



# **Co-Cities Cooperative Cities extend and validate mobility services**

**(Contract reference: 270926)**

## **D1.1 Project Presentation**

01.01.2011



# Co-Cities presentation – table of content



- Vision
- Objectives
- Concept
- Pilot Cities and their options
- Work program
- Timeline
- Partners

# Vision



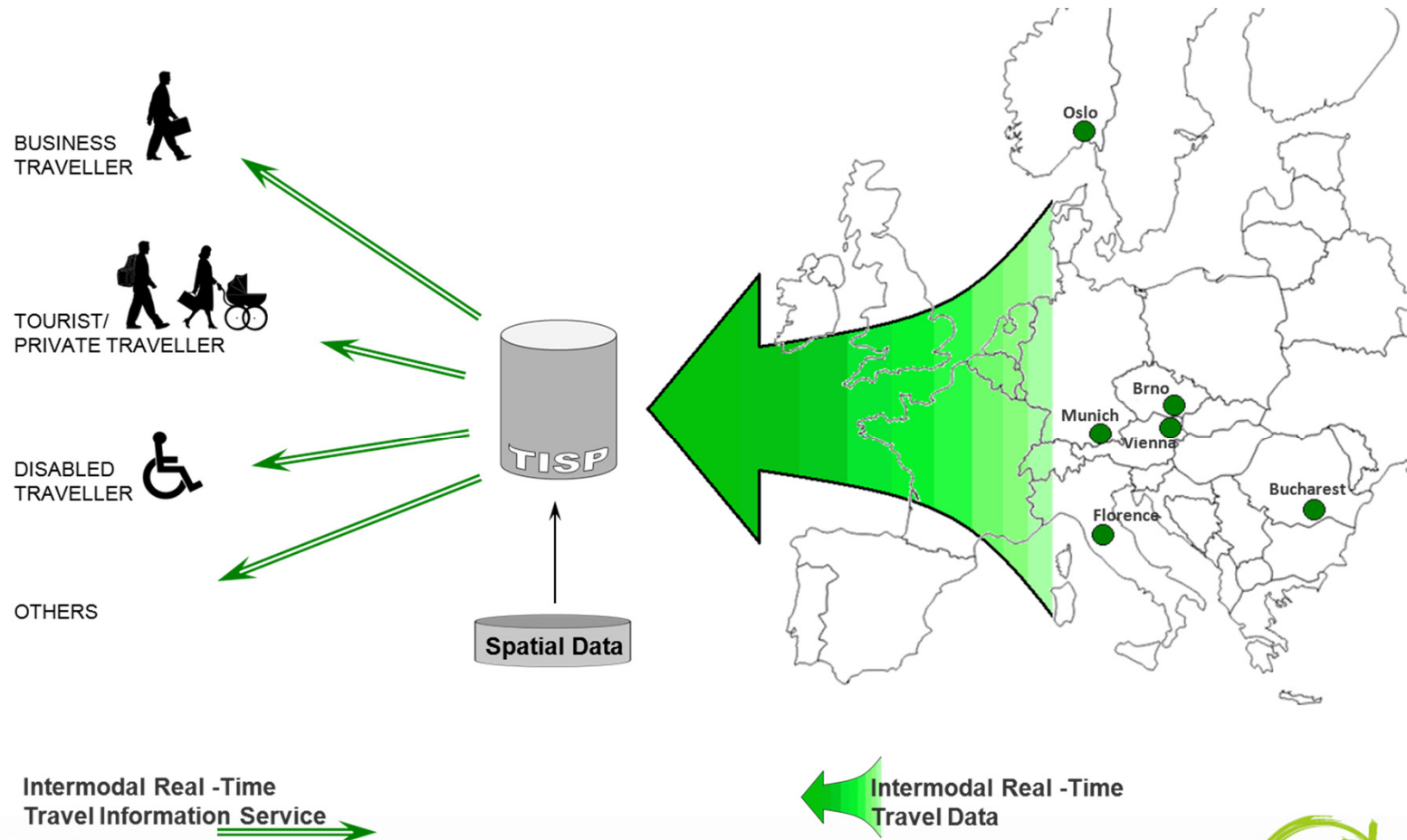
- Cooperative cities is based on the principle of transport information services for all modes which are coherent with the overall policy strategy and at the same time adaptive to changing dynamic traffic conditions and “interactive” with travellers.
- Provide a development path for implementation of cooperative transport management in European cities.

# Objectives

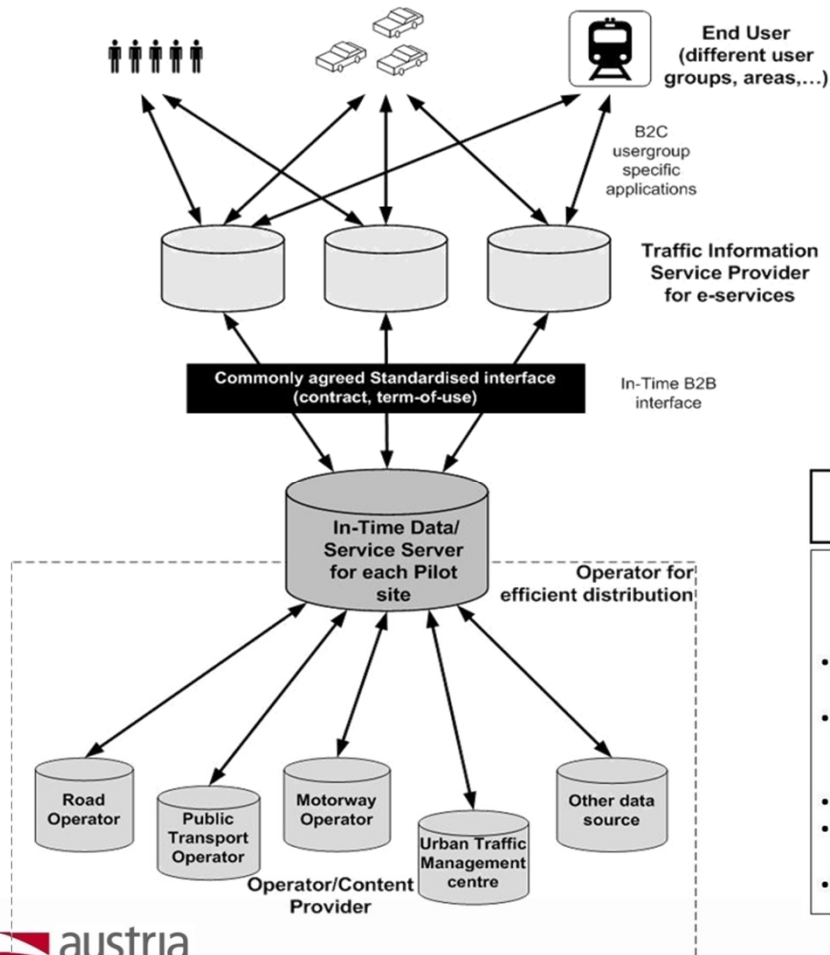


- To provide a **roadmap for cities and urban areas** how to extend their current traffic information portfolio with the additional services, possibilities and opportunities of **cooperative traffic information services** for travellers of all modes of transport.
- This roadmap is defined in terms of the current services offered and **their future extension**, and in terms of access to **consistent information and data for service providers**.
- 3 scenarios of cooperative service validation in cities are included in the project as lead cities and experiences and lessons learned are discussed in policy networks of public authorities and cities.

# Based on the In-Time concept:



# Concept of the RDSS (Regional Data/Service Server)



Data sources and generated transport information services

## In-Time Dynamic Multimodal Journey Planning

### Mandatory Core Service

- static road traffic information
- dynamic road traffic information (higher road network)
- static parking info
- static public transport information
- walking information

### Core Service

- dynamic road traffic information (secondary road network)
- dynamic PT info
- dynamic PT journey routing
- dynamic parking info
- enhanced walking planning
- dynamic cycling planning

### Add-on Service

- dynamic freight traffic information
- dynamic POI info
- dynamic traffic event information
- dynamic weather information
- static and dynamic flight information

# Key Elements: Options for Co-Cities



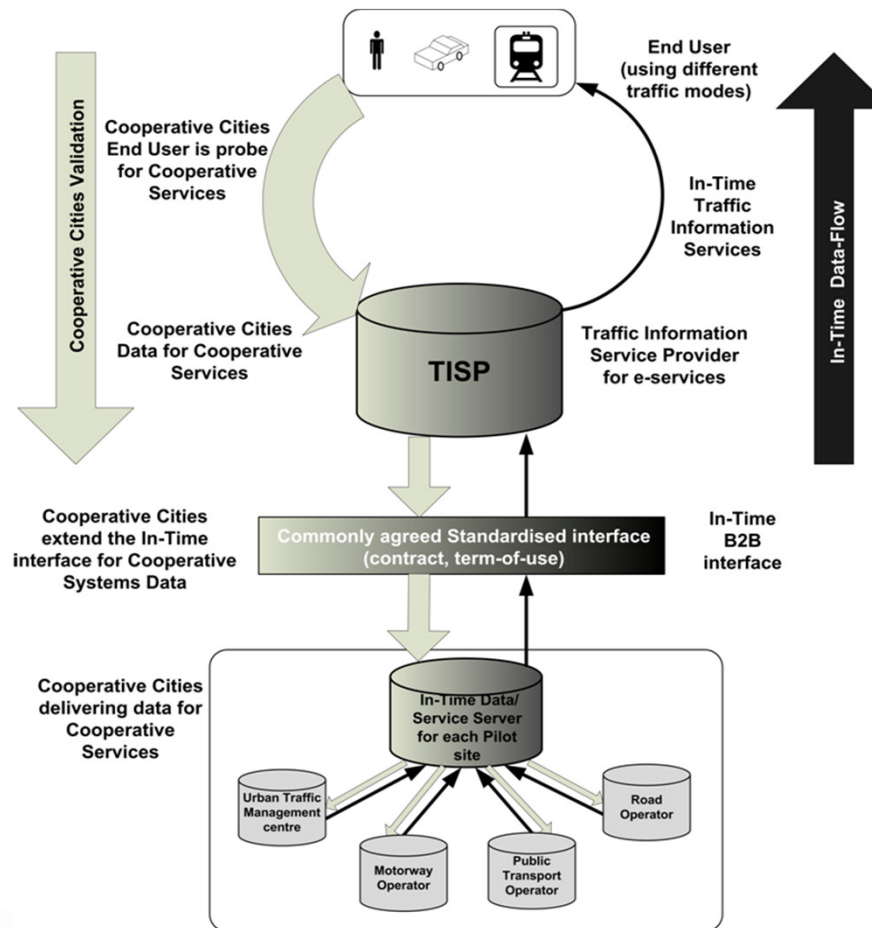
- Starting point for cooperative cities is the current status of information service implementation in 3 EU cities with the following principles and approaches:
- A: Combined information and data access for different service providers in one area to all channels of traffic information based on the In-Time common interface. Integration of all transport modes and accessibility via online, in vehicle navigation and personal devices to these services.
- B: Service integration and extension for specific user groups, e.g. intermodal commuters from airport,
- C: Extend existing communication networks (e.g. like CALM based UMTS and M5) with cooperative functionalities and options for all travellers in an urban area including the traffic information platform in the traffic control centers.

# Key Elements: options for Co-Cities (2)

## Activities:

- Collect User feedback from information services / validation
- Extension of In-time interface for platforms with cities
- Define the options for the Cooperative services in Cities

=> Roadmap

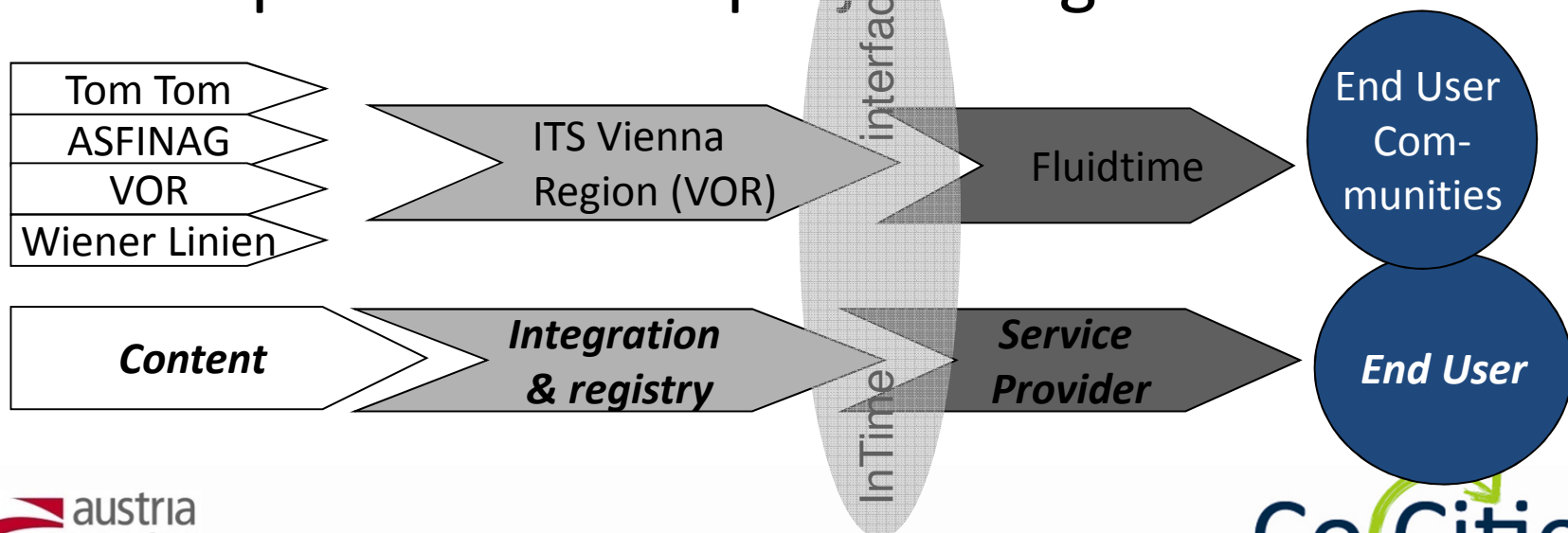




# Co-Cities: Partner roles



To clarify the single elements for transport related information service provision for a city the basic concept of **value network** is used in the cooperative cities project. e.g for Vienna



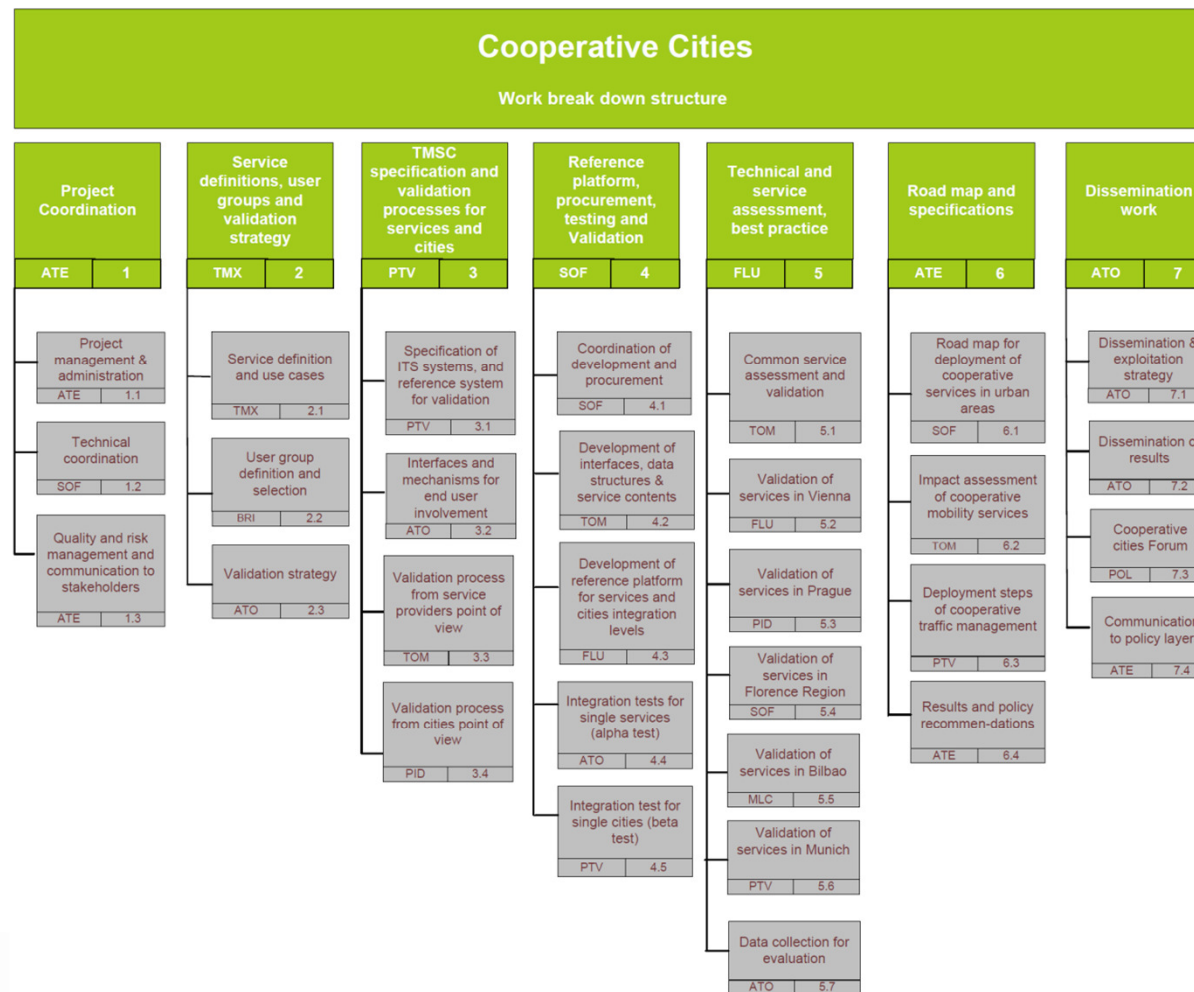
# Co-Cities: work program



The work program of cooperative cities consists of the following work packages:

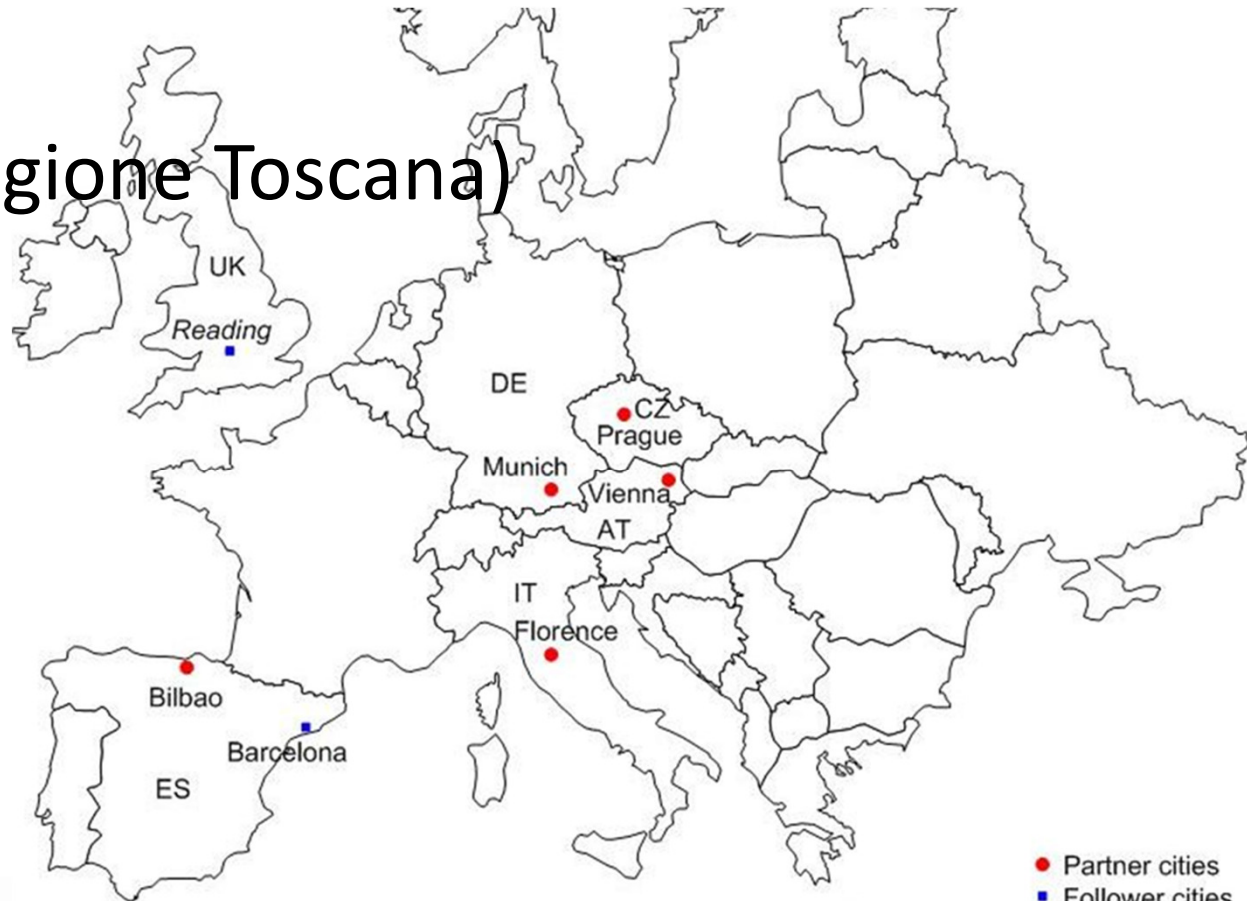
- WP1 – Project Coordination (ATE)
- WP2 – Service definition, user groups and validation strategy (TMX)
- WP3 – Traffic management and service centre specification, use cases and validation process (PTV)
- WP4 - Reference platform definition, procurement, testing and Validation campaign in the cooperative cities (SOF)
- WP5 – Technical and service assessment, best practices in cities (FLU)
- WP6 - Road map and specifications (ATE)
- WP7 – Dissemination work (ATO)

# Co-Cities: work program

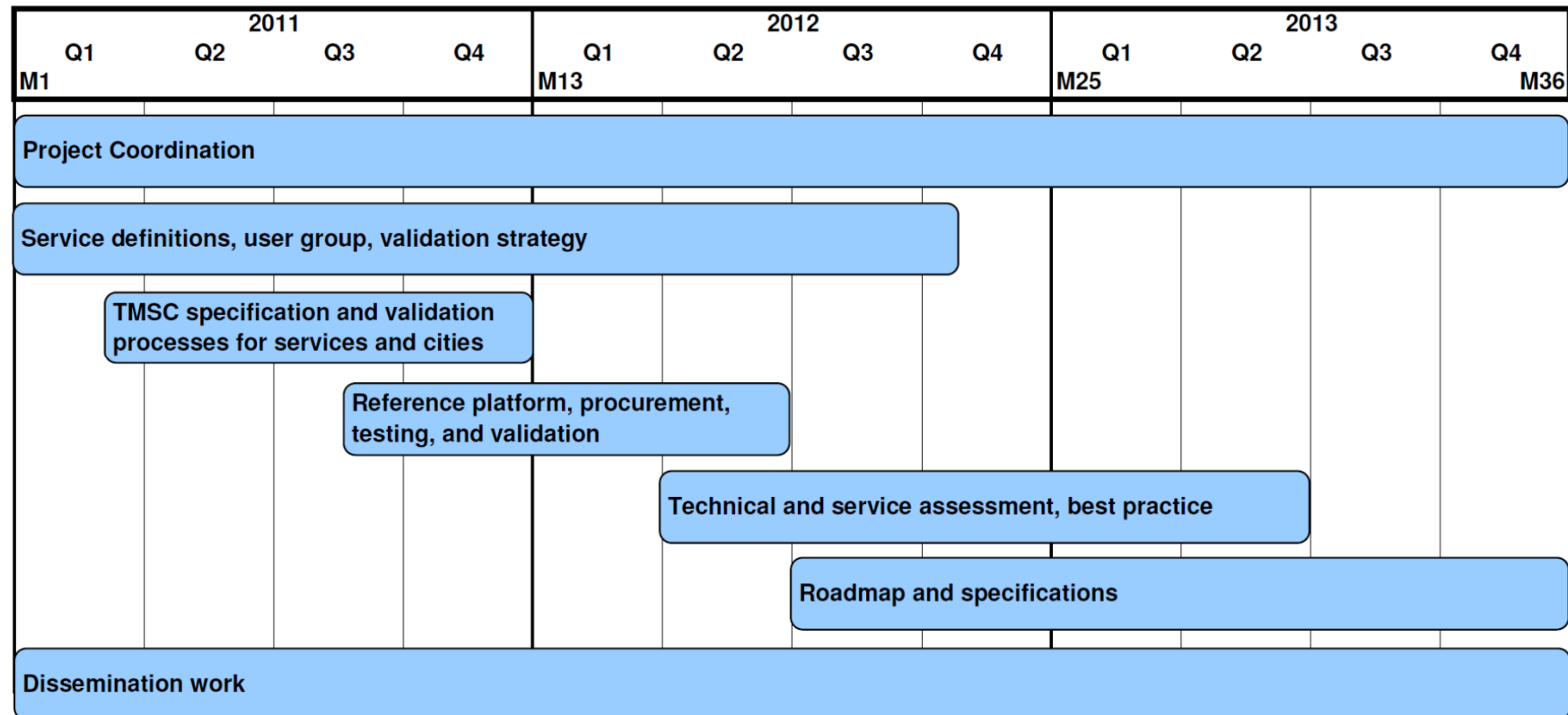


# Pilot cities for service validation

- Prague
- Florence (regione Toscana)
- Munich
- Vienna
- Bilbao
- Reading



# Time schedule



# Timeline and outputs/implementation



As Co-Cities is a pilot project, the focus is on the validation of the services in the cities, overview of schedule:

- M1 start of project January 2011
- Specification of processes/ validation strategy M3 to M12
- Reference platform M9 to M18
- Service assessment M16 to M30
- Road map for Co-Cities M19 to M36

# Working Steps



- Service definitions, user groups and validation strategy (wp2)
- TMSD specification and validation processes for services and cities (wp3)
- Reference platform, procurement, testing and validation (wp4)
- Technical and service assessment, best practice (wp5)
- Road map definition (wp6)

## Service definitions, user groups and validation strategy (wp2)



- defining short list of services for the participating cities and the respective use cases
  - necessary elements from organizational and technical point of view
  - focus on cooperative elements
- propose user groups for the services defined
- definition of the necessary groups and their involvement



## Service definitions, user groups and validation strategy (wp2/2)



- Definition of the testing and validation steps
  - based on the use case list and user groups
  - of existing elements and access to common data interfaces
  - system extension and their testing and validation, with requirements and pass criteria in the single validation steps
  - key aspects of the reference system and the test cases for services and the validation in the single cities

## TMSC specification and validation processes for services and cities (wp3)



- Definition of the ITS system specifications for efficient extensions with standard modules
- Two steps validation concept for services and cities
- Definition of the common ITS system elements and the system extensions in the single city with reference to cooperative elements
- Specification through the service providers, how to get access to end user groups (in terms of data, service generation process and performance evaluation)



- Specification of the steps of system validation for the phases
  - technical testing of interfaces
  - reference platform test per service
  - service quality evaluation
- Specification of an effective process to validate the Cooperative City information services from the participating city perspectives
- giving access to the work to external participants, e.g. from the follower cities

## Reference platform, procurement, testing and validation (wp4)



Provide fully working systems and confirm equipment readiness for validation phase in the cities

- Coordination of all development activities comprising
  - the reference platform
  - interfaces
  - data structures
  - service contents
- Coordination of all procurement activities for setting up and operating Co-Cities services

## Reference platform, procurement, testing and validation (wp4/2)

- Service delivery platforms (reference platform, personal navigation device, smartphone..)



## Reference platform, procurement, testing and validation (wp4/3)



- Development of interfaces, data structures and service contents for
  - providing the services
  - evaluation activities
- Realization of the reference platform for the validation of services
- Sign off of the realized reference service platform for the cities integration levels
- Integration tests for single services (alpha test)
- Integration test for single cities (beta test)

## Technical and service assessment, best practice (wp5)



- Delivering best practice demonstrations for cities in their involvement for cooperative transport services
- Performing the service demonstrations and validations to meet all requirements of the validation strategy
- Coordination of the service assessment in the cities involved
- Ensuring that service assessment and validation are carried out on a comparable and high quality level for each city
- Validation of the services in each city
- Data collection for evaluation

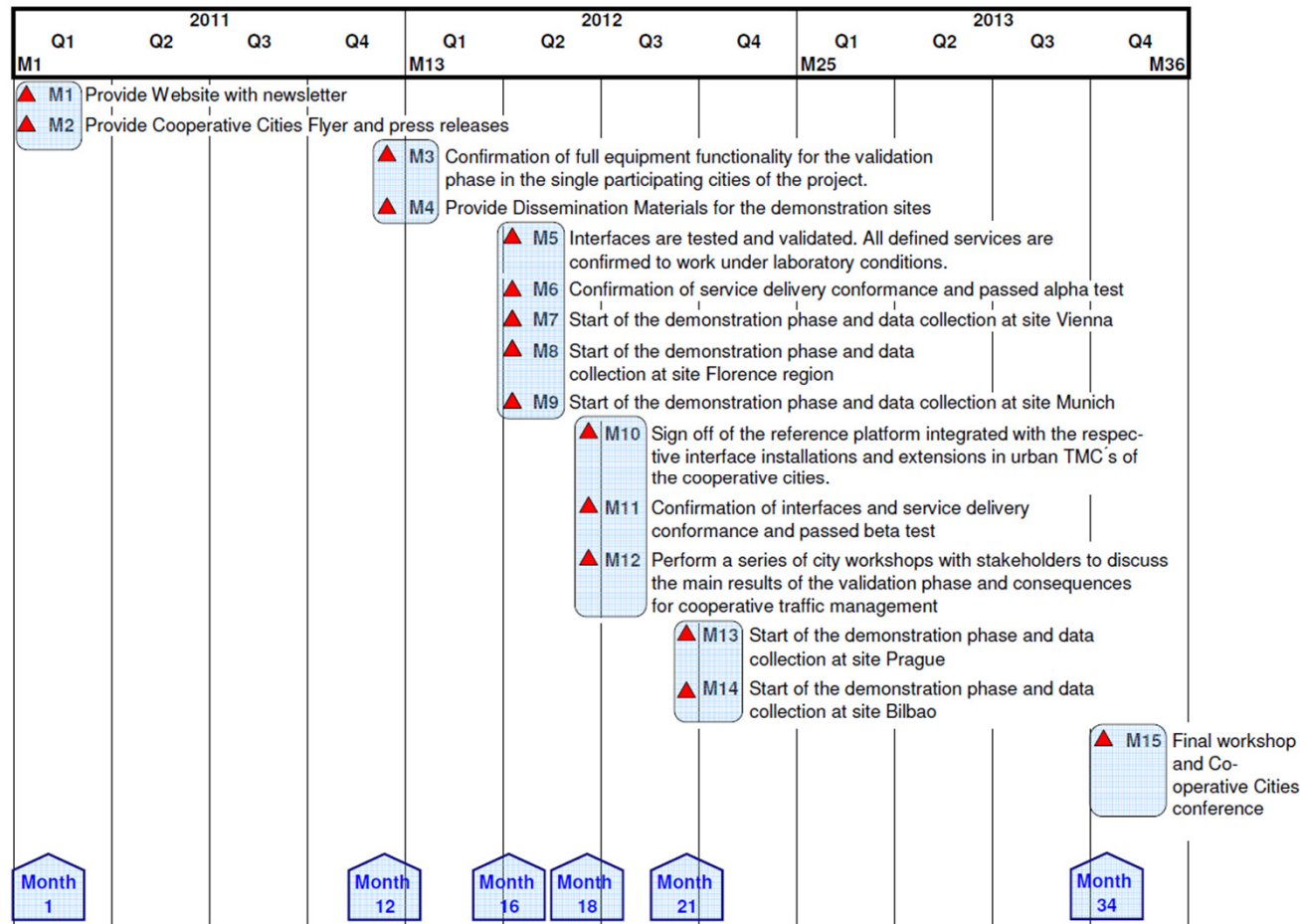
## Road map definition (wp6)



- Definition of consistent deployment road maps for cooperative systems in urban environments
- Delivering a consistent deployment strategy for cooperative traffic management in cities and urban areas
- Finding the best service bundles for the deployment of cooperative mobility services
- Proposing a development path for the further extension of cooperative mobility services in urban areas
- Formulating the policy recommendations for cooperative mobility services on regional national and European level



# Co-Cities Milestones:



# Key documents



- Cooperative Cities Project Presentation
- Report of cooperative cities services and set use cases
- Validation strategy for existing systems, including extensions and reference
- ITS system specification description and reference platform for validation
- Reference platform, it's configuration and usage manual (prototype)
- Report on best practice of service assessment in Co-Cities
- Deployment strategy for cooperative traffic management in cities
- Cooperative cities results and policy recommendations

# Partners:



AustriaTech (AT)

Softco Sismat (IT)

Telematix Software (CZ)

Fluidtime Data Services (AT)

Brimatech Services (AT)

TomTom (NL)

The Regional Organiser of Prague Integrated Transport (CZ) POLIS (BE)

Atos Origin (ES)

PTV Planung Transport Verkehr (DE)

Asociacion Cluster Del Transporte Y La Logistica De EUSKADI (ES)

Regione Toscana (IT)

Reading Borough Council (UK)

MemEx (IT)



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