INSPIRE IMPLEMENTATION ON METROPOLITAN LEVEL – CASE STUDY: MUNICIPALITY OF THESSALONIKI
Where is Municipality of Thessaloniki (MoT) ?

- North side of Greece
- 2011 - 790,824 citizens
- 2^{nd} Municipality of Greece - after MoAthens
Starting Point of the Technology in MoT...

The initial project was regarded the «Development of a GIS in the Municipality of Thessaloniki» and the main purpose was the upgrade of the geospatial information and service to the citizens by means of web services and technologies such as Web Gis. The whole project was delivered by the end of 2008.

Since then,

• 941,957 users of GIS, from 1/1/2008 – 12/6/2014
• 42,06 % new users/consumers
• A big interest for geodata – think of new approach by means of GIS/SDI platform.
Municipality of Thessaloniki (MoT)

1st Apps
Apps for Digital Urban Planning.

2nd Apps
Apps for Acts Settling

3rd Apps
Apps for Tour Guide.

4th Apps
Apps for Acts Adjustment

5th Apps
Apps for Building Conditions and Land Use
Among other applications that was created, in house, since 2008, are:

- Mobile GIS (smart phones) (2008)
- Internal GIS apps for several purposes (present day)

Thus, the MoT has become creator, owner and user of a large amount of geospatial datasets.
Mobile GIS for smart phones

Link for iOS

Link for Android
Data Sets such as …

• Coordinate Systems
• Municipal Boundaries
• Cadastre Parcels
• Street names
• Transportation Net
• Ortho Images
• Buildings
• Land Uses

etc ... All of them are included to the Inspire Data Themes but not in the format that Inspire needs.
So, in order to address:

- administrative,
- urban planning and environmental issues,
- and to increase government transparency and accountability

by means of a sophisticated GIS/SDI system, the MoT has been an early adaptor of open data initiative.
INSPIRE thoughts …

The adoption of the INSPIRE’s provisions has become more than a necessity, in order to serve,

• public (citizens, public authorities, private sector) demand for access to open information.

Additionally, the Greek regulatory framework for the generation, management, and dissemination of geospatial information (Law No.3882/2010) mandates the Directive’s implementation.
The MoT’s SDI, is being developed using:

- Open standards,
- Incorporating all the components of a typical SDI (data, services, metadata, data & service sharing, monitoring & reporting),
- Municipality users’ needs

The SDI development is entirely based on Free and Open Source Software (FOSS) and an open (multi-tiered) architecture approach.

More than Sixty (60) datasets are documented and made available through the Geoportal, in conjunction with e-services.
• The internal procedures on the management of geospatial information are restructured.

• The System is enriched with sophisticated tools.

• The implementation of the SDI, as a Service Oriented Architecture (SOA), involving:
  
  o User requirement capture and analysis
  o Development of the metadata system
  o Data preparation
  o Development of network services
  o Implementation of the GeoPortal
  o Data uploading and deployment of services.
  o Development of reporting and monitoring mechanisms.

next …
• The development of the Geospatial Map is based on the GET SDI Portal ® (FOSS), which was developed and is distributed by Geospatial Enable Technology Ltd under the General Public License v3.

• Main features of the application are:

  o Visualisation of MoT’s and third-party organisations’ geospatial data
  o Search for specific MoT geospatial information, based on either spatial criteria or their business logic.
  o Discovery of data and services using MoT’s and third-party organisations’ metadata catalogues.
“Web services” developed include: a) Discovery Service, b) View Service, c) Download Service, d) Transformation (CRS)
“Information” from WMS Service (By selecting a layer ...)
Snap shot from “Geospatial Info”
“Search” form (implementing a criteria)
“Metadata” of spots for bicycles parking

- **Title:**
- **Abstract:**
- **Identifier:**
- **Keyword:**
- **Category:**

- **Where:**
  - Everywhere
  - Design on Map
  - Interaction with Map

- **When:**
  - From:
  - To:
  - Criteria:

- **Type:**
  - Service Type:

- **Additional Search:**
  - Responsible Party:
  - Responsible Party Role:

- **Metadata Information:**
  - **File Identifier:**
    - mail1k-03-e25b-11e3-8b68-0800200c9a46
  - **Language:**
    - en
  - **Character Set Code:**
    - MD_CharacterSetCode_utf8
  - **Scope Code:**
    - dataset

- **Metadata about metadata**
“Search and Save” results in order to serve innovative Administrative Operations.....
Some more actions need to be spent AND further attention needs about:

- Data conformance (scheduled for Q1 2015)
- IT infrastructure reformation and upgrade, to serve increasing needs
  - Server consolidation,
  - Transposition to virtual environments for resource saving
  - Cloud services under investigation

BUT the crucial part has been decided: the willing of the Authority to fulfil that goal.

At the end of the whole project, the Geoportal will be appended/embedded on the existing Web Gis portal http://gis.thessaloniki.gr, providing a single end point for all geospatial resources
A main question that has been posted was:

“Do we expect something particular from that kind of technology?”

Expectations/Benefits:

- Less transactions with physical presence in Municipality
- Decrease time of acquiring geospatial data
- Increase the possibilities to cooperate with the adjacent Municipalities in order to get uniform decisions on problems that concern their adjacent territories.
Thanks for your attention