



Bringing Transpostutigant & Data into the Digital Age

Digital Traffic-Flow Optimisation - City of Stuttgart

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SESSION 4B

HTTPS://POLISCONFERENCE2023.EU/







DVFO - Background, Facts and Goals

Background & Motivation

- Major air quality challenges caused by traffic emissions
- Preliminary assessment showed high emissions & road-safety problems caused by high accelerations
- Causing reduction of emissions & increase of road safety by consistent traffic flow

Project Facts

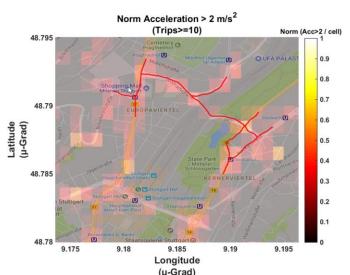
- Project cofunded from the federal government
- Project-budget: 6,2 Million €
- Digital & data driven concept
- Collaborate project of 7 departments of the city administration of Stuttgart

Facts Gefördert durch:



aufgrund eines Beschlusses des Deutschen Bundestages

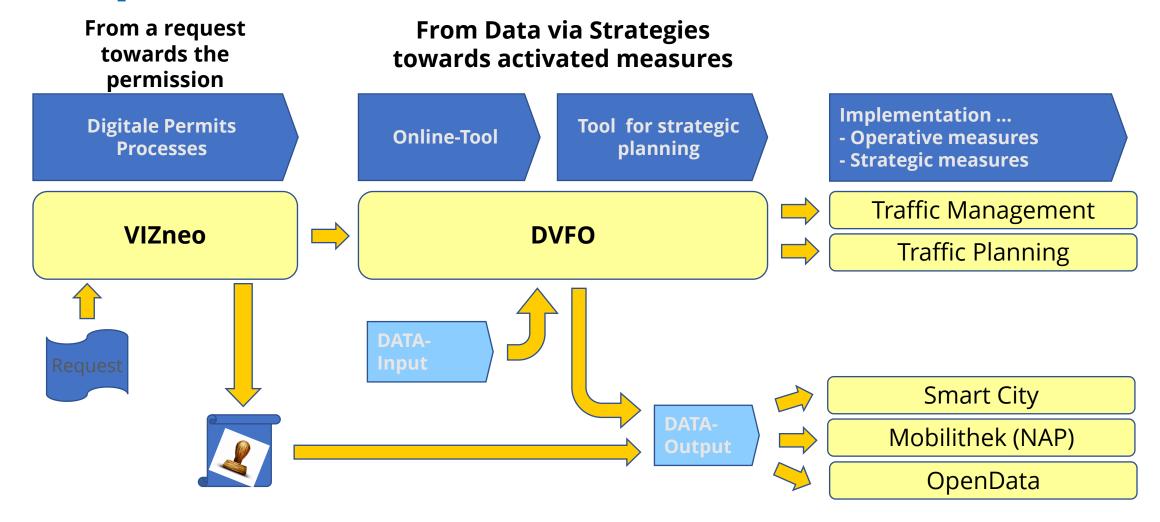
Goal ➤ acheiving traffic flow and lowering traffic emissions, immissions and increasing road safety





Integration into the administrative STUTTGART Processes of the Traffic Licensing Department







DVFO - Concept



Traffic-Data

Fleet Data

Data of Environment & Klimate

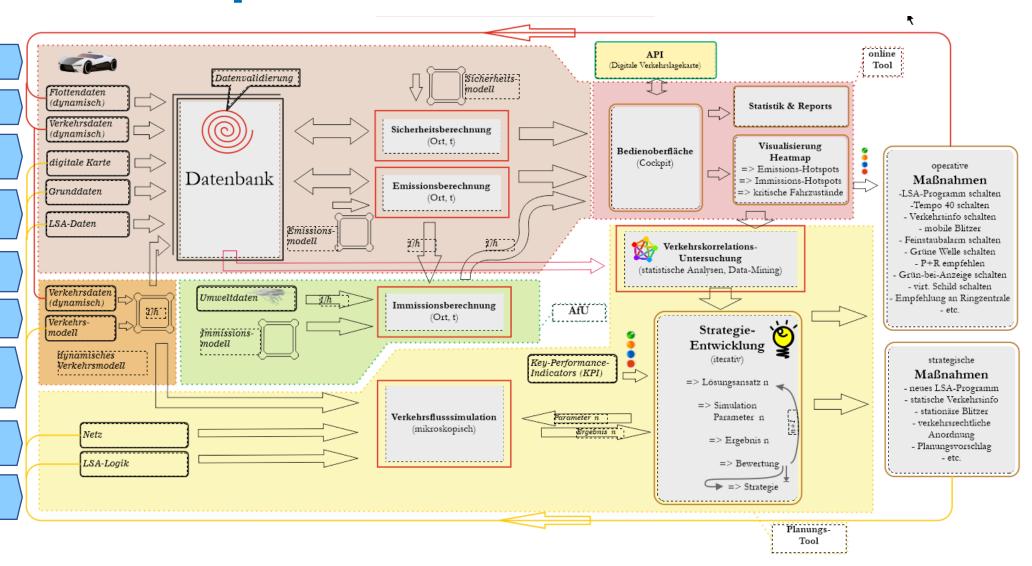
Traffic signaling
Data

Traffic Events

Data of Permissions (VIZneo)

Road safety statistics

Digital Map





DVFO - Concept

In-Vehicle-Data

Traffic-Data

Fleet Data

Data of Environment & Klimate

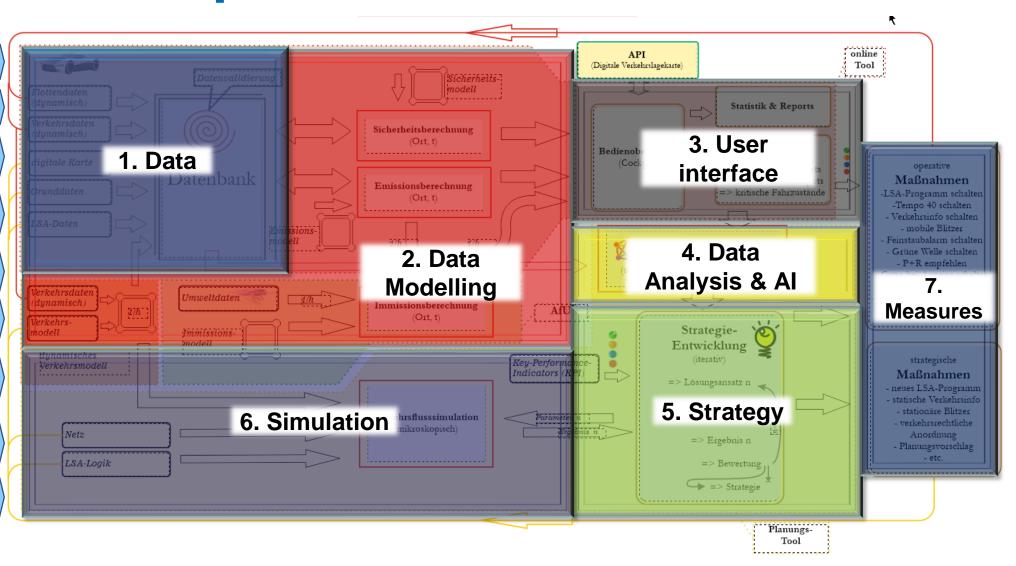
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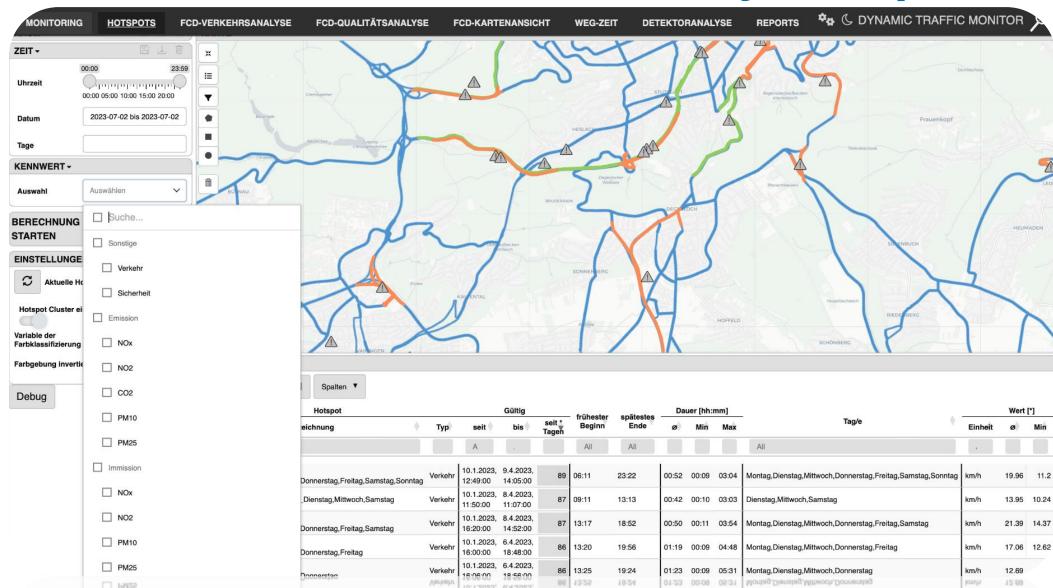
Road safety statistics

Digital Map





DVFO - Emissions & Road Safety-Hotspots





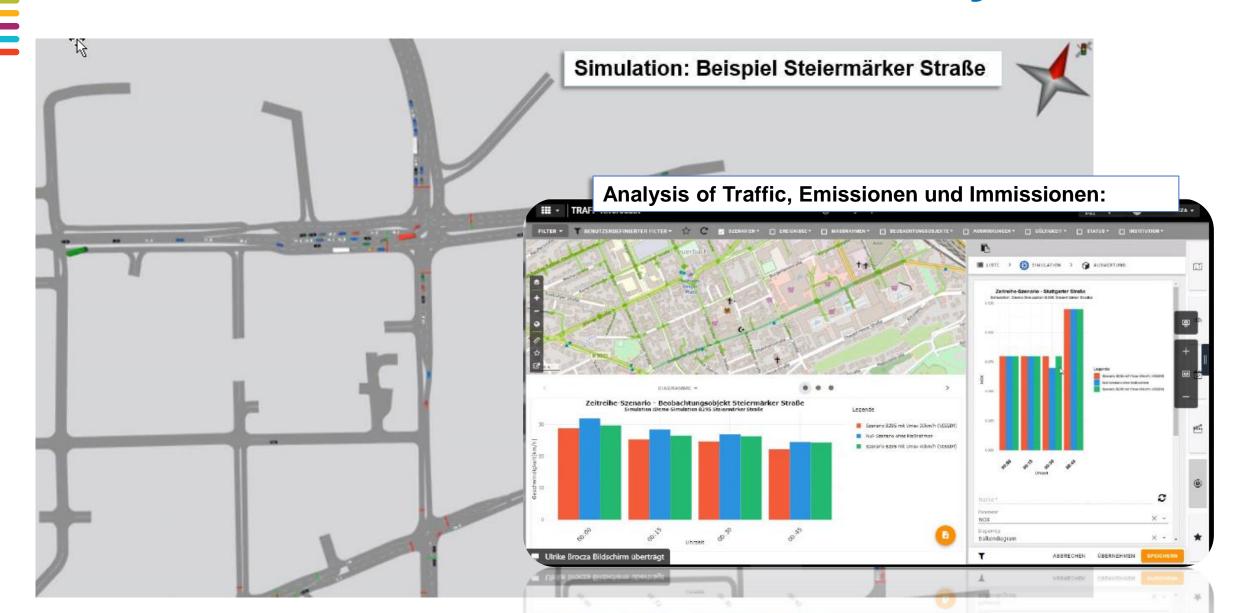
DVFO - Strategy Development







DVFO - Simulation and Effect Analysis





DVFO - Data Sources

In-Vehicle-Data

Traffic-Data

Fleet Data

Data of Environment & Klimate

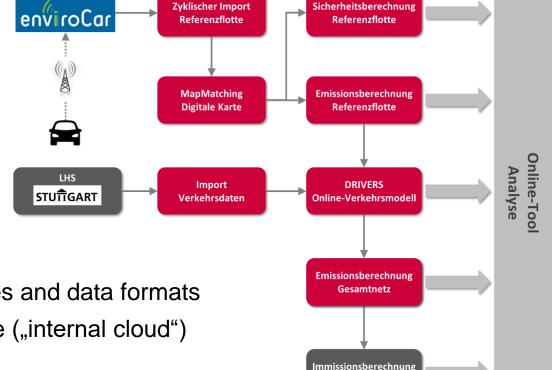
Traffic signaling

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Digital Map



Gesamtnetz

Key factors

- Using Standard interfaces and data formats
- Powerful IT infrastructure ("internal cloud")
- Using Community Data
- Owning the licenses of all data modells
- Using web-technology

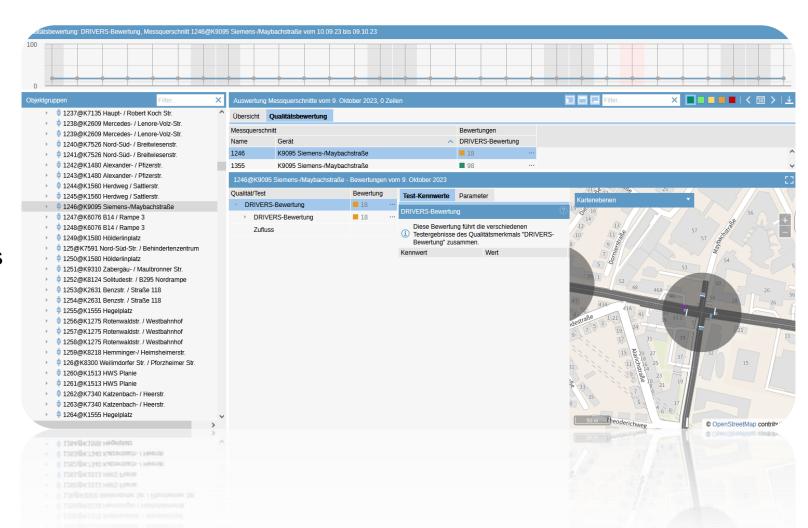




DVFO - Dataquality

Key factors

- Quality control of all data!
- Using various QM methods
- Using open standards for Data
- Installing processes for data maintenance
- Using digital workflow processes





Thank you for your attention!







For information: