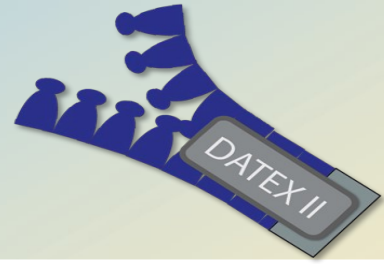# New urban DATEXII nodes in Finland
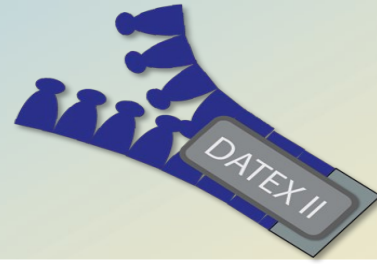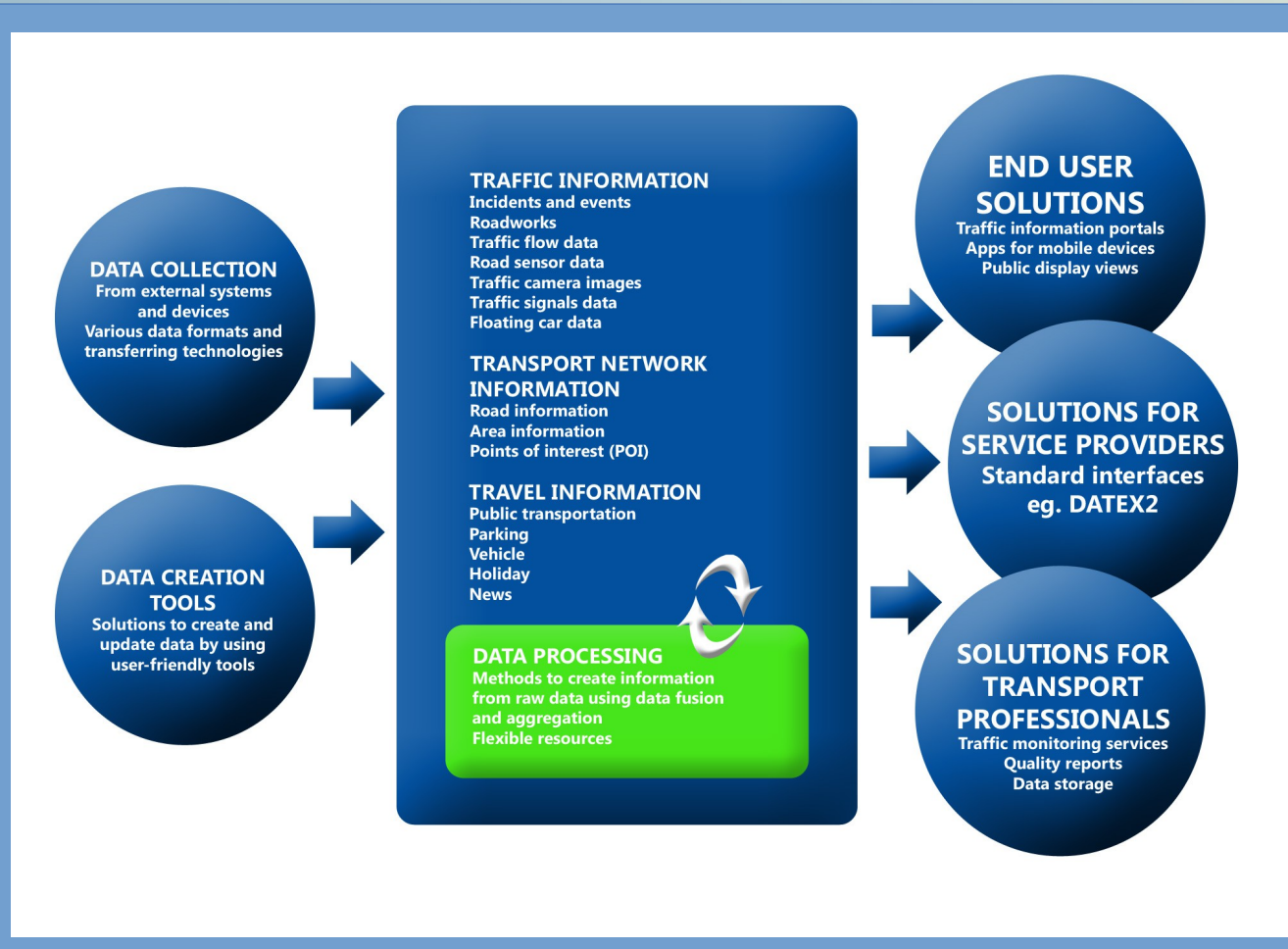
New urban DATEXII nodes in Finland

infoTripla

- Infotripla (est. 2001) is a company providing IT services for transport and logistics business areas
- Finnish forerunner of traffic and travel information services and solutions
- Main customers are e.g.
  - Finnish Transport Agency,
  - Cities and regional agencies,
  - companies providing services for end users and for transport professionals.
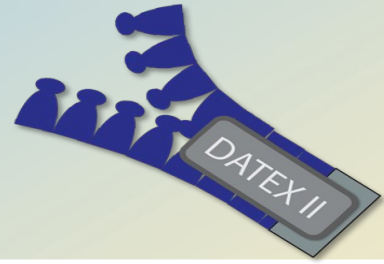- DATEXII services since 2012

New urban DATEXII nodes in Finland

Infotripla approach

DATA COLLECTION
From external systems and devices
Various data formats and transferring technologies

DATA CREATION TOOLS
Solutions to create and update data by using user-friendly tools

TRAFFIC INFORMATION
Incidents and events
Roadworks
Traffic flow data
Road sensor data
Traffic camera images
Traffic signals data
Floating car data

TRANSPORT NETWORK INFORMATION
Road information
Area information
Points of interest (POI)

TRAVEL INFORMATION
Public transportation
Parking
Vehicle
Holiday
News

DATA PROCESSING
Methods to create information from raw data using data fusion and aggregation
Flexible resources

END USER SOLUTIONS
Traffic information portals
Apps for mobile devices
Public display views

SOLUTIONS FOR SERVICE PROVIDERS
Standard interfaces eg. DATEX2

SOLUTIONS FOR TRANSPORT PROFESSIONALS
Traffic monitoring services
Quality reports
Data storage
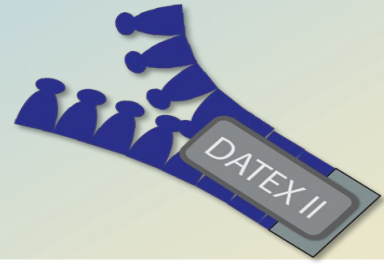
New urban DATEXII nodes in Finland

Background for the urban nodes

- The data has been collected for agencies' needs
- Public sector to publish also traffic information as open data
- Finnish Traffic Agency's Digitraffic service since 2008
- Cities started later, but activity growing strongly now
- Awareness, capability and raw data quality vary in different cities

- FTA provides information on main roads, but not inside cities

New urban DATEXII nodes in Finland

Infotripla's role and reasoning

- Infotripla provides solutions for public sector to open the data,
- The solutions include expertise, data integration, technology development, hosting, maintenance and supporting continuous data delivery services,
- The solutions are offered as a service and charged on a monthly basis; good quality ➔ permission to send the invoice,

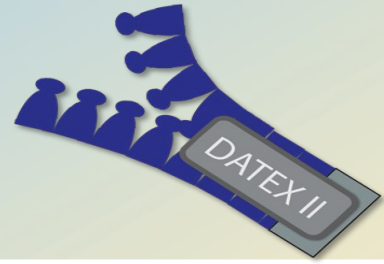# New urban DATEXII nodes in Finland

The data sources

- Traffic fluency information is based on the data from automatic measurement points, traffic light system and probe vehicles (taxies)
- Information about Unplanned and planned traffic events is created by the city duty officer based on his/hers understanding and activity
- The officer gives input by web based application with a map interface
- The city decides the informing strategy and guidelines, FTA decides on the national level informing
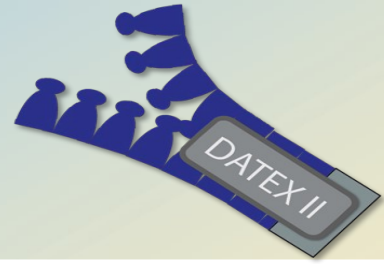
New urban DATEXII nodes in Finland

The processing and interfaces

- The data is stored in Infotripla's database
- The information may be published from various types of interfaces (DATEXII web services, HTTP REST, WFS)
- Interfaces are published and documented on city's Open data catalogue (web site) among other open data
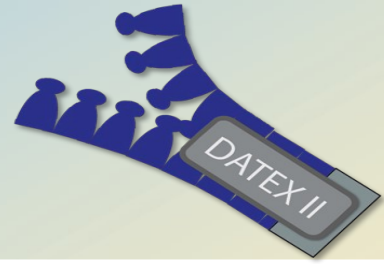
New urban DATEXII nodes in Finland

The support

- Traffic information is real time and more dynamic than most of the cities' open data sets
- Putting the interface available may not be enough; the utilisers tend to request help and support concerning dynamic data and interfaces
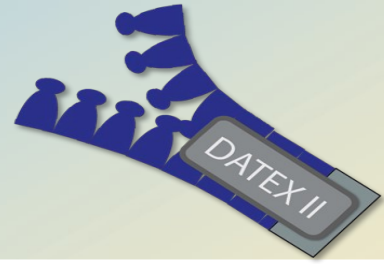- Does the city have resources for continuous support?

New urban DATEXII nodes in Finland

Urban DATEXII nodes available as open data

- Oulu 2012, Tampere 2014, Helsinki 2015?
- published as Web Service interfaces using HTTP transport protocol and SOAP Version 1.1 as described in the DATEX II Software Developers Guide available www.datex2.eu,
- Messages comply to Datex II 2.1 -schema, no extensions
- Secured with HTTP Basic Access Authentication

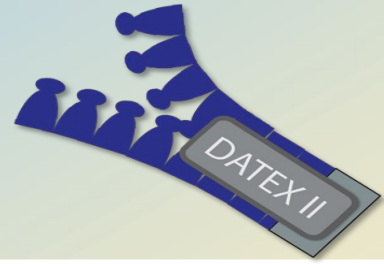- Other (commercial) DATEXII publications with value added are available from Infotripla

New urban DATEXII nodes in Finland

Benefits of urban open traffic data DATEXII nodes

- generate new and enhanced information services and applications to the citizens
- help to maintain and develop the quality and service level of the traffic system in the cities
- value added to the existing commercial information and navigation services if used

New urban DATEXII nodes in Finland

To be discussed?

Data: usability, reliability and market

- Data, capability and processes change from city to city,
- Variation of quality of data between cities (data providers),
- Utilisers point of view: "Must have data from all cities (in a country)" or "All data is good data"?