SMARTICIPATE - OPENING UP THE SMART CITY

- HAMBURG'S APPROACH FOR PARTICIPATION -

smart open data services and
impact assessment for open governance

Joachim Rix
Spatial Information Management
Fraunhofer-Institut für
Graphische Datenverarbeitung IGD

Nicole Schubbe
State Agency for
Geoinformation and Surveying,
City of Hamburg

Fraunhofer IGD

Project

Partner

citizens administration business

SMARTICIPATE

Objectives

- Enable interaction
- Improve the information flow
- Impact assessment
- Piloting

EU-Horizon 2020 INSO
Febr. 2016 to Jan. 2019

University of the West of England BRISTOL

Fraunhofer IGD

WE LOVE THE CITY

ICLEI Local Governments for Sustainability

we>transform>to

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY

GeoVille

Geoinformation Vermessung

ROMA CAPITALE

THE ROYAL BOROUGH OF KENSINGTON AND CHELSEA

Visit us on: www.smarticipate.eu

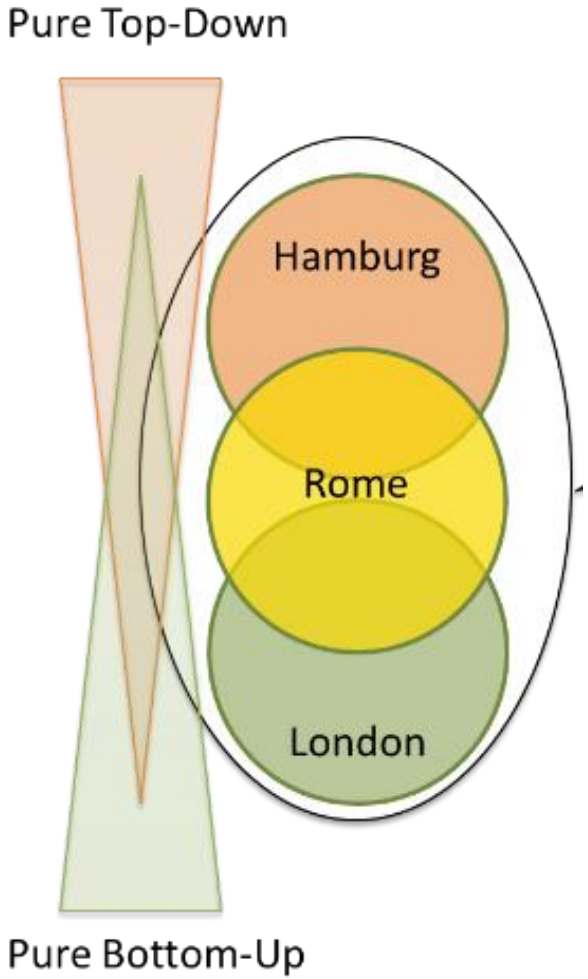
Fraunhofer IGD

Project's impact/results

citizens administration business

SMARTICIPATE

- Stimulating the creation, delivery and use of **new services** on a variety of devices, utilising new web technologies, coupled with open public data.
- More personalised public services that better **suit the needs of users**.
- **Reducing the administrative burden** of citizens and businesses (e.g. collecting information from citizens only once).
- Increased **transparency** of and **trust** in public administrations.

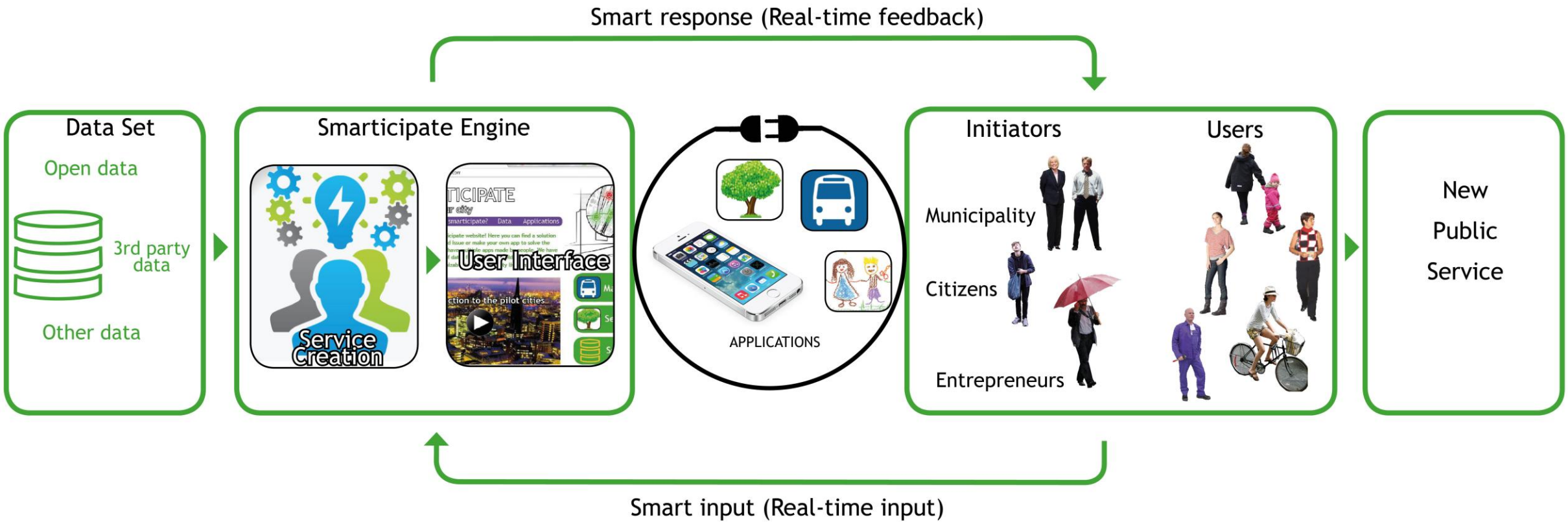


Fraunhofer IGD

smarticipate's added value/innovation (1)

citizens administration business

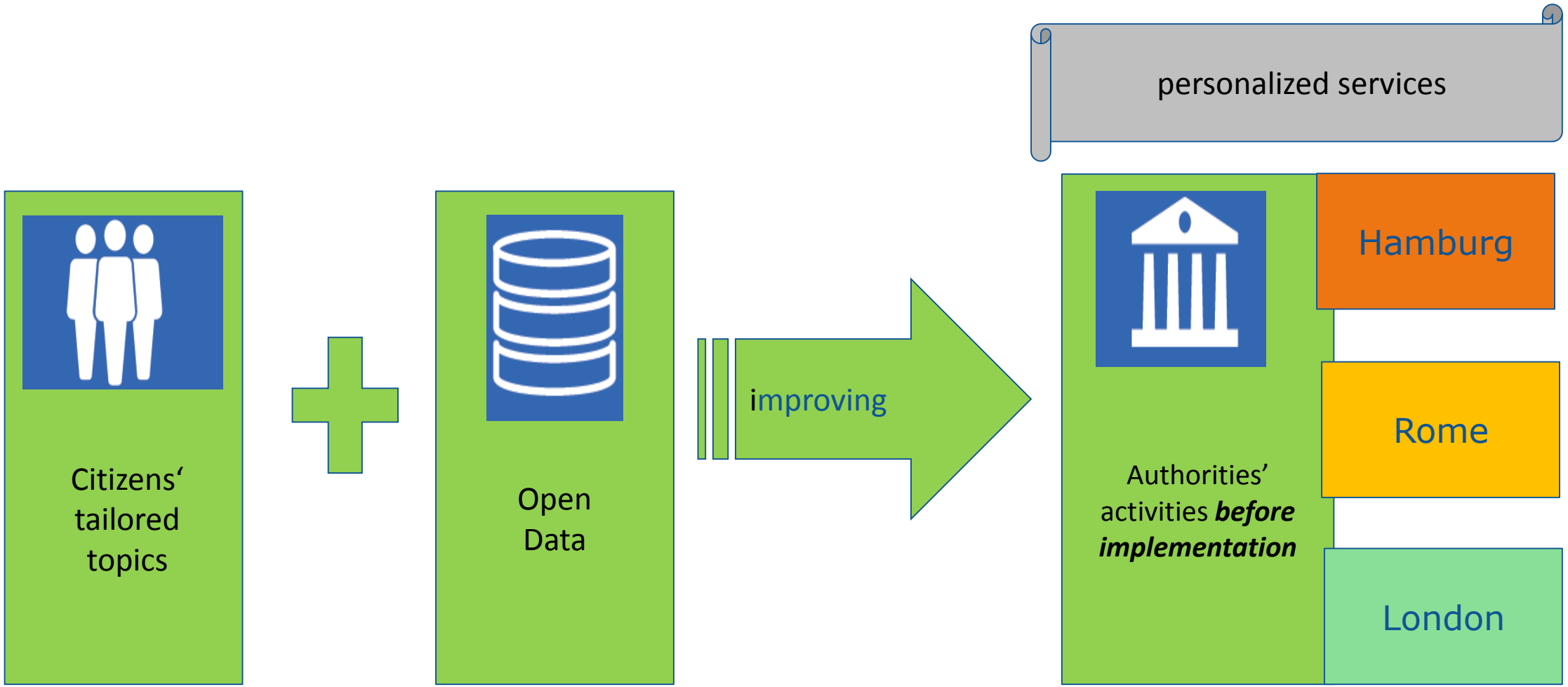
SMARTICIPATE



Interdisciplinarity **Iterative process** **Extensive piloting** **Developments for openness**

Fraunhofer IGD

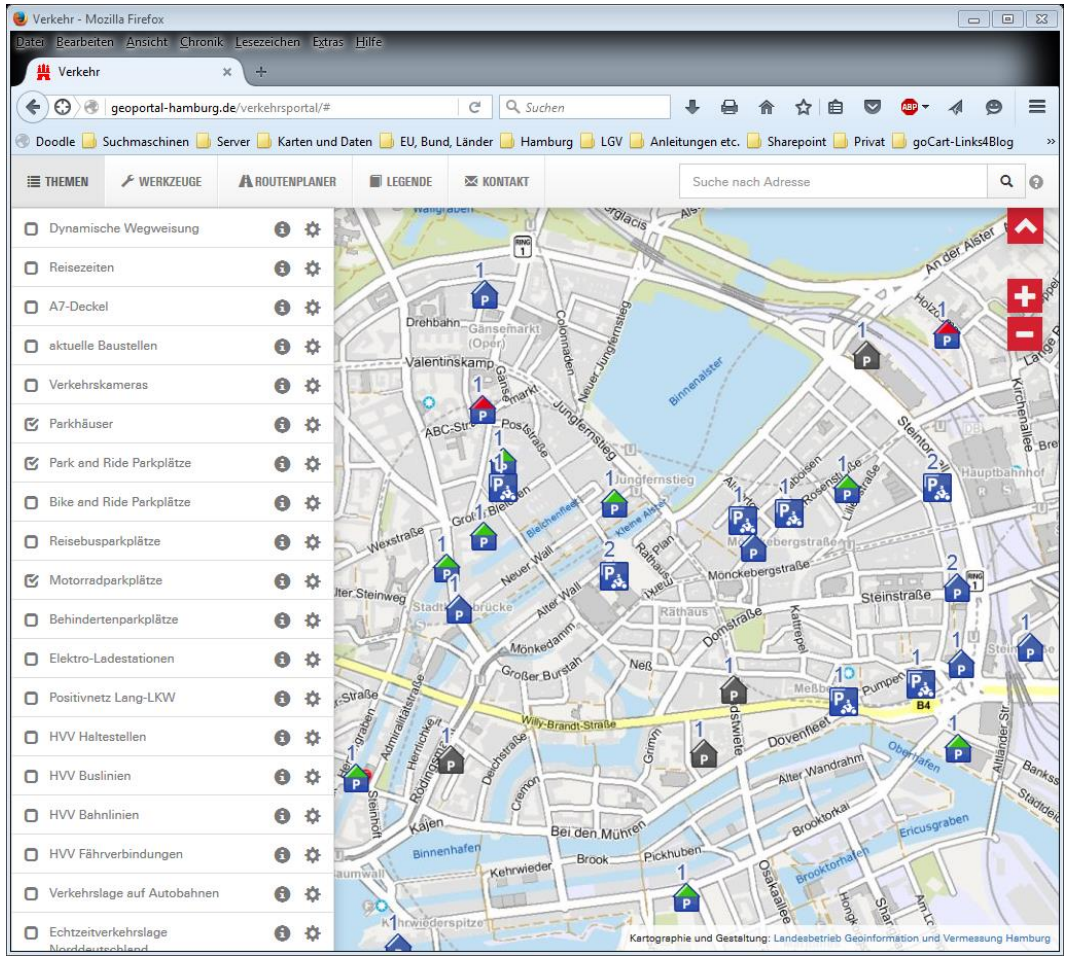
SMARTICIPATE'S ADDED VALUE/INNOVATION (2)



Master-Portal

- Basis for all Geo Applications
- Web client based on open source frameworks
- standard interfaces (WMS, WFS, CSW, WPS)
- modular
- transactional
- responsive Design (desktop, mobile etc.)
- MIT License
- git: https://bitbucket.org/lgv-g12/lgv

→ available within the project



Example: Traffic Portal
http://geoportal-hamburg.de/verkehrsportal/

Transparency Portal

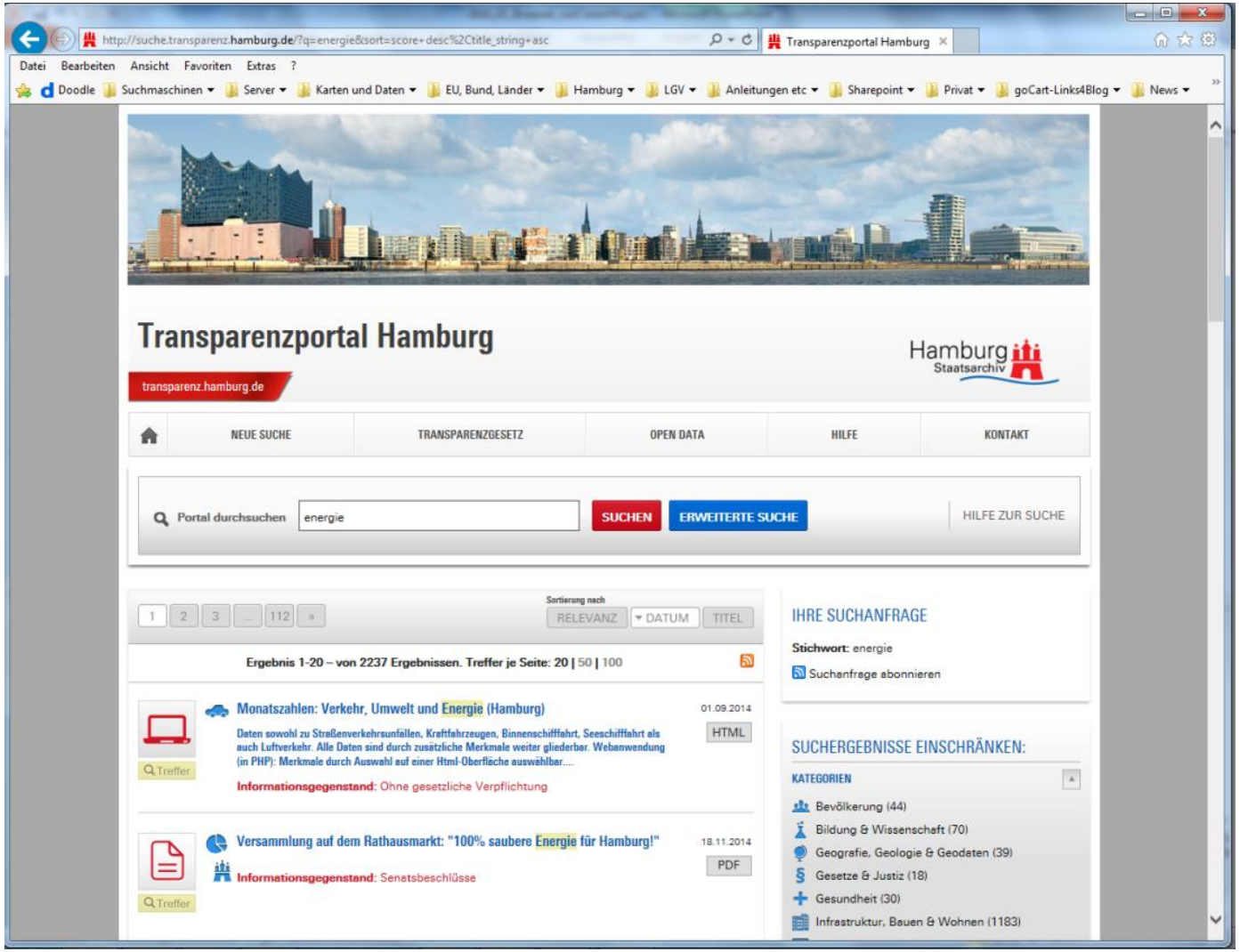
= Open Data Portal

- Transparency law since 2012

→ i.e.:

publication of geodata

(raw data, pdf, maps)



http://transparenz.hamburg.de/

Participation Tool - Informations

Particpation-Sites in Hamburg until 2014:

- Developed by third-party agencies
- Different ranges of Features
- Different look-and-feel
- Different focus

→Different Quality!

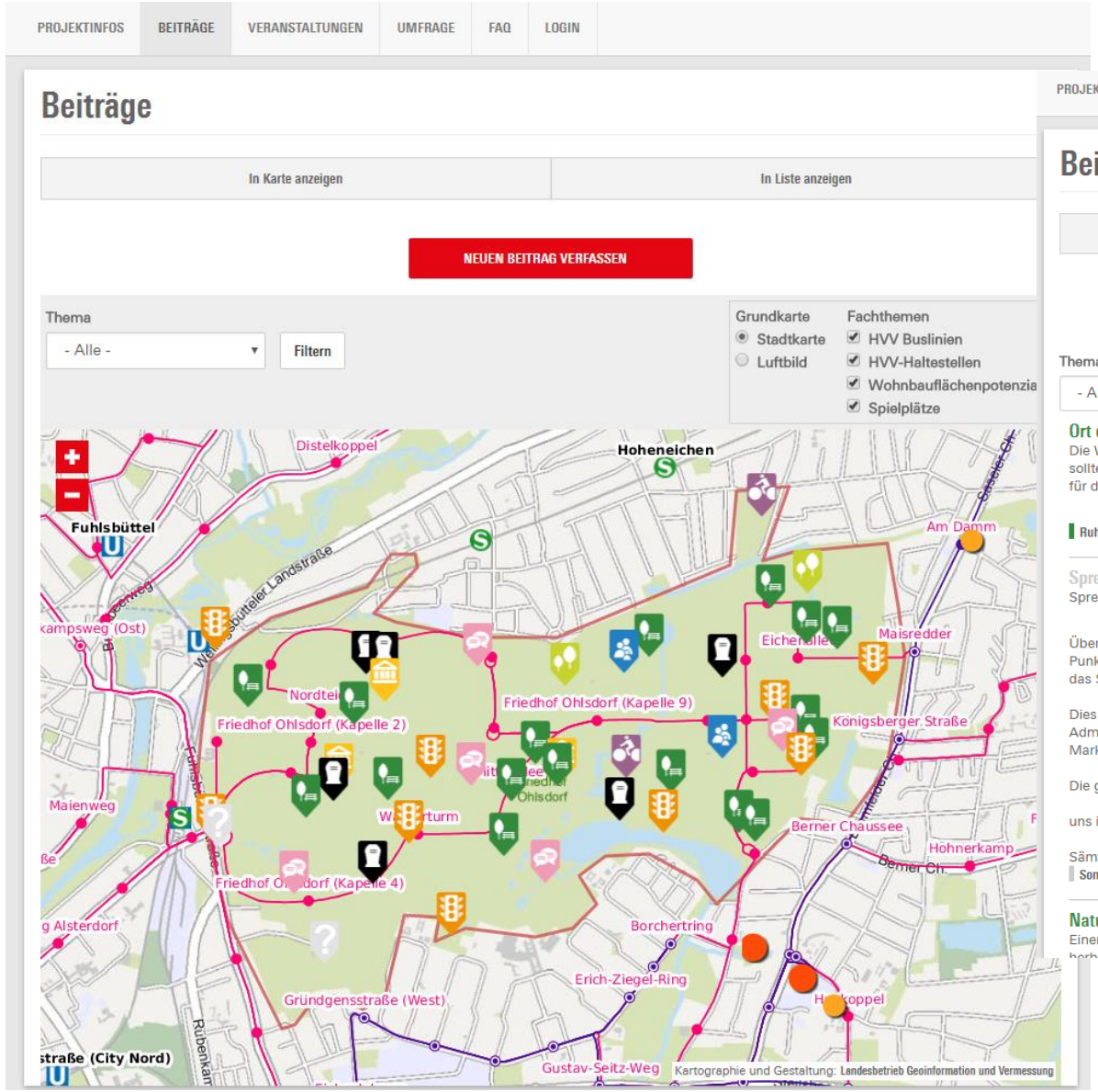
2014:

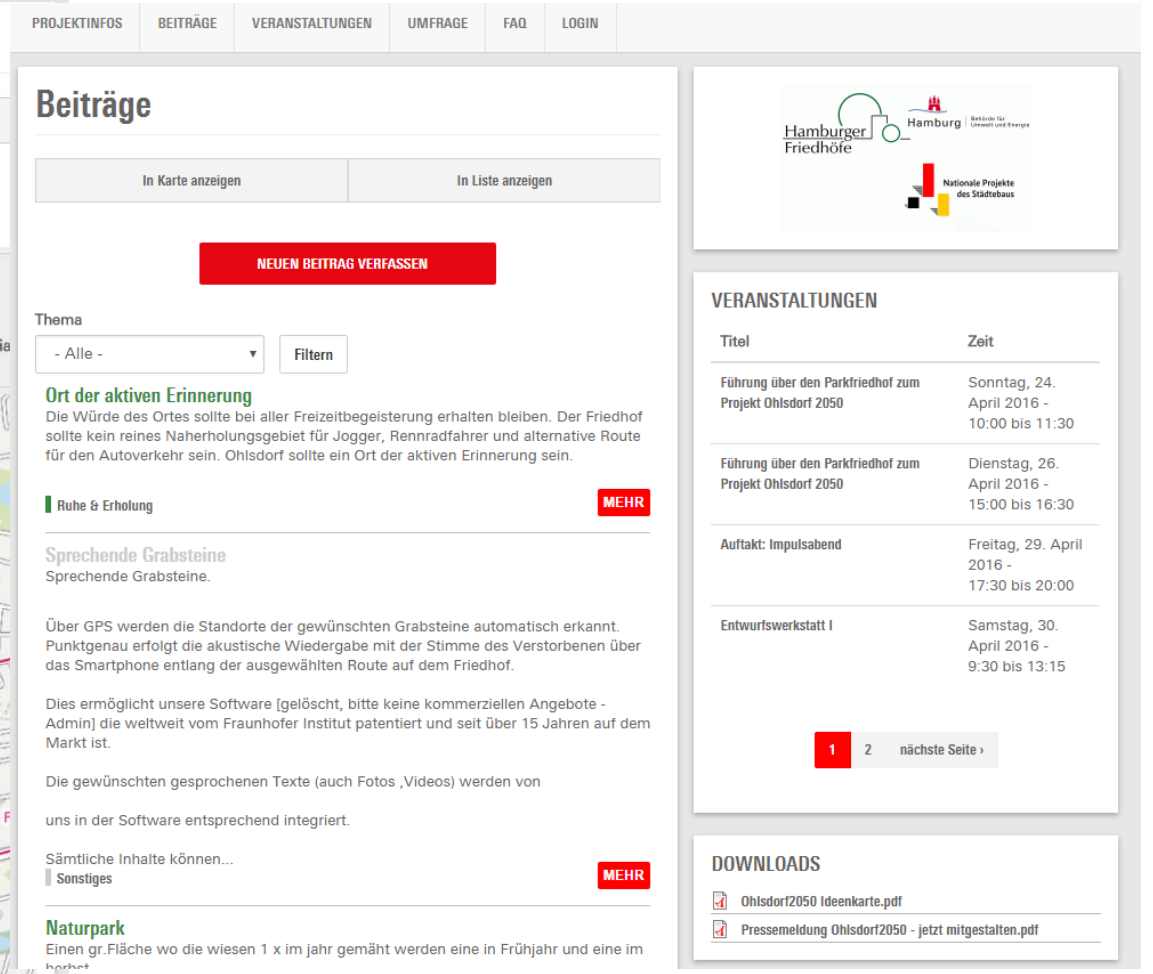
- Stadtwerkstatt addresses LGV to develop Concept for Participation Module

Participation Tool - Contributions

citizens administration business

SMARTICIPATE





Fraunhofer IGD

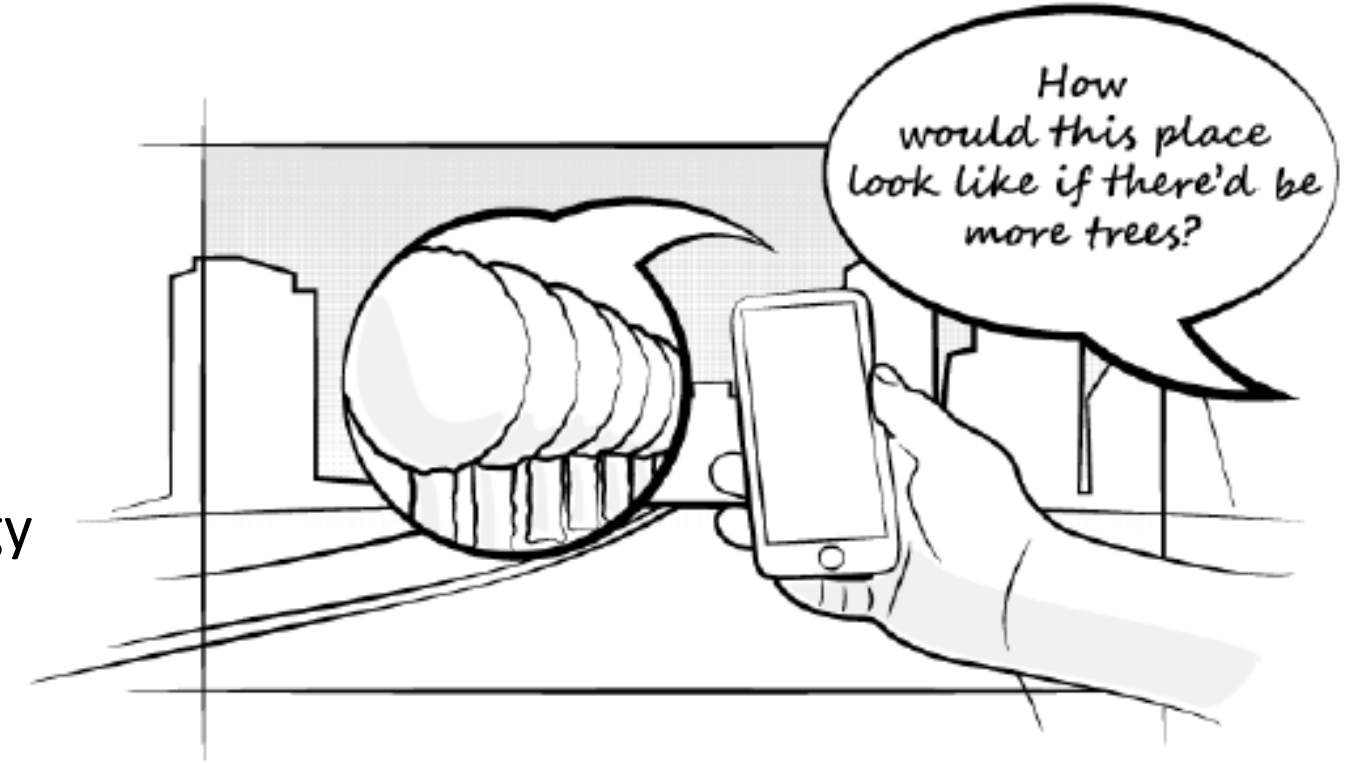
Smarticipate – Hamburg use case

citizens administration business

SMARTICIPATE

Expectations

- Equal access to shared (open) data
  → better participation processes between citizen and government
  → public city cloud
- Enhancement of technology
- Interoperability with existing technology



Scenario

- Location study and Environmental conditions
  - Potential plant location for new trees

Fraunhofer IGD

Potential plant location for new trees

- Impact on solar potential
- current tree population
- Impact on carbon footprint (CO_2-O_2 balance)
- Financial costs
- Ranking of different potential locations

solar potential

current tree population

Environmental conditions – shadowing

- Impact of new trees in terms of shadowing
- Simulation
  - of the tree growth or
  - shadow direction during the day

→ 3D City model and interactive analysis

Vision for the future

- Improve the **city's information flow** by making open data usable – for the **public** and for business development

  → tools for interactions
  between the different sectoral responsibilities at the local level,
  thereby contributing towards
  an integrated and cross-sectorial approach in urban planning

- **Increase transparency** of urban governance through **ICT assisted impact assessment**

- The **smarticipate platform** can be used as basic component by SMEs to develop **new open data based solutions**