

Joint Research Centre

the European Commission's in-house science service

*Serving society
Stimulating innovation
Supporting legislation*

The Inspire Reference Architecture

Paul Smits

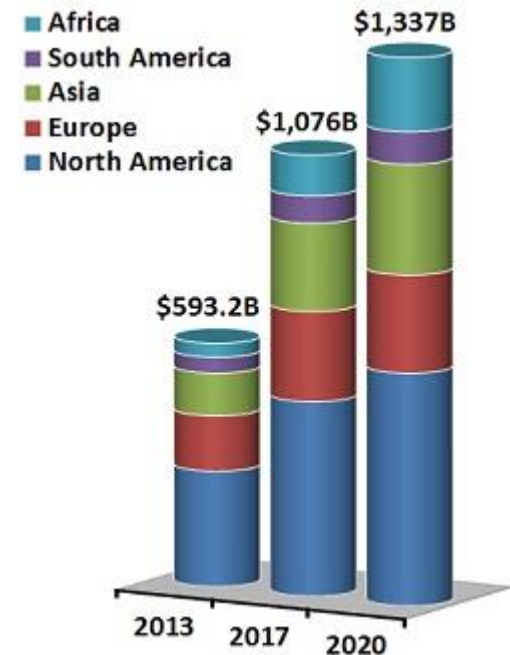
03.03.2016, Brussels

www.ec.europa.eu/jrc



Geospatial technologies fuel the data economy

- In 2020, the location-based service market will be a US\$1.3 trillion industry⁽¹⁾
- In 2020, use of geo-location data, including GPS, will generate US\$500 billion in consumer value⁽²⁾
- Geographer jobs will grow by 35% per annum, while those of cartographers and photogrammetrists will grow by 22% between 2010 and 2020⁽³⁾



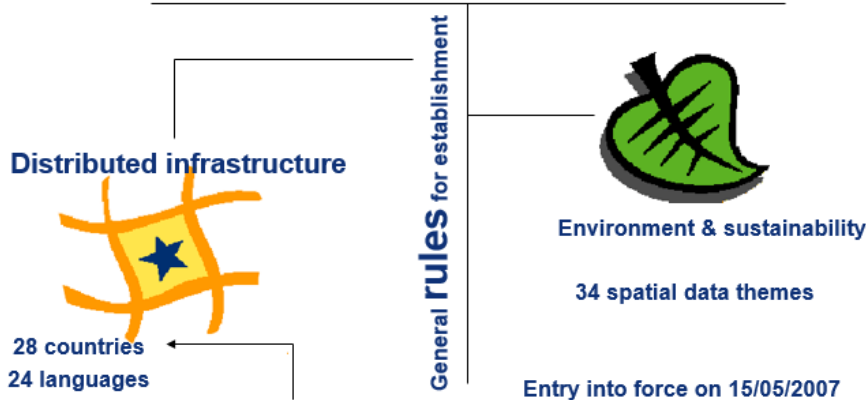
**Location-based services
market forecast – 2013-2020**

1. "Location Based Services – Market and Technology Outlook – 2013-2020," Market Info Group LLC, <http://www.marketinfogroup.com/location-based-services-market-technology/>
2. "Implications of the ICT Skills Gap for the Mobile Industry," MacLeod Consulting, <http://www.gsma.com/events/wp-content/uploads/2013/08/ICT-Skills-Gap-Research.pdf>
3. "\$3.7 Billion Reasons Why GIS Technology is The Future," American Sentinel University, <http://www.americansentinel.edu/about-american-sentinel-university/newsroom/3-7-billion-reasons-why-gis-technology-is-the-future>

INSPIRE, Europe's *lingua franca* for anything geospatial

Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)

Institutional framework	Technical standards
Fundamental data sets	Data Services



Directive 2013/37/EU of 26 June 2013 amending Directive 2003/98/EC on the
re-use of public sector information (PSI) Directive 2003/98/EC

Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee, and the Committee of the Regions: **A Digital Agenda for Europe** - COM(2010) 245 final/2

Digital Single Market

Towards interoperability for European public services COM(2010) 744

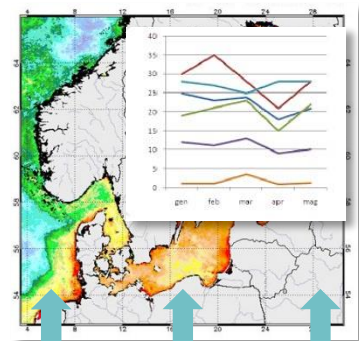
EU implementation of the **G8 Open Data Charter**

Set of European legal acts and their coordinated implementation

EU Open Data Strategy

Business as *unusual*: the EU Location Framework

- Removes obstacles for the free flow of data in support of the Digital Single Market
- Promotes INSPIRE as a multi-purpose infrastructure for a range of policy areas, including e-government, transport, marine, and energy
- Identifies and promotes opportunities for the private sector



Monitoring of the marine environment is needed for **multiple EU and international laws**. Data can be re-used easier in cross-border applications if:

- harmonised
- up to date
- exposed via services

The Marine pilot implements INSPIRE standards to support **marine data re-**

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Commercial map providers like HERE and TomTom need road network data that are

- consistent
- accurate
- up to date

In the transportation pilot, INSPIRE standards are used to get this **geospatial data** from public administrations.



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<https://joinup.ec.europa.eu/community/eulf/description>