



# Overview & Open Platform

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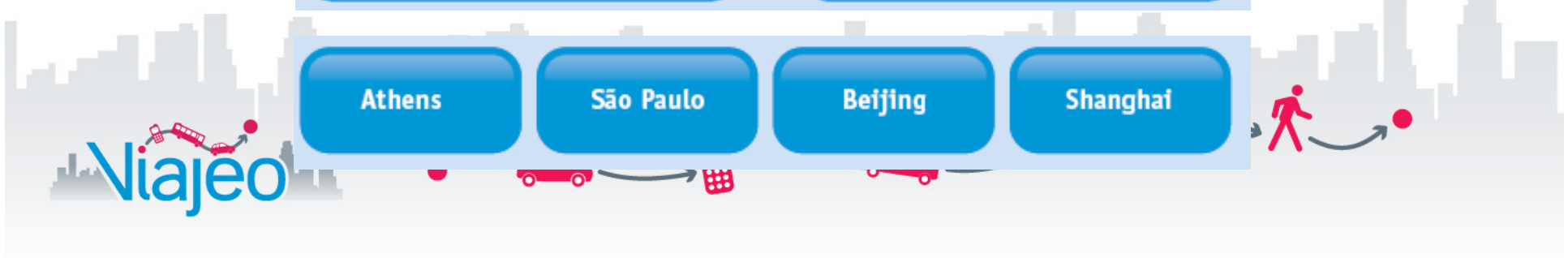
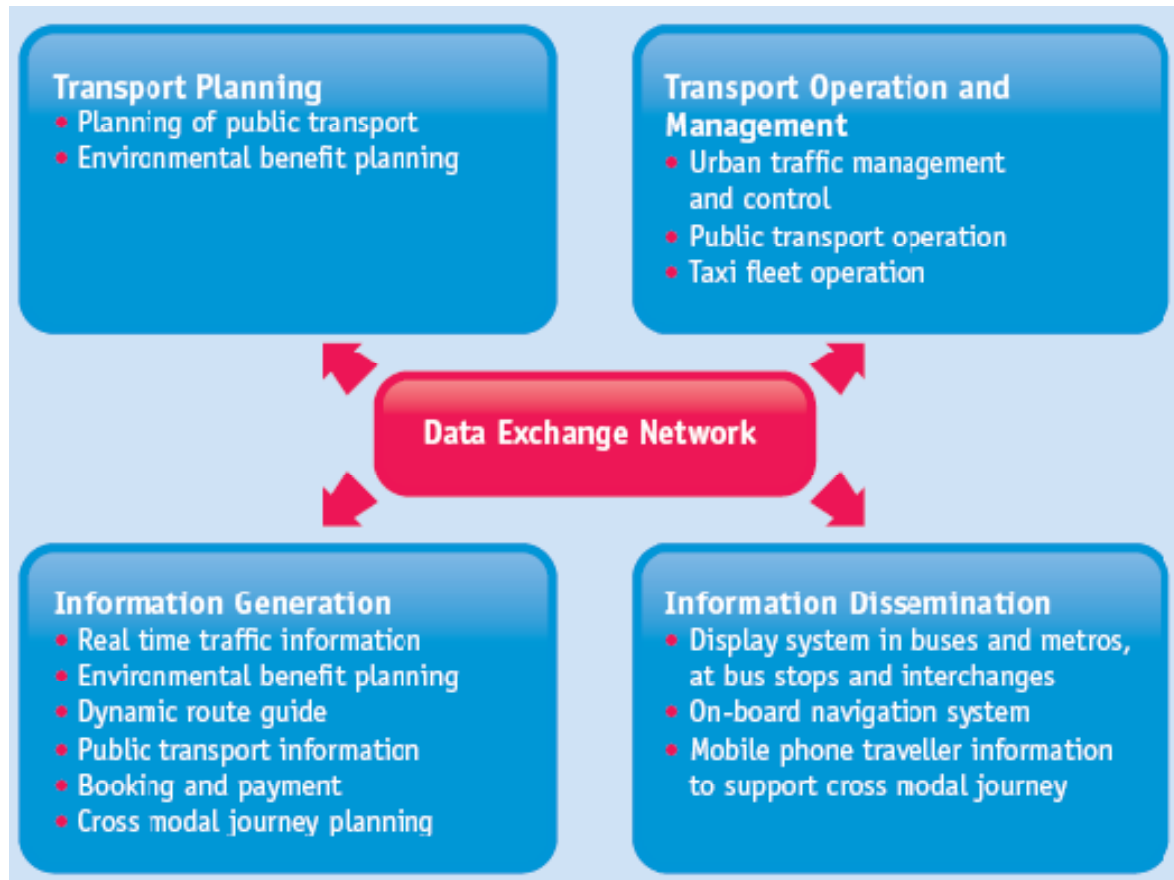
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# Objectives

- Support Transport operations, planning & information services
- Integrate and manage different sources of traffic data
- Deliver dynamic language-independent traffic and traveller information services for end-users
- Cross-modal journey planning covering motorised modes and non-motorised modes
- Provide adaptable data exchange and service interfaces to connect a variety of entities needed for the mobility services
- Provide an „Open European Platform“



# Viajeo activity spaces



# Definition of the Open Platform

- A well defined set of core processes accessible
- Standardised interfaces for data exchange between processes
- Publication via open interfaces; accessible by external parties
- Set of interfaces is to be used by any new functionality implemented within the open platform concept
- An “Open Platform” does not mean it is “Open Source”
- The platform has to manage dedicated access – rights



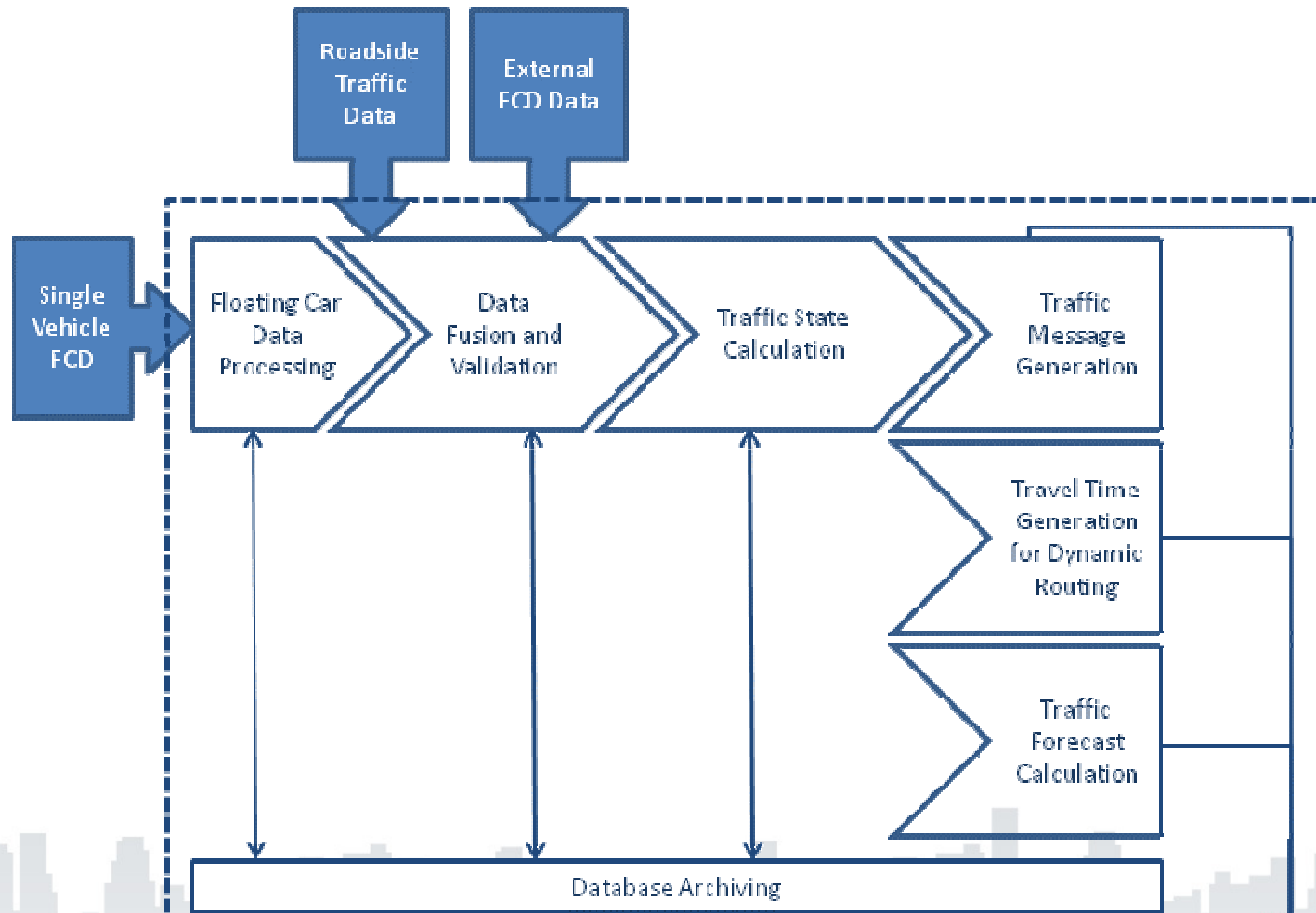
# Approach

VIAJEO looked at the

- Generic use cases and processes (transferred to FRAME thodology)
- Existing architectures in the sites
- European and international standards for traffic data



# Core Processes in Brief

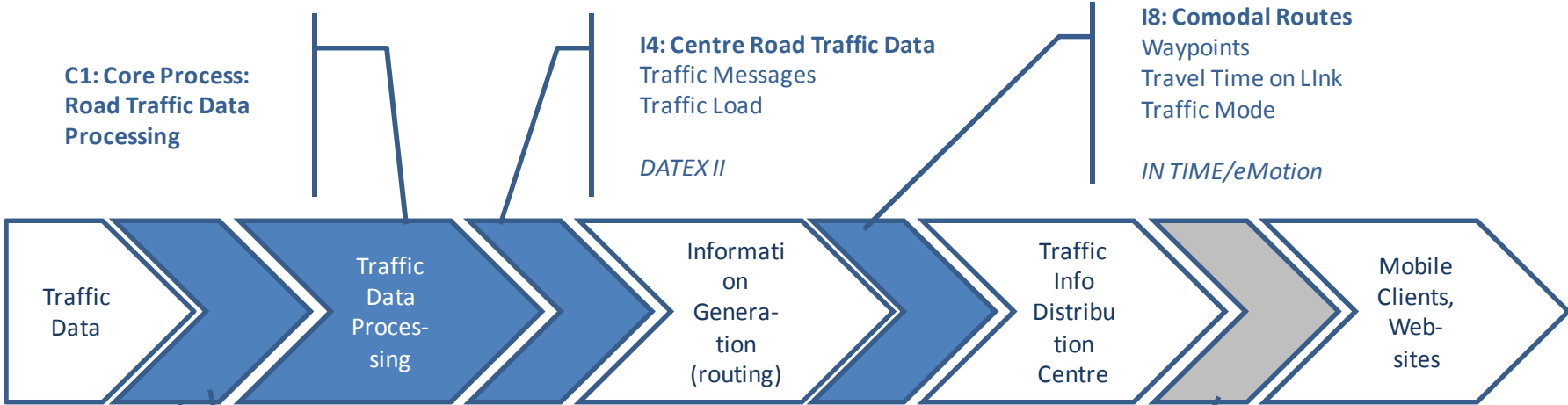


# Overview about Common Interfaces

Interface Name	Data Typically Transmitted	Standard to be used
FCD	Vehicle ID, Time Stamp, Position, Speed	SIMONE
Roadside Traffic Count Data	Detector ID, Lane N <sup>o</sup> , Direction, Traffic Count (passenger cars), Traffic Count (lorries), Time Gap (between vehicles)	DATEX 2
Roadside Environmental Data	Detector ID, Direction, Measurement CO2, Measurement NOx	DATEX 2
Centre Road Traffic Data Interface	Traffic Events, Traffic Load per Segment	DATEX 2
Static Public Transport Information	Timetables, Stop Positions	VDV 452
Dynamic Public Transport Information	Vehicle ID, Time Stamp, Delays (line,vehicle)	SIRI
Traffic Information over TPEG	Traffic Messages, Traffic Load	TPEG RTM/TEC
Comodal Routes	Waypoints, Travel Time on Links, Traffic Mode	IN TIME / eMotion



# Interfaces in Process Chain



**I2: Roadside Traffic Data**  
 Vehicle Count Data (passenger cars/lorries)  
 Speed  
 Detector ID  
 Lane N°  
 Driving Direction  
 Time Gap (between vehicles)

*DATEX II*

**I7: Traffic Information over TPEG**  
 Traffic Messages  
 Traffic Load  
 Routes

*Recommended : TPEG TEC*

**I1: FCD Interface**  
 Vehicle ID  
 Time Stamp  
 Position  
 Speed

*SIMONE*



**Viajeo**

Name 01/07/201 8

# Conclusion

## VIAJEO provides a toolbox for light ITS Platforms

- easy to implement
- future proof
- standardised

## Expected social and environmental impacts

- Increased acceptance of new urban transport solutions & technologies
- More inclusive urban transport system with better access for all
- Reduction of green house gases, pollution and noise
- Increased energy efficiency in urban areas & improved transport safety



# Thank you!

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