INSPIRE at mid-term

how to use this basis for environmental information

3rd Czech and Slovak INSPIRE conference

INSPIRUJME SE

Floret, Průhonice
25. - 26. 11. 2014

European Environment Agency

Preface

Statement by the German Minister of Environment - Barbara Heinrich – during the 3rd National INSPIRE day on October 7th in Berlin

On the

significance of INSPIRE:

"Since they are used just as much, geodata and geoinformation should as naturally be considered infrastructures as are water, energy and transport."

Outline

INSPIRE at mid-term – outcome of the policy evaluation

An outside view on the Czech and Slovak situation

General EEA activities to support the usefulness of INSPIRE for environmental information

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INSPIRE at mid-term – outcome of the policy evaluation

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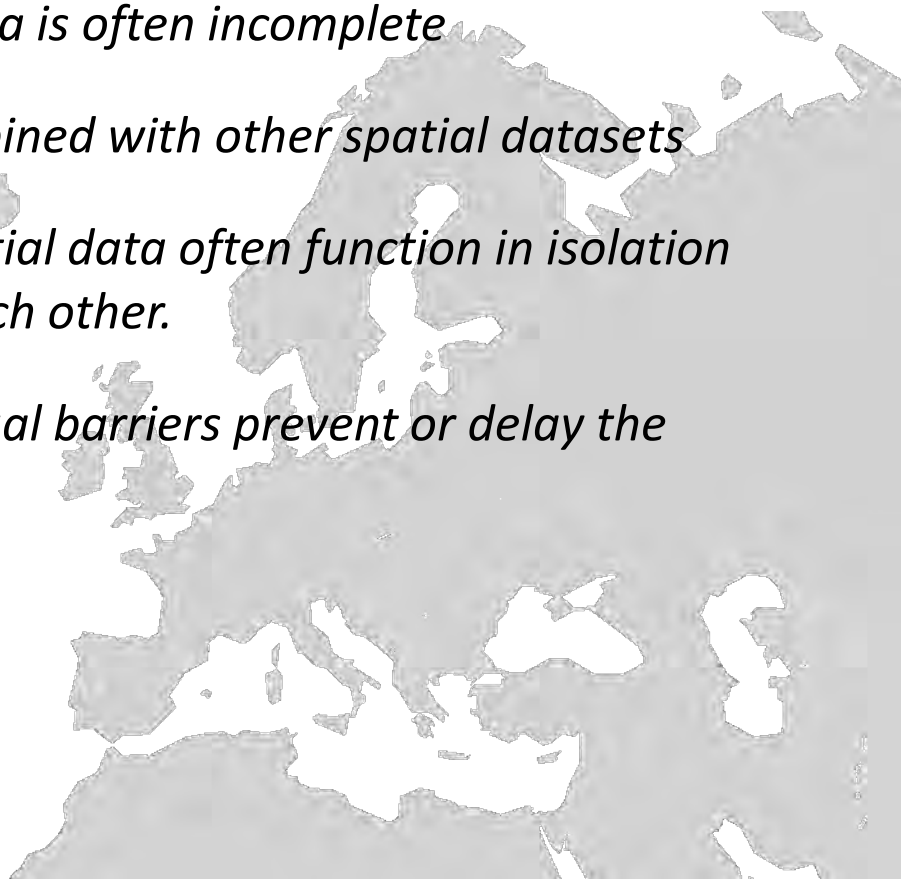
Status 10 years ago...
- Important obstacles related to use of geospatial data*

- ✓ *Spatial data is often missing or incomplete*
- ✓ *The description of available spatial data is often incomplete*
- ✓ *Spatial datasets can often not be combined with other spatial datasets*
- ✓ *The system to find, access and use spatial data often function in isolation only and are not compatible which each other.*
- ✓ *Cultural, institutional, financial and legal barriers prevent or delay the sharing and re-use of existing data.*



*Agreement of 97 % of participants public consultation 2004

INSPIRE evaluation process
- Joint EEA-JRC report

„Mid-term evaluation report on INSPIRE implementation“

Based on:

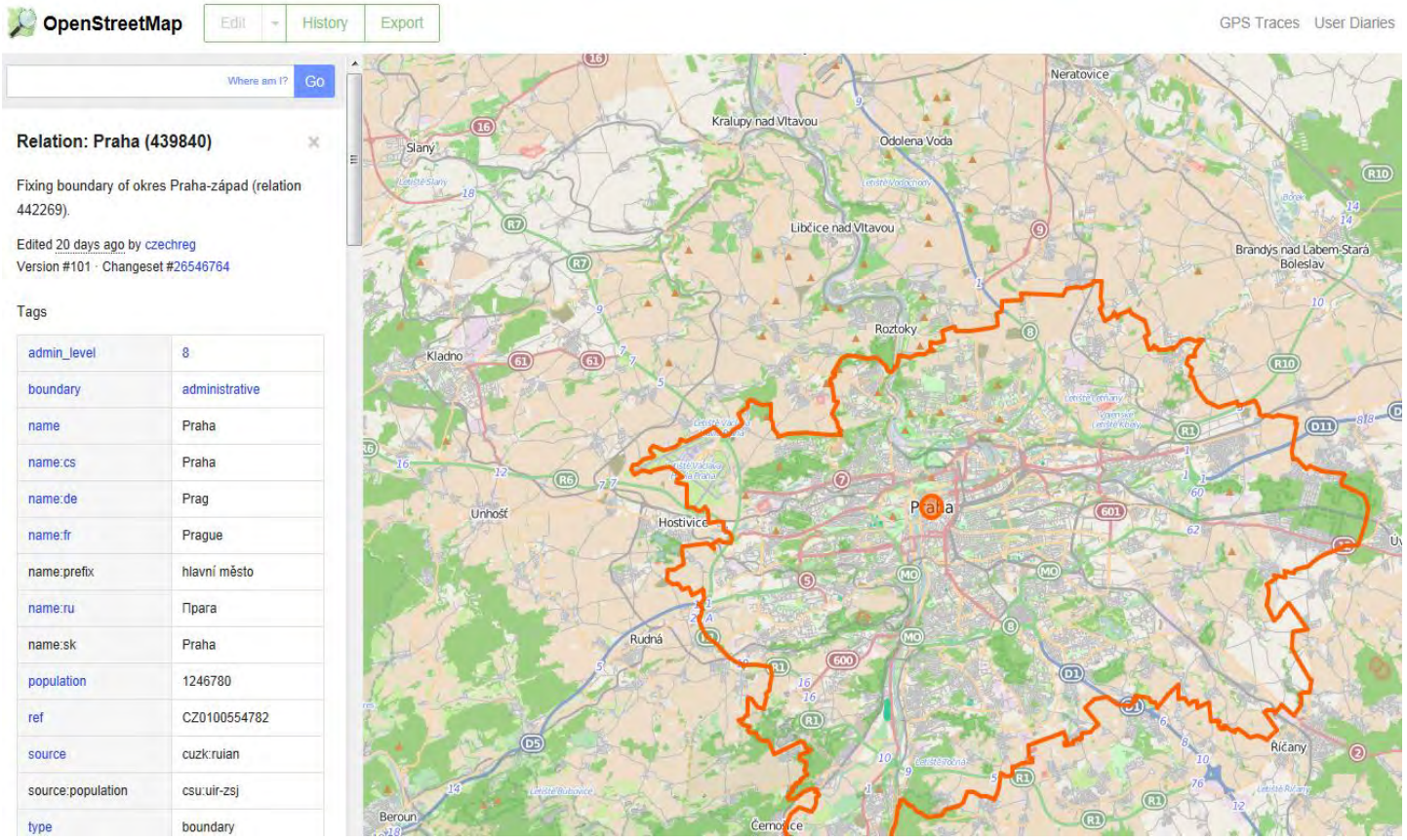
- ✓ 2013 Member State implementation reports
- ✓ DG Environment public consultation (Dec 2013 – Mar 2014)
- ✓ INSPIRE evaluation report on technical implementation in Member States (consultants report) (April 2014)
- ✓ further references

http://www.eea.europa.eu/publications/midterm-evaluation-report-on-inspire-implementation

Results of the interim assessment

1. Have the initial problems evolved?

- ✓ Availability
- ✓ Quality
- ✓ Organisation
- ✓ Accessibillity
- ✓ Data sharing



1. Have the initial problems evolved?

	Status	Comment
Availability		Increased availability of spatial data; new socio-technical developments
Data quality		Only indirectly adressed (through documentation)
Organisation of data		More awareness and coordination emerging between producers and users; interoperability increasing
Accessibility		Improvements mainly due to progress around metadata and technological developments e.g. network services
Data sharing		Has evolved due to open data agenda but much more remains to be done

2. Are the objectives still relevant to the initial issues – is a review needed?

Public consulatation: 92.5 % consider INSPIRE objectives still relevant

	Status	Comment
Documentation	*	Metadata availability and quality is evolving; finding and accessing data remains a barrier (44% of respondents)
Services	*	Insufficiently implemented in a consistent way but progressing
Interoperability	*	Issues persist since the majority of data under Annex II and III are not yet available
Data and service policy		A review of objectives is needed to overcome barriers in sharing (53% of spatial data with no adequate data policy)
Coordination		Objective needs a review to enable further improvement efforts (poorly coordinated policy initiatives)

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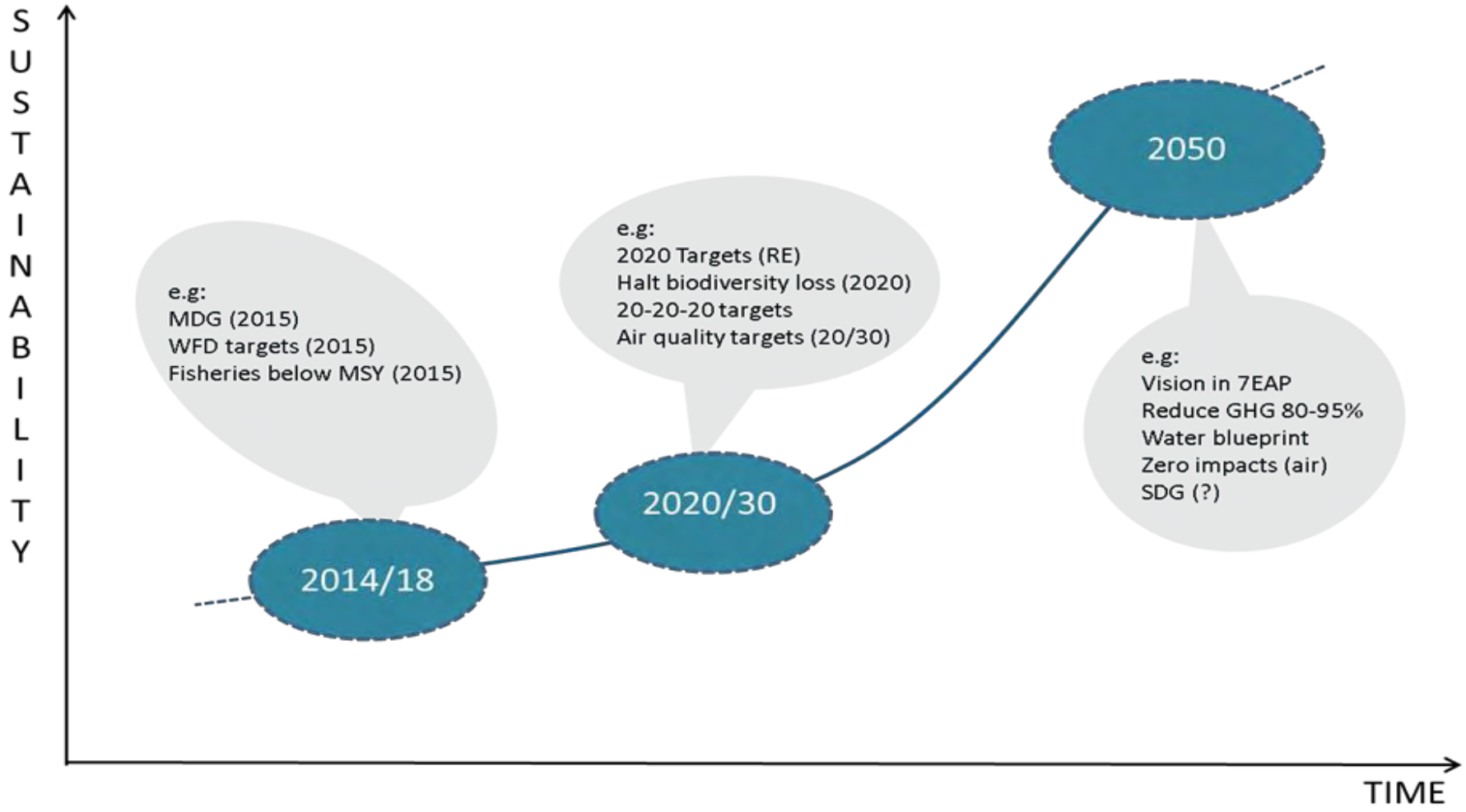
* Existence of issues acknowledged but objectives are still valid as described

3. Do the actions need modification?



Source: EEA Multi-Annual Work Programme 2014 to 2018

3. Do the actions need modification?

	Actions	Comment
Creating metadata		Handled by maintenance process
Establishing network services		Only integration of new technical approaches with network services
Ensuring interoperability		e.g. better sharing of Member State implementation measures
Facilitating data and service sharing		Improving arrangements to overcome differences amongst countries
Coordinating the implementation		Strengthening at EU level, in many countries and cross-border

4. Are changes attributable to INSPIRE implementation?

- There is a generally positive evolution – due to socio-technical developments – to which INSPIRE contributed

5. Are results achieved so far in-line with expectations? (e.g. from ex-ante evaluation)

- Limits in assessing cost-benefits due to the mid-term character of the evaluation
- Generally, costs are in line with expectations
- Benefits are around data discovery, documentation and availability
- Continuous monitoring is required

6. Is the geographical coverage of implementation consistent?

- Clearly not, due to different reasons
- Positive trends are visible
- Support needs for countries lagging behind

Seven additional REFIT questions I

	Analysis	possible Measures
What kind of administrative burden and cost is there?	**Cost on public sector** Not on citizens and private sector	none
How can burden and cost be minimised?		• **Awareness raising** • **Capacity building** • **Implementation strategies**
Estimated value of cost saving?	Only limited evidence available Largely qualitative statements	none
Gaps and inconsistencies in working methods?	Lack of acceptance and understanding between technical, thematic and governance communities	• Clarify conformance versus compliance • Address data sharing obstacles

Seven additional REFIT questions II

	Analysis	possible Measures
How can directive and implementing rules be modernised?	**Main obstacles:** • **Technical complexity** • **Coordination and communication** • **Data harmonisation**	• Improve communication • **Enhance integration on governance level EU/Member States** • **reduce adminstrative burden** (e.g. licensing)
What could generate more value for users?	Already many effects in other policy areas (more than initially targeted)	Stronger aligning with PSI directive and open data initiatives (amongst other eGovernment activities)
What is the EU added value?	Improved linking of EU and Member States Creation of community	• **Improve coordination on all levels** • **Remove data sharing obstacles**

Consultation on EEA/JRC technical report

„Midterm evaluation report on INSPIRE implementation“

Consultation period:
19 June – 31 July 2014

- DG Environment asks INSPIRE National Contact Points (NCPs)for consulation.
- EEA asks EIONET National Focal Points (NFPs) to coordinate input with the INSPIRE National Contact Points (NCPs).
- The EU Commission interservice group on the Coordination Of Geographic Information (COGI) will be consulted.
- Copernicus stakeholders

Summary

- Implementation with some delay and non-uniformity
- According to 92 % of respondents, objectives remains pertinent
- So far in line with expected costs and benefits

- Major investments and benefits have yet to materialize
- Implementation has taken place in the most difficult financial circumstances in many European countries

- More effort is needed to embed INSPIRE into environmental legislation
- Improving coordination between neighbouring countries
- Technical complexity and communciation are main areas of concern.

An outside view on the Czech and Slovak situation

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Some reflections on the CENIA keynote at the European INSPIRE conference 2014

Implementation

www.cenia.cz

- **METADATA** - **250** records in 2008, almost **2 000** in 2014

- **SERVICES** e.g. cadaster data – „use of service“ from **36,5 mil** in 2009 to **708 mil** in 2012 (WMS)
- **DATA** Large involvement in data specs testing (doubts feasibility of harmonization)
- **STAKEHOLDERS**
  - nearly 500 contacts in INSPIRE mailing list
  - **29 responses** to the INSPIRE evaluation questionnaire

Success story? Yes, and…

www.cenia.cz

INSPIRE is being implemented because of INSPIRE itself, not because of government/s needing its data for their policies.

- **Does government need the data for making policies?**

- **Do we offer the right data?**

- **Do we offer the data in the right form?**

Implementation:

How much of the above is environment related? What is the dynamic for that area?

Success story:

Create multiple national benefits! How is that going?

Some more reflections on the CENIA keynote at the European INSPIRE conference 2014

www.cenia.cz

- **INSPIRE is the way forward, but it is by no means a goal!**
- **INSPIRE is a tool for successful data management**
- Data management is an instrument for **successful** transparent, consistent and user oriented **state administration**
- **Build INSPIRE not for INSPIRE itself, but for our users.**

www.cenia.cz

Do not ask us „How are you“? You will get wrong answer.

Do not ask us whether we have implemented INSPIRE.

Ask us whether and how we have satisfied our users by implementing

Here again: The big user story!

Do you know what the users want?

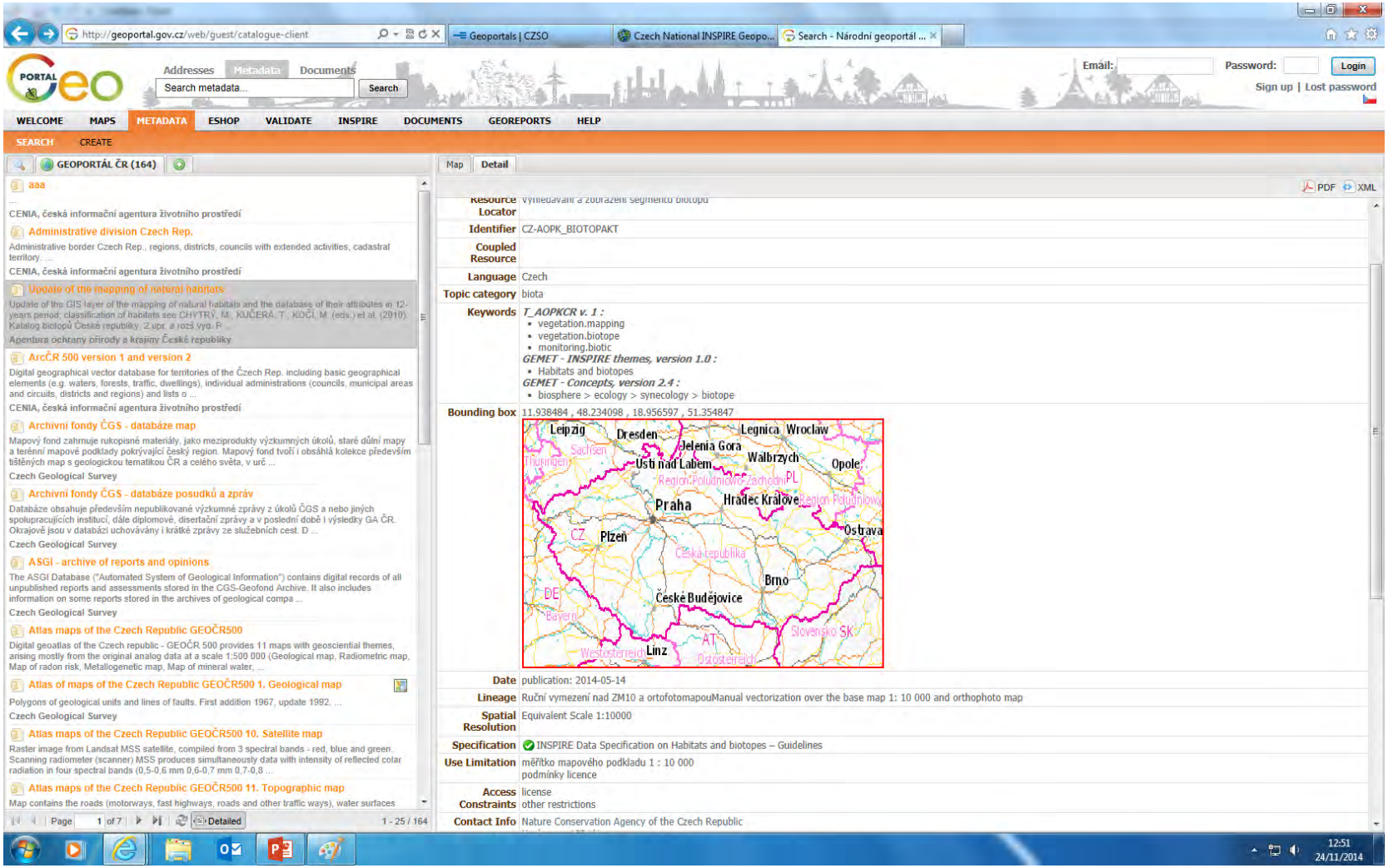
What have you done for them?

What is lacking?

Where are the obstacles?

Excellent technology out there:

INSPIRE services in CZ – discovery …



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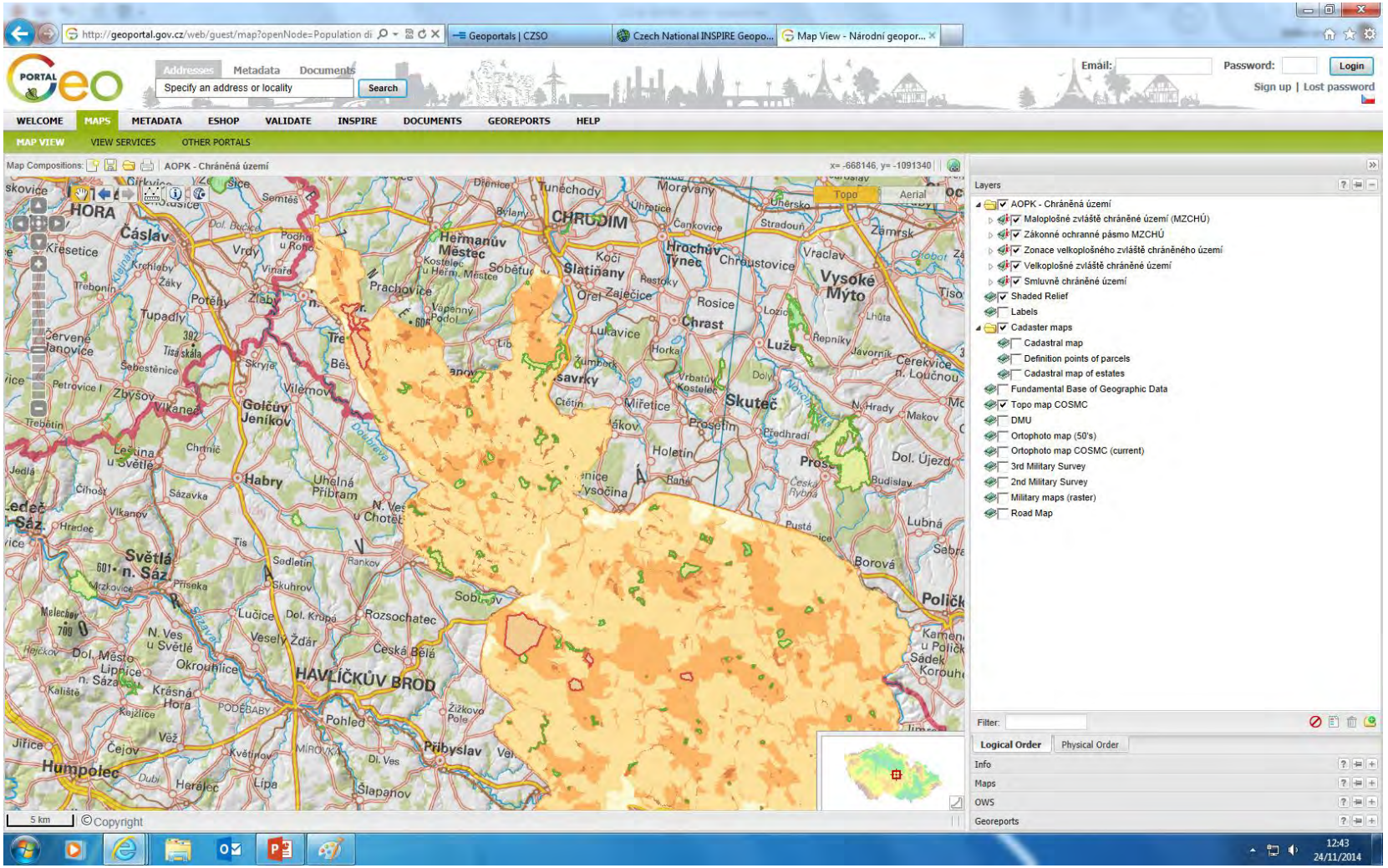
and view services …



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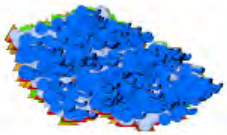
… more view services – CZ …

Thematic Maps

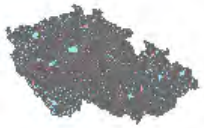
Czech National INSPIRE Geoportal on ArcGIS Online

water

Bathing water quality
Web Map by CzechINSPIRE. Last Modified Feb 14, 2013.
Quality of bathing water in the Czech Republic
(4 views)



Network of water monitoring stations
Web Map by CzechINSPIRE. Last Modified Feb 14, 2013.
Network of water monitoring stations in the Czech Republic.
(4 views)



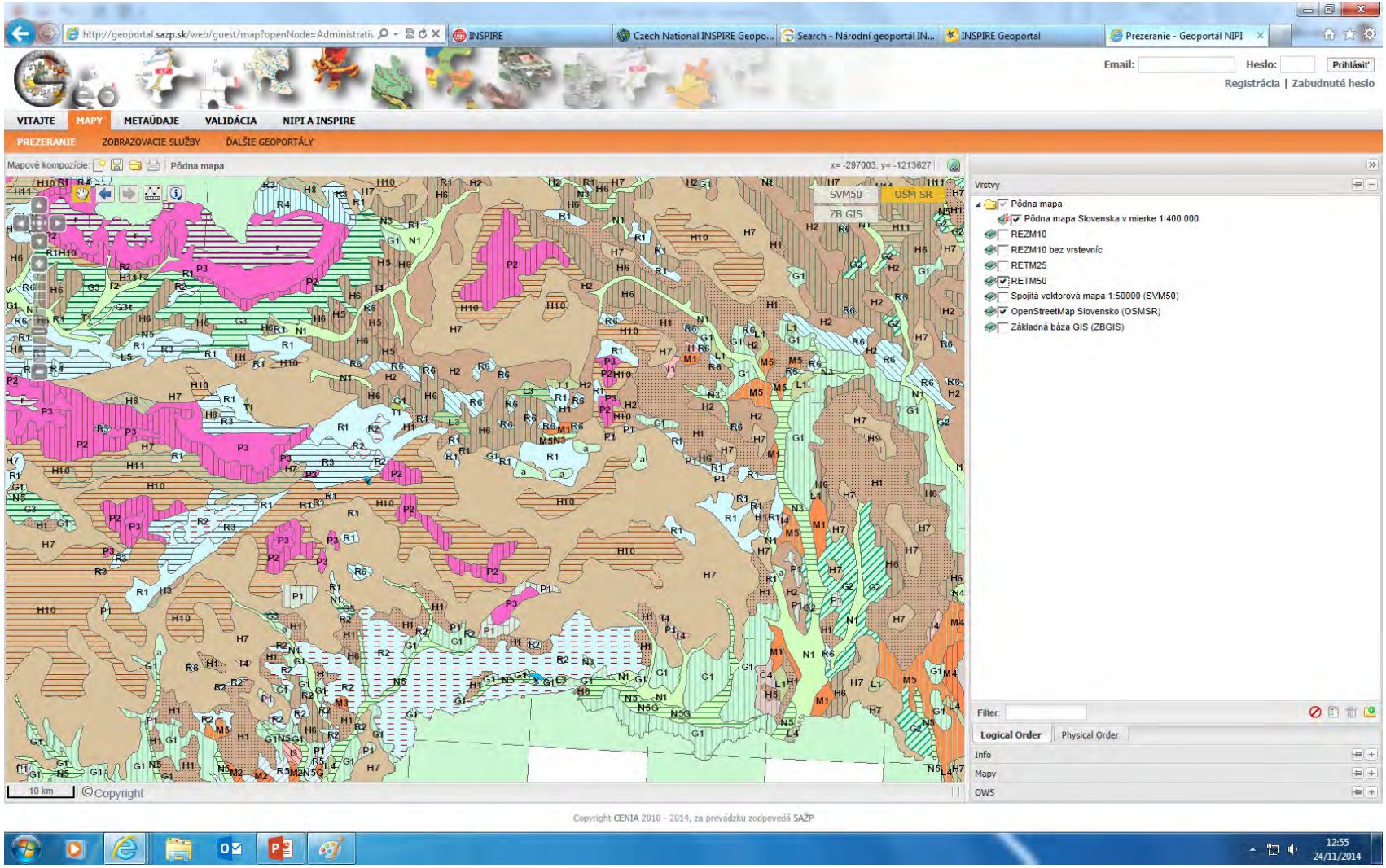
Public facilities
Web Map by CzechINSPIRE. Last Modified Feb 14, 2013.
Public facilities in municipalities of the Czech Republic (census 2001).
(4 views)

Water bodies and main drainage basins
Web Map by CzechINSPIRE. Last Modified Feb 14, 2013.
Water bodies and main drainage basins of the Czech Republic.
(6 views)

About INSPIRE

The INSPIRE directive aims at creating of European Union spatial data infrastructure. This will enable the sharing of environmental spatial information among public sector organisations and better facilitate public access to spatial information across Europe.

… also (shared) services in SK …



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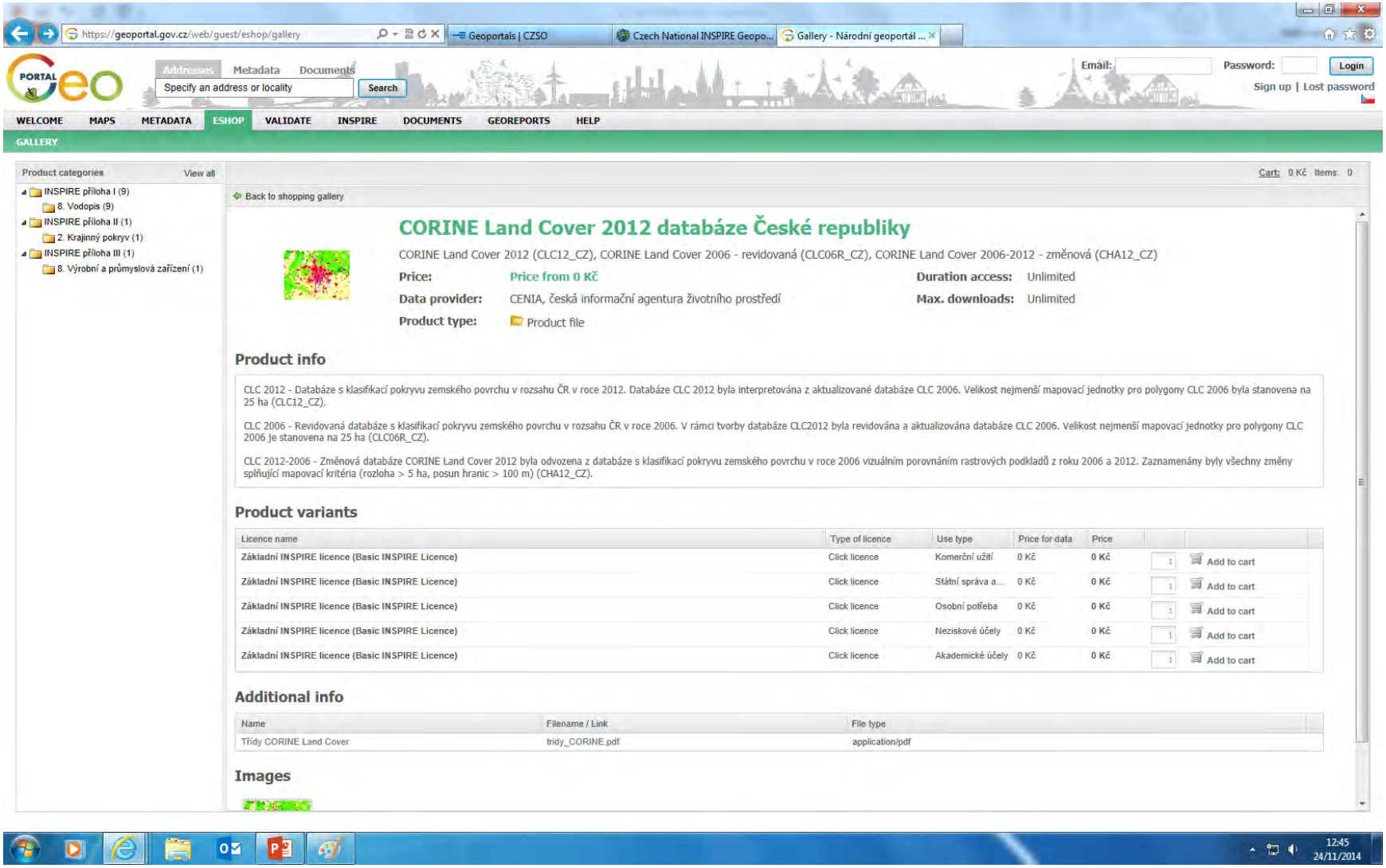
and also download services (CZ example)



General EEA activities to support the usefulness of INSPIRE for environmental information

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Communication and Cooperation

Create an understanding of INSPIRE benefits

Navigating between supporting a generic eGovernment, SDI (Spatial Data Infrastructure) and Open Data agenda ("data access") and providing concrete benefits to environmental data management ("data interoperability")

Activities

- Attend selected (cross-)national INSPIRE activities (conferences, coordination meetings etc.) on request (shared task with JRC and DG Env)

  (CZ-SK, DE, Nordic cooperation)
- Advise EU funded projects in support of INSPIRE implementation around environmental topics

  (GS Soil, Nature SDI, eENVplus, ENPI, Danube Strategy …)
- Contribute to an INSPIRE training program – related to EIONET
- Editing and publishing a mid-term evaluation report
- Support EIONET in implementation matters

Technical

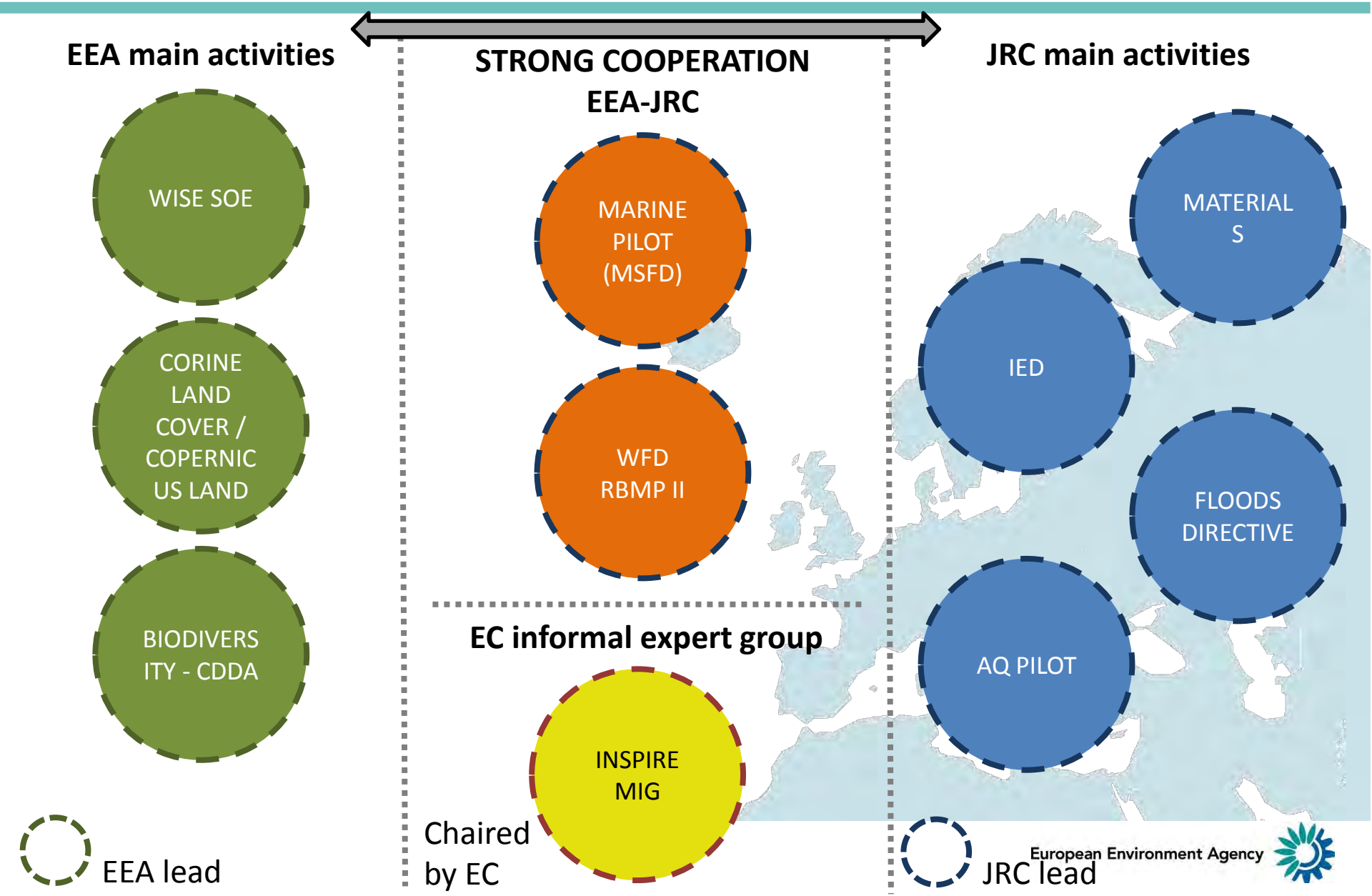
Identify and establish EEA role as technical service provider

- EEA data stewardship where countries are the major implementers
- Establish European reference datasets
- EIONET specific codelists and related registers
- How Reportnet need to change to accommodate for countries providing INSPIRE services?
- What are INSPIRE network services EEA publishes – with which data?
- Maintain an INSPIRE metadata compliant metadata catalogue

Applying a pragmatic approach – still maintaining the overall interoperability goals

- Support eReporting pilots - mapping of INSPIRE data specifications into thematic schemas
- Developing topics of EEA/EIONET interest as part of our MIG involvement
- Identify implementation issues and channel them to the MIG
- Solve selected issues as part of our MIG work
- Test support tools e.g. for transformation and validation

2015 Summary planning: EEA - JRC INSPIRE cooperation



Summary

EEA's general work plan and principles

- Stepwise pragmatic implementation
- „Learning by doing"
- Based on thematic interest and needs *(eReporting pilots)*
- Based on milestones coming from reporting obligations *(eReporting pilots)*
- Building data models, data sets and services
- Involving EIONET in stages *(CDDA project)*
- Capacity building through EIONET NRC EIS and other networks (e.g. INSPIRE MIG) and tools (e.g. INSPIRE FORUM)

What could be missing –
Where could we support you?

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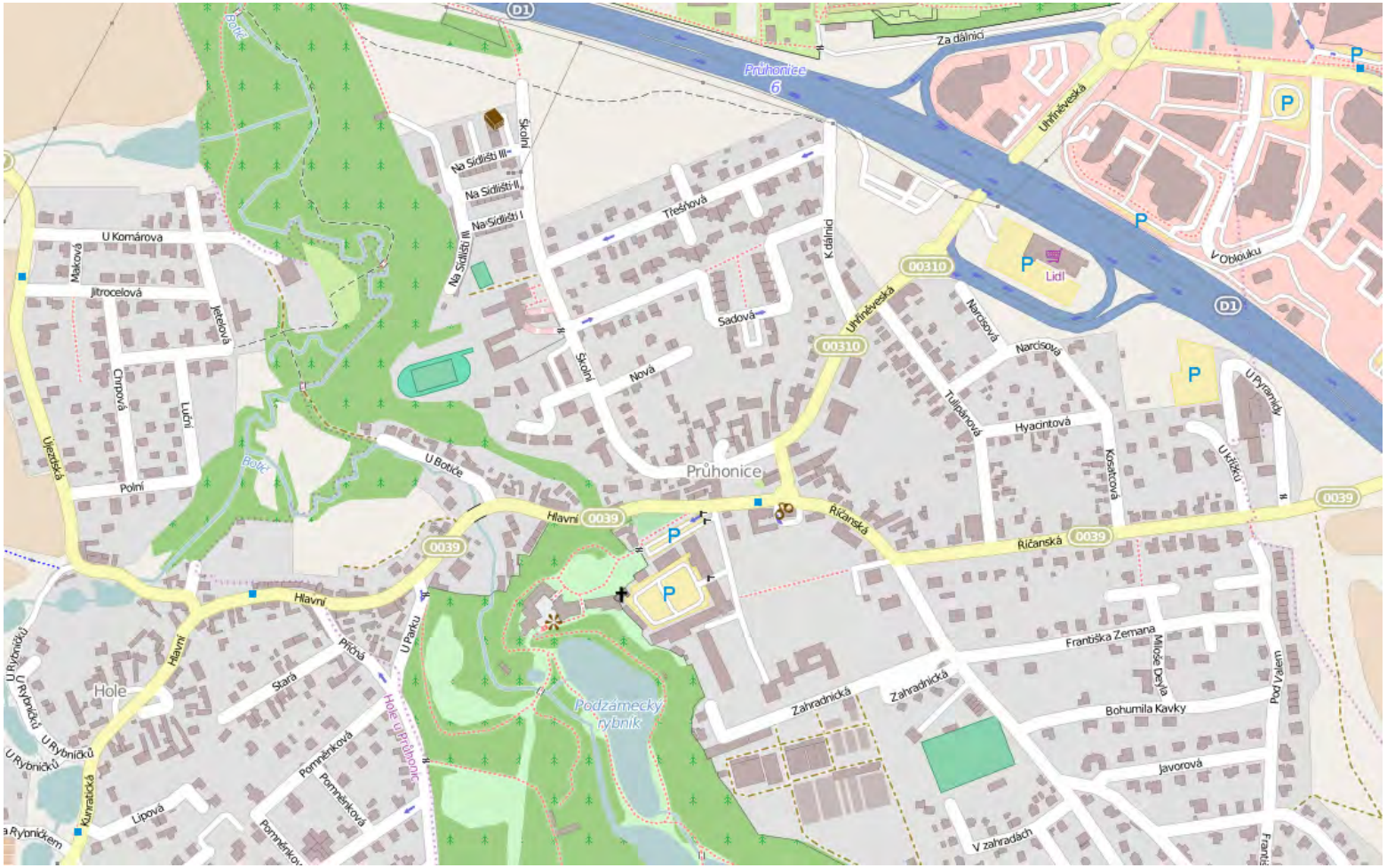
Thank you for your attention!



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