# Università degli Studi di Salerno – Dipartimento di Informatica EUROGI Members Meeting

# Geospatial & Digital Transformation key for Industrial Revolution 4.0 and Society

**26<sup>th</sup> April 2018** 

State of play in Italy

### Italian e-government Strategy





Compliance with the European Digital Agenda (COM 2010 245 final), that is one of the seven pillars of the *Europe 2020 Strategy* 

http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52010DC0245&from=EN

# The Role of AgID: Skills & Functions

Coordination	Coordinating ICT for local, regional and central administrations	Digital Literacy	Promoting and spreading digital literacy initiatives also through the deployment of ICT educational means
Guidelines	Issuing technical rules, guidelines & methodologies for ICT, always taking into account accessibility and inclusion principles	Innovation & Research	Implementing strategic projects in the field of innovation and research in compliance with the Italian and European Digital Agendas
Standardisa- tion	Improving quality and usability of Public ICT systems for Citizens and Private Companies, providing compliance with national and European standards	Strategic Planning	Drafting the Three-Year Plan as the national digital strategy together with the PAs involved
Monitoring	Monitoring the digital growth and the efficiency of ICT expenditures through the cooperation with other public bodies	Access to Digital Services	Promoting use of technologies and online services in order to assure the digital growth

### AgID's main actions

**Italian Digital Agenda** integration and implementation ...

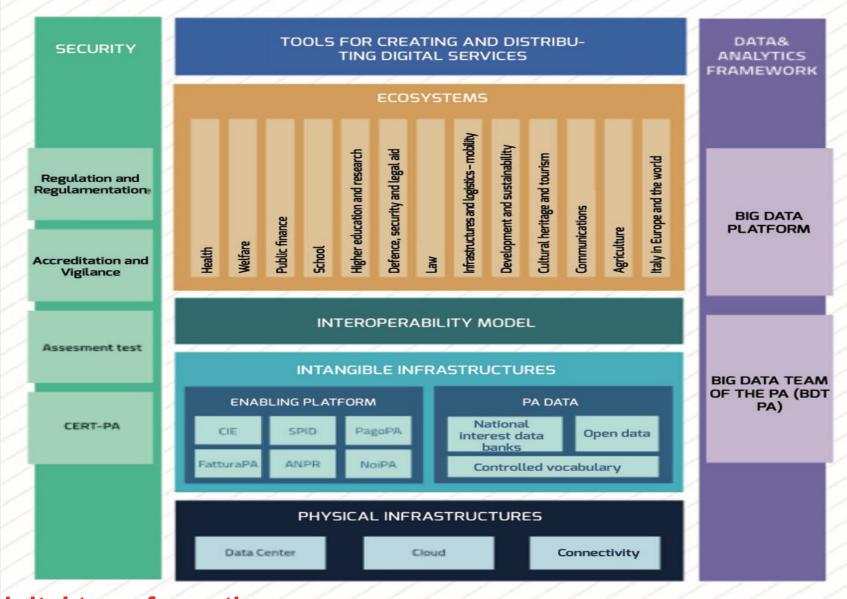
...according to the milestones of the **European Digital Agenda** ...

...through a Strategic ICT Model

of Public Administration based on
integration and interoperability and
released in a Three-Year Plan for ICT

- INSPIRE Directive
- Digital Single Market Strategy
- e-Government Action Plan
- e-IDAS Regulation
- New Data Protection Reg.
- Network and Information Systems
   Directive
- Other directives and regulations:
  - Geo-blocking reduction
  - Accessibility act
  - Digitisation of industries
  - Free Flow of Data
  - Single Digital Gateway

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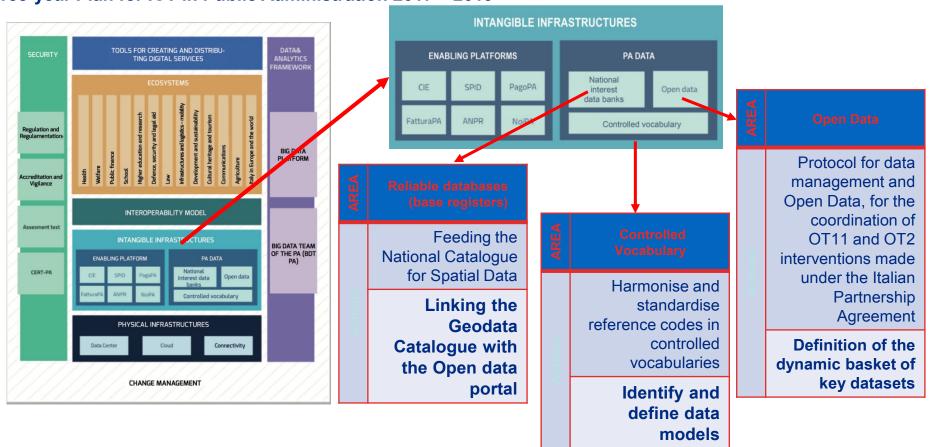
Digital transformation strategic model in the Three-year Plan for ICT

CHANGE MANAGEMENT

# **GeoSpatial Data Italian framework**



Strategic model of the PA information system
Three-year Plan for ICT in Public Administration 2017 – 2019





# **Data policy**

The data strategy focuses on the adoption of a "**Protocol for data** management and Open Data" defined for the coordination of specific (OT11 and OT2) interventions made under the Italian Partnership Agreement, including the following actions:

- Feeding the national Catalogue of the open data (dati.gov.it)
- Provision of metadata according to the DCAT-AP\_IT profile
- Using guidelines for enhancing public information assets\*
- Definition of the dinamic basket of data sets to be opened\*\*
- Feeding the national Catalogue for spatial data, according to INSPIRE and national rules
- \* The guidelines include requirements for the link of the National Catalogue for Spatial Data (RNDT.gov.it or geodati.gov.it) with the national Catalogue of open data (dati.gov.it)
- \*\* Including many spatial data sets at national and regional level

# The approach



In the topic, AgID has been engaged to **improve the access to data and services**, including the spatial ones

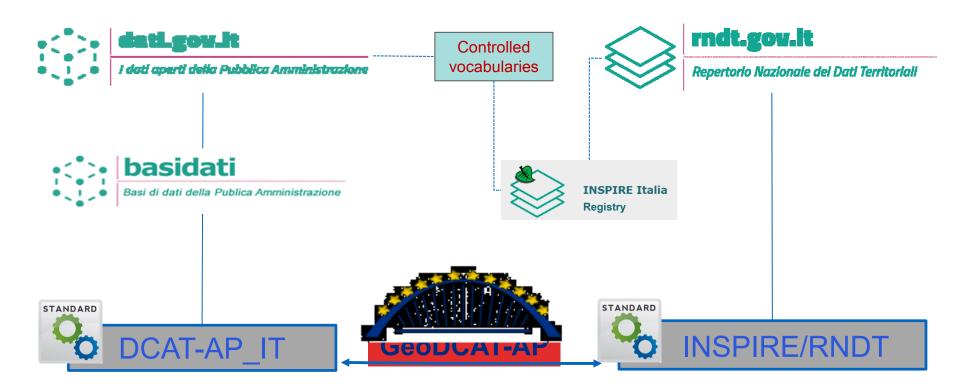
The approach includes **common rules at organisational and technical level** and **common data models**, facilitating cross-sector sharing of metadata, data and services

To give an overview of that approach, two use cases:

- the new version of the catalogue for spatial data and its integration in PSI –
   Public Sector Information infrastructure
- the extensions to the INSPIRE data specifications for the implementation of that EU Directive

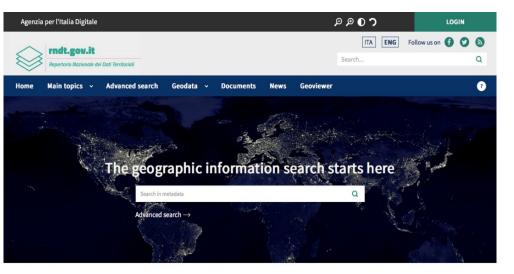
# PSI Infrastructure / Catalogues





#### The new RNDT





#### Next steps:

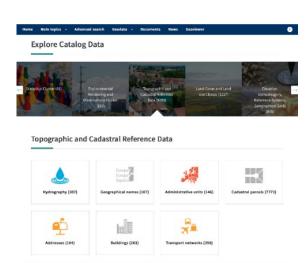


new version of Italian guidelines on metadata compliant with the new INSPIRE TGs

 editor, validator and visualisation of metadata aligned to the new INSPIRE and Italian TGs

#### Main innovative features:

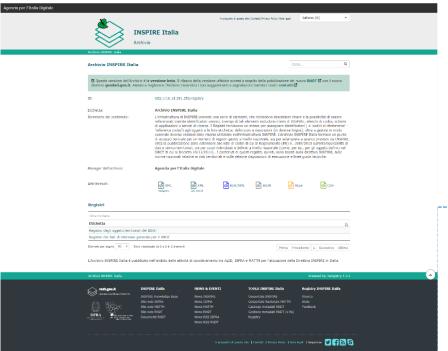
- new domain geodati.gov.it
- discovery through the INSPIRE thematic cluster as search criterion
- metadata available in several formats
- source code availabe for reuse
- Implement GeoDCAT-AP
- linked Italian INSPIRE Registry



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# The Italian Registry



INSPIRE Italia Registry provides a central access point for a number of national registers, both to meet INSPIRE's compliance with the publication of the code list extensions and for objectives identified and defined at the national level





# GI eCompetencies

In this matter, a particular attention is given to digital skills and competencies

**UNINFO**, the Associated Body of the Italian organisation for standardisation (UNI) for Information Technology Standards, is defining a specification on the **professional profiles related to geographic information**, in the context of the **European e-Competence Framework** (A common European Framework for ICT Professionals in all industry sectors)

#### The proposed profiles are:

- GeoData Analyst (GDA)
- Geographic Information Manager (GIM)
- Geographic Information Officer (GIO)
- Geographic Information Technician / Specialist (GIT)
- Geographic Knowledge Enabler (GKE)

**GI eCompetencies** 5 3 6 4 TECHNICAL BUSINESS **SERVICE &** DESIGN DEVELOPMENT SUPPORT MANAGEMENT MANAGEMENT **OPERATION** Quality Assurance Database Account Manager **Business Analyst** Developer Information Manager Manager Administrator Web Business Analyst Web DB Administrator Augmented Web Reality Expert Web Account Manager CIO ICT Security Mobile Application Developer Manager Systems ICT Trainer Systems Analyst Administrator E-commerce Specialist Responsabile di sistemi per la gestione della sicurezza ICT Operation Server Side Web Developer Web Server Administrator E-Learning Specialist Manager Enterprise Architect Responsabile della sicurezza dei sistemi per la Online Store Manager conservazione digitale Digital Media Network Specialist ICT Security Specialist Specialist Responsabile della System Architect continuità operativa (ICT) Web Security Expert Web Community Manager Technical Specialist Responsabile della sicurezza Analista di processo per la Information Architect Frontend Web Developer Geographic sicurezza delle informazioni delle informazioni (CISO) Information User Experience Designer Analista tecnico per la sicurezza delle informazioni Manager Manager della sicurezza delle Service Desk Agent Search Engine Expert Analista forense per gli incidenti ICT Web Advertising Manager sicurezza delle informazioni Project Manager Web Accessibility Expert Geographic Specialista infrastrutturale della Information sicurezza delle informazioni Web Content Specialist Technician / Web Project Manager sicurezza delle informazioni Wikipedian Specialist Specialista nella risposta agli Reputation Manager Service Manager Data Web Scientist ICT Consultant Digital Strategic Planner Test Specialist Knowledge Manager Geographic Geographic Knowledge GeoData Information Enabler Analyst Officer

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- ► The link to AgID general web-site: <a href="http://www.agid.gov.it">http://www.agid.gov.it</a>
- AgID projects monitor:

https://avanzamentodigitale.italia.it/it

Transparency Portal: <a href="http://trasparenza.agid.gov.it">http://trasparenza.agid.gov.it</a>

#### Geospatial data:

- ► <a href="http://geodati.gov.it/geoportale/">http://geodati.gov.it/geoportale/</a>
- ► <a href="http://www.registry-inspire.rndt.gov.it/registry">http://www.registry-inspire.rndt.gov.it/registry</a>

#### **Open government websites:**

- http://www.dati.gov.it/
- ► <a href="http://soldipubblici.gov.it/it/home">http://soldipubblici.gov.it/it/home</a>
- ► <a href="http://www.opencoesione.gov.it/">http://www.opencoesione.gov.it/</a>
- ▶ <u>http://opencantieri.mit.gov.it/</u>

THANKS FOR YOUR ATTENTION!

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