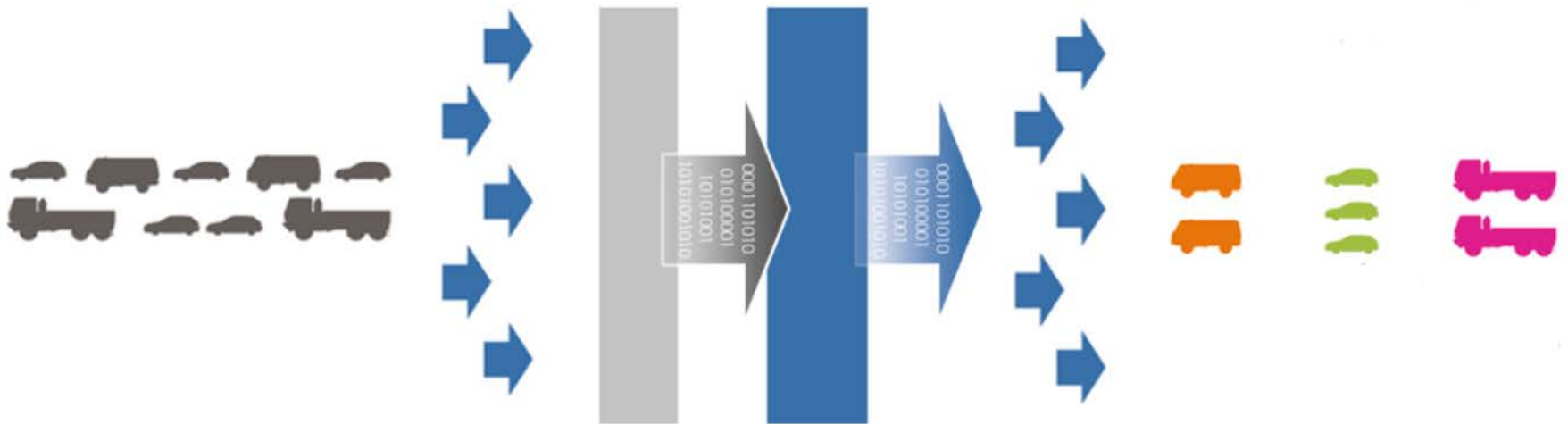# Objectives and Challenges of Project SimpleFleet

SimpleFleet

Rüdiger Ebendt

German Aerospace Center

Copenhagen, 06.05.2012
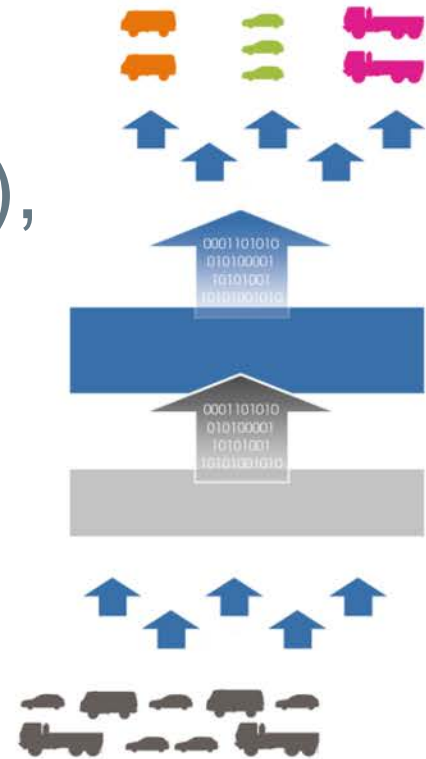
www.simplefleet.eu

Consortium of SimpleFleet

- Coordinator:

  German Aerospace Center (DLR), Germany
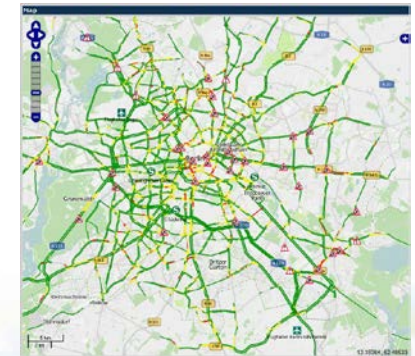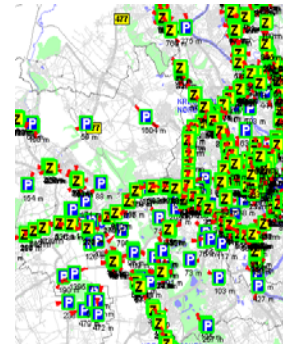- RC ATHENA, Greece,
- WIGeoGIS, Austria
- TALENT S.A., Greece

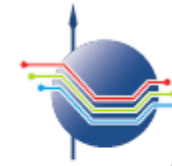Simple**Fleet**

German Aerospace Center (DLR), Germany

- **Institute of Transportation Systems DLR-TS**

- **Coordinator of project SimpleFleet**

  – Traffic data recording

  – Traffic data management

  – Traffic simulation und prediction

- www.dlr.de/ts
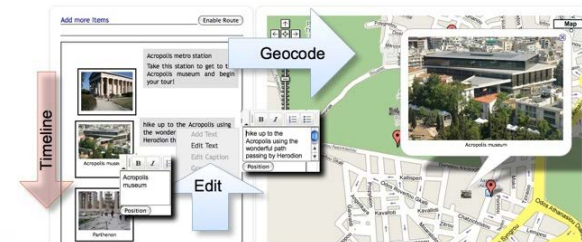
RC ATHENA, Greece

Athena Research Center
Research and Innovation Center in Information, Communication and Knowledge Technologies

- Public research center
- **Institute for the Management of Information Systems (IMIS)**
  - www.imis.athena-innovation.gr
  - data management and large-scale information systems
  - GeoInformatics

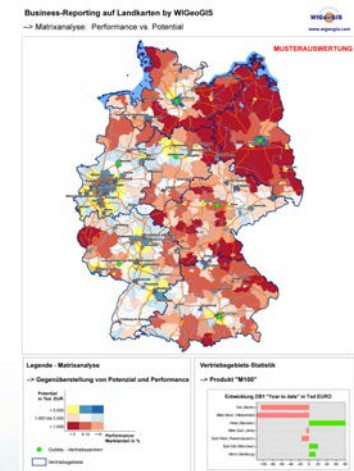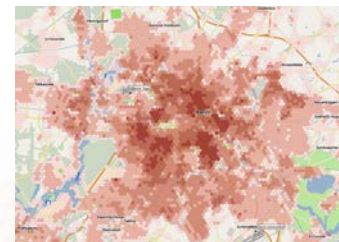SimpleFleet

WIGeoGIS, Austria

WIGeoGIS

Since 1993, **WIGeoGIS has connected corporate data with population and economic data based on digital maps.**

- Spatial business intelligence and geomarketing.
- IP-based map and location services for Internet and mobile Internet.
- Used particularly in information portals,

    in the Intranet and Internet and

    as location based services.

Simple**Fleet**
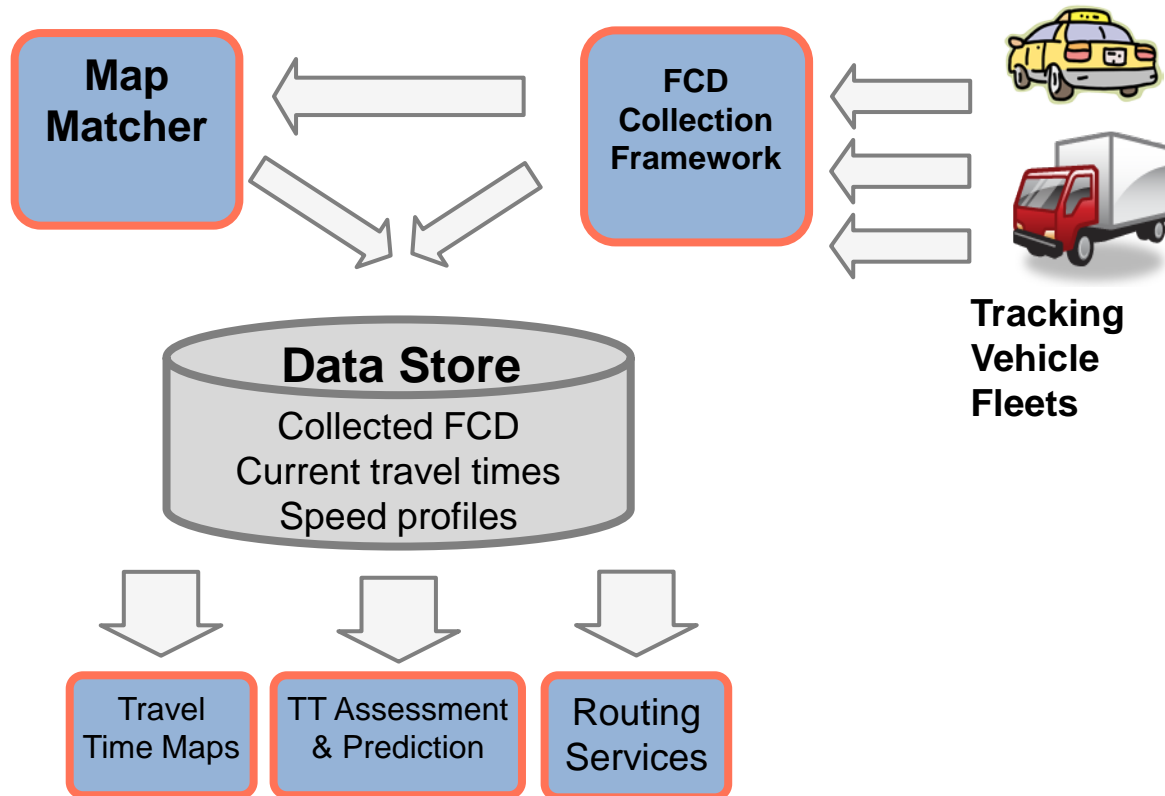
TALENT S.A., Greece

- **Talent S.A.,** founded in April 2003, **is a high-tech company that develops Information systems that involve processing of geographic and geo-coded data**, like

- Fleet management systems

- Web-mapping and publishing systems

- Asset and property management systems

- Crisis management systems

From XY to Traffic

Map Matcher

FCD Collection Framework

Tracking Vehicle Fleets

Data Store
Collected FCD
Current travel times
Speed profiles

Travel Time Maps

TT Assessment & Prediction

Routing Services

Simple**Fleet**

Services
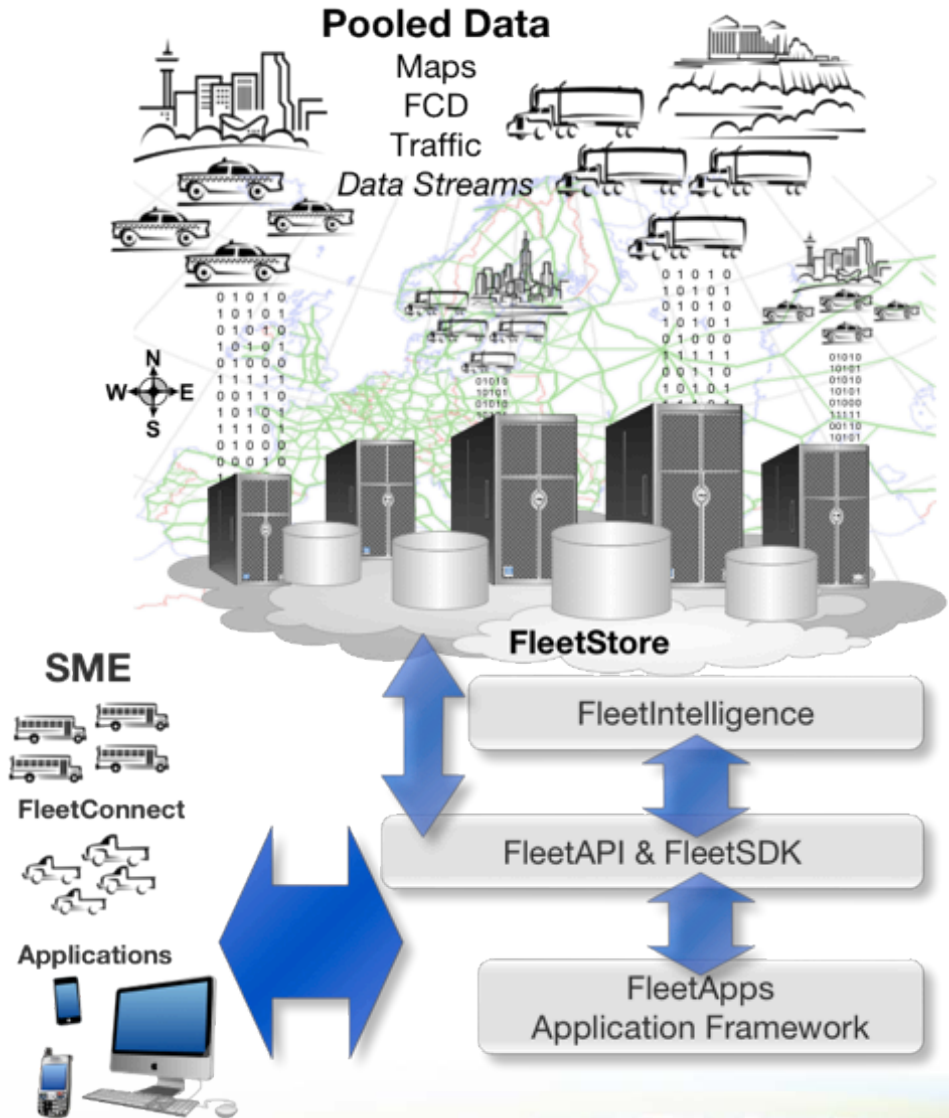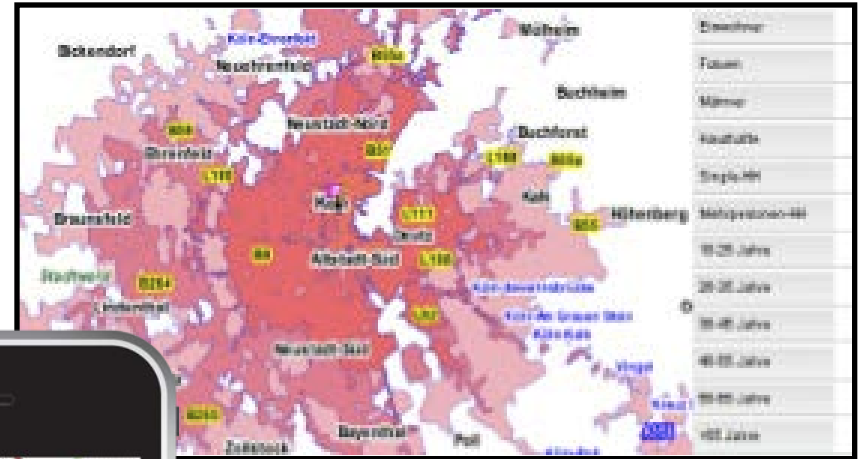# …not just data

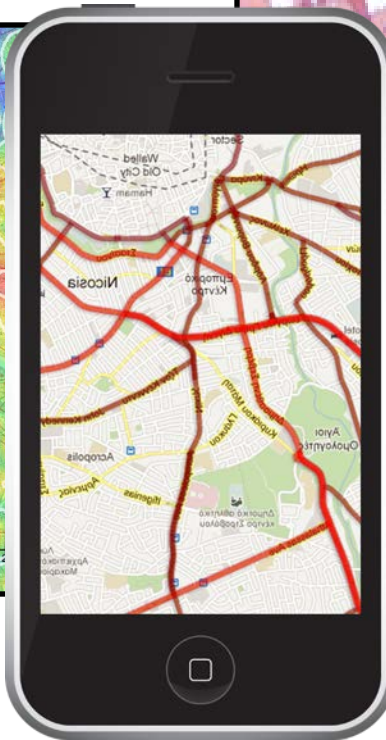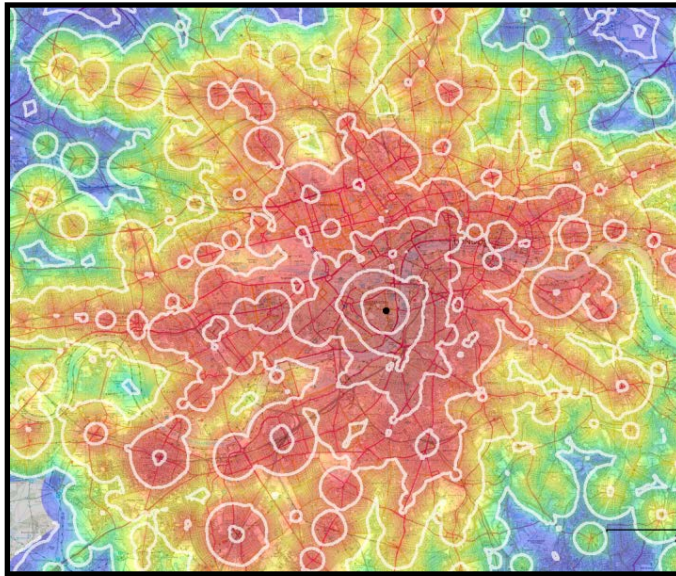SimpleFleet

SimpleFleet

- Live data streams (FCD)
- Algorithmic framework
  - Map streams to network
  - Route vehicles
  - Fleet Statistics
- **Data + Services**
  - **API, SDK**
  - **Application Framework**
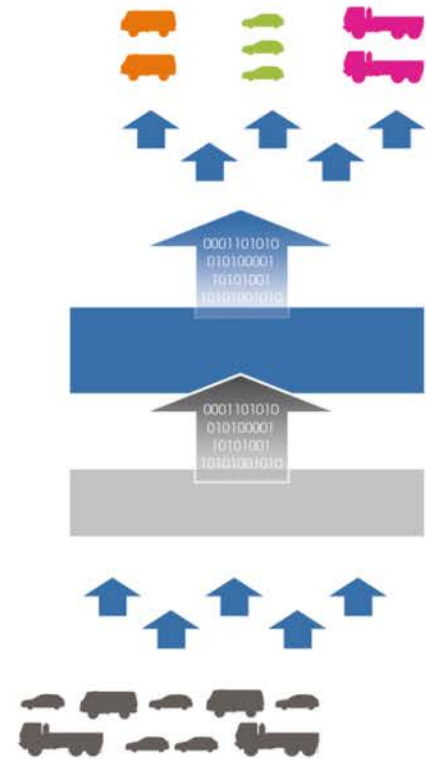- Business intelligence

Visualization, Geomarketing, Demonstrator-App

SimpleFleet

Challenges

- Existing fleet management solutions are
  - too complex
  - too expensive
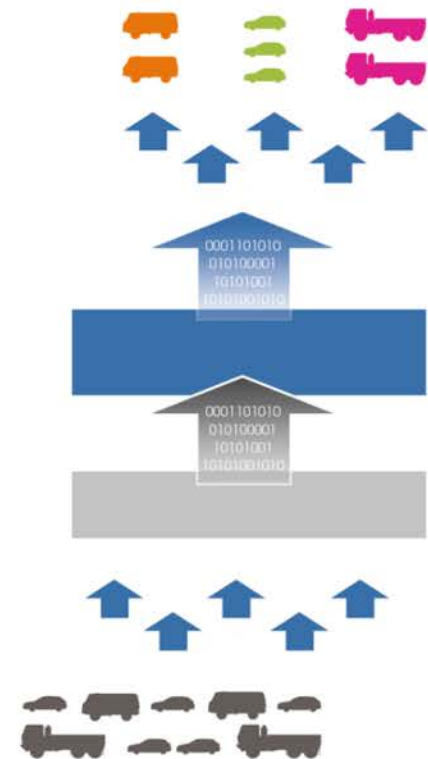- Online routing requires **live** traffic data

Simple**Fleet**

Solution

- We need
  - **good data, good algorithms**
  - a simple setup
- Achieved by
  - aggregating **large amounts** of traffic data
  - **providing fundamental algorithms** for data management and routing
  - **web-based API and framework for mobile and web applications**

Simple**Fleet**

Thank you!

www.simplefleet.eu

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