



Fitting Adaptive Real-time Technology to the Population Geography and Regional Resources Across the European Union

AAL Forum 2014

Session A1 Reaching out new markets

A1-2

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Tecnalia, Spain
10 September 2014



universität
wien



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Elders and Public transport

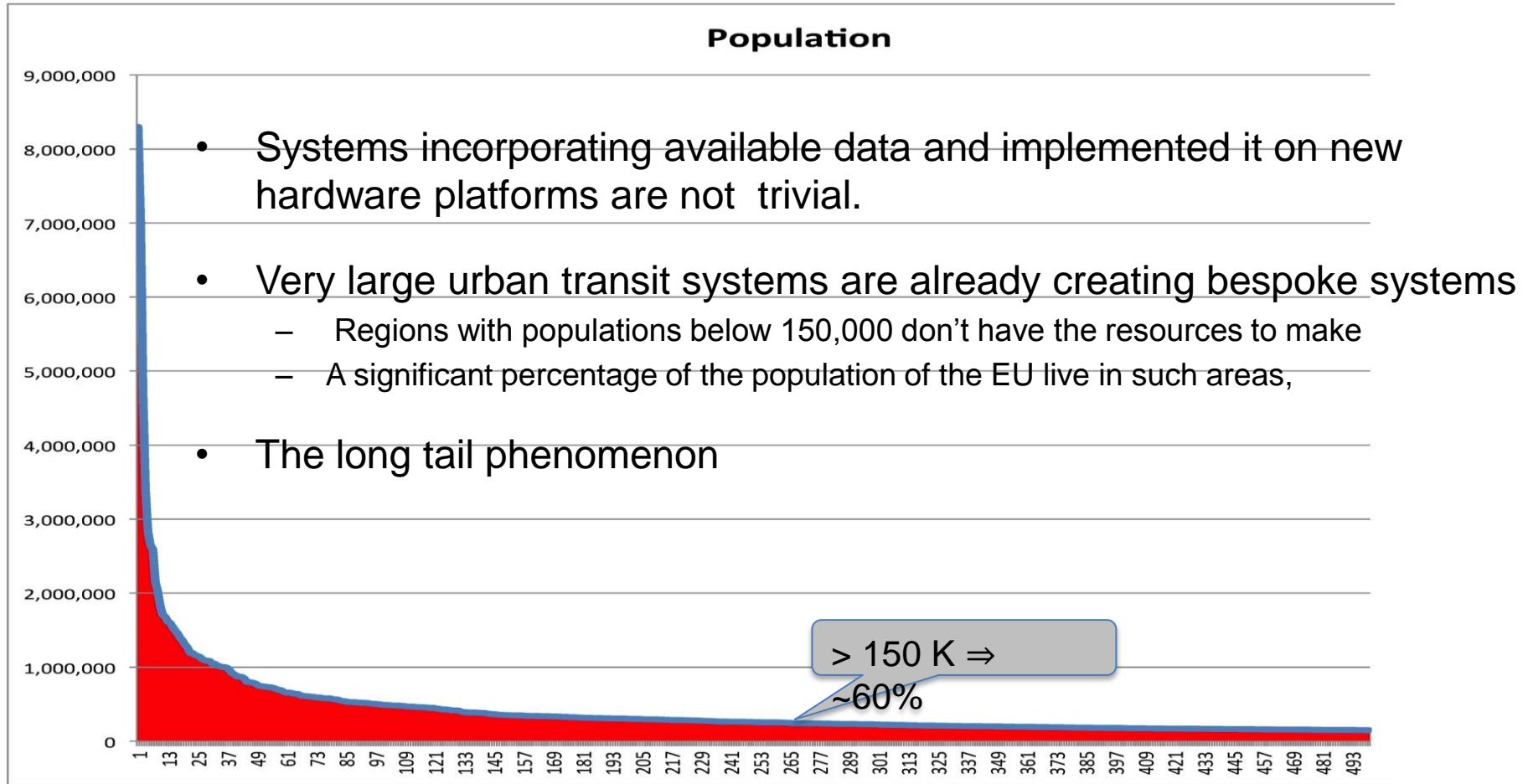
- Ageing well ⇒ Independence ⇒ mobility (and ← too)
- Smaller public transport agencies do not have the resources to create custom transportation support systems
- Current IT environment includes the availability of real-time location data as well as common file structures for storage of telemetric data
 - Widespread mobile data connectivity
 - Ever cheaper smartphones with a plethora of sensors and powerful processors
 - Real time location data and publicly available route and schedule information



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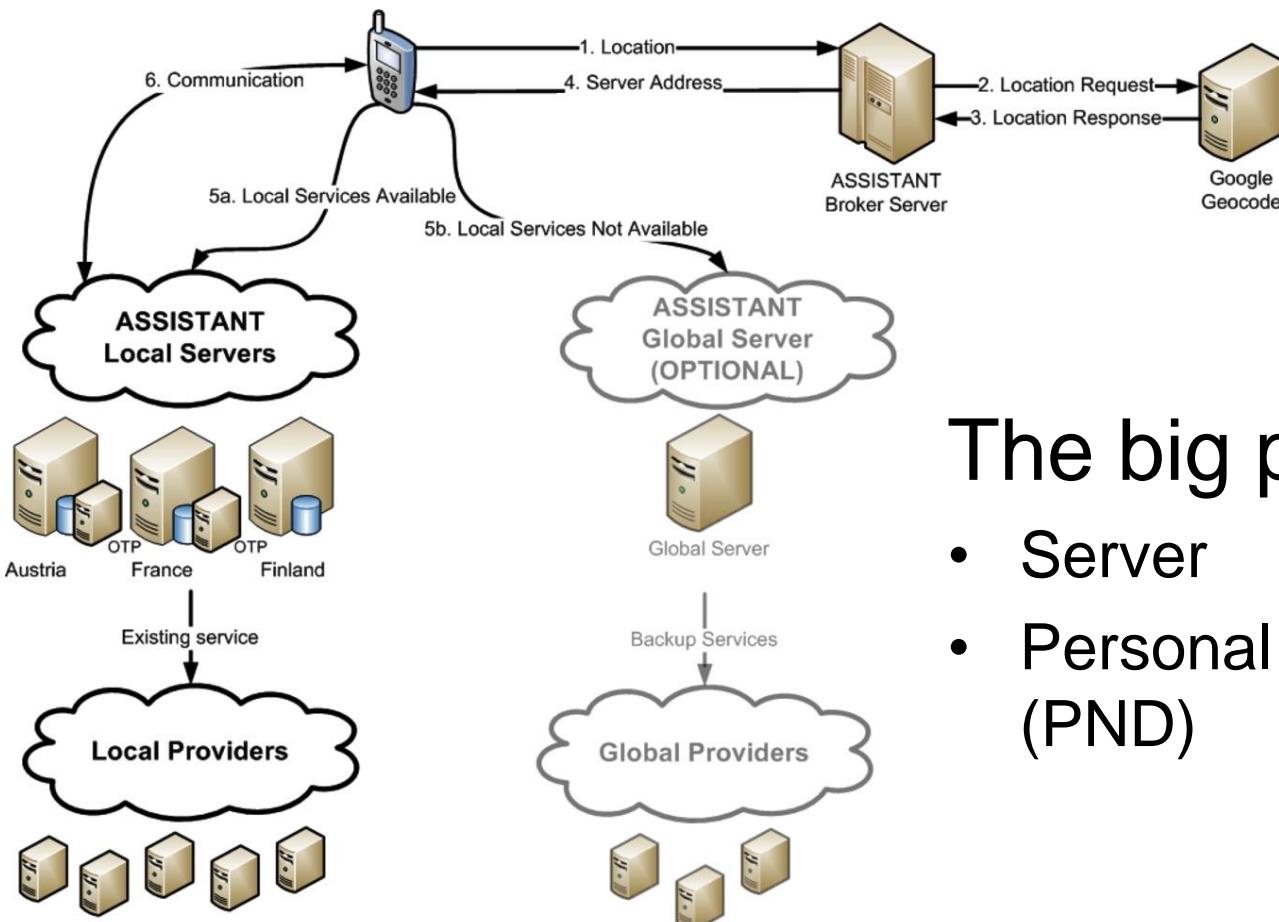
Big City / Small City



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How to do this?



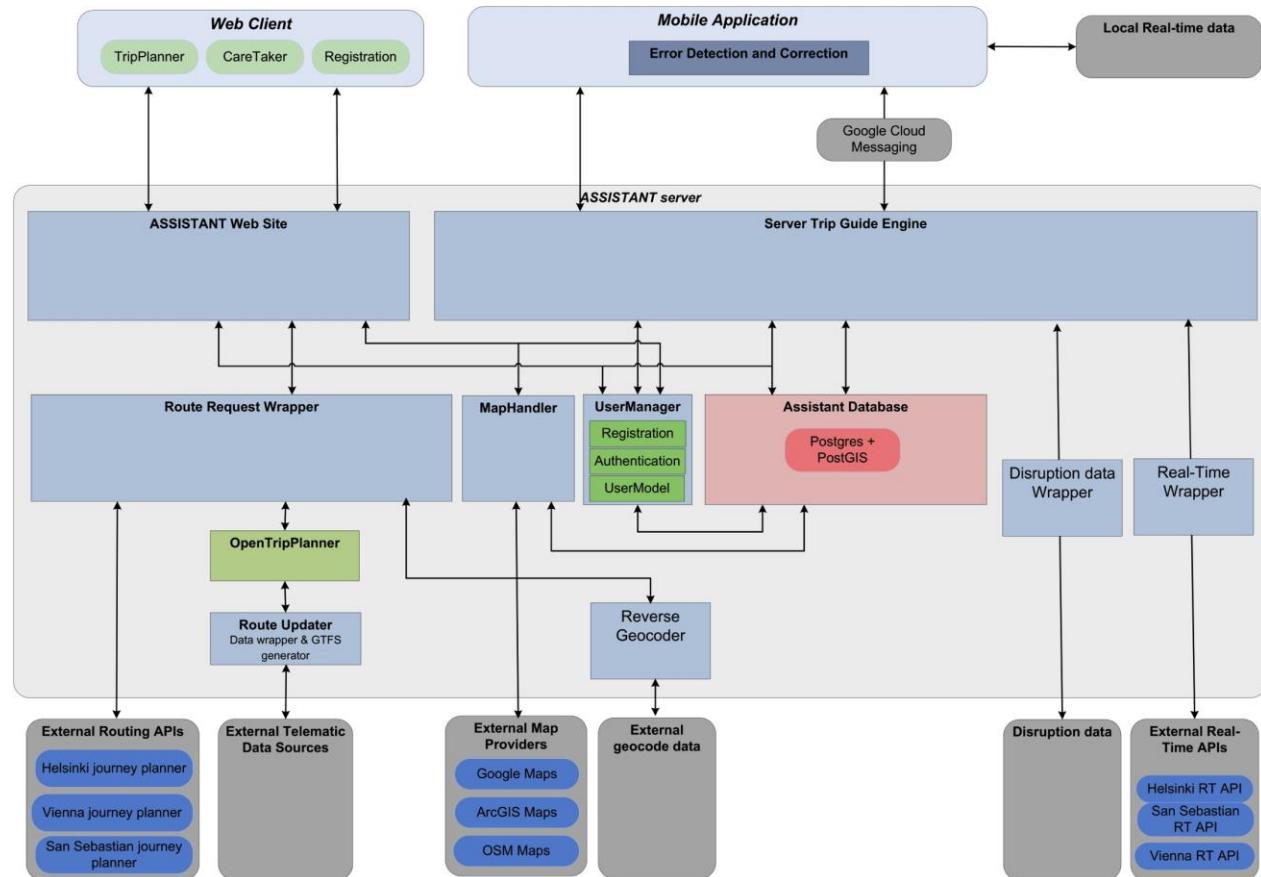
The big picture:

- Server
- Personal Navigation Device (PND)

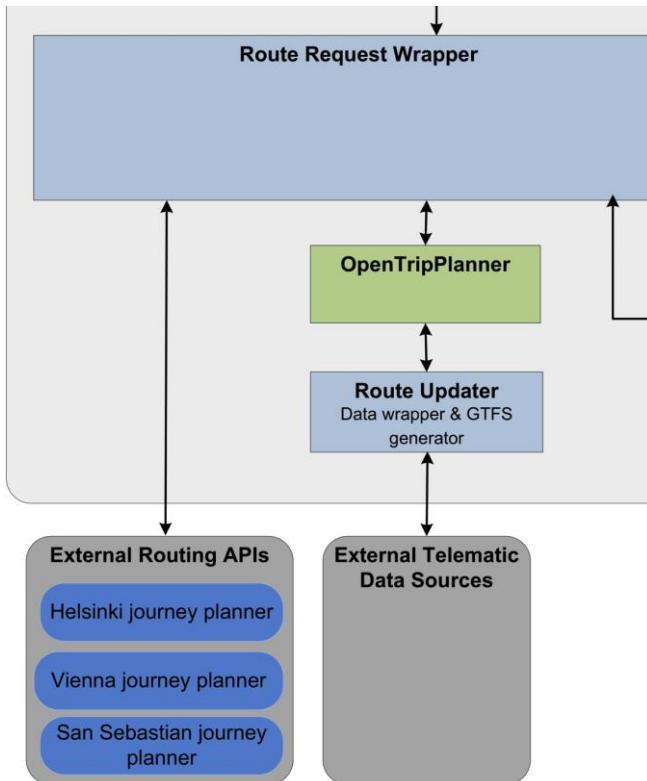
More Detail

Loose coupling allows proper localization

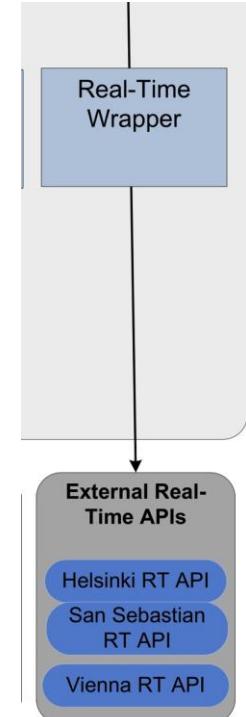
- Language
- Data
- Plans



Regional Implementation



- Plans
 - Schedules
 - Routes
 - Stops
- Events
 - Real-time data



Two approaches: API & OTP

Helsinki API -

<http://developer.reittiopas.fi/pages/en/home.php>

<http://developer.reittiopas.fi/pages/en/http-get-interface-version-2.php#route>

http://api.reittiopas.fi/hsl/prod/?request=route&user=assistant&pass=3ld3rc4r3&format=xml&psg_out=4326&epsg_in=4326&from=24.950054410130715%2C60.18282725412065&to=24.941256764562475%2C60.16707531793251&detail=normal

API – large systems

- Reflect Changes

OTP – smaller areas

- Standards based



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TECNALIA
RESEARCH
&
INNOVATION

OPENTRIPPLANNER (OTP), GOOGLE TRANSIT
FEED SPECIFICATION (GTFS) AND DBUS

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December 2^{ed}, 2013
ASSISTANT AAL project

San Sebastián install manual

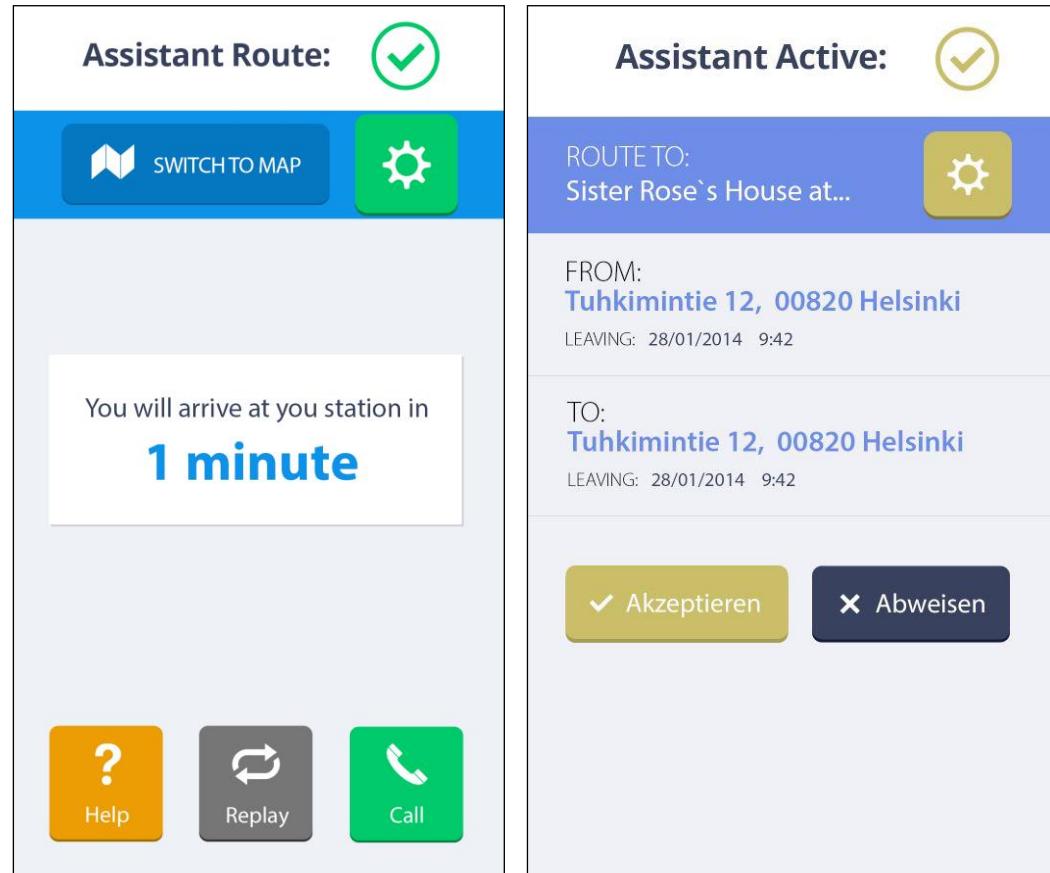


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ASSISTANT on the PND

- PND on Smartphone
- Senior friendly GUI
 - And transparent synchronization
- The 5 R's

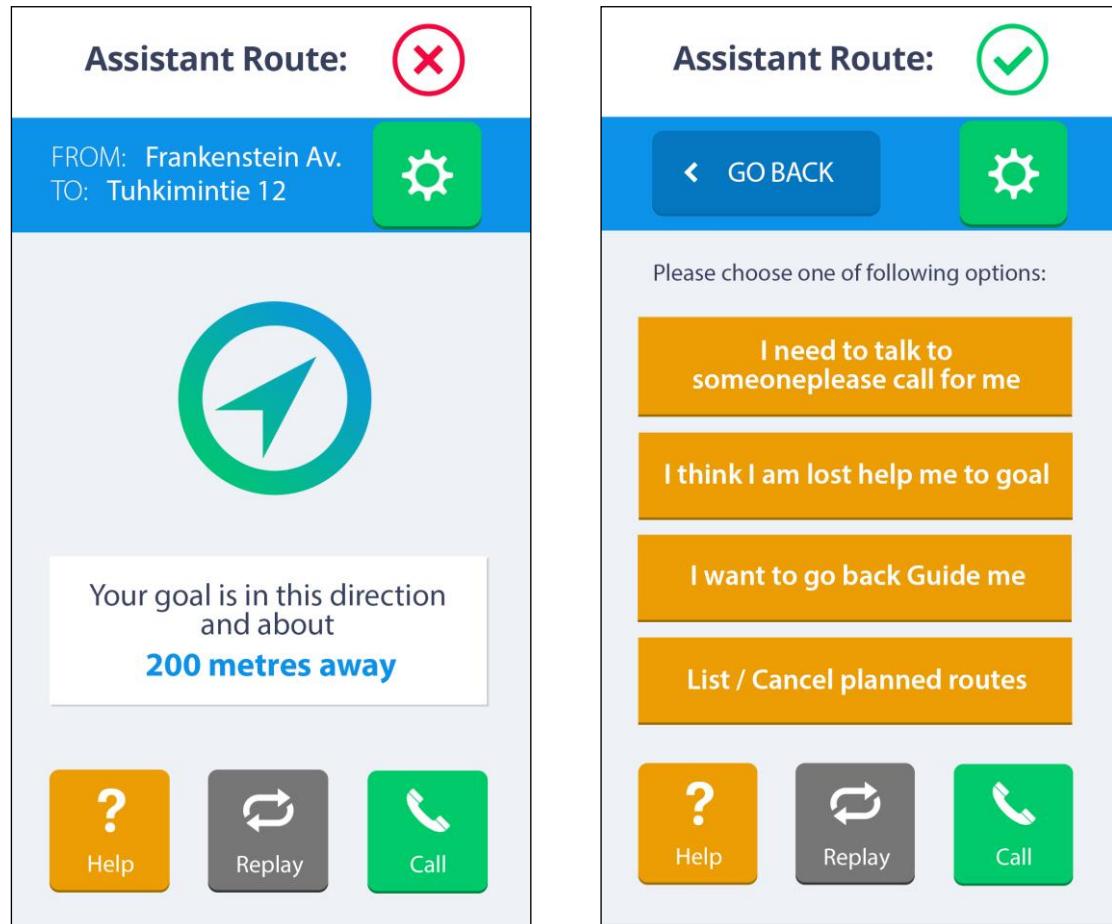


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More PND user interface

- Last KM
- User Preferences



Web based route planning

Home Route planner My information Error preferences Welcome, Hanno Motolla Sign Out

Create route

From: Vilnius Show map

To: Vilnius Show map

Date: Today Tomorrow 07 / 01 / 2014

Time: 10 30

Travel time: 15min Walking: 1,2 km

Send to mobile



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Thanks

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Booth 8 here



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