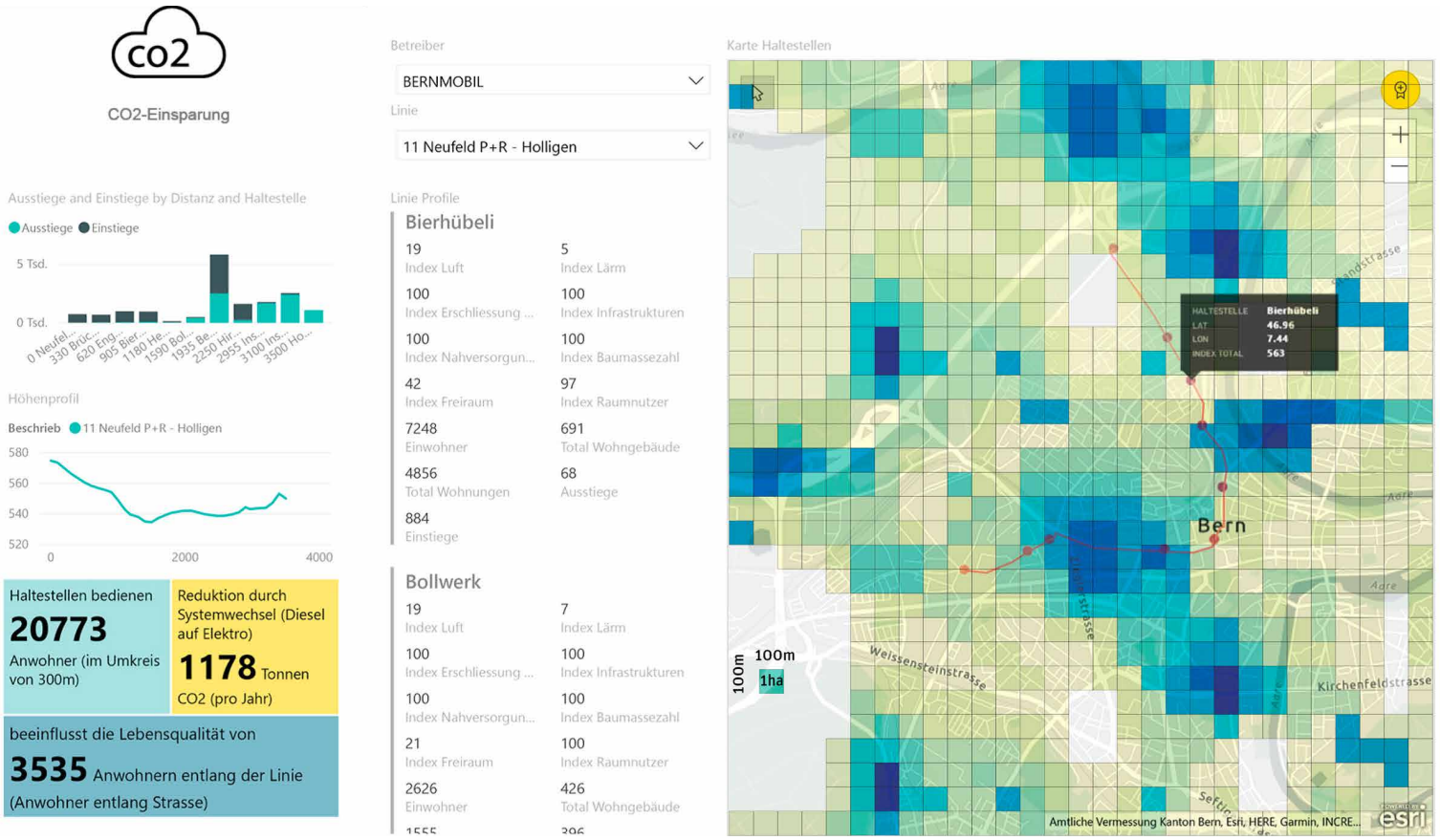
EN

e-MIP



electro-Mobility-Information Planning

towards a smart e-bus system

MOTION & EMOTION HESS

e-MIP

The rapidly growing mobility and digitization are among the most significant challenges of the 21st century. In order to shape the future, it is important not to lose sight of global trends and to make targeted use of local framework conditions. The e-MIP tool developed by HESS and the Bern University of Applied Sciences is an excellent starting point for this. e-MIP meets the most varied requirements and has distinguished itself through continuous development.

Testing areas
City of Bern, city of Biel

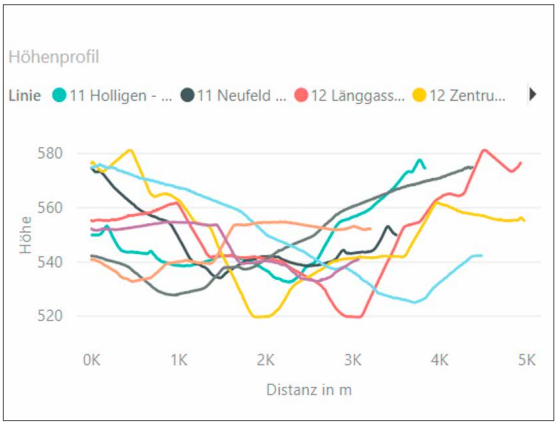
Performance
The e-MIP tool allows to present the urbanistic context and the impact of new electric bus lines.

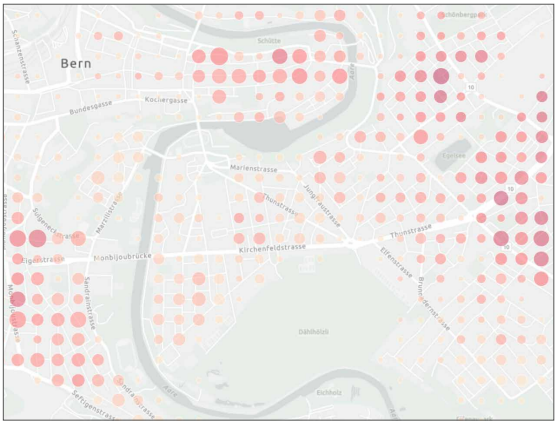
Targets
Quantitative arguments to reduce greenhouse gas emissions and to increase residential qualitiy development by use of electric buses.

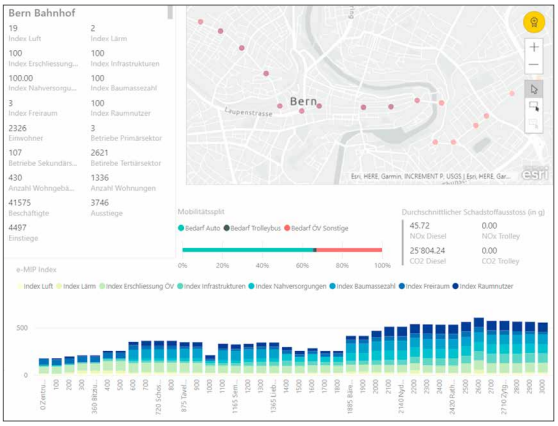
Methodology
Automated and data based urbanistic analysis for the evaluation and decision making of new electric bus lines in the battery-supported public bus transport, particularly for «Dynamic Charging», considering energy data (CO_2 emissions) and mobility data.

Added values
Individual Cockpit with presentation of (examples, depending on delta CO_2 emission, data basis in case of modified systems)
- Concentration (residents, local supply, …)
- Presentation of residents on existing/new line
- Potential passengers in the environment of existing/new bus stop
- Overview entries and exits
- Statistical energy consumption of systems/Messures values for electric buses
- Statistical conduct of residents regarding public transport
- Incline, length, average time

Data integration
Data of Opensource (for example openstreetmap.org, publictransportdata.swiss), producer, transport services, city administrations, BfS, etc. Integration in GIS data base and evaluation/visualisation in Microsoft PowerBI.







A project of: Innosuisse, BFH, HESS

Schweizerische Eidgenossenschaft
Confédération suisse
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Innosuisse – Swiss Innovation Agency

Berner Fachhochschule

Dencity
Urbane Entwicklung und Mobilität

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