

Thomas Jacob / Matthias Wieckmann Senate Chancellery / Digital City Co-Ordination Office

Free and Hanseatic City of Hamburg Senate Chancellery

www.mediaserver.hamburg.de/Maxim Schulz





DIGITAL CITY STRATEGY (1)

- State Secretary Council
- CDO / Department for IT & Digitisation in Senate Chancellery (2018)
- Digital City Co-Ordination Office (DCCO, 2015)
- HafenCity University/MIT:
 "City Science Lab" (2015)

- Centralised vs. decentralised
- "Partial strategies" by specialist authorities (mobility, energy, etc.)
- (Pilot-)Projects, initiatives

Strategy approved by the Senate in January 2015

- Administration: public companies, specialist authorities
- Companies
- Universities, schools
- Citizens

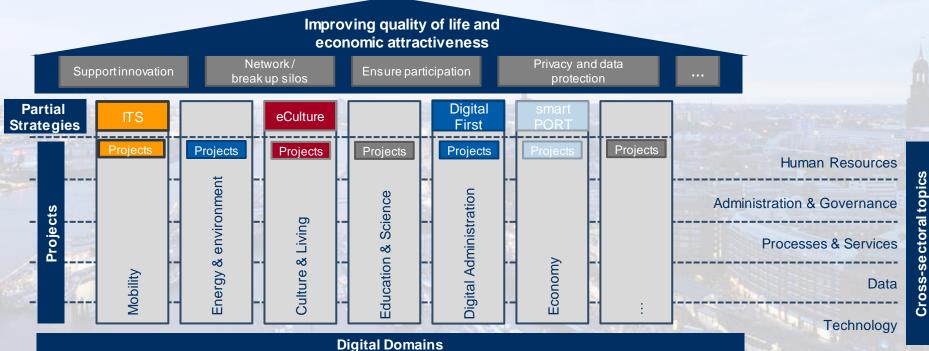
DCCO

- Integration of partial strategies
- Support innovation
- Break down connect/ silos
- Establish governance structures

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DIGITAL CITY STRATEGY (2)



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TRAFFIC / MOBILITY





MOBILITY IN HAMBURG - OBJECTIVES



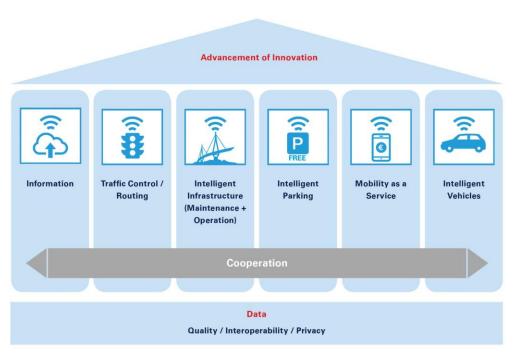




"Digitising the City"

ITS STRATEGY (1)











Digitalisierung der Infrastruktur



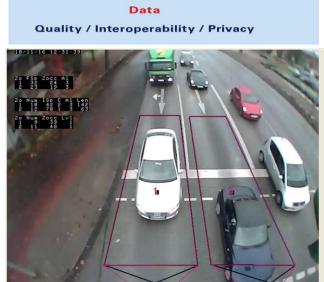
ITS STRATEGY (2)

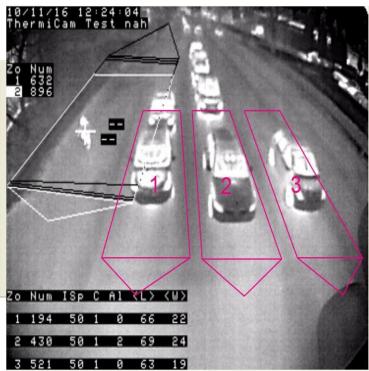


Some projects

- Real-Time Traffic Data
- Public Transport ("check in & be out")
- Online parking detection
- Public ride-sharing services
- Real-Time-Construction-Site-Data (iBake)
- Traffic light forecast

PROJECTS: VIDEO AND THERMAL CAMERAS FOR TRAFFIC DETECTION





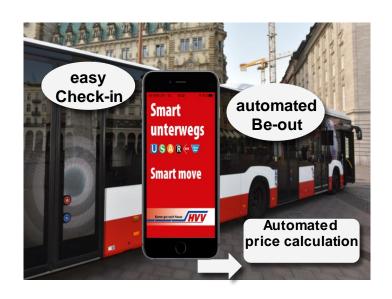
PROJECTS: SMART PARKING





PROJECTS: PUBLIC TRANSPORT







(E)





PROJECTS: ON DEMAND SHUTTLES



 DB-Marke ioki starts in 2018 with 100 vehicles, On-Demand-Service Volkswagen brand Moia will launch "Ride Pooling" operation in 2018: 200 all-electric 6-seater vehicles will stop at virtual stops, planned expansion to 1,000 vehicles







Daimler

AUTOMATED AND NETWORKED DRIVE

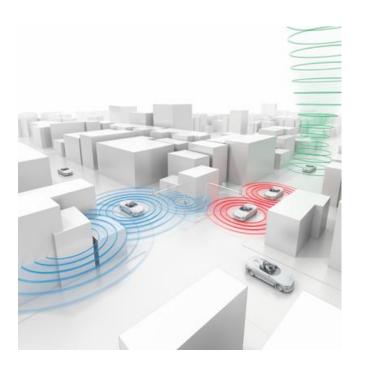
Aims for 2030:

Infrastructure is well equipped to support the automated and autonomous driving (Level 4/5), especially on the Hamburg main road network

Milestone 2021:

An extensive test track has been set up and will be used for testing projects

 Further projects with industrial partners in preparation



AUTOMATED AND NETWORKED DRIVE

Projekt HEAT (Hamburg Electric Autonomous Transportation): Support of a test operation for Autonomous driving with 3.7 million Euros by the Federal Ministry for the Environment



Industriepartner: engineering firm Car and Traffic (IAV, Volkswagen-Beteiligung), Siemens AG

Aims:

Autonomous driving with locally emission-free shuttle buses in Hamburg, planned test track in the HafenCity

Using electric, autonomous vehicles and systems in normal road traffic

ITS WORLD CONGRESS 2021









DIGITAL ADMINISTRATION





PUBLIC ADMINISTRATION – DIGITAL FIRST

Key principles

- 1. Act proactively
- 2. Avoid multiple data input
- 3. Automate
- 4. Communicate digitally





PROGRAM ORGANISATION

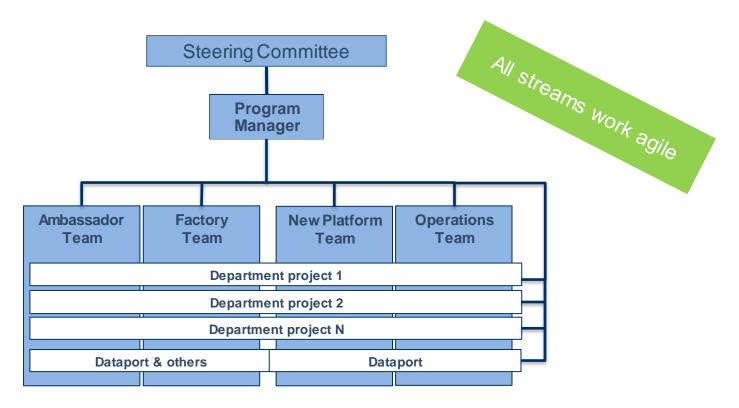
Control

Management

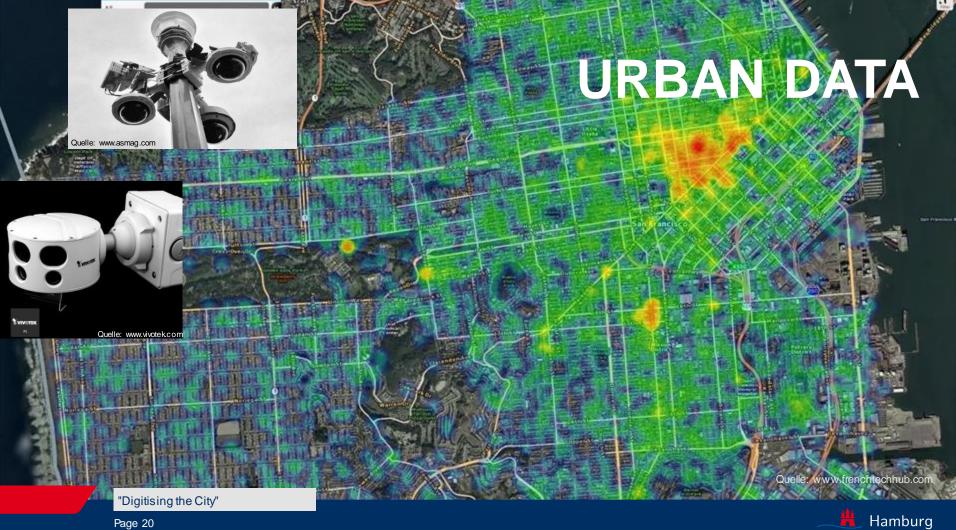
Workstreams

Departments

Supplier

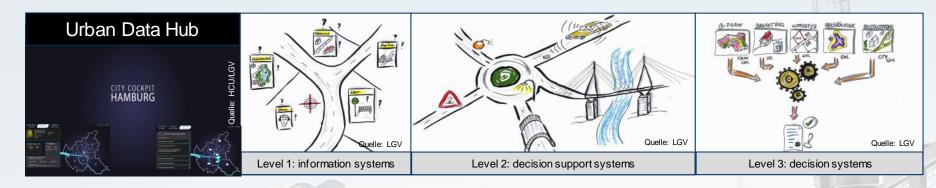








URBAN DATA HUB & CITY COCKPITS



- Implementation of "Urban Data Hub Hamburg"
- Co-operation of State Agency for Geoinformation and Surveying (LGV) and City Science Lab at Hafencity University

UD-Hub is responsible for

- Operation and development of HH_UP
- Data consultancy for (public) institutions and stakeholders in Hamburg
- Development of advanced data governance for Hamburg
- Development of City Cockpits

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THERE IS MORE...



"Elbe+"

"ROADS"



3D Model







