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## DELIVERABLE



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# 1. INTRODUCTION

This document is an annex to deliverable D.6.4.2 “HABITATS Final Conference” within WP6 entitled “Dissemination and Exploitation”.

The main goal of this document is reduce the size of D.6.4.2 and, at the same time, offer the presentation documents of each speech.

## 1.1. INSPIRE PS AND OTHER EU POLICIES ON DATA SHARING AND STANDARDIZATION



Paul C. Smits. European Commission, Joint Research Centre.

<p><b>Toward Horizon 2020:</b> <b>INSPIRE, PSI and other EU policies on data sharing and standardization</b></p> <p><a href="http://www.jrc.ec.europa.eu">www.jrc.ec.europa.eu</a></p> <p><i>Serving society Stimulating innovation Supporting legislation</i></p>	<p><b>The Mission of the Joint Research Centre</b></p> <p>... is to provide customer-driven scientific and technical support for the conception, development, implementation and monitoring of EU policies.</p> <p>As a service of the European Commission, the JRC functions as a reference centre of science and technology for the Union.</p> <p>Close to the policy-making process, it serves the common interest of the Member States, while being independent of special interests, whether private or national.</p>
<p><b>Implementing the JRC Mission in the Policy Cycle</b></p> <p><b>JRC</b></p> <ul style="list-style-type: none"> <li>Policy anticipation: Agenda setting, Identification of emerging issues</li> <li>Policy formulation: Expert advice</li> <li>Policy adoption: Decision-making process, Selection of programme options</li> <li>Policy implementation: Compliance checks, Independent verification, Anti-fraud measures</li> <li>Ad-hoc policy support: Crisis response</li> <li>Policy evaluation: Effectiveness and impact assessment</li> </ul>	<p><b>Why INSPIRE - 2001?</b></p> <ul style="list-style-type: none"> <li><b>Needs</b> <ul style="list-style-type: none"> <li>Better information needed to support policies</li> <li>Improvement of existing information flows</li> <li>Differentiation across regions to be considered</li> <li>Revision of approach to reporting and monitoring, moving to concept of sharing of information</li> </ul> </li> <li><b>Situation in Europe</b> <ul style="list-style-type: none"> <li>Data policy restrictions: pricing, copyright, access rights, licensing policy</li> <li>Lack of co-ordination: across borders and between levels of government</li> <li>Lack of standards: incompatible information and information systems</li> <li>Existing data not re-usable: fragmentation of information, redundancy, inability to integrate</li> </ul> </li> </ul> <p>EU has islands of data of different standards and quality...</p>

## 1.2. BOTTOM-UP DATA FLOW APPROACH

### 1.2.1. The EAGLE Proposal

Tomas Soukup (GISAT), ETC-SIA EAGLE (Eionet Action Group on Land Monitoring in Europe)

 <p><b>Towards a harmonised land monitoring system: NRC bottom-up activities in EAGLE</b></p> <p>Tomas Soukup (GISAT) based on presentation of Gebhard Barko (Environmental Agency Austria)</p> <p>Habitats - Hlandata Workshop, 14/2/2013 Madrid, Spain</p>	<p><b>No question</b> Land Cover / Land Use data are needed</p> <p><b>Question</b> How such data shall be harmonised across Europe?</p> <p><b>Answer by now</b> CORINE Land Cover</p>
<p><b>CORINE LC</b> Extremely succesful program delivering already from 90's</p> <p><b>Harmonisation</b> based on predefined nomenclature - traditional fixed classification systems</p>	

### 1.2.2. An application case for bottom-up production/integration. Experiences from HLANDATA project

Nuria Valcárcel and Julián Delgado, IGN

## EAGLE Application

Bottom-up prodution and integration



### 1.3. FROM SOCIAL VALIDATION TO SOCIAL EMPOWERMENT

#### 1.3.1. HABITATS' contribution to INSPIRE: Approach and results of its social validation

Ana Saez, NEXT STEP Srl

<p><b>HABITATS' CONTRIBUTION TO INSPIRE:</b></p> <p><b>APPROACH AND RESULTS OF ITS SOCIAL VALIDATION</b></p> <p>Dr. Ana T SAEZ Next Step srl a.saez@nextstepint.eu</p>	<p><b>HABITATS aims</b></p> <p>'to operationalise a broad range of public and private services that require the use of reliable spatial environmental data regarding living species and their habitats, enabling those services to access the required information because it has been made available according to a common format'</p>
<p><b>HABITATS aims</b></p> <p>'to operationalise a broad range of public and private services that require the use of reliable spatial environmental data regarding living species and their habitats, enabling those services to access the required information because it has been made available according to a common format'</p>	<p><b>What we know and don't</b></p> <p>Uncertainty - Many factors are unknown in projects, especially if their success depends on the co-design and involvement of key development actors.</p>

#### 1.3.2. Social Innovation in the Madonie HABITATS pilots

Jesse Marsh, Ente Parco delle Madonie

<p><b>HABITATS in the Madonie</b></p> <p>Jesse Marsh Atelier / Madonie jesse@atelier.it</p>	<p><b>The Habitats Pilot Experiments</b></p>
<p><b>HABITATS Approach</b></p> <ul style="list-style-type: none"> <li>From "policy push" to "demand pull" approach towards standards adoption</li> <li>Real citizens and businesses in "co-design" processes through concrete pilots</li> <li>Interactive data modelling and iterative network architecture development</li> <li>Social network community to define usage scenarios and validate/disseminate results</li> </ul>	<p><b>Madonie Park Authority</b></p> <ul style="list-style-type: none"> <li>15 municipalities, 26.000 inhabitants (40.000 ca in summer), 35,000 hectares</li> <li>6 mountains &gt;1,500m and several &gt;1,000m; Pizzo Carbonara, 1,979m, is second in Sicily</li> <li>2,600 different species of plants, many endemic to the area</li> <li>Park Authority is a Regional institution established in 1986, 60 ca. employees</li> </ul>





## 1.4. PUBLIC-PRIVATE INFORMATION AND DECISION SUPPORT TOOLS

### 1.4.1. Easy exploration of complex data to support decision in public administration

Tomas Soukup, GISAT, Czech Republic

<p><b>HlanData</b> HARMONIZATION OF EUROPEAN LAND-USE AND LAND COVER DATABASES FOR THE OPERATION OF VALUE-ADDED SERVICES</p> <p><b>National Land Information System</b> Pilot 2.1 - Easy Exploration of Complex Data Tomas Soukup, WP3 leader, GISAT</p>	<p><b>Contents</b></p> <ul style="list-style-type: none"> <li>✓ Land - why it is so important</li> <li>✓ From mapping to monitoring</li> <li>✓ From scarceness to congestion</li> <li>✓ LI System requirements identified</li> <li>✓ Key features implemented</li> <li>✓ User feedback</li> <li>✓ Conclusions</li> </ul>
<p><b>Land - why it is so important</b></p> <ul style="list-style-type: none"> <li>✓ Land Cover - reflects potential for land to provide services</li> <li>✓ Land Use - reflects how this potential is actually used</li> <li>✓ Changes in Land Cover and Land Use reflect related natural and socio-economic processes behind these changes</li> <li>✓ Land Cover / Land Use as key datasets to help integrate other data - integrated assessment</li> </ul>	<p><b>Land - why it is so important</b></p> <p>✓ An understanding of the causes and the implications of land cover and land use patterns, their changes and trends is a fundamental part of spatial planning for sustainable development.</p> <p>Together, land cover and land use provide for particular territory complementary information both on landscape potential and on realizing this potential - the information which is essential for future decisions.</p>

### 1.4.2. The Role of the Public Sector in Promoting Innovation

Jesse Marsh, Ente Parco delle Madonie

<p><b>The Role of the Public Sector in Promoting Innovation</b></p> <p>Jesse Marsh Atelier / Madonie jesse@atelier.it</p>	<p><b>Agenda</b></p> <ul style="list-style-type: none"> <li>■ Innovation in EU 2020</li> <li>■ Evolution of models of innovation</li> <li>■ Evolution of models of government</li> <li>■ Innovation ecosystems</li> <li>■ Some examples</li> <li>■ Conclusions</li> </ul>
<p><b>EU 2020</b></p> <ul style="list-style-type: none"> <li>■ Smart, sustainable and inclusive growth</li> <li>■ Innovation Union Flagship initiative</li> </ul> <p>"Europe's future economic growth and jobs will increasingly have to come from innovation in products, services and business models. This is why innovation has been placed at the heart of the Europe 2020 strategy"</p> <p>"...revolutionize the way public and private sectors work together, notably through Innovation Partnerships between the European institutions, national and regional authorities and business"</p>	<p><b>Innovation</b></p> <p>The Innovation Policy-maker's dream</p> <p>Source: Apple Computer</p>



### 1.4.3. Biodiversity

Blanca Ruiz Franco, MAGRAMA

<p><b>La información sobre biodiversidad en el estado español</b></p> <p>Blanca Ruiz Franco</p> <p>Área de Banco de Datos de la Naturaleza</p> <p>20 de febrero de 2013</p> <p>IEPNB</p>	<p><b>Conclusiones del Consejo de Medio Ambiente 15 de marzo de 2010</b></p> <ul style="list-style-type: none"> <li>Entre las principales razones reconocidas para no alcanzar los objetivos de la UE para 2010 están:             <ul style="list-style-type: none"> <li>Conocimientos científicos insuficientes</li> <li>Lagunas de información</li> <li>Carencias en la comunicación y la educación destinadas a mejorar la concienciación sobre la biodiversidad</li> </ul> </li> </ul> <p>Marcos normativos</p> <p>Componentes</p> <p>Fuentes de Información</p> <p>Trabajo en curso</p> <p>Sistema de Indicadores</p> <p>Difusión</p> <p>Madrid, 15 de marzo de 2010</p>
<p><b>¿Qué estamos haciendo?</b></p> <p>Ley 42/2007 Art 9-10-11</p> <p>Instrumento para el conocimiento del Patrimonio Natural y de la biodiversidad</p> <p>Inventario Español del Patrimonio Natural y la biodiversidad</p> <p>IEPNB</p>	<p><b>RD 556/2011, de 20 de abril, para el desarrollo del IEPNB</b></p> <p>Exposición de motivos</p> <ul style="list-style-type: none"> <li>Capítulo I: Disposiciones generales             <ul style="list-style-type: none"> <li>Objeto</li> <li>Definiciones de carácter técnico (15)</li> <li>Finalidad y ámbito territorial</li> <li>Principios: Basados en el acervo legislativo</li> </ul> </li> <li>Capítulo II: Estructura y contenido             <ul style="list-style-type: none"> <li>Instrumentos que integran el IEPNB</li> <li>Componentes del IEPNB</li> <li>Banco de Datos de la Naturaleza</li> <li>Sistema de Indicadores</li> <li>Informe sobre el estado del PNB</li> <li>Integración supranacional</li> </ul> </li> <li>Capítulo III: Gestión del Inventario             <ul style="list-style-type: none"> <li>Organización</li> <li>Fuentes de Información y su carácter público</li> </ul> </li> <li>Disposiciones adicionales primera: Combate del Inventario Español del PNB</li> <li>Disposiciones adicionales segunda: Integración progresiva de los Instrumentos</li> <li>Disposiciones adicionales tercera: Interoperabilidad con procedimientos de acceso</li> </ul> <p>Madrid, 20 de abril de 2011</p>

### 1.4.4. Waste Management

Miroslav Rolko, Slovak Environmental Agency

<p><b>Pilot 3: Stratification of waste dumps</b></p> <p>Hlandata &amp; Habitats conference</p> <p>14th February 2013, Madrid (Spain)</p> <p>hlandata.sk</p>	<p><b>Waste dumps</b></p> <ul style="list-style-type: none"> <li>- Waste dumps managed only on regional level</li> <li>- Publically accessible data missing</li> <li>- No public feedback on national level</li> <li>- No national data for illegal waste dumps</li> <li>- Managed only on local area level</li> <li>- No generally known approach or proceeding</li> </ul> <p>Solution: Website based interactive application providing visualization, overlaying and integration of different information from different sources</p>
<p><b>Online solution</b></p> <p>Advantages of this approach:</p> <ul style="list-style-type: none"> <li>- Wide accessibility</li> <li>- No compatibility issues, no installation of any GIS software necessary</li> <li>- Runs on older hardware, no settings required</li> <li>- very easy to find and identify area</li> <li>- overlaying different map services helps to recognize possible impact (Corine land cover as most valuable source overlaid by protected sites)</li> </ul> <p>hlandata.sk</p>	<p>hlandata.sk</p>



## 1.5. LESSONS LEARNT ON THE USE AND REUSE OF HARMONIZED AND INTEROPERABLE DATA SETS

### 1.5.1. Pilots' sustainability plans

John O'Flaherty, The National Microelectronics Applications Centre Ltd

<p><b>Social Validation of INSPIRE Annex III Data Structures in EU Habitats</b></p> <p>Lessons learnt on use &amp; reuse of harmonized &amp; interoperable data sets <b>HABITATS Sustainability Plans</b></p> <p>Dr. John O'Flaherty, MAC HABITATS/HLANDATA Workshop, Madrid 14<sup>th</sup> February 2013</p>	<p><b>HABITATS Sustainability Plans</b></p> <ol style="list-style-type: none"> <li>1. HABITATS approach &amp; its sustainability</li> <li>2. Pilots, their stakeholders &amp; sustainability plans</li> <li>3. HABITATS &amp; INSPIRE compliance</li> <li>4. Sustainability lessons learnt</li> </ol>
<p><b>1. The HABITATS Approach</b></p> <ul style="list-style-type: none"> <li>HABITATS used a <b>social validation approach</b> to directly feed into interactive data/metadata modelling of the 4 habitats-related INSPIRE Annex III data themes             <ul style="list-style-type: none"> <li>16. Sea regions (SR)</li> <li>17. Bio-geographical regions (BR)</li> <li>18. Habitats &amp; biotopes (HB)</li> <li>19. Species distribution (SD)</li> </ul> </li> <li>With multi-stakeholder involvement, social validation &amp; INSPIRE open-access by user communities in 7 diverse pilots.</li> <li>Extended user-centric, co-design approaches into the standards design &amp; adoption processes,             <ul style="list-style-type: none"> <li>Treating standards initiatives such as INSPIRE to be significant social, economic &amp; institutional innovations.</li> </ul> </li> </ul>	<p><b>HABITATS Approach – lessons learnt</b></p> <ul style="list-style-type: none"> <li>Overall the approach was effective             <ul style="list-style-type: none"> <li>But not easy !</li> </ul> </li> <li>Long-term viability of HABITATS depends on the sustainability of 3 main elements:             <ol style="list-style-type: none"> <li>Adoption &amp; spread of the proposed <u>data &amp; metadata models &amp; network services</u>, their maintenance &amp; further development</li> <li><u>Sustainability of the stakeholder partnerships</u> that participated in the validation pilots</li> <li>Growth &amp; continuance of the <u>HABITATS communities</u> as spaces for the socialisation of innovation &amp; standards definition &amp; promotion processes.</li> </ol> </li> </ul>

### 1.5.2. Habitats RL the way to public participation on INSPIRE and Technical lessons

Premysl Vohnout, HSRs, Peteris Bruns, IMCS UL

<p>Reference Laboratory</p> <p>Premysl Vohnout Help Service Remote Sensing</p>	<p><b>Content</b></p> <ul style="list-style-type: none"> <li>Reference laboratory</li> <li>SuperCAT</li> <li>INSPIRE in pocket</li> </ul>
<p><b>Reference laboratory</b></p>	<p><b>Reference laboratory</b></p> <ul style="list-style-type: none"> <li>Habitats RL integrates different technologies:             <ul style="list-style-type: none"> <li>GIS</li> <li>Multimedia</li> <li>Social network tools</li> </ul> </li> <li>Main functions             <ul style="list-style-type: none"> <li>Search</li> <li>View</li> <li>Share</li> </ul> </li> </ul>



Reference Laboratory on  
INSPIRE and Technical lessons

Peteris Bruns  
IMCS UL



### 1.5.3. Lessons learnt on the use and reuse of harmonized and interoperable data sets

Gedas Vaitkus, AGI

## Lessons learned from use and reuse of harmonized inter-operable data sets



# HLanData

HARMONIZATION OF EUROPEAN  
LAND USE AND LAND COVER DATABASES  
FOR THE CREATION OF VALUE ADDED SERVICES



Dr. Gediminas Vaitkus (AGI)  
gedas.vaitkus@gmail.com

### 1.5.4. Two HABITATS pilots overview

Gregorio Urquía Osorio, Tragsatec

 <h4>Participación de Tragsatec</h4>  <p>Gregorio Urquía Osorio TRAGSATEC 14 de Febrero de 2013</p>  	<h4>Tragsatec</h4>  <p>Realizamos actividades de ingeniería, consultoría y asistencia técnica en materia agrícola, forestal, de desarrollo rural, de medioambiente y de medio marino, tanto en estudios y proyectos como en servicios técnicos.</p> <p>Hemos sido responsables en HABITATS de dos de los siete pilotos así como de un paquete de trabajo, entregables y participado necesariamente en tantos otros.</p>  
<h4>La Palma Protected Marine Area</h4>  <ul style="list-style-type: none"> <li>Las Áreas Marinas Protegidas tienen por propósito mantener una alta calidad ambiental para proteger e incluso regenerar la flora y fauna del lugar.</li> <li>El objetivo de este piloto ha sido desarrollar un sistema TIC para controlar automáticamente el entorno.</li> </ul>  	<h4>La Palma Protected Marine Area</h4> <p>Trabajo con usuarios cualificados para saber cuales son los datos interesantes.</p> <p>Reuniones constantes con los diferentes participantes y conocer sus necesidades.</p> <p>Co-diseño: 50% opiniones de usuarios y 50% decisiones técnicas basadas en estándares científicos</p>   



## 1.6. ROUND TABLE: ACHIEVING HORIZON 2020 GOALS THROUGH SSRI: THE WAY FORWARD

- Paul C. Smits, European Commission, Joint Research Centre
- María Cabello, TRACASA
- Mariano Navarro de la Cruz, TRAGSA
- Sebastián Más, IGN
- Didier Vantcutsem, ISOCARP

<p style="text-align: center;"><b>ROUND TABLE</b></p> <p style="text-align: center;">Achieving HORIZON 2020 goals through SSRI: The way forward</p> <ul style="list-style-type: none"><li>• Moderator: Ms. María Cabello</li><li>➢ Mr. Sebastián Más</li><li>➢ Mr. Paul Smits</li><li>➢ Mr. Mariano Navarro</li><li>➢ Mr. Didier Vantcutsem</li></ul>	<p style="text-align: center;"><b>QUESTIONS FOR PARTICIPANTS</b></p> <ul style="list-style-type: none"><li>• How to get people involved and why this is important for INSPIRE?</li><li>• Open data and INSPIRE movements could work together ?</li><li>• Semantic definition harmonization?</li></ul>
<p style="text-align: center;"><b>THANKS FOR YOUR PARTICIPATION</b></p>	