GeoSmartCity

open geo-data for innovative services and user applications towards Smart Cities

CIP ICT-PSP Project n. 621150

Start date 01-03-2014, duration 36 months

Open geo-data for innovative services and user applications towards Smart Cities

GeoSmartCity implements a platform to share and public geographical open data coming from different sources, such as Public Administrations, Multi-utilities, Companies and Crowd-sourcing.

The platform includes specialized web services to integrate public geographical data with other geo-refenced data (public or private) useful for the smart management of urban infrastructures and public services in the context of the **Smart City** initiative and the **Digital Agenda** for Europe.

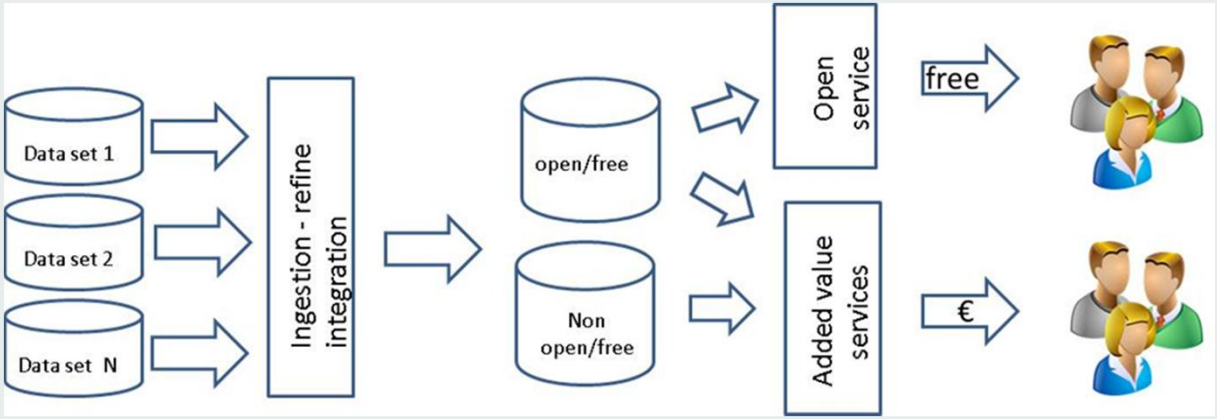
Partnership

Objectives

- Support Cities to 'open' their data to professionals and citizens
- Establish a cross-platform, re-usable, able to publish open-(GI) data, in an urban context, but with a European dimension
- Provision of tools and facilities to integrate GI data/info with open data
- Framework and services to integrate proprietary/restricted data with open (GI) data of the City

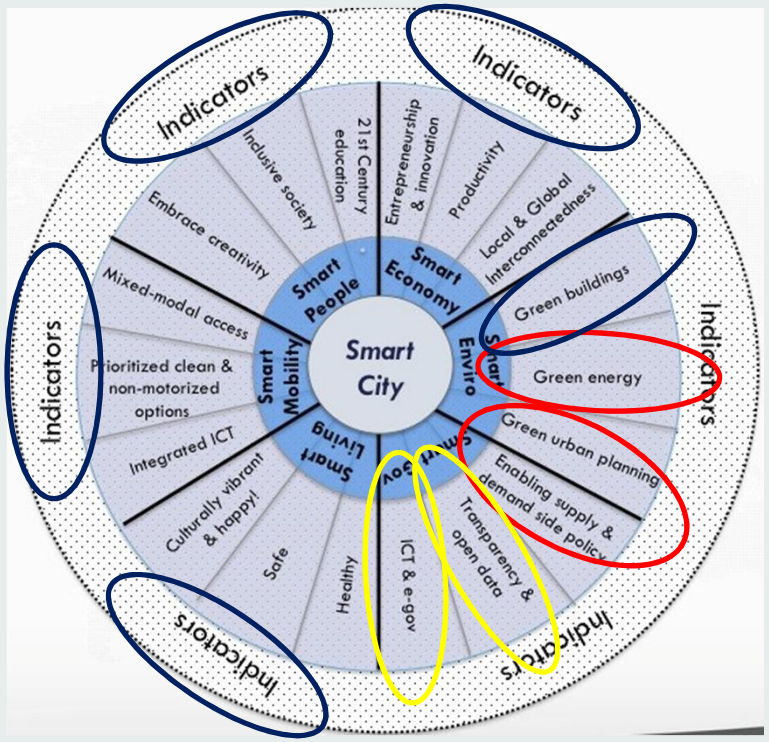
Objectives vs Exploitation

- Open infrastructure to build new business model for PAs and SMEs
- PPP (Public Private Partnerships): collaborative management of Open(GI) data
- Integration of restricted data in a secure way



Objectives vs Exploitation

- Open infrastructure extandable to different SmartCity contexts



- Two application scenarios:

✓Green Energy (5 pilot cases)
✓ Underground (6 pilot cases)

ICT Objectives

- Harmonised environment to integrate different operational protocols and standards, based on existing infrastructures
- Re-use of specialized services based on open standards
- Integration of new base/specialized services
- Ingestion and data integration engine composed by:
  - Harmonised data storage (based on GI standard, open data format)
  - a set of ingestion and data relation services:
    - Ingestion toolkit of GI data (open/restricted)
    - Ingestion toolkit of not-GI data (open/restricted)
    - Refine and reconcile toolkit to link and interconnect data
    - Crowd-sourcing base services based on location services

Outcomes

1. ***GI Open Data Repository and Target Data Models***

   Open and proprietary datasets including geo-spatial information in an interoperable infrastructure based on open standards.

2. ***GeoSmartCity Hub***

   A cross-platform, re-usable and open hub able to publish open geographic information and to provide specialised services based on open standards services.

3. ***Innovative Services***

   Services platform to View, analyze, extract data from the GeoSmartCity OpenData Hub; Universal Discovery Services; BI and Geoprocessing service platform; Ingestion and data integration engine.

Outcomes

4. ***Green Energy Scenario***

   Operative and re-usable pilot cases to facilitate diffusion and management of renewable energy within cities.

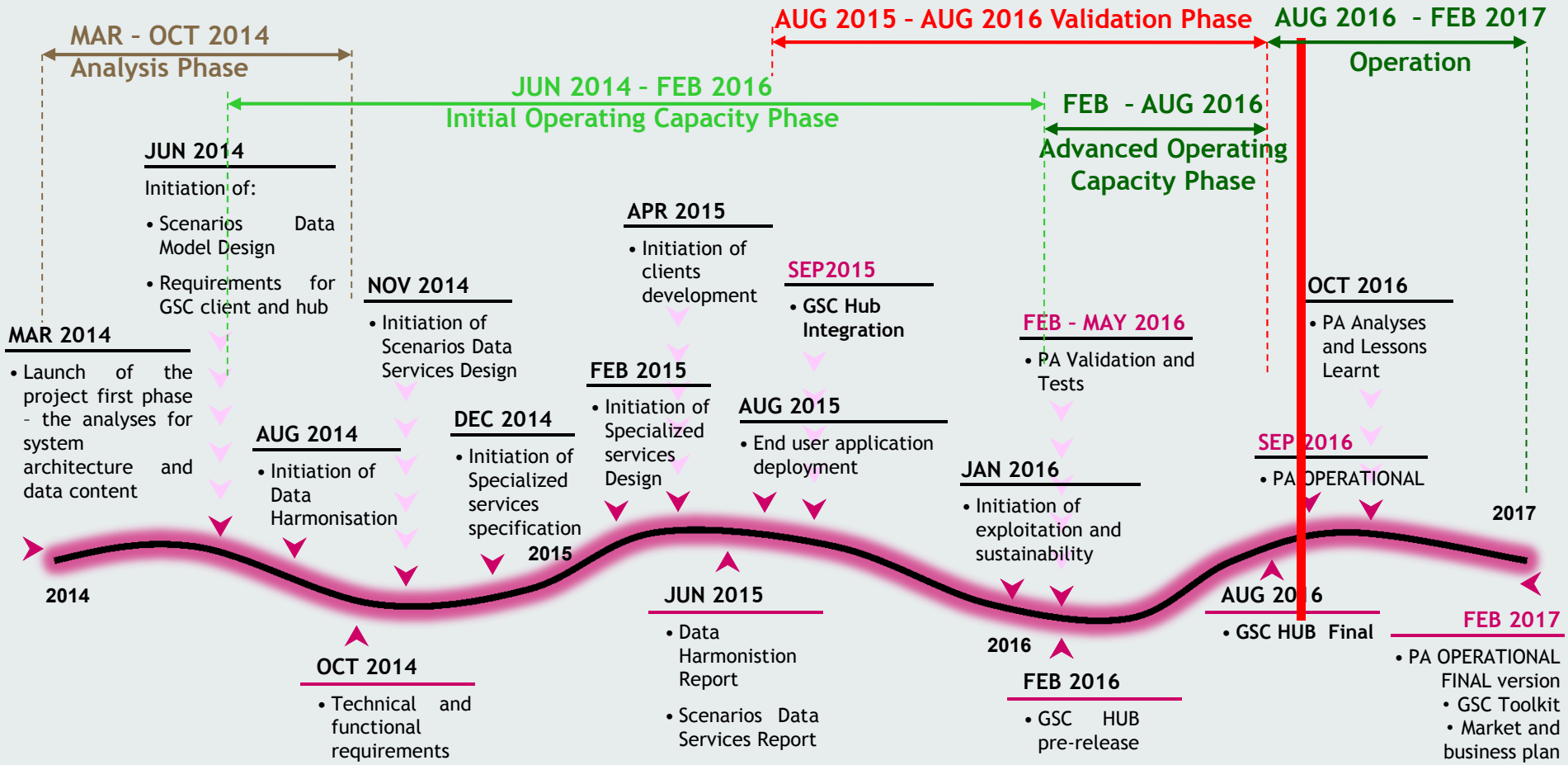
5. ***Underground Scenario***

   Operative and re-usable pilot cases to support integrated management of underground utilities infrastructures

6. ***GeoSmartCity Training Framework***

   Designed in order to make available existing knowledge and transfer the outcomes of the project towards the target groups of users. The Training Framework complements and support dissemination and exploitation, fostering Capacity Building

Road Map


MAR – OCT 2014
Analysis Phase
JUN 2014 – FEB 2016
Initial Operating Capacity Phase
AUG 2015 – AUG 2016 Validation Phase
AUG 2016 – FEB 2017
Operation
FEB – AUG 2016
Advanced Operating Capacity Phase
MAR 2014
• Launch of the project first phase – the analyses for system architecture and data content
JUN 2014
Initiation of:
• Scenarios Data Model Design
• Requirements for GSC client and hub
AUG 2014
• Initiation of Data Harmonisation
NOV 2014
• Initiation of Scenarios Data Services Design
DEC 2014
• Initiation of Specialized services specification
OCT 2014
• Technical and functional requirements
2014
2015
APR 2015
• Initiation of clients development
FEB 2015
• Initiation of Specialized services Design
SEP2015
• GSC Hub Integration
AUG 2015
• End user application deployment
JUN 2015
• Data Harmonistion Report
• Scenarios Data Services Report
JAN 2016
• Initiation of exploitation and sustainability
2016
FEB - MAY 2016
• PA Validation and Tests
FEB 2016
• GSC HUB pre-release
OCT 2016
• PA Analyses and Lessons Learnt
SEP 2016
• PA OPERATIONAL
AUG 2016
• GSC HUB Final
2017
FEB 2017
• PA OPERATIONAL FINAL version
• GSC Toolkit
• Market and business plan

City Pilots and Scenarios

Turku

Flanders Region

South Moravian Region

Comarca of Pamplona

Ruda Slaska (Katowice area)

Reggio nell'Emilia

Girona

Genova

Oeiras

Maroussi

Oeiras

See more in the next presentations…

14:00 – 15:30	• *The GeoSmartCity Hub, P. Cipriano, SINERGIS, Italy* • *GeoSmartCity scenario (Integrated management of Underground)*
16:00 – 17:30	• *GeoSmartCity scenario (Green Energy)* • *The Reggio Emilia experience, Barbara Leoni, Municipality of Reggio Emilia, Italy* • *The GeoSmartCity Training Framework (G.Saio)*

GeoSmartCity Network

The final outcome of GeoSmartCity is a long-term sustainable open network of stakeholders.

All the interested stakeholders are very welcome to join the GeoSmartCity Community.

Adhesion to the GeoSmartCity Network

You will receive an inviation