Intellectual Capital for Communities in the Knowledge Economy

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Public data and innovation

Agency for public intangible of France

- Who are we?

  - **Agency depending from the ministry of economy, finances and foreign trade**

  - **Created in 2007 to value public intangible assets**

  - **Mainly composed of**
    - **Legal experts, specialized in IP right**
    - **Marketing experts**

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Agency for public intangible of France

- Great diversity of intangible assets

Trade marks

Patents

Know-how

Internet domain names

Software

Internet sites

Intellectual property rights

Public sector information

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Agency for public intangible of France

- Our missions

  ➔ **Contribute to the modernisation of the administration**

  ➔ **Unlock the potential of public intangible assets for the State economy as a whole**

Public Sector

Patents	IP right
Trade marks	Know-How

Public sector information

Researchers

Citizens

Industry

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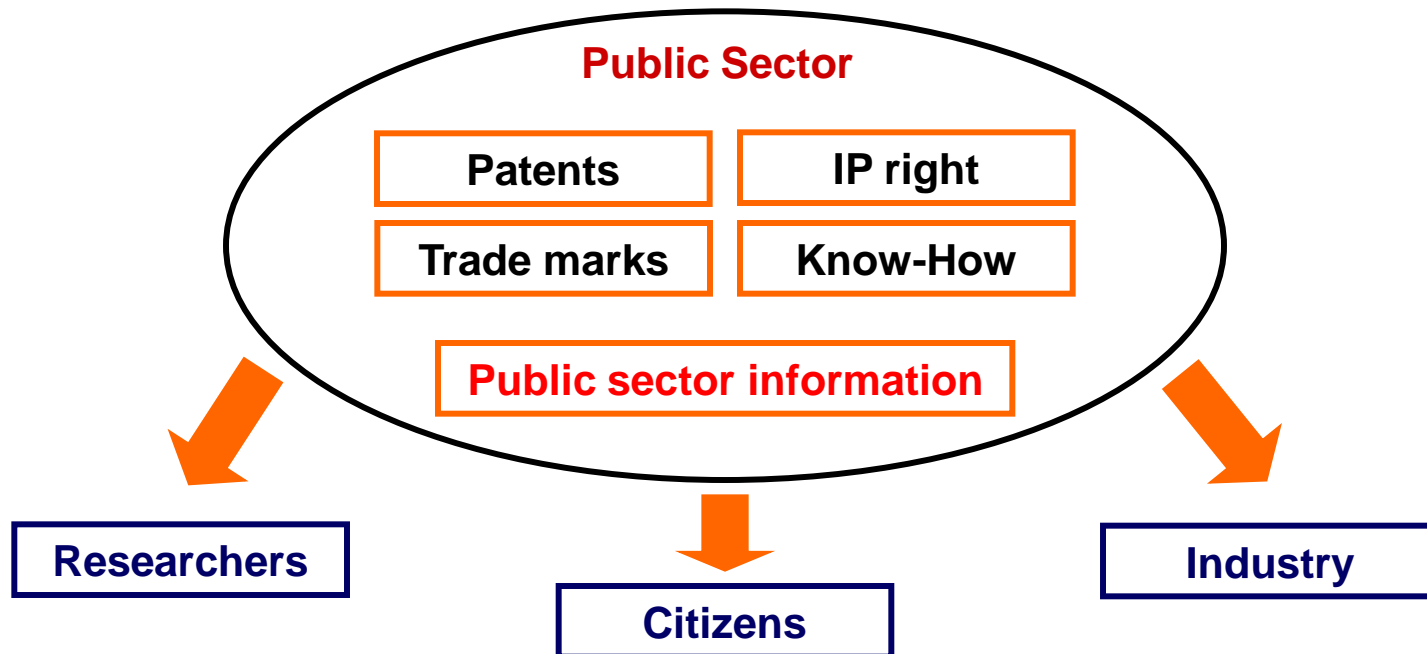
The open data movement

- **Key dates**

World
2003 : European PSI directive
March 2009 : data.gov
April 2010 : data.gov.uk
2010 : many local initiatives + European digital agenda
2011 : many national initiatives (Spain, Portugal, Belgium, Kenya, etc.)
2012 : revision of PSI directive

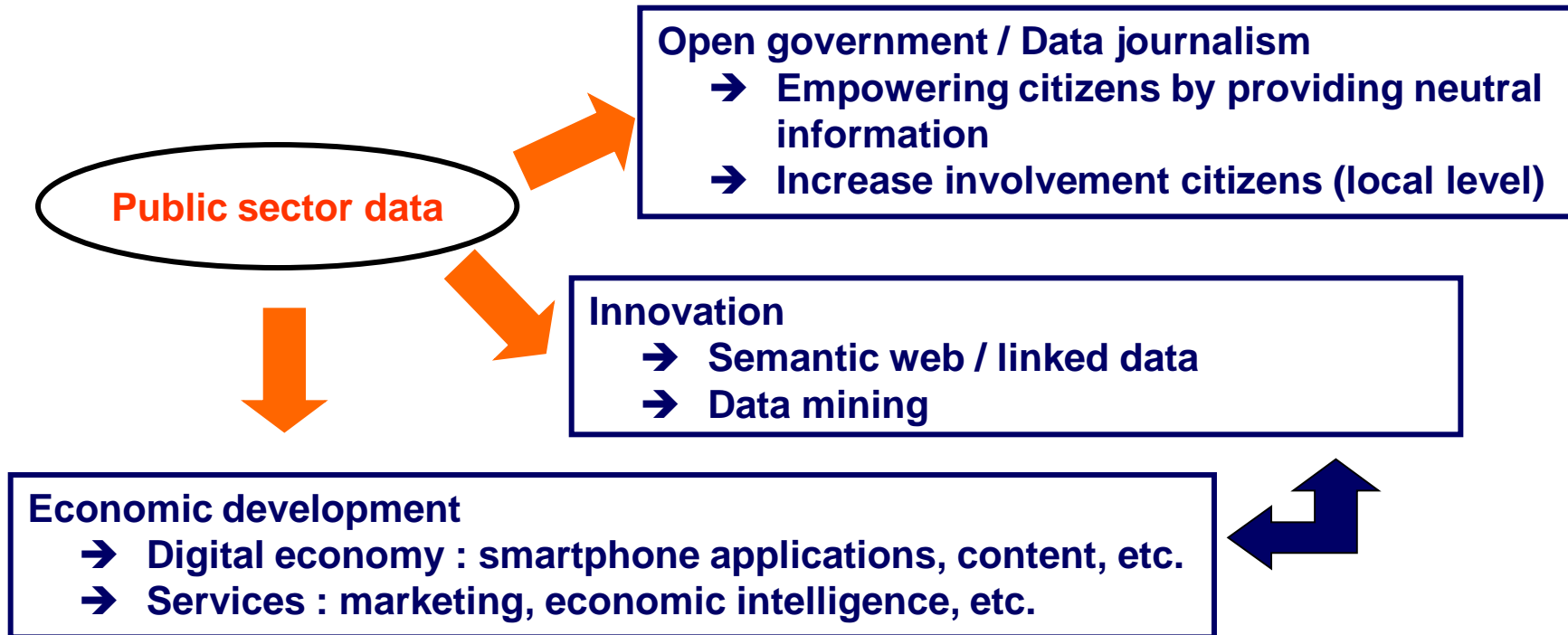| France |
|---|
| **2005 : transposition PSI directive** |
| **2009 : first ministerial data catalogues** |
| **2010 : data catalogue city of Rennes + preliminary study national portal** |
| **2011 : many local initiatives (Paris, Bordeaux, Nantes, Toulouse, …)** |
| **December 2011 : data.gouv.fr** |

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The open data movement

- **Open data, what for?**

  ➔ **Three main objectives**

Public sector data

Open government / Data journalism
  ➔ **Empowering citizens by providing neutral information**
  ➔ **Increase involvement citizens (local level)**

Innovation
  ➔ **Semantic web / linked data**
  ➔ **Data mining**

Economic development
  ➔ **Digital economy : smartphone applications, content, etc.**
  ➔ **Services : marketing, economic intelligence, etc.**

The open data movement : what results?

- **Open government /data journalism :**

Non profit organisation following the activity of members of parliament : http://www.nosdeputes.fr/

RAPPORT ENTRE LES HONORAIRES DES MÉDECINS PARISIENS ET LE TARIF DE BASE DE LA SÉCURITÉ SOCIALE POUR LA CONSULTATION*

De 1 fois...   ...à plus de 5 fois

Data journalism : exemple of newspaper article in « Le Monde » exploiting public data (pricing of physicians)

http://www.lemonde.fr/sante/article/2012/04/10/enquete-sur-ces-consultations-au-prix-fort_1682940_1651302.html

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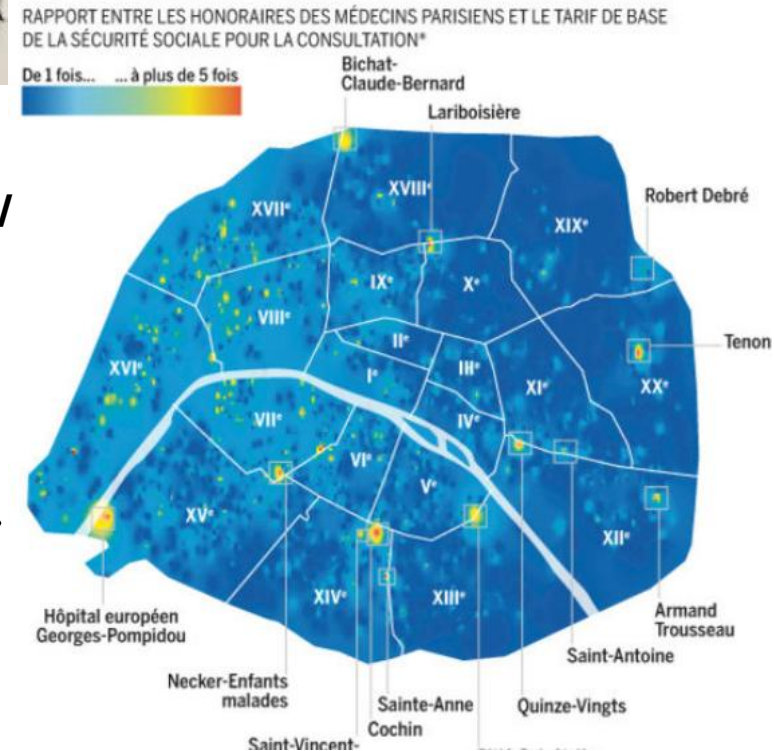
The open data movement : what results?

- **Economic development : some success stories**

  - Digital products

  - Internet sites

  - Services : economic intelligence and marketing

The open data movement : what results?

- **Innovation**

    - **Semantic web / Linked data**

    - **Data visualisation**

    - **Data mining**

    - **IT and consulting services around open data**

The open data movement : what results?

- **Open Government :**

  - **Interesting applications at local level**

  - **Development of data journalism**

- **Situation at date from an <u>economic</u> point of view**

  - **Mixed results with some success stories, but few new products created based on open data**

  - **However, emergence of an economic ecosystem based on services around data (public <u>and</u> private data)**

  - **This ecosystem is largely based on innovative applications**

  ➔ **The public sector should support the innovative potential of open data**

How to support innovation around open data?

- **Role of public sector**

  - **Improve the governance of the open data policy**

    - o **Cooperation administrations / local authorities**

    - o **Dialogue with re-users**

    - o **Identification of high potential data**

  - **Open up more data, and ensure the continued existence of the movement**

    - o **Automatizing the process and real time updates**

    - o **Budget**

  - **Publish data in machine readable formats and appropriate meta data**
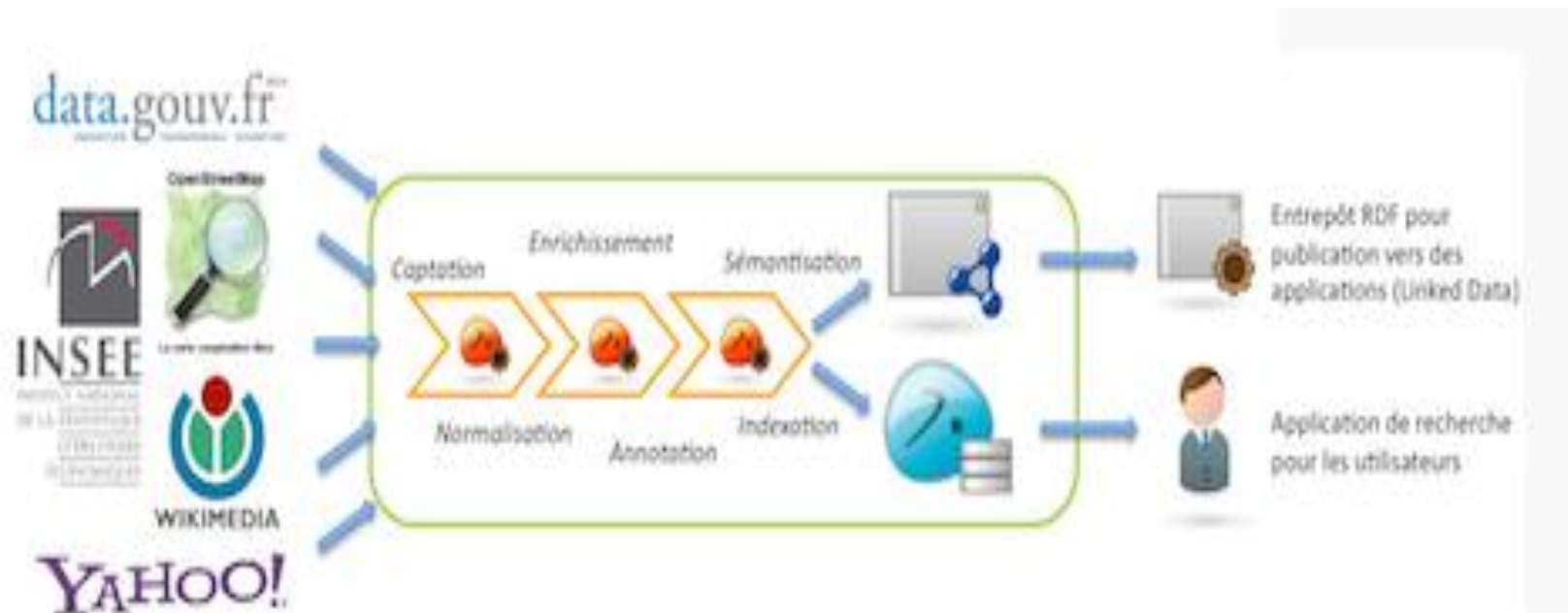
Semantic web : one step further

- **What is semantic web?**

  - **Term invented by Tim Berners-Lee**

  - **Enable users to share and combine information without human intervention**

  - **Data published in specifically designed language for data**

Jean Sébastien Bach

Johann Sebastian Bach
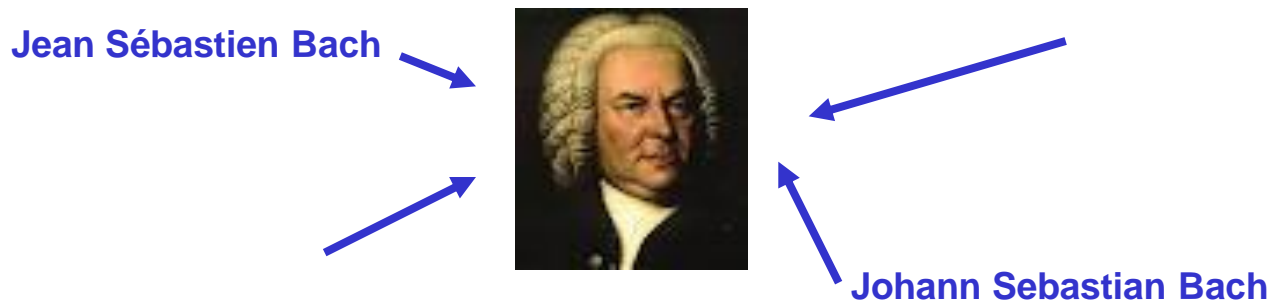
➔ **Huge potential to develop innovative services**

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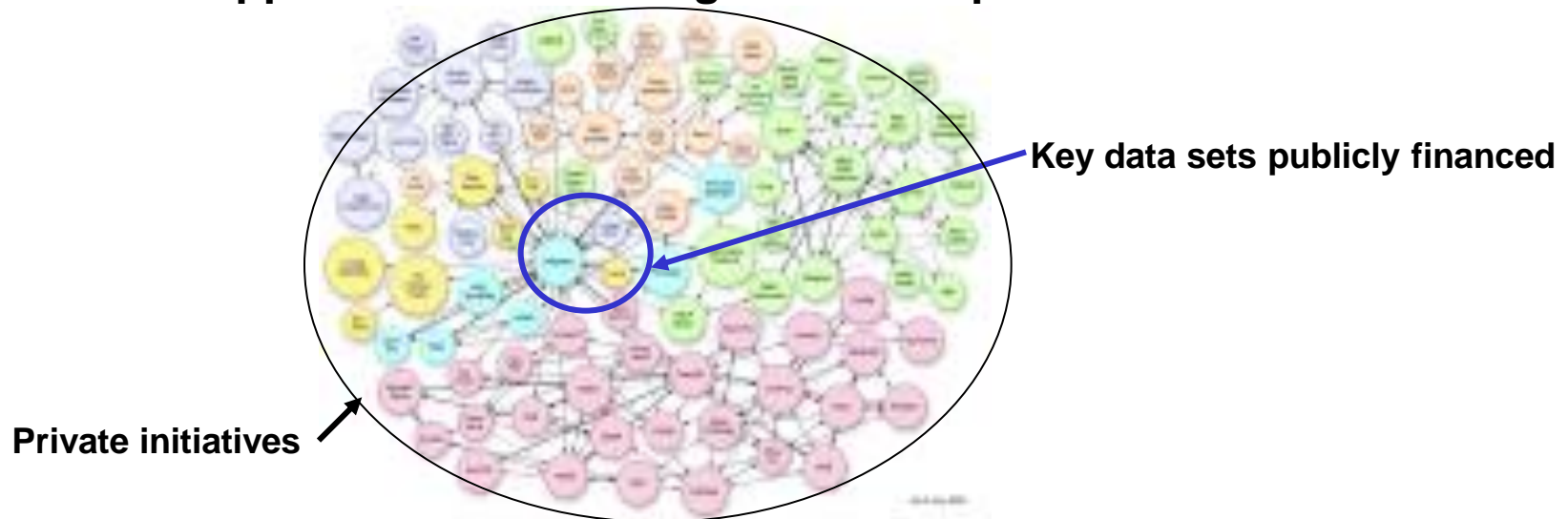# Semantic web : one step further

- **Example : "Monuments historiques" application**

  - Application allowing to research 44.000 French monuments

  - 7 different sources (public and private) and formats

http://blog.antidot.net/2011/12/19/decouvrez-les-monuments-historiques-grace-a-lopen-data/

Semantic web : one step further

- **How to develop this data format ?**

    - A generalization of this format on public open data portals would be too onerous in the short term

    - At longer term, take into account as much as possible these innovative tools when designing new IT systems

    - Alternative :

        o **Finance research projects on key data bases : geographical data, statistical data, cultural data, etc.**

        o **Support the creation of general accepted reference tables**

Key data sets publicly financed

Private initiatives

QUESTIONS?

http://www.economie.gouv.fr/apie

kristof.de-meulder@apie.gouv.fr