



Co-Cities Forum – 1st workshop

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In this presentation



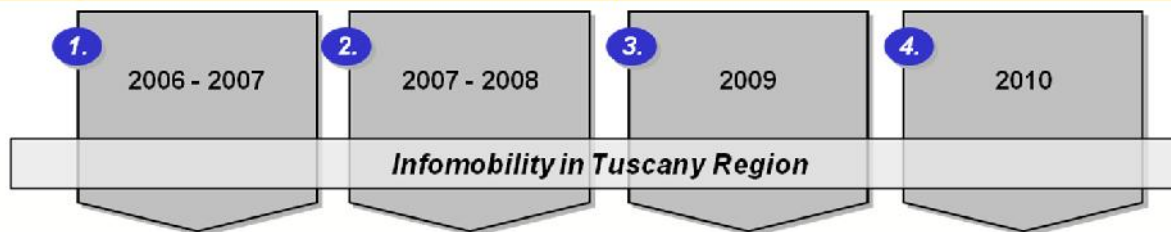
- Infomobility initiatives in Tuscany Region
- Co-Cities background: In-Time in Florence
- Roles and plans in Co-Cities



Infomobility in Tuscany Region



When	What	Reference
2006 - 2007	Setup Regional program and defining implementation projects	Regional Development Program Regional Document for Infomobility
2007 - 2008	Start up first executive projects	Geographical Database for Infomobility
2009	First results available Integration of Mobility Centre under implementation	Road graph + Addresses Timetable Database + Google Transit Gateway Information for Mobility Intermodal Mobility Information Integration Center Automatic Vehicle Monitoring
2010	Start of new projects	Prototype of GIMI Road Traffic Sensors Car Parking services Weather



The regional reference framework



- **Regional Development Program 2006-2010 (RDP)**
 - PIR 1.7 "Territorial accessibility, integrated mobility"
 - Planning Actions 1.7.7 e 1.7.8 "Information and telematics services for infomobility"

- **Regional Document for Infomobility 2008-2010 (RDI)**
 - Implementation plans and detailed specifications

- **in preparation for the new Mobility Regional Plan**
 - which also contains actions for Infomobility



Overall objective



- To implement an information infrastructure / platform to improve the overall territorial accessibility in Tuscany Region based on:
 - 1) the deployment of geographic Mobility / Transport information systems
 - 2) the realization and/or the upgrading of ITS systems to support **public transport, private mobility** and **transport co-modality** in order to improve the **integration** of regional transport services



A phased approach



A. ENABLING INFORMATION SYSTEMS

- A.1 Integration of the different Timetables and routes of scheduled public transport
- A.2 Integration of the local Road graphs, addresses and road bylaws



B. DEVELOPMENT BASIC SERVICES

- B.1 Regional Multimodal travel planner
- B.2 Searching and browsing points of interest



C. DEVELOPMENT ADVANCED SERVICES

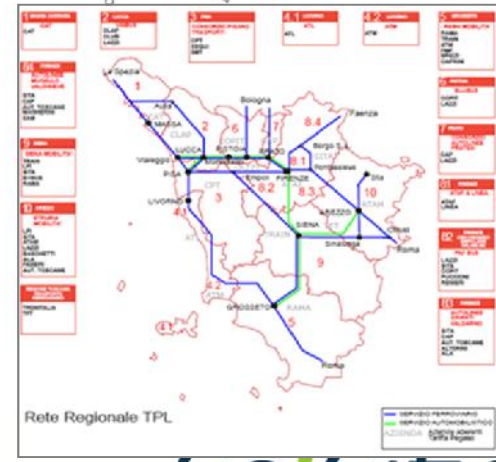
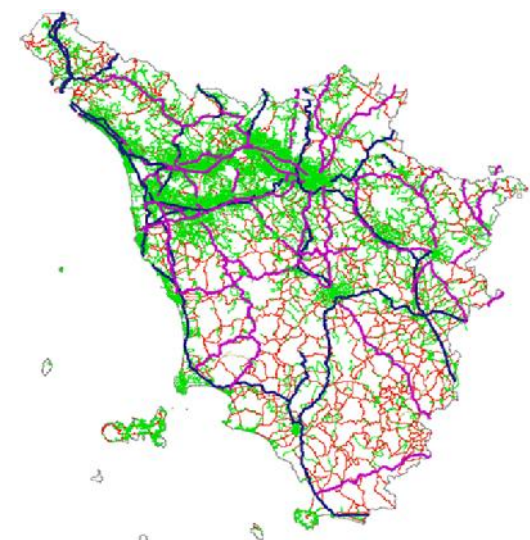
- C.1 Real-Time Info traffic and PT Info



Phase A: geographical Database Infomobility



Road network model = 59.459 km	157 Municipalities 10 Provinces
Road work scheduling	10 Provinces, 25 Municipalities (with more than 20.000 inhabitants)
Train timetables	Trenitalia (National Railways Operator) and Regional Train Service
Ferry timetables	Both 2 regional services
Bus timetables	14 consortium of operators (covering the whole territory of Tuscany)
Tram timetables	Line 1 operated in Florence



- Integrated and unified timetable database of public transport (bus, train, ferry)
- Data available on Google Transit



Phase B: Regional multimodal travel planner

- GIMI (Gateway for the Integration of Mobility Information)

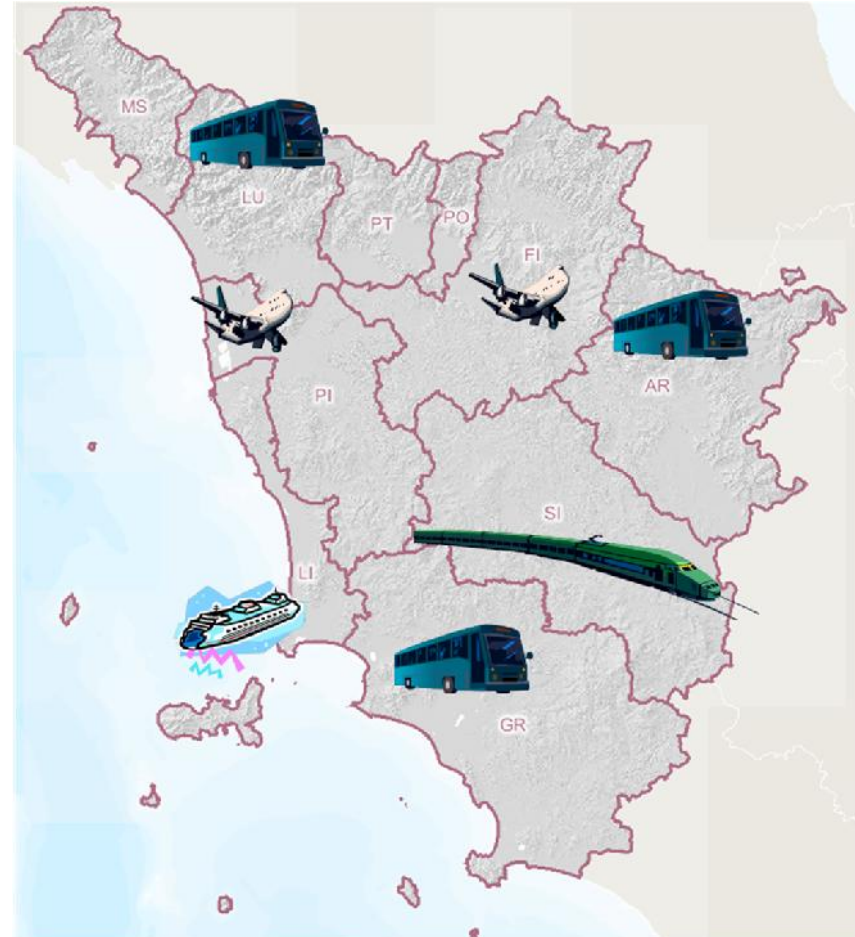
The screenshot shows the homepage of the GIMI website. At the top, there is a blue header with the text 'GATEWAY INFORMATIVO PER LA MOBILITÀ INTERMODALE' and a green circular logo with 'trasporti Regionali' and 'REGIONE TOSCANA'. To the right, a green phone icon is labeled 'NUMEROVERDE 800-570530'. Below the header is a red navigation bar with links: 'HOME', 'TRASPORTO PUBBLICO', 'TARIFE PEGASO', and 'TRASPORTO PRIVATO'. A vertical blue sidebar on the left contains the text 'www.regione.toscana.it'. The main content area starts with 'Ti trovi in: Home Page' and a welcome message: 'BENVENUTI NEL GATEWAY INFORMATIVO PER LA MOBILITÀ INTERMODALE. Informazioni su tutti i servizi di mobilità in Regione Toscana: soluzioni integrate intermodali e multivettore. Rete del trasporto pubblico, orari e corse, biglietti e abbonamenti Pegaso. Calcolo di precorsi con mezzi pubblici e automezzi privati.' Below this are four sections: 'Trasporto Privato' with links '» pianifica un percorso', '» ricerca un indirizzo', and '» Ordinanze'; 'Trasporto Pubblico' with links '» pianifica un percorso', '» ricerca un indirizzo', '» tariffe Pegaso', and '» ricerca voli'; 'Eventi'; and 'News'.

- Website for the distribution of BDGI data bank collated by, also performing advanced travel planning functions (extended to the whole regional territory)
- Extension to private modality under progress



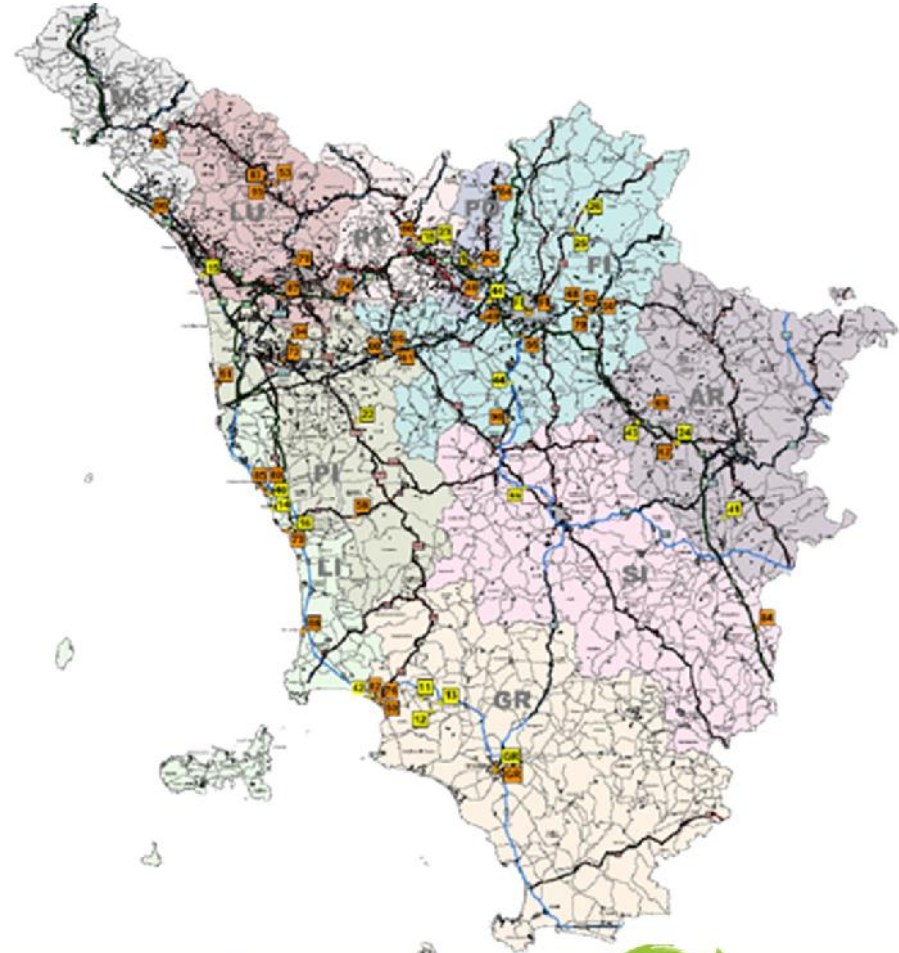
Phase C: Extension to multimodal dynamic data

- ❑ **Automated Vehicle Monitoring (AVM)**
2800 buses, 20 transport executives,
around 8.5 MI Euro
- ❑ **Mobility Information Center (MIIC)**
for the **integration** of road conditions
information (traffic and parking
conditions) with public transport info
(Autostrade SpA, the National Highway
Operator; Trenitalia SpA, National Train
Operator; roads managed by Provinces)
- ❑ **10 weather conditions detection**
sensors affecting road conditions
(managed by the Regional Centre for
Weather Forecast – LAMMA)



Local (Regional) Infomobility projects

- 14 Local projects funded by the Regional Administration in order to foster infomobility services at local level
- Around 9 MI Euro



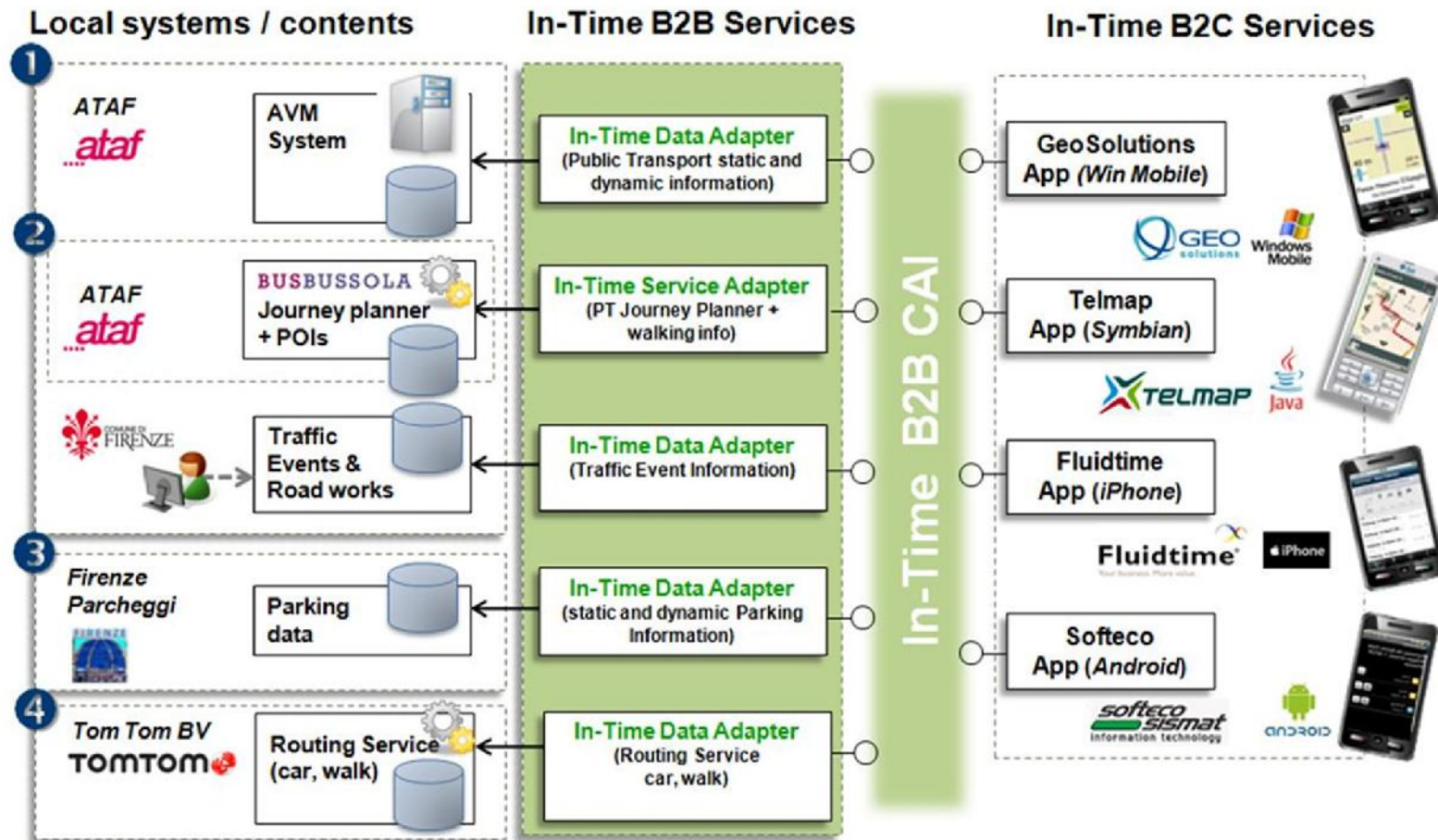
Co-Cities background: In-Time project and pilot site in Florence



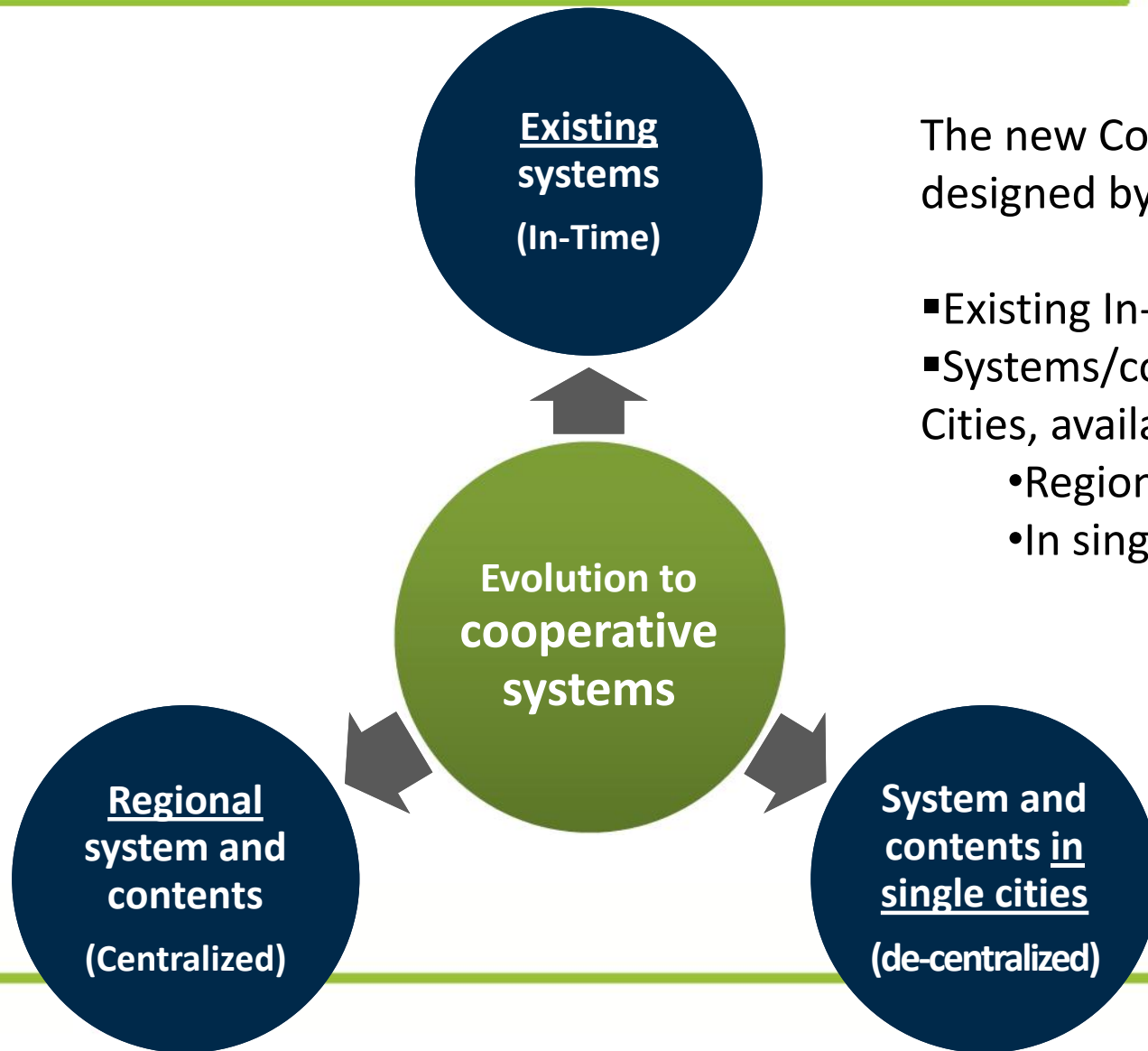
- Florence as a pilot site within **In-Time project**
 - starting 2009, piloting from october 2010
 - Project and local partners: **ATAF** (PT company), Parking company, municipality, **Memex** (engineering) **Softeco** (technologies)
- Objectives
 - Piloting an **open access** to local integrated multimodal information → use of EU standards
 - The In-Time **B2B Commonly Agreed Interface**
 - Mobile Apps for citizens and travellers (tourists)



Co-Cities background: In-Time project and pilot site in Florence



Co-Cities in Tuscany Region



The new Co-Cities services will be designed by evolving :

- Existing In-Time systems
- Systems/contents suitable for Co-Cities, available at :
 - Regional level (centralized)
 - In single cities (de-centralized)

Co-Cities in Tuscany Region



Evolution to
cooperative
systems

The specification of cooperative system and infrastructure is defined according to the definition of cities' **Use Cases** from all partners

→ including the following of interest for Regione Toscana

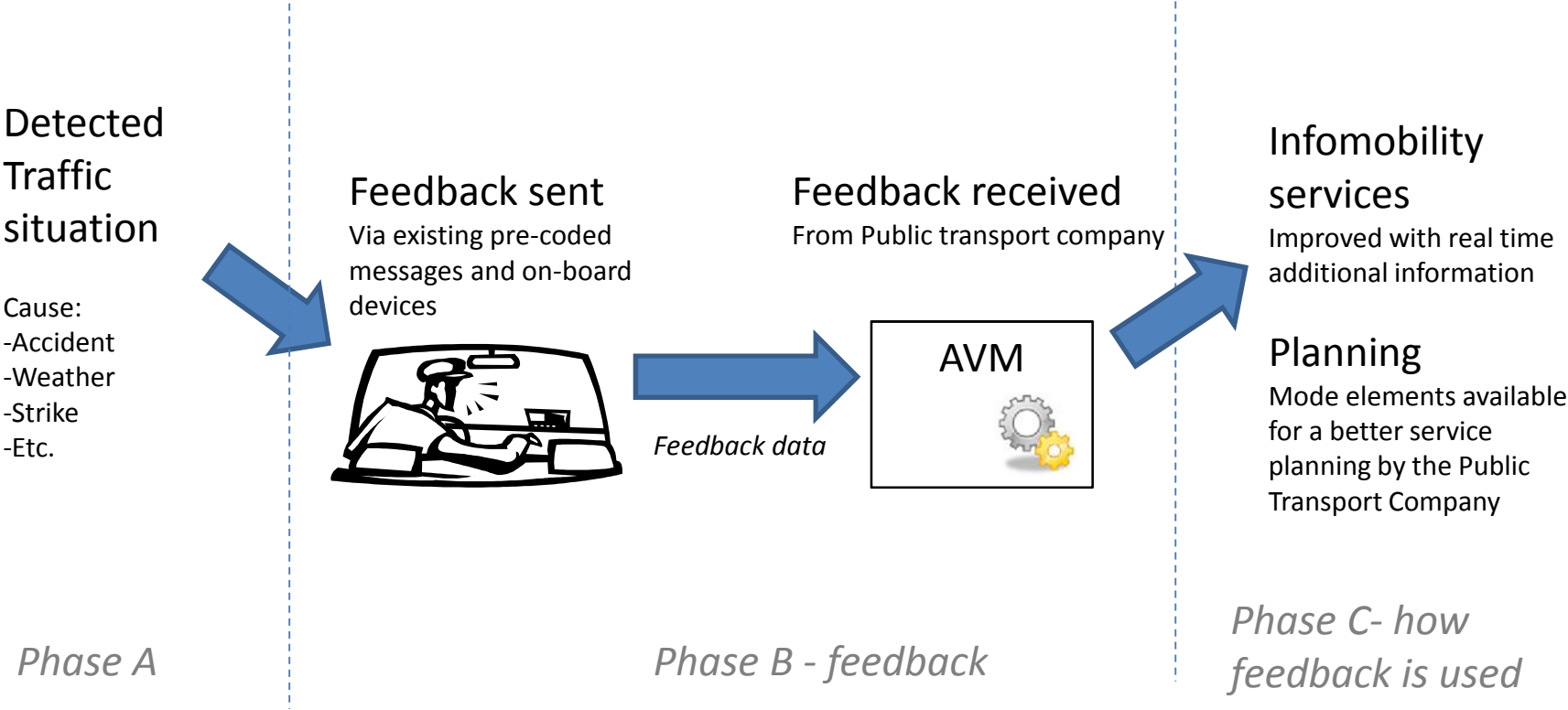


CoCities

Example Use Case 1



Real time Public Transport Info Feedback (PT bus driver side)

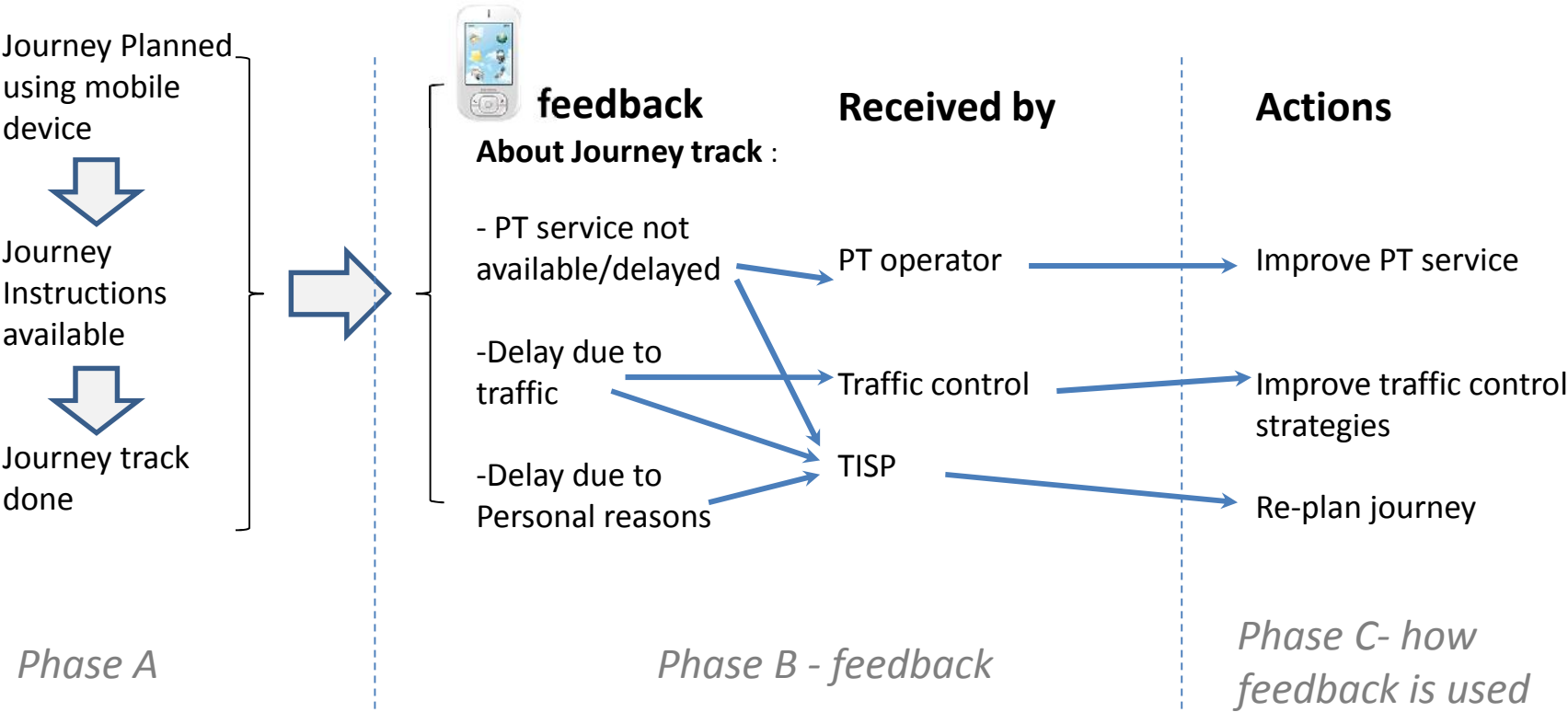


Example Use Case 2



Multimodal journey planning enhanced with feedback functionalities

User sends feedbacks at interchange points in a planned journey



System involved in RT



- Regional system/contents:
 - MIIC over the GIMI/RT infrastructure
 - Regional Journey Planner system
- Local system/contents (initial phase)
 - **Florence:** In-Time follow-up
 - Parking, Traffic, Public Transport,...
 - **Lucca:** local infomobility project, city logistics project
 - Parking, Traffic,...
 - **Livorno:** local infomobility project
 - Public Transport,...





Thank you !

