

INSPIRE conference 2011  
EDINBURGH • 27 June - 1 July



**Social Validation of INSPIRE Annex III Data  
Structures in EU Habitats**  
(27th of June 16:00 room Fintry)

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ICT Unit – I+D+i  
TRAGSA

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# Workshop Agenda

- Habitats Project INSPIRE & Social Validation.  
10" (M. Navarro, Tragsa Group)
- Social Validation using Habitats Social Networks.  
10" (Andrea Scianna & Gregorio Urquía, Madonie Park Sicily & Tragsatec)
- How existing data sets could be transformed, published and shared using Habitats Architecture and Reference Lab:  
30" Karel Charvat (HSRS)
- How local communities could profit from Habitats infrastructure  
20" (Gregorio Urquía, Tragsatec, La Palma Marine Area, Andrea Scianna Madonie Park Sicily)
- Discussions and future works  
20"



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# Policy Context

- CIP ICT Policy Support Programme
  - “Accelerate the deployment of EU-wide services of public interest”
- Objective 6.2: Geographical Information
  - “Use and reuse of harmonized and interoperable data sets related to one or more of the specific themes enumerated in INSPIRE annexes”
- HABITATS: Social Validation of INSPIRE Annex III Data Structures in EU Habitats

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# INSPIRE & Social Validation

- “Open Innovation” Has demonstrated that better ideas come from outside of the organizations.
- Standards adoption needs long period of time and clear citizens and research community acceptance for success.
- Interoperability and its benefits for cooperation are a second priority for many researchers and policy makers dealing with environment.
- Environment needs sustainability and clear synergies between involved communities
- Citizens and users aims to have real and useful services available in their daily life



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# Issues for INSPIRE

- Integrated community's environmental policy-making
  - Habitats-related data normally managed by different and distinct entities
- Top-down consensus-building processes across Member States
  - Weak bottom-up feedback slows adoption
- Spatial Data contained in Annexes I-II-III

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# HABITATS-related INSPIRE Themes

- 16. Sea regions
  - Seas and saline water body regions/sub-regions
- 17. Bio-geographical regions
  - Areas of homogeneous ecological conditions
- 18. Habitats and Biotopes
  - Terrestrial and aquatic natural or semi-natural areas with specific ecological features
- 19. Species distribution
  - Occurrence of animal and plant species



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# HABITATS Approach

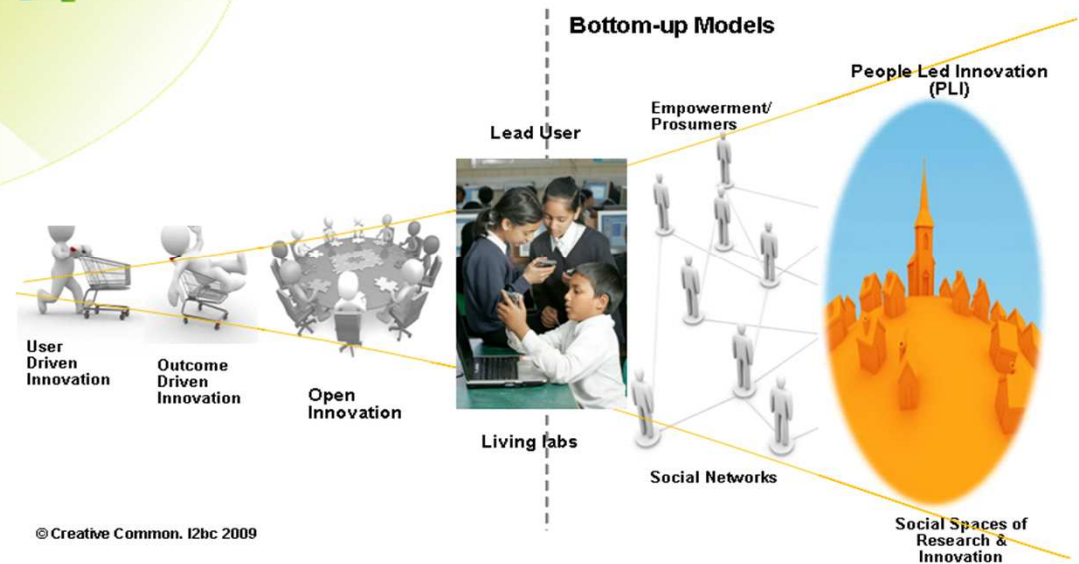
- From “policy push” to “demand pull” approach towards standards adoption
- Real citizens and businesses in “co-design” processes through concrete PILOTS
- Social network community to define usage scenarios and validate/disseminate results
- Interactive data modelling and iterative network architecture development



# Social Spaces for Research and Innovation



**SOCIAL SPACES FOR RESEARCH AND INNOVATION**



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# HABITATS Objectives I

- Build HABITATS User Communities of stakeholders involved in the demand and supply of spatial information, usage scenarios, requirements and services
- Consolidate best practice from previous experiences
- Define and implement data and metadata models for INSPIRE Annex III themes 16, 17, 18 and 19.
- Design and open and efficient HABITATS SDI network service architecture to deploy services



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# HABITATS Objectives II

- Develop new services and service features through the validation pilots to validate robustness, relevance and added value of the INSPIRE-compliant data and metadata models.
- Develop a service toolkit for new services development
- Disseminate project results to environmental and scientific communities
- Sustainable operation of the HABITATS Services

# Consortium

**TRAGSA (ES)**

**NEXT STEP (IT)**

**MAC (IE)**

**HSRS (CZ)**

**TRAGSATEC (ES)**

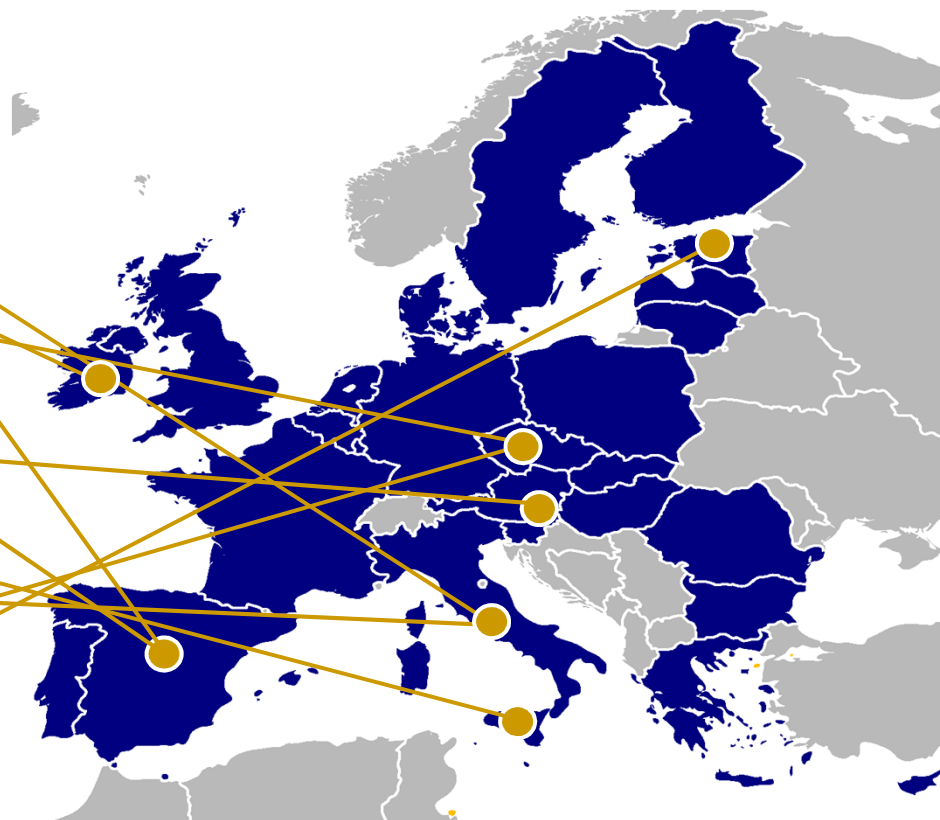
**TUGraz (AT)**

**Madonie Park (IT)**

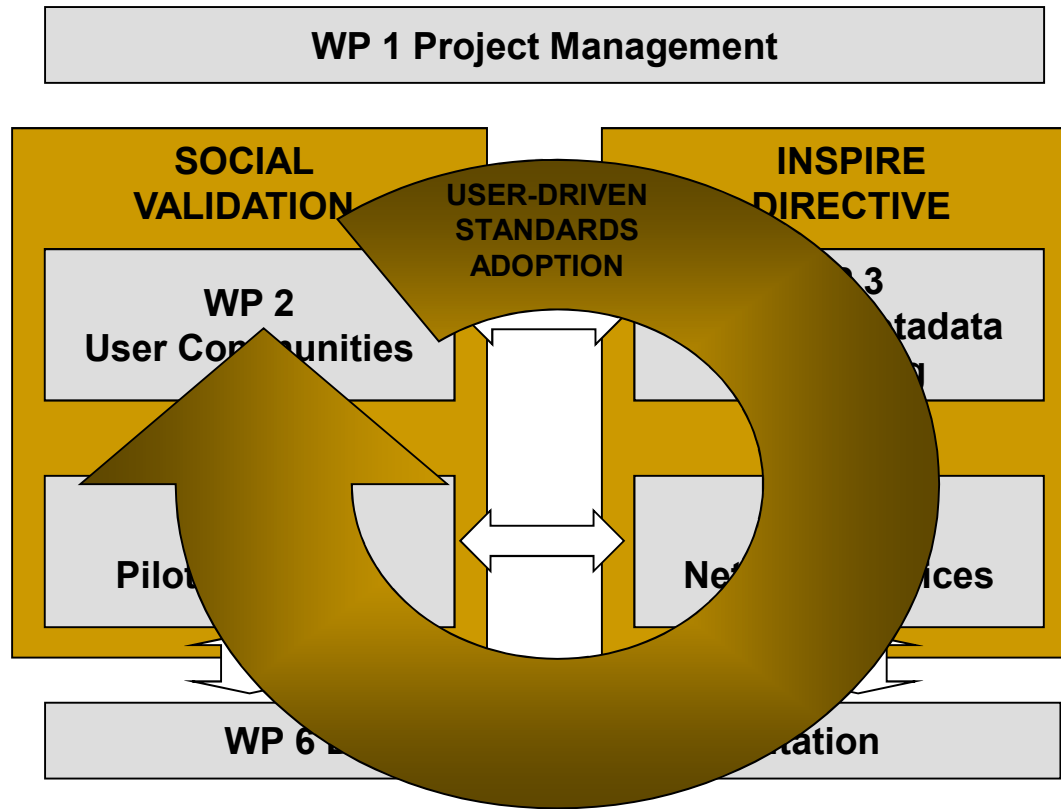
**ISPRA (IT)**

**FMI (CZ)**

**IMCS (LV)**



# Proposed Workplan



- 30-month workplan
- Proposed budget: € 2.425.055
- Proposed effort: 328 PMs

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# Workplan: SSRI and INSPIRE

- The social Validation strand includes:
  - WP2 “User Communities” which uses social networking to involve extensive communities of users in the standards co-design processes and ensure the maximum impact of HABITATS outcomes.
  - WP5 “Pilot Validation”, where HABITATS network services are used in concrete habitat-related usage scenarios in a range of settings to validate the usefulness of the standards for carrying out existing activities more effectively and developing new service and business models.
- The INSPIRE Directive-related strand include:
  - WP3 “Data and Metadata Modeling” where metadata profiles are defined and interactive data modeling tools used to develop robust data models together with the user communities and pilot stakeholders.
  - WP4 “Network Services” which defines and SDI network architecture and implements on-demand network service applets for testing by community users and/or mash-up with the pilot validation platforms, to finally organize the set of deployed services into a coherent service toolkit.



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# Pilot Scenarios (1)

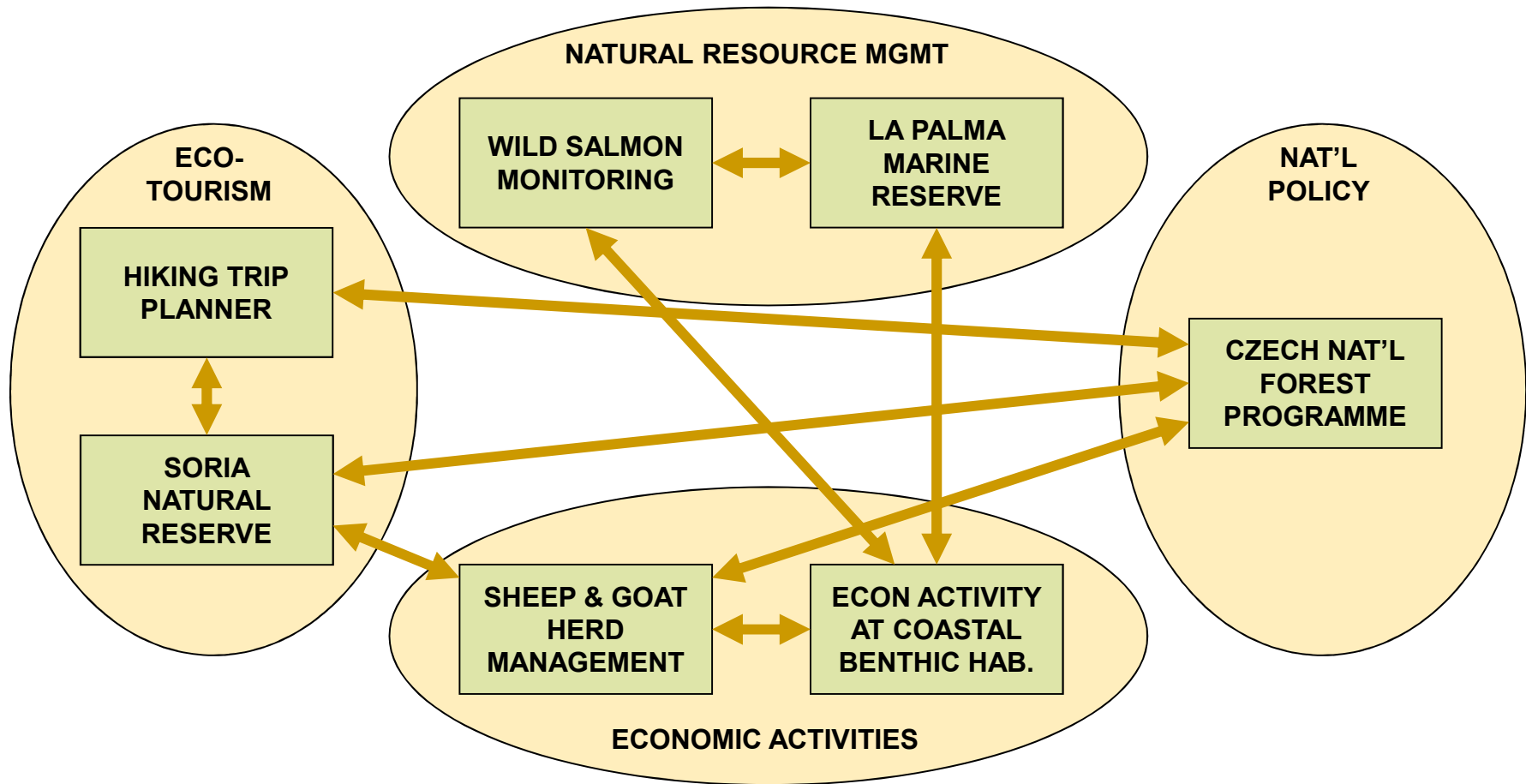
- Management of natural resources
  - Wild Salmon Monitoring (IE)
  - La Palma Protected Marine Area (ES)
- Eco-tourism
  - Hiking Trip Planner (IT)
  - Augmented Reality in Natural Reserves (ES)

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## Pilot Scenarios (2)

- Economic activities
  - Sheep and Goat Herd Management (IT)
  - Economical activity at marine coastal benthic habitats (LV)
- National policy
  - Czech National Forest Programme (CZ)

# Interoperability Links





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# Expected Results

- Multi-stakeholder communities
- Data and metadata models
- SDI network service architecture
- 7 operational pilot services
- Quick-prototyped validation platforms
- Dissemination and local and int'l events
- Service and business models, exploitation plans, sustainability agreements

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Thank you for your attention

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