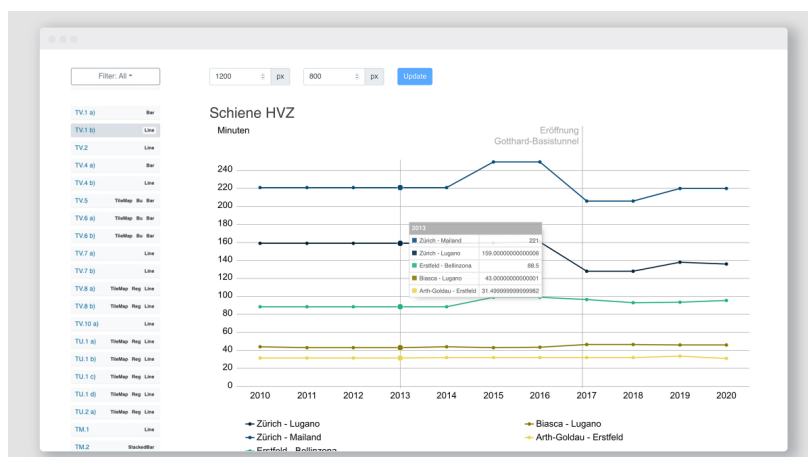
Various forms of data visualization at conceptual level.



Each of the 33 indicators is described in a multi-page fact sheet.

## Our services

- Development of a visualization concept
- Implementation of a dynamic visualization tool
- Further development of a monitoring concept and final specification of assessment indicators
- Procurement and processing of data
- Creation of data visualizations for synthesis
- Description and interpretation of economic, settlement, and population developments



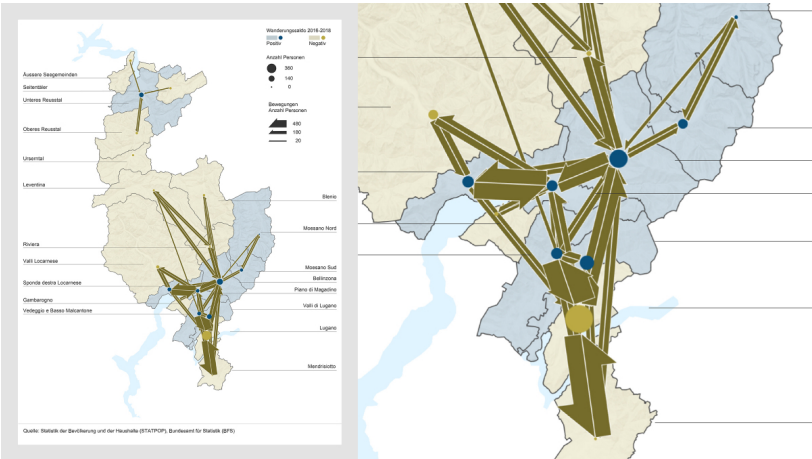
A web-based visualization tool enables the efficient creation of many data visualizations.



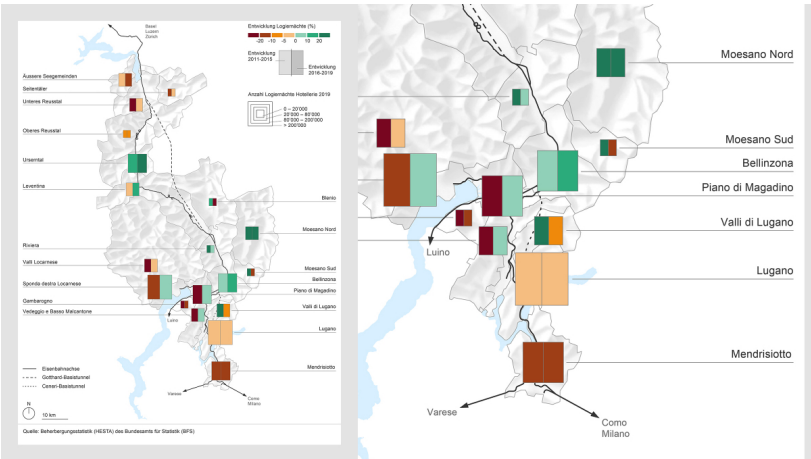
Tilemaps are deployed to compare the various geographic regions.



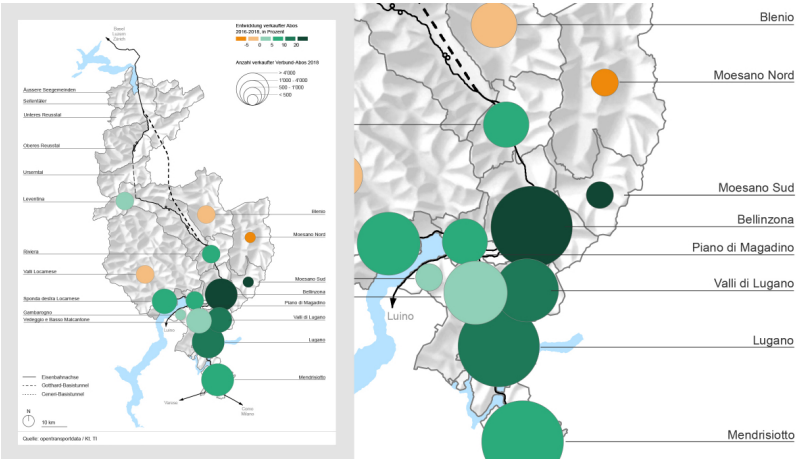
The individual tiles in the tilemaps represent the geographic source of the recorded data.



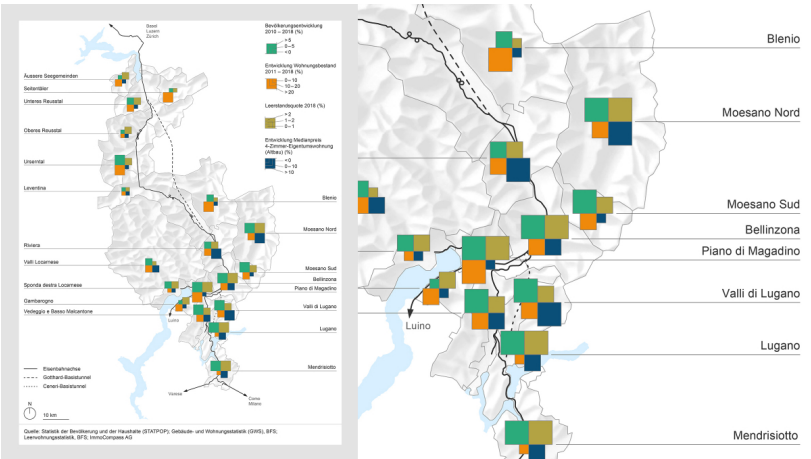
Commuter transportation flows are represented using flow maps.



Synthesis representation: Change in overnight stays in percent and absolute number of overnight stays.



Synthesis representation: The absolute number of purchased transit passes in Ticino and the development of transit-pass sales from 2016 to 2018.



Synthesis representation: Comparison of population development, housing units, unoccupied housing units, and housing prices per region.