

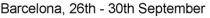
that public geo-information agencies are facing

### François ROBIDA - BRGM



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### **Digital transformation**

# CHANGE AHEAD

- 1. Our mission of public geo-environment agencies
- 2. Challenges of a disruptive environment
- **3.** Some tracks towards a bright future !







### 1. Our mission of public geo-environment agencies

### 2. Challenges of a disruptive environment

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### Public geo-information agencies

- > Geological surveys, Mapping agencies, Met agencies, Stats agencies
- > A mission : to produce, manage and deliver reference data (+information) for all types of users (public, private, citizen)
- > Reference data
  - trusted
  - up to date
  - widely used, and referenced...
  - visible, accessible, understandable, and credible to information users
  - authoritative ???

## What we (geol surveys) have done in the last 15 years

- Engaged the development of interoperable thematic data infrastructures
- > To give access to public data about our subsurface environment
- > Based on our national mission
- > Built upon international standards (OGC, GeoScML,...)
- > Strongly supported the design and implementation of INSPIRE
- Contributed to the development of tools/apps to access / re-use « our » data









### Some of the geoscience data infrastructures based on those principles



Research Infrastructure and E-Science for Data and Observ Earthquakes, Volcanoes, Surface Dynamics and Tectonics







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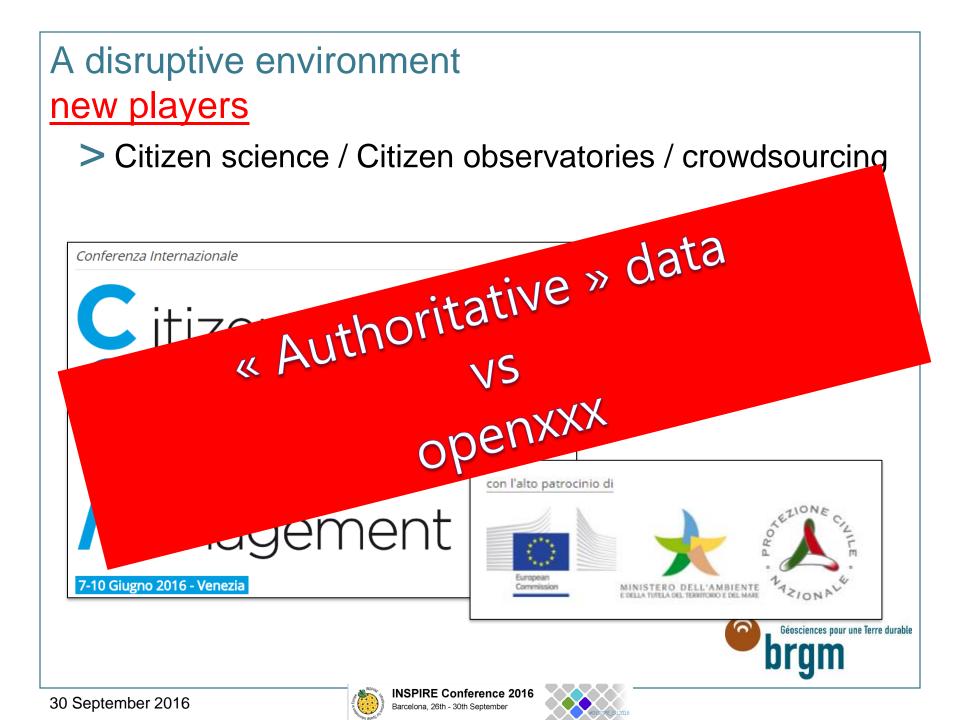


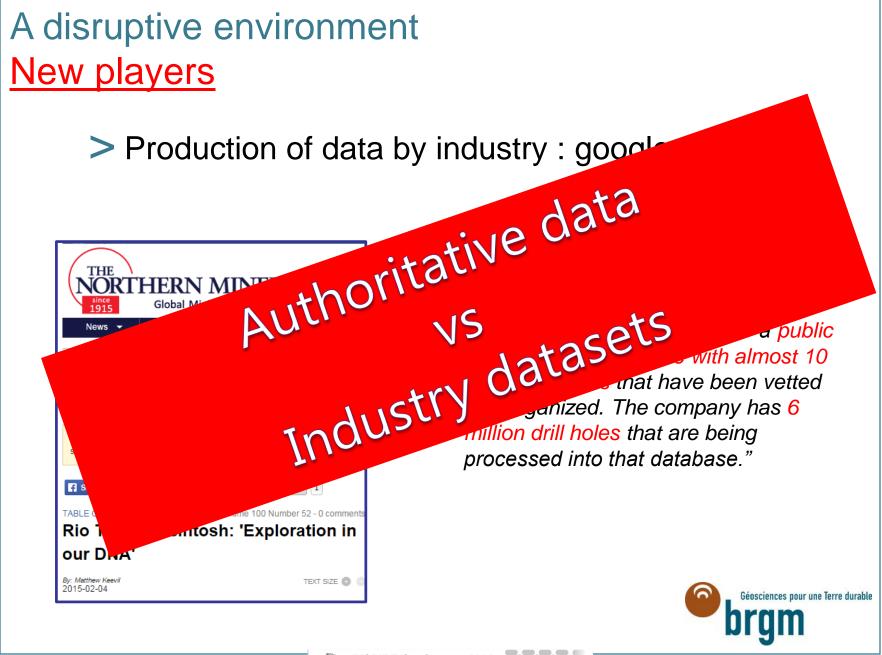




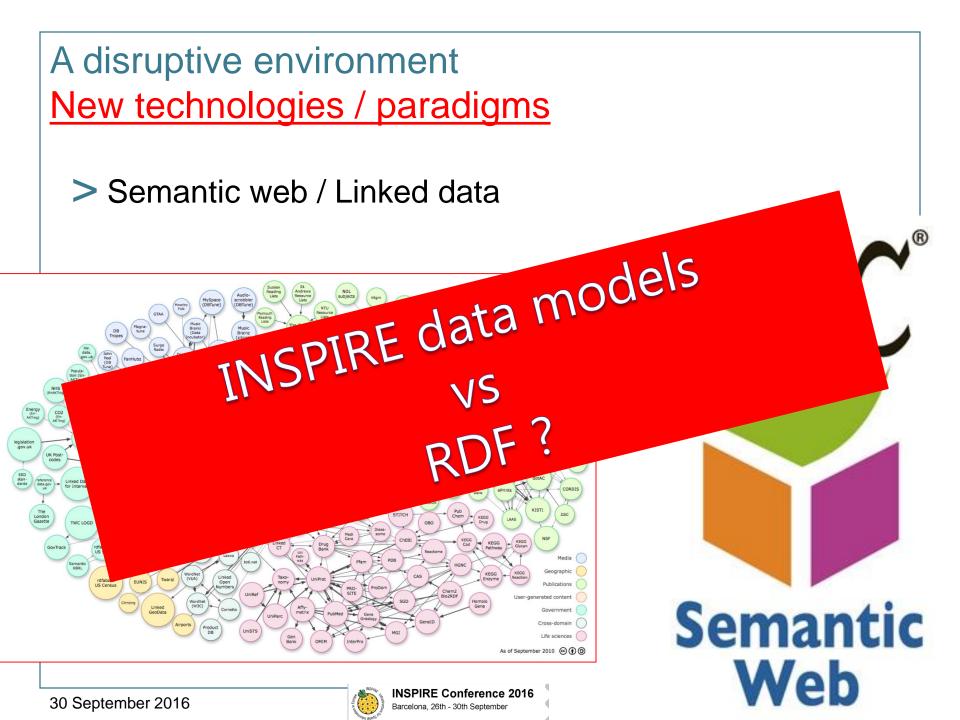












### A disruptive environment New technologies / paradigms

> Big data





### A disruptive environment New technologies / paradigms





And at the end...

#### > the winner is



- Copernicus/Sentinel...?
- A unique capacity to monetize services

> What about our capacity to keep the control/access of the data necessary for the performance of public policies ?







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### The « reality » of public agencies

#### > Our strengths

- Expertise on data
- Independence of economic interests
- Understanding of users needs (???)
- > Our weaknesses
  - Silos
  - « Over quality » syndrome (experts know what is good)
  - Ignorance of our real challengers...
  - Capacity to attract and keep expertise (data scientists...)







### Some possible orientations for our future...

- to be the "reference point" of expertise about data of our domain (trusted third party)
- ightarrow do not be limited to a role of data curators
- $\rightarrow$  be active in development of **standards** (user oriented)
- $\rightarrow$  invest on understanding of **usages and needs**
- $\rightarrow$  make sense of data (data science)
- $\rightarrow$  provide added value on data (services)
- → develop public-private partnerships in a framework that guarantees the "public interest", for instance co-operating platforms for specific domains (ie for smart cities or infrastructures)
- $\rightarrow$  Strengthen our capacity to act in collaborative environments,
- Based on sustainable and balanced governance and economic arrangements





