PERSONAL INFORMATION

Fabio Vinci

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Sex Male | Date of birth 29/07/1977 | Nationality Italian

PROFILE

Geographic Information Systems (GIS), Spatial Data Infrastructures and Remote Sensing Specialist - ECDL GIS Certified Examiner

WORK EXPERIENCE SUMMARY

M.Sc. Environmental Engineer with 9 years' experience in geographic information systems, spatial data infrastructures and remote sensing applications.

He is deeply involved in the implementation of the INSPIRE (Infrastructure for spatial information in Europe) European Directive, with particular focus on:

- the harmonization/validation of spatial datasets and metadata
- the interoperability of geo-webservices
- the validation and testing of the different SDI components.

He is also member of the pool of experts of the INSPIRE MIG (Maintenance and Implementation Group).

He is expert in: i) development of techniques for processing satellite remote sensing data for: evaluating the spatial-temporal evolution of the vegetation cover, the territorial control, the environmental monitoring and the management of natural/anthropogenic resources; ii) processing remotely sensed optical multi/hyper spectral and radar data, at different spatial resolution.

He is teacher and responsible of the management and educational organization of professional GIS training courses, held at the professional orders (engineers, geologists, agronomists) and public institutions (CNR – National Research Council, Provinces, Municipalities).

He is expert in design and implementation of SDI in different sectors (Local Authorities and private stakeholders).

He is supporting the European Environment Agency (EEA) in the '*INSPIRE data harmonisation and related services*' specific contract implementing the Framework Service Contract No EEA/IDM/15/014-lot2.

WORK EXPERIENCE DETAILED

December 2007 – on going

INSPIRE & SDI Senior Expert - ECDL GIS Certified Examiner

Name of the Company: Epsilon Italia, Italy (www.epsilon-italia.it)

Most relevant projects and customers:

1. **European Environment Agency (EEA)**

   'INSPIRE data harmonisation and related services' specific contract implementing the Framework Service Contract No EEA/IDM/15/014-lot2

Dates:	April 2016 – on going
Business domain:	Environment
Roles and responsibilities:	Professional support in

   - provision of INSPIRE conformant data through web services
   - testing of INSPIRE data e services in GIS environments
   - extension of INSPIRE data models

Technologies:	•	GIS software: QGIS - ArcGIS
	•	programming languages: Java, JavaScript
	•	test scripting language: CTL (OGC Compliance Test Language)
	•	mark up languages: XML, GML, HTML5 , XHTML
	•	rule-based validation language: Schematron
	•	modelling language: UML
	•	Technical SW tools: Enterprise Architect, Oxygen XML Editor, HALE studio, degree, GeoServer, eENVplus Validation Service)

2. **"GeoSmartCity - Open geo-data for innovative services and user applications towards Smart Cities"**

(www.geosmartcity.eu)

European project, co-funded by DG CONNECT of the EC within the ICT-PSP (Policy Support Programme).

The project contributes to the Smart City implementation focusing on two different scenarios: Green-Energy scenario (aiming to support the implementation of energy efficiency policies lifecycle, with focus on energy performance of buildings) and Underground scenario (aiming to support integrated management of underground utility infrastructures). INSPIRE Directive is taken into consideration for the design of common (trans-national) data models. The GSC cross-platform open hub publishes geographic information and provides specialized services based on open standards.

Dates:	February 2014 – April 2014	
Business domain:	Environment	
Roles and responsibilities:	•	Design and development of INSPIRE-extended data models which maintain the richness of information of the national models and at the same time are compliant to INSPIRE
	•	Validation of GML datasets against GSC extended models.
	•	Test the usability of datasets in GIS environment
Technologies:	•	GIS software: QGIS - ArcGIS
	•	mark up languages: XML, GML, HTML5 , XHTML
	•	modelling language: UML
	•	Technical SW tools: Enterprise Architect, Oxygen XML Editor, HALE studio, GeoNetwork,eENVplus Validation Service)

3. **"LIFE+IMAGINE - Integrated coastal area Management Application implementing GMES, INSPIRE and SEIS data policies"**

(www.life-imagine.eu)

European project co-funded by the LIFE+ Programme Environmental Policy and Governance in the framework of the objective "strategic approaches". The project deals with the integrated management of coastal zone and the implementation of the related environmental policies, aiming to support planning and decision-making and focusing on Landslides and Soil consumption in coastal zones and integrating specifications of INSPIRE Directive.

Dates:	February 2014 – April 2014
Business domain:	Environment
Roles and responsibilities:	data modelling, data harmonization and validation

Technologies:	• GIS software: QGIS - ArcGIS
	• programming languages: Java, JavaScript
	• test scripting language: CTL (OGC Compliance Test Language)
	• mark up languages: XML, GML, HTML5 , XHTML
	• modelling language: UML
	• Technical SW tools: Enterprise Architect, Oxygen XML Editor, HALE studio, degree, GeoServer, eENVplus Validation Service)

4. "eENVplus – eEnvironmental services for advanced application within INSPIRE"
(www.eenvplus.eu)

European co-funded ICT-PSP (Policy Support Programme) project, supporting the implementation of INSPIRE and SEIS at European and national levels through deployment and integration of eEnvironmental services and application.

Dates:	February 2014 – April 2014
Business domain:	Environment
Roles and responsibilities:	• Responsible for the design and implementation of the eENVplus Validation Service providing online executable tests to evaluate whether a GML dataset fulfils the requirements of the INSPIRE Directive
	• Support in the transformation of national dataset into INSPIRE conformant ones
	• Validation of GML datasets against INSPIRE models.
	• Test the usability of datasets in GIS environment
Technologies:	• GIS software: QGIS - ArcGIS
	• programming languages: Java, JavaScript
	• test scripting language: CTL (OGC Compliance Test Language)
	• mark up languages: XML, GML, HTML5 , XHTML
	• modelling language: UML
	• Technical SW tools: Enterprise Architect, Oxygen XML Editor, HALE studio, OGC GML Test Suite, eENVplus Validation Service)

5. "LINKVIT - Leveraging INspire Knowledge into Vocational Innovative Training"
(www.linkvit.eu)

European project co-funded under the LLP (Life Learning Programme) Leonardo da Vinci of the European Commission. The project addresses the vocational training aiming to support the practical implementation of the INSPIRE Directive.

Dates:	February 2014 – April 2014
Business domain:	Vocational training
Roles and responsibilities:	Responsible of the production of vocational INSPIRE training modules related to procedures and examples of INSPIRE data and metadata harmonization and validation
Technologies:	• MicroSoft Power Point
	• aTube Catcher, Movie Maker

6. **"ArcFUEL - Mediterranean Fuel Maps Geodatabase for Wildland & Forest Fire Safety"**

(www.arcfuel.eu)

European project, co-funded by the LIFE+ 2010 Programme with the aim of producing updated fuel cover maps based on satellite data and field validation to fulfil the needs of local, regional or national users in forest fire management operations..

Dates:	February 2014 – April 2014
Business domain:	Environment
Roles and responsibilities:	Creation of logically and semantically consistent mappings and subsequent transformation of source data and metadata in order to obtain compliance to the requirements of INSPIRE Data Specification on Land Cover and INSPIRE Metadata Implementing Rules
Technologies:	• mark up languages: XML, GML, HTML5 , XHTML
	• Technical SW tools: Oxygen XML Editor, SnowFlake GoPublisher)

7. **"SmeSpire - A European Community of SMEs built on Environmental Digital Content and Languages"**

(www.smespire.eu)

SmeSpire is an FP7 Support Action aiming to turn the challenges of the INSPIRE implementation into business opportunities for the Geo-ICT European SMEs, led by Epsilon Italia with a consortium with 15 partners coming from 12 EU Member States

Dates:	February 2014 – April 2014
Business domain:	Environment
Roles and responsibilities:	Creation of training modules and in dissemination activities (video tutorials, online hackathon and smeSpire day event) related to procedures and examples of INSPIRE data and metadata harmonization and validation
Technologies:	• MicroSoft Power Point
	• aTube Catcher, Movie Maker

Other projects and customers:

- Assistant instructor of an 80 hours training course delivered to 40 representatives of different Singapore Governmental Agencies in the frame of "SG-Space Standards Familiarisation: ISO 19100s Training", an intensive training and consulting project delivered by GSAREH (GeoSpatial Applied Research Expert House) to SLA (Singapore Land Authority), related to the application of the ISO 19100s Geographic Standards to the Singapore context. (2013)

- Activities of geodatabase design for the "SEIS-Malta" Service Tender. In the frame of this tender he is responsible also for the activities related to use of the INSPIRE Annex II & III spatial data themes and the Observations and Measurements standard, the encoding of spatial datasets and implementing of download services, the extending of INSPIRE UML model and related XSD to fulfil specific requirements. (2011 to 2014)

- Activities of spatial data modelling for spatial planning, particularly focused on the encoding of the requirements/recommendations contained in the Regional Urban Law (of Calabria Region-Southern Italy) into a spatial data model to be used by Municipalities within their Council Structural Plans. These activities included training to spatial planners on data modelling and on use of GI standards.

- Activities of geodatabase design in the frame of the European Commission Environment LIFE+ Program Project "ArcFUEL – Forest Fuel Mapping Service". In this project he was responsible also of the activities related to use of the INSPIRE Annex II & III spatial data themes, with focus on the encoding of raster datasets.

- "3D-Aerodromes - 3-Dimensional Airport & Vicinity Geodatabase: A Product for the General Aviation Industry" is a project funded by the European Commission Eurostars Programme and the R&D funds contributed by the three Member States of Germany, Greece and Italy. It was initiated in 2010 and will be completed in 2013. 3D-Aerodromes delivers: (i) the software technology to produce three dimensional Aerodrome Navigational Databases for the General Aviation; a technology for the integration of satellite imagery and other remote sensing data, terrain and obstacle data, navigation data and CAD data of airports; and (ii) for 50 European airports template databases will be created that serve as the basis for a standardization of 3D airport and airport environment data. These data provide an important basis for 3D visualization and navigation purposes in the air and on the ground and support the pilot through the so-called Synthetic View on the cockpit instruments.

- Activities of implementation of the INSPIRE (Infrastructure for Spatial Information in Europe) European Directive, in the frame of the Community Project "NATURE-SDIplus –Best Practice Network for SDI in Nature Conservation", with focus on the harmonisation of spatial datasets and metadata, the implementation and testing of INSPIRE download service, the development of the Validation Briefcase consisting of procedures to test datasets and metadata against INSPIRE Data Specification encodings and related schematron rules and the schema transformation from heterogeneous source schemas to INSPIRE Data Specifications target schemas. (2009 - 2011)

- Design and development of Mobile GIS applications (both open-source & proprietary sw platforms) for environmental risk assessment, including assistance to the end-users (hw & sw procurement and professional training).

- Activities of implementation of SDI (Spatial Data Infrastructure), as part of the Community Project "MEDISOLAE 3D - Mediterranean Islands 3D Aerial Navigation". In the frame of this project he was responsible also of the activities related to "Database Design", harmonization of geospatial data, data modelling and data transformation with respect to the INSPIRE, OGC and ISO-TC211 standards. (2008-2010)

- "SIPITEC2", the design and development of the GIS and WEBGIS of the Territorial Coordination Plan of the Province of Cosenza, design and implementation of the Geoportal of the Planning Department of the Province of Cosenza (http://sipitec.provincia.cosenza.it). (2008 - 2012)

- Processing of remotely sensed satellite data for estimation of climatic and environmental variables, as part of Project "MIRASAT – A Methodology for the Assessment of Indicators of Environmental Risk by means of Satellite Remote Sensing techniques". (2008 – 2010)

- Conducting a pilot study for the realisation of the Land Use Technical Chart of the Province of Cosenza based on SPOT satellite data processing. Responsible of the elaboration of the technical specifications for the procurement of the Land Use Technical Chart of the Province of Cosenza based on aerial images photo-interpretation. Import cadastral data in a GIS environment.

EDUCATION AND TRAINING

September 2014	**ECDL GIS Certified Examiner**	Professional Training

AICA - Associazione Italiana per l'Informatica ed il Calcolo Automatico.

June 2011	**GML fundamentals, GML Hand On**	Professional Training

Snowflake Software Ltd, Southampton (United Kingdom)

- UML Data Models, GML Application Schema creation and mapping, Schema Validation, WFS deployment, use of data modelling software such as Enterprise Architect, Shapechange, GO Publisher.

November 2007	**Specialized training course "GIS - Geographic Information Systems"**	Professional Training

EPSILON Italia srl, Kreade Inno

- Concepts of mapping and reference systems. Using Geomedia Professional software. Management of raster features, external data (CAD, shapfile). Analysis of the data. Managing the layout of the press.

May 207	**Master Degree in Environmental and Territory Engineering**	University Training

Università della Calabria - Arcavacata, Rende, 87036 Italy.

- Title of the thesis: "Land Cover classification techniques using multispectral satellite remote sensing data".

PERSONAL SKILLS

Mother tongue(s)	Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1	B2	B1	B1	B2

English

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user / Common European Framework of Reference for Languages

Communication skills	Good integration capacity in the group.
Organisational / managerial skills	Good experience in managing projects and working groups.