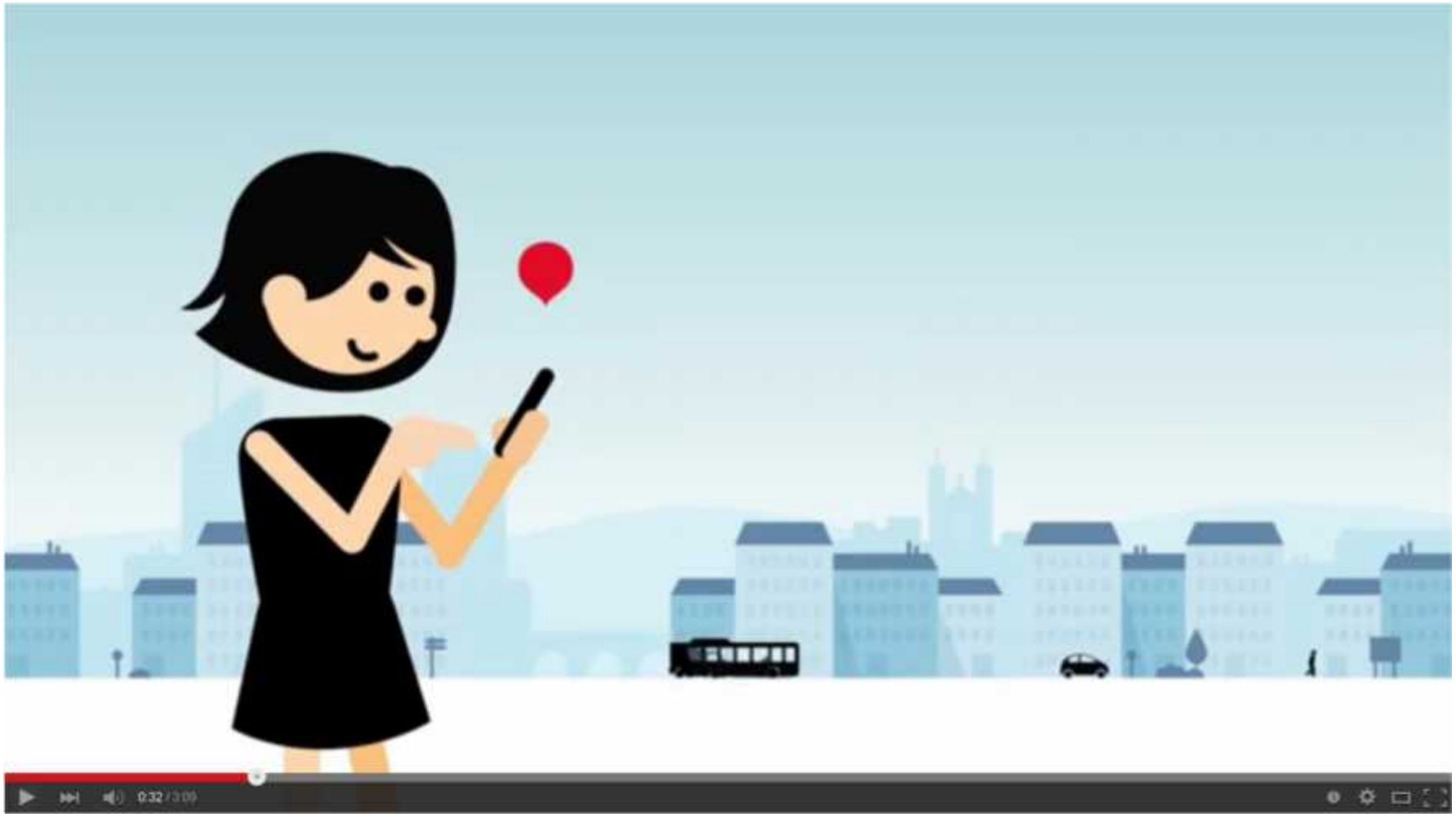
OPTICITIES

ENHANCING SMART MOBILITY

OPTICITIES project video



Presentation

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An innovation project coordinated by Grand Lyon:

- With 6 European cities: Lyon, Madrid, Birmingham, Göteborg, Turin, Wroclaw
- Major ITS stakeholders: Spie, Volvo trucks, Vedecom (Telecom Paris, PSA, Renault), Cityway, Hacon, Icca, Neurosoft, Chalmers, Polito, CNRS, …
- The most important European networks on urban mobility and ITS : EUROCITIES, ERTICO, UITP
- 3 years
- 13 M€ budget funded by the European Commission (FP7) and the 25 partners

Objectives

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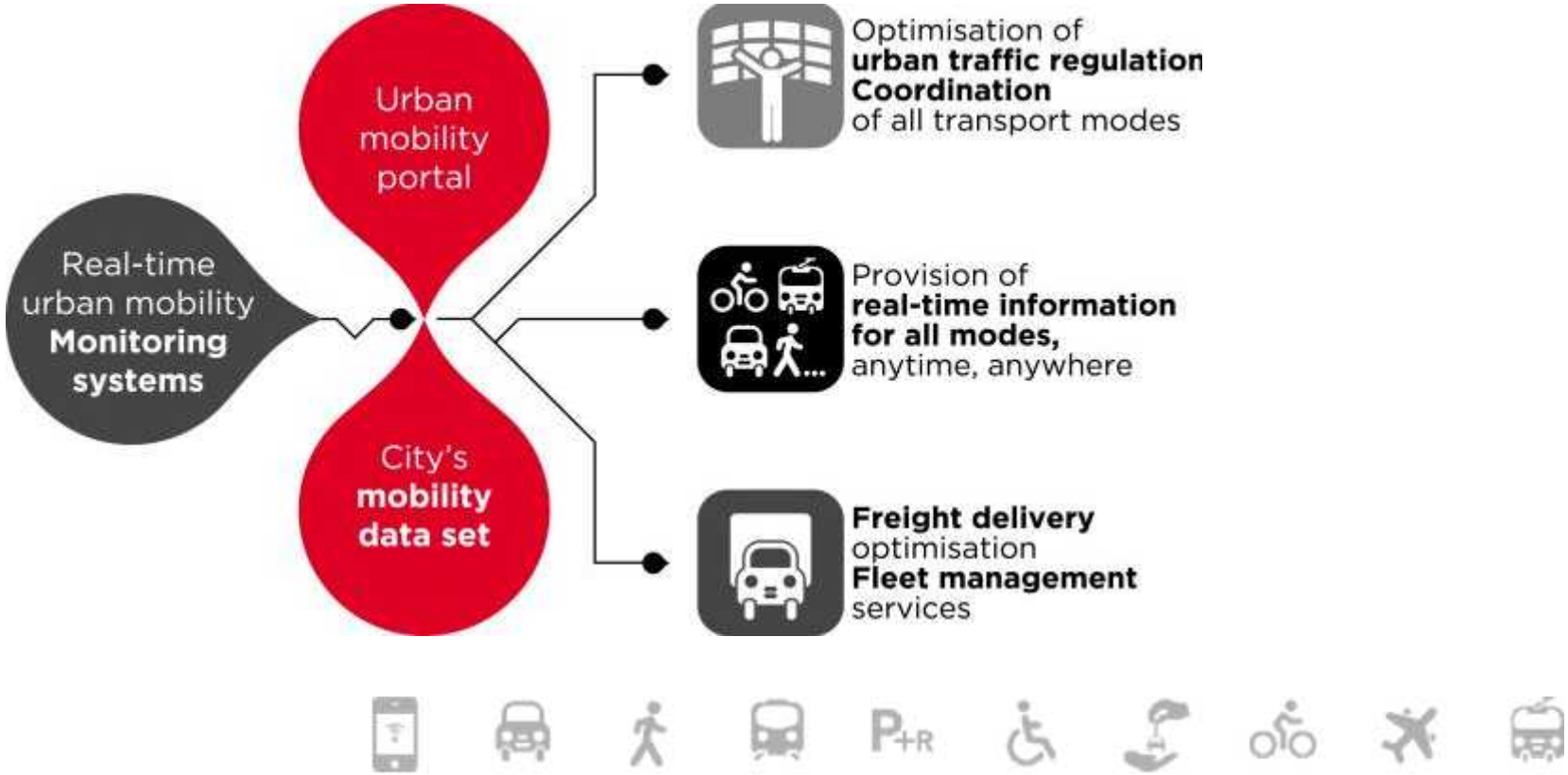
- Set up high level services for travellers and urban logistics, addressing user needs and urban mobility public policy,
- Support mobility policy and an open market for business development around urban ITS, through a contractual framework between public – private actors
- Define standards and architecture to foster interoperability among cities and among travel modes

Concepts and objectives

- Set up a complete mobility data store in European cities (all modes, maximum coverage of the area, different time scales: historical, theoretical, real time, predictive data) controlled by public actor
- Develop innovative services, managed where relevant (e.g. information services) by private sector or by public actors (traffic management) using the urban mobility data store, with an adapted contractual framework



OPTICITIES multimodal dataset model

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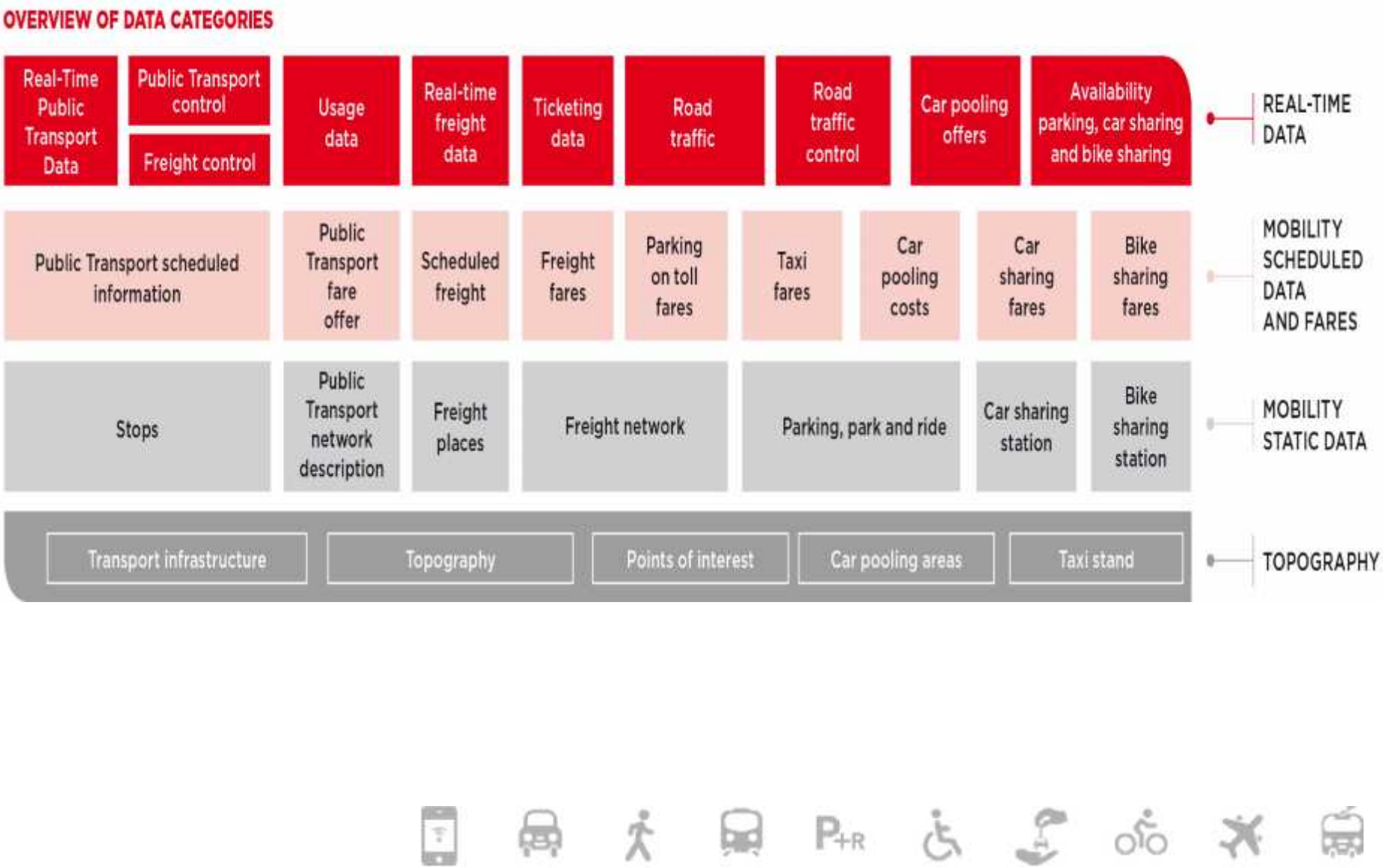

Contractual arrangements for re-use of data

The key principle in the OPTICITIES project is that Cities aggregate all mobility data (private and public) available on their territory and make it available to third parties, who will use the data to set up high-level MMIS that are consistent with requirements of public mobility policy and independent from public funding where:

- The Multimodal Dataset does not include Personal Data.
- The Multimodal Dataset may include data with different levels of processing, from raw data up to relatively highly processed data (e.g. an API handling journey planner requests).
- The Multimodal Dataset must be capable of integrating data from private data producers (in particular, car industry stakeholders).

Main innovations developed within OPTICITIES

- New monitoring systems for urban freight, multimodal data in large cities, road works
- Interoperability of traveller information apps with various urban data sets: different apps working in different environment - 1st world trial
- Continuity of services between traveller mobility apps and in car GPS: test in Lyon – 1st world trial
- Development of urban multimodal GPS
- Development of real time multimodal management and dynamic car pooling
- Integration into traffic management systems of 1h traffic prediction
- Development of high level freight information services

OPTICITIES multimodal travel planner Lyon, Gothenburg, Madrid and Torino

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Based on common interface and specifications but different datasets

Wroclaw and Birmingham: Freight routing

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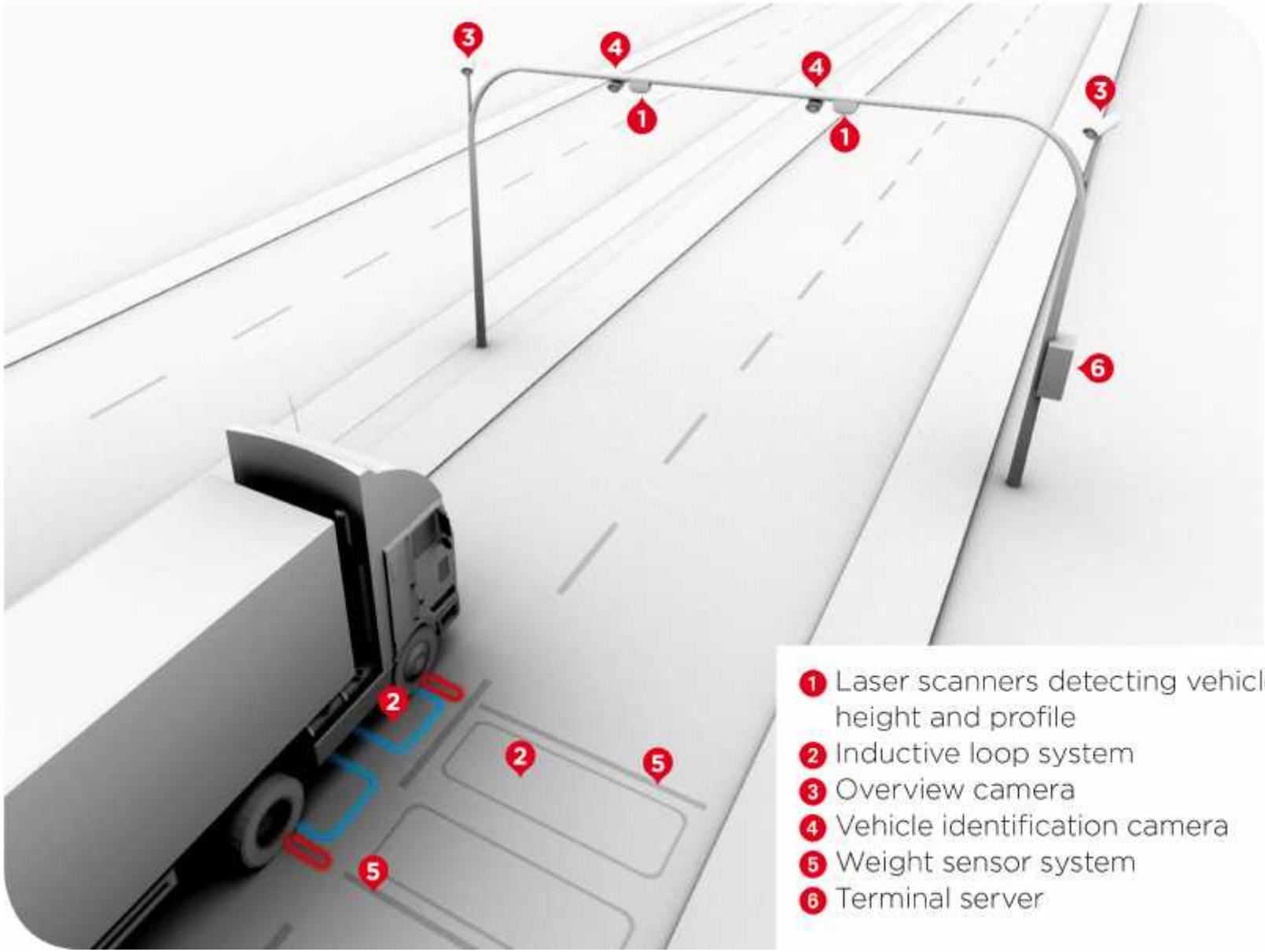
FREIGHT DETECTION INFRASTRUCTURE



Gothenburg: Public Transport Priority

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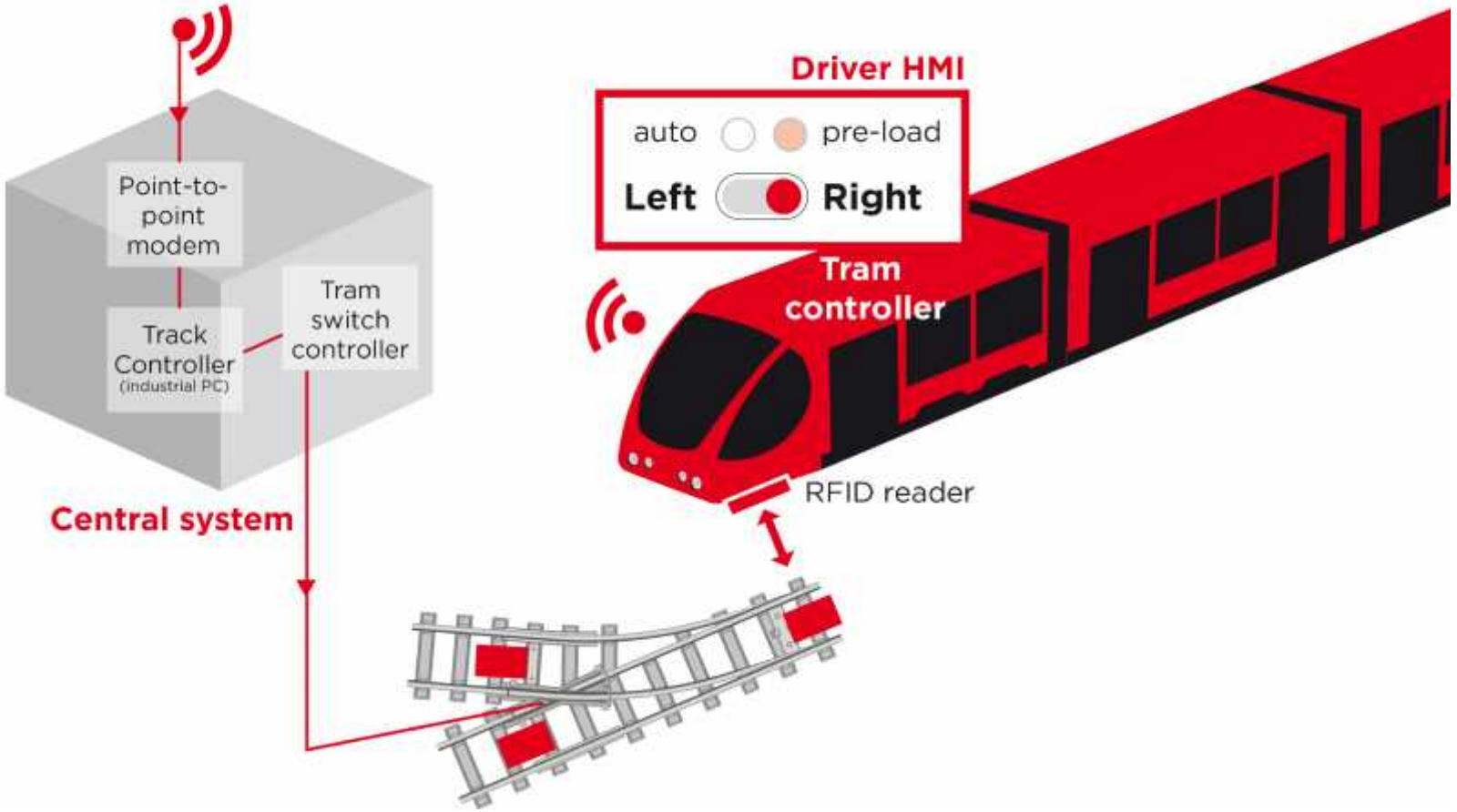
TRAMWAY SOFT PRIO EQUIPMENT



Gothenburg: Public Transport Priority

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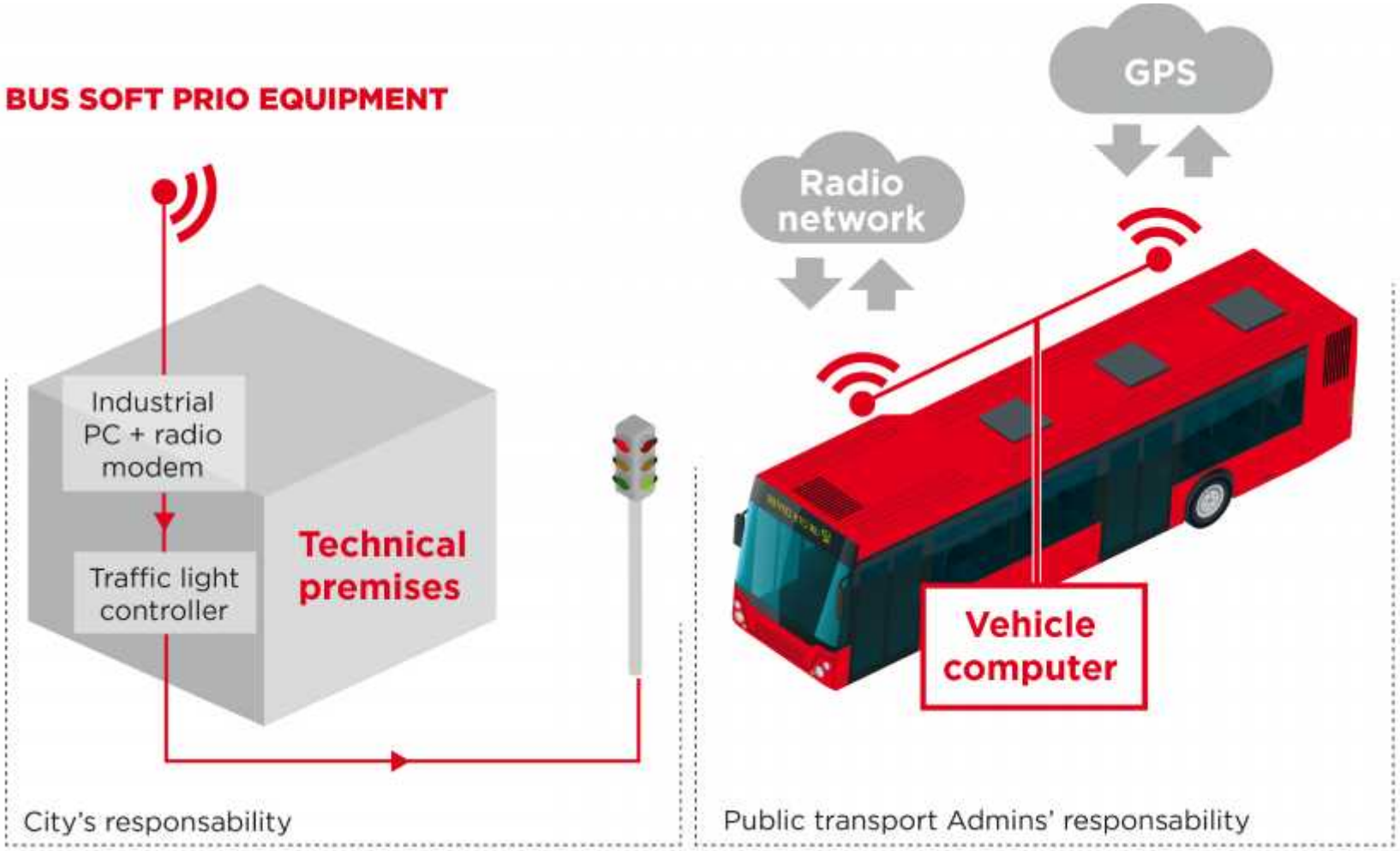

Lyon: Real-time car pooling

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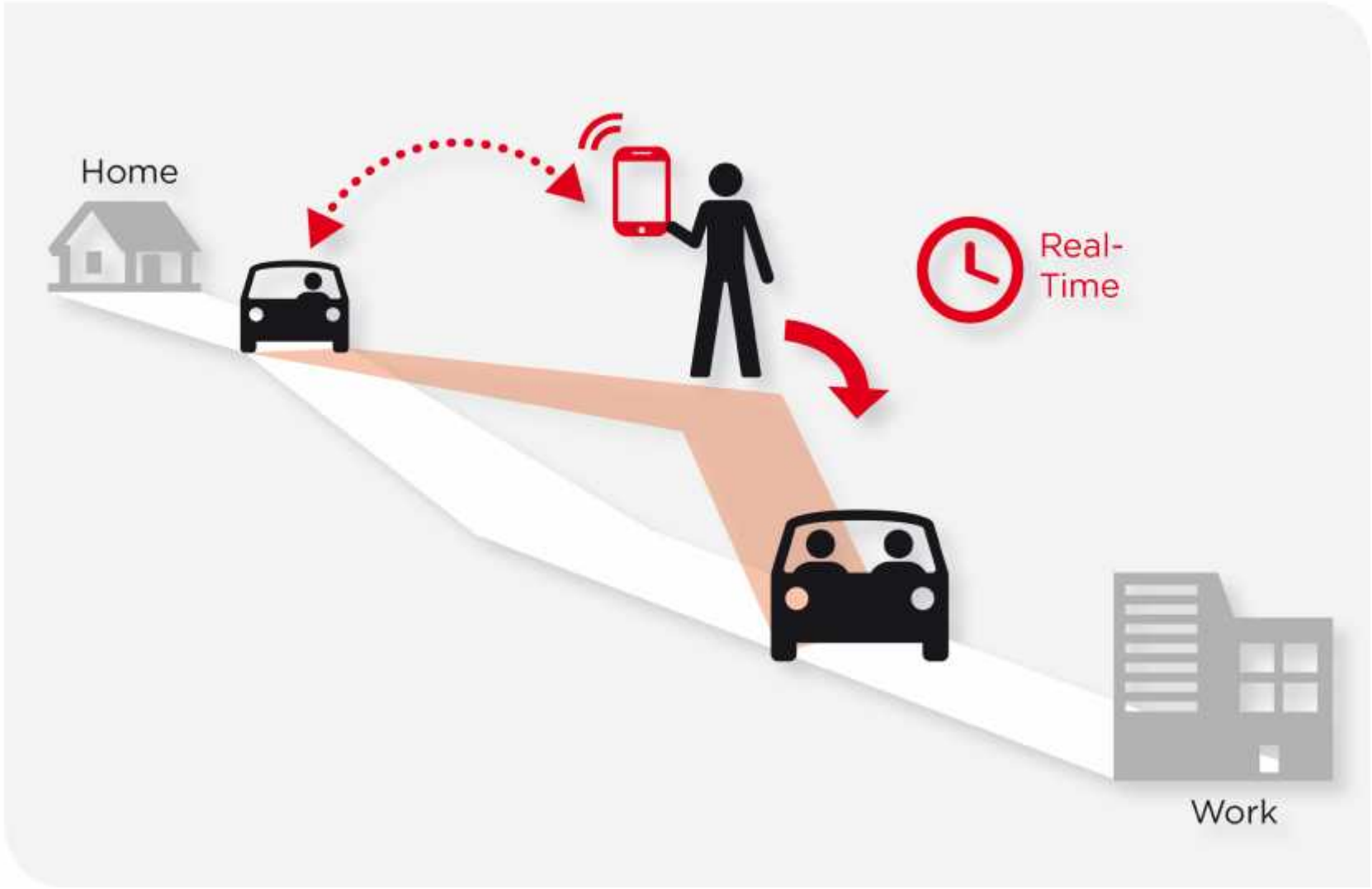
REAL-TIME CAR POOLING PRINCIPLE



Example: connection between multimodal app and in-car navigation

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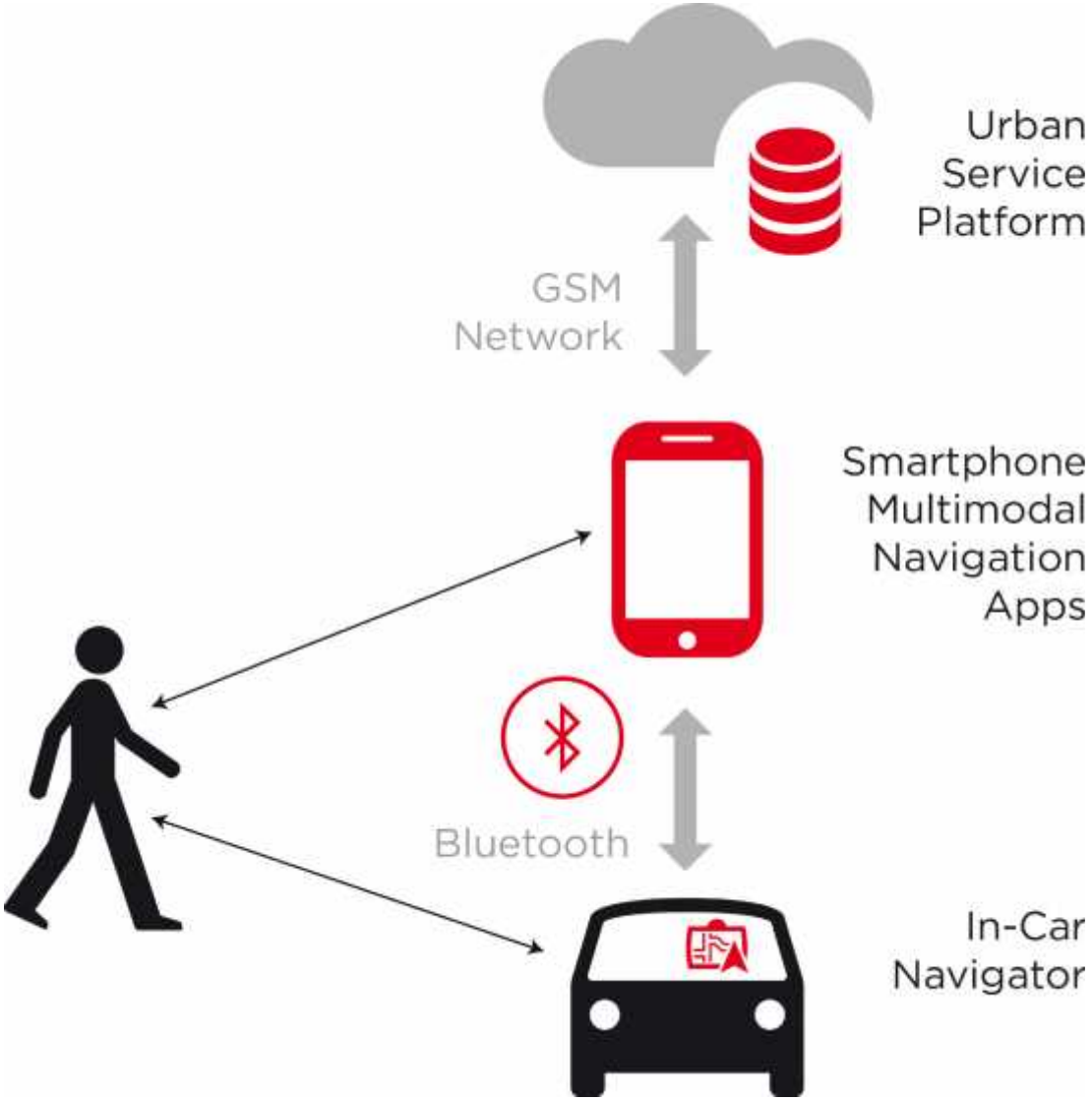

Torino: multimodal mapping of transport services

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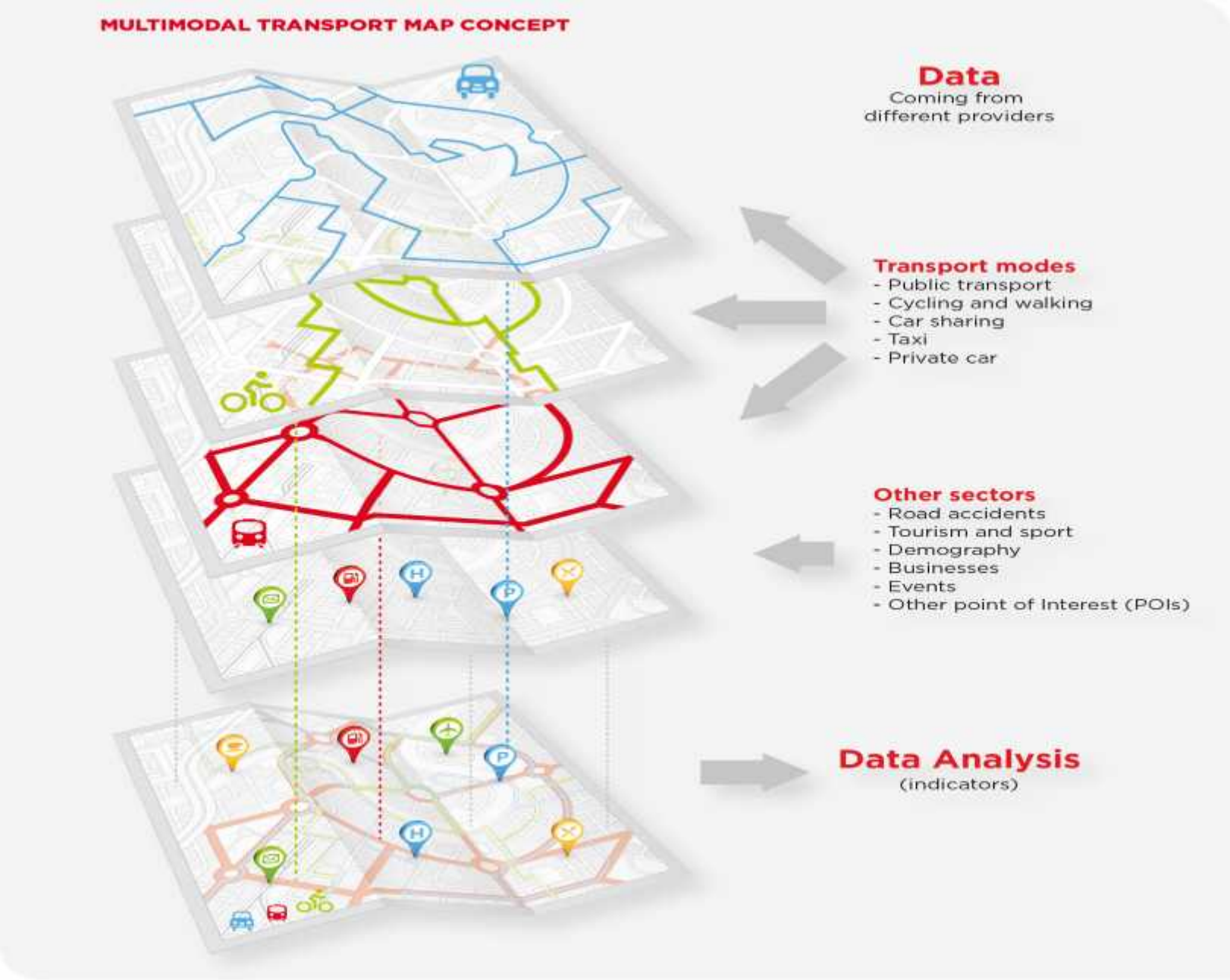

Gothenburg: Roadworks management

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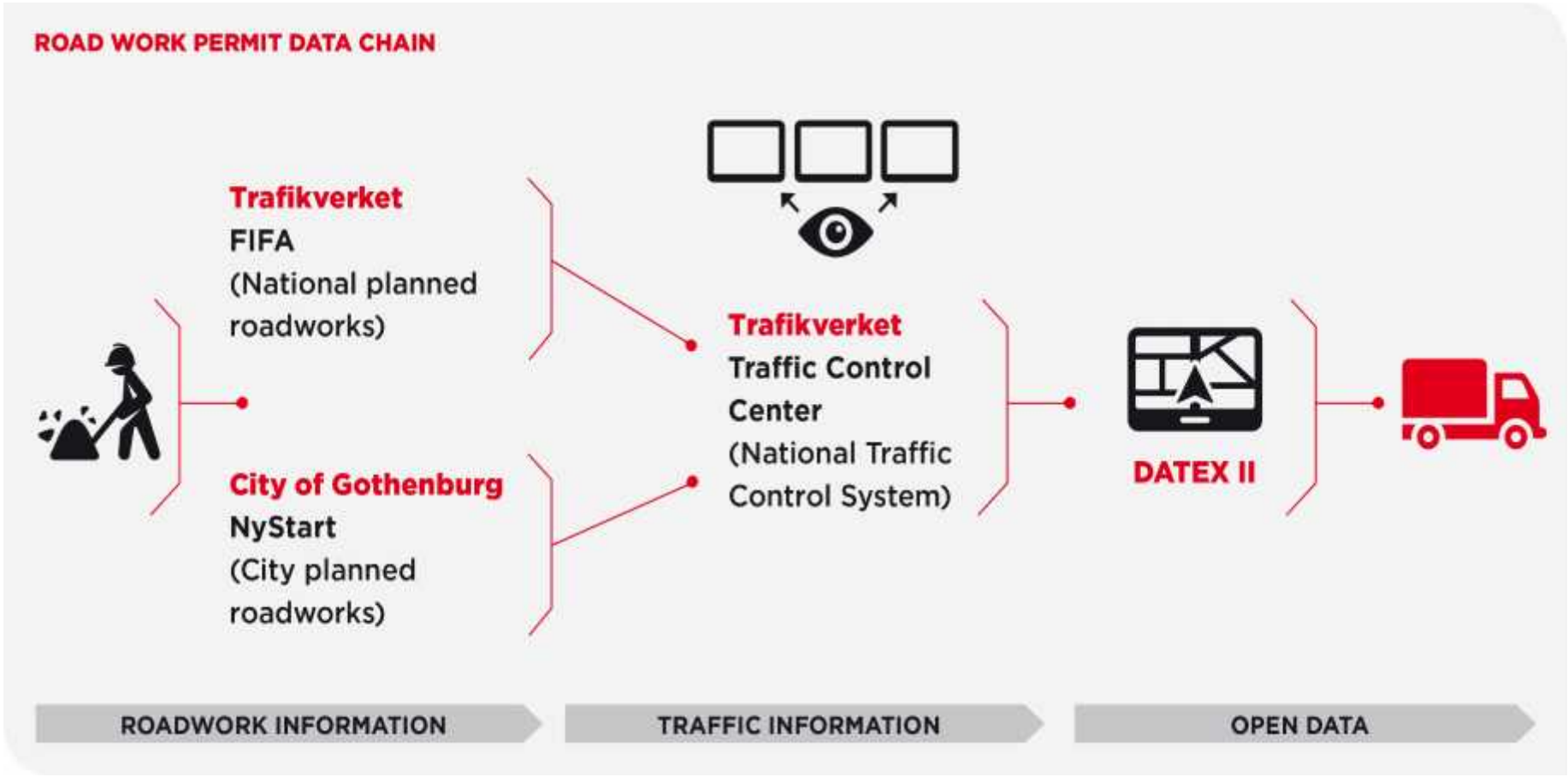

Madrid: PT information management system

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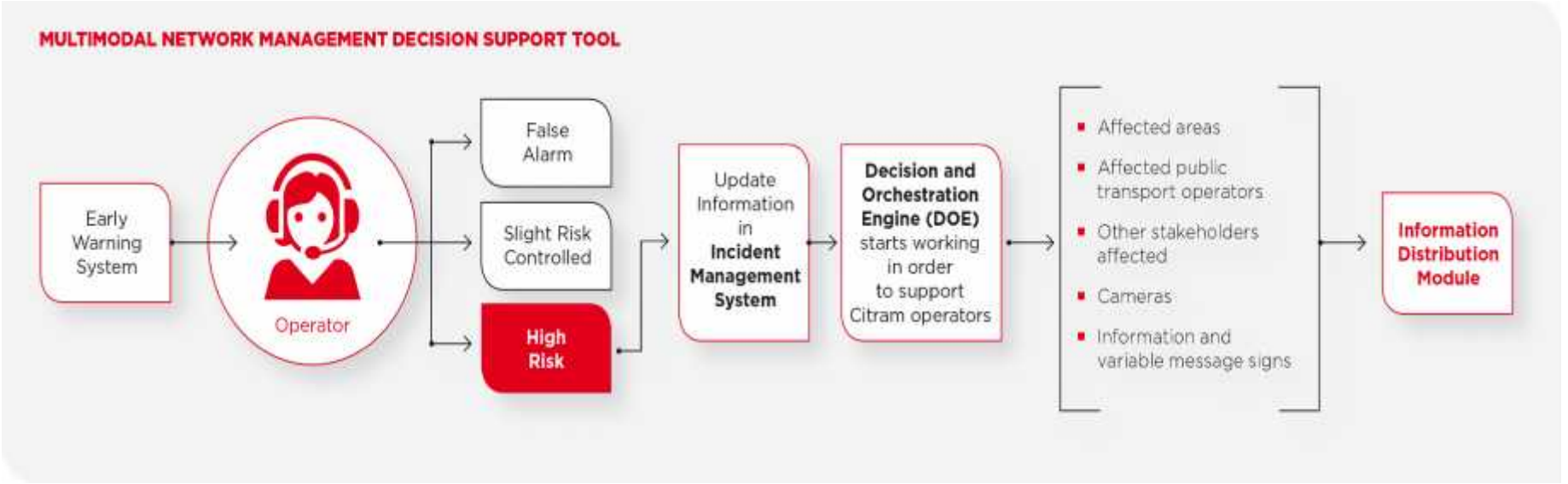

OPTICITIES Team

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GRANDLYON

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Göteborgs Stad
Trafikkontoret

Birmingham City Council

Prezydent Wrocławia

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