Public Private Partnership based on the NSDI of Spain: Regulation and examples from the National Geographic Institute.

Sebastián Mas-Mayoral
Public private partnership is usually established for:
- data capture,
- data processing
- R+D+I projects execution
- to get added value on data and services provided by public sector,

PPP has different legal regulation according who is promoting collaboration:
- Public sector looks for the private sector collaboration
  - Law of Public Sector Contracts: Mandatory to look for this collaboration in a competition environment through public tender.

- Private sector looks for public sector collaboration
  - Contracts or agreements can be settled down among public sector agencies and the private sector companies or organizations promoting the initiative.
  - Consortia can take ahead these initiatives.
PPP consortia for:

- Data capture is rarely used due public sector gets ownership on data obtained and access to these data for everybody is according the public sector general rules.

- Data processing is not usual. Usually private sector asks for public sector data and perform by themselves getting the added value on data.

- R+D+I projects execution is a quite common PPP due public and private actors get synergy working in this way. They get not only data but also know-how.

- To get value added on data and services provided by public sector.

According the Law 37/2007, of November 16th, on Public Sector Information reuses regulation.
Some examples on R+D+I projects execution PPP

- EURADIN (EU Robbie Adress Infrastructure) project:
  - eContentplus 2007 Program,
  - Good practice network for addresses harmonization in Europe.
  - Consortium of 30 organizations
    - 16 countries.
  - Spanish members:
    - Government of Navarra,
    - CNIG
    - Cadastre
    - Mapping Institute of Valencia
    - TRACASA
    - INTERGRAPH
    - TELEFONICA
Some examples on R+D+I projects execution PPP

- **ESPAÑA VIRTUAL (Virtual Spain)**
  - Technical research CENIT Program (25 M€)
  - Funded by CDTI (45%)
  - To establish foundations of a future set of multimedia and interactive web services gathering technologies as social and semantic Web 2.0 and the geographic information (orthoimages, digital elevation models, 3D buildings…) developing a new generation of interactive 3D tools in a SDI virtual world.
  - Consortium of 7 Spanish private companies + CNIG
    - Deimos,
    - Indra Espacio,
    - Prodevelop,
    - Androme,
    - GeoSpatiumLab,
    - DNX
    - Telefónica I+D)
  - CNIG has worked with:
    - 5 academic research teams
    - 5 different private companies.

http://www.españavirtual.org/
Added value on geographic information data and services provided by Spanish public sector

- As an example on the general policy applied by public sector geographic information producers in Spain
  - Order FOM/956/2008, of March 31st, setting up policy for public diffusion of the geographic information produces by the National Geographic Institute
    - In conformance with Law 37/2007
    - Digital geographic data and geographic information services provided by IGN and CNIG through Internet for non-commercial use will be licensed free of charges
    - IGN Internet viewing and features downloading services, online analysis and non-commercial downloading services are free of charge
On-line downloading services in Spain

26 National Downloading services + 49 Regional Downloading services

http://www.idee.es/resources/CentrosDescarga/Organizaciones.html
On-line CNIG/IGN downloading service

User profile from 417,285 downloading sessions:
- 1,37% National Government Agencies
- 0,86% Regional Government Agencies
- 0,83% Local Government Agencies
- 1,22% Big Enterprise (>250 employees)
- 0,78% Médium Enterprise (51 to 250 employees)
- 1,28% SME (<50 employees)
- 2,47% Small Entreprise (<10 employees)
- 9,07% Academia
- 79,98% Private user
- 2,14% Other

Off-line CNIG/IGN downloading requests for non-commercial uses (marginal costs):
- 858 requests

<table>
<thead>
<tr>
<th>ON-LINE DOWNLOADING</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>New users</td>
<td>29,420</td>
<td>44,963</td>
<td>10,338</td>
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<td>Downloading sessions</td>
<td>125,218</td>
<td>226,215</td>
<td>65,852</td>
<td>417,285</td>
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<td>Data sets</td>
<td>636,473</td>
<td>1,102,437</td>
<td>264,994</td>
<td>2,003,904</td>
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<td>GB</td>
<td>98,792</td>
<td>161,081</td>
<td>43,404</td>
<td>303,277</td>
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</table>

Geospatial World Forum
Commercial use of digital geographic information data provided by CNIG/IGN.

- Framework established by articles 3.5 and 8 from Order FOM/956/2008, March 31st.
  - Commercial use of digital geographic information with direct, indirect or differed economic profits is possible.
  - It is regulated by agreement (Commercial use license) between CNIG and the company providing added value according a commercial activity.
  - Part from profits for CNIG: according the business model defined by the commercial user. (% of profits according the % of geographic information data provided by CNIG on geographic data in commercial product/service).
  - 8 Commercial license agreements signed in 2010/2011.
  - 278,921 €/year CNIG income from shared profits.
As an example on commercial use of the digital geographic data provided by CNIG/IGN

- **BLOM**: It is providing SLA specialized viewing services (URBEX) using orthoimages from IGN Spain to *Guia Repsol* (Road network location and routing service set up by the petrol company Repsol)
Added value on geographic information data and services by PPP based on the NSDI of Spain

### Framework is established by Law 14/2010, of July 5th, on geographic information infrastructures and services in Spain

<table>
<thead>
<tr>
<th>Service Type</th>
<th>Number of Services</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>WMS</strong></td>
<td>1,694</td>
<td>Web Map Service</td>
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<tr>
<td>Globals</td>
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<td>Neighboring countr.</td>
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<td>Regionals</td>
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<tr>
<td>Locals</td>
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<td>Web Map Tile Service</td>
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<td><strong>WFS</strong></td>
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<td>Web Feature Service</td>
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<td>Locals</td>
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<td><strong>WCS</strong></td>
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<td>Web Coverage Service</td>
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<td>Locals</td>
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<td><strong>CSW</strong></td>
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<td>Catalogue Service for the Web</td>
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<td>Globals</td>
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<td>Neighboring countr.</td>
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<tr>
<td>Nationals</td>
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<tr>
<td>Regionals</td>
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<td></td>
</tr>
<tr>
<td>Locals</td>
<td>8</td>
<td></td>
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<tr>
<td><strong>WPS</strong></td>
<td>7</td>
<td>Web Processing Service</td>
</tr>
<tr>
<td><strong>WCTS</strong></td>
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<td>Web Coord. Transformation Service</td>
</tr>
<tr>
<td>Total</td>
<td>2,022</td>
<td></td>
</tr>
</tbody>
</table>

On-line OGC web services in Spain
On-line OGC web services in Spain

Use of OGC web services: IGN´s web services access from 2011.01.01 to 2011.12.31:

- 5.606.577 visits
- 507.052.426 pageviews from 2011.01.01 to 2011.12.31

PNOA:

- WMS-MA: 210.153.432
- WMS-C: 47.800.200

IDEE BASE:

- WMS: 40.605.474
- WMS-C: 89.061.284

MTN- RASTER:

- 109.510.152

Statistical Units:

- 4.182.640

CORINE:

- 2.432.156

WMS Cartociudad:

- 3.307.088
Examples on added value by PPP based on the NSDI of Spain: Goolzoom

Goolzoom: Real State Geoportal using WMS services from IGN, Cadastre, Land Registry…

http://www.goolzoom.com/
Examples on added value by PPP based on the NSDI of Spain:

- **Wikiloc**: Touristic and sportive routing

http://es.wikiloc.com/wikiloc/view.do?id=1838944
Software companies using directly OGC web services from NSDI

- gvSIG: Heavy client

http://www.gvsig.com/
Software companies using directly OGC web services from NSDI

ELIMCO: 3D Navigation Viewer

Trabajos realizados para la Junta de Andalucía
SC Software Colaborativo: AVEN
Geoportal: OGC web services helping to look for public transport routing
Gracias por su atención
Thank you for your attention

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