



*European Network of Best
Practices for Interoperability
of Spatial Planning Information*

Tomas Mildorf, Karel Janecka
mildorf@centrum.cz, kjanecka@kma.zcu.cz
*University of West Bohemia in Pilsen
Czech Republic*



**Co-funded by the
Community programme
eContentplus**

10. Sächsisches GIS-Forum
Plan4all - Towards Harmonisation of Spatial Planning Data



Plan4all is an *eContentplus* project.

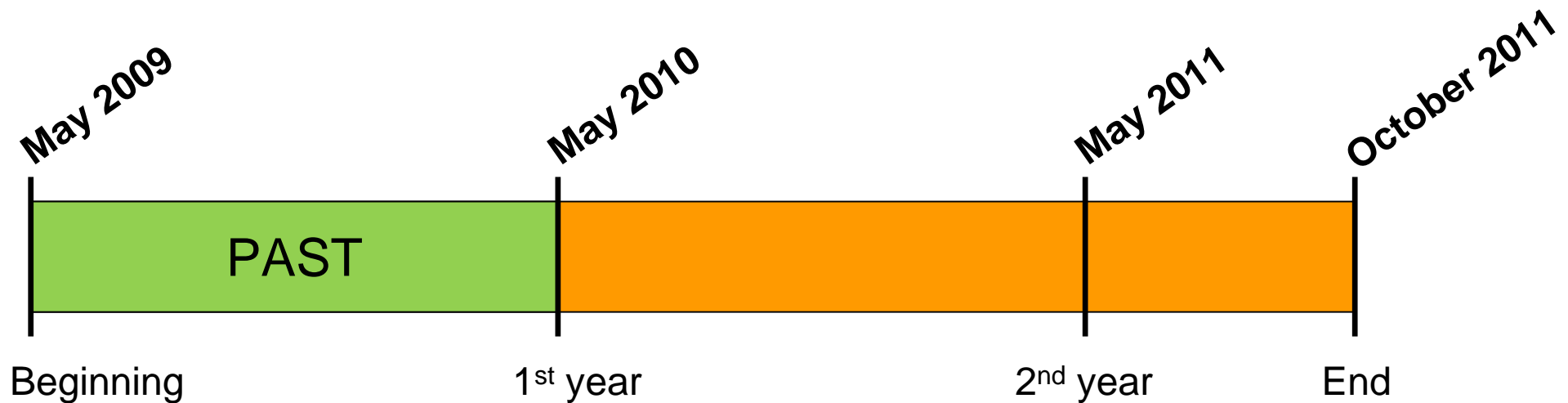
Type: Best Practice Network

Total budget: 4.1 million Euro



A multiannual **Community programme** to make digital content in Europe more accessible, usable and exploitable.

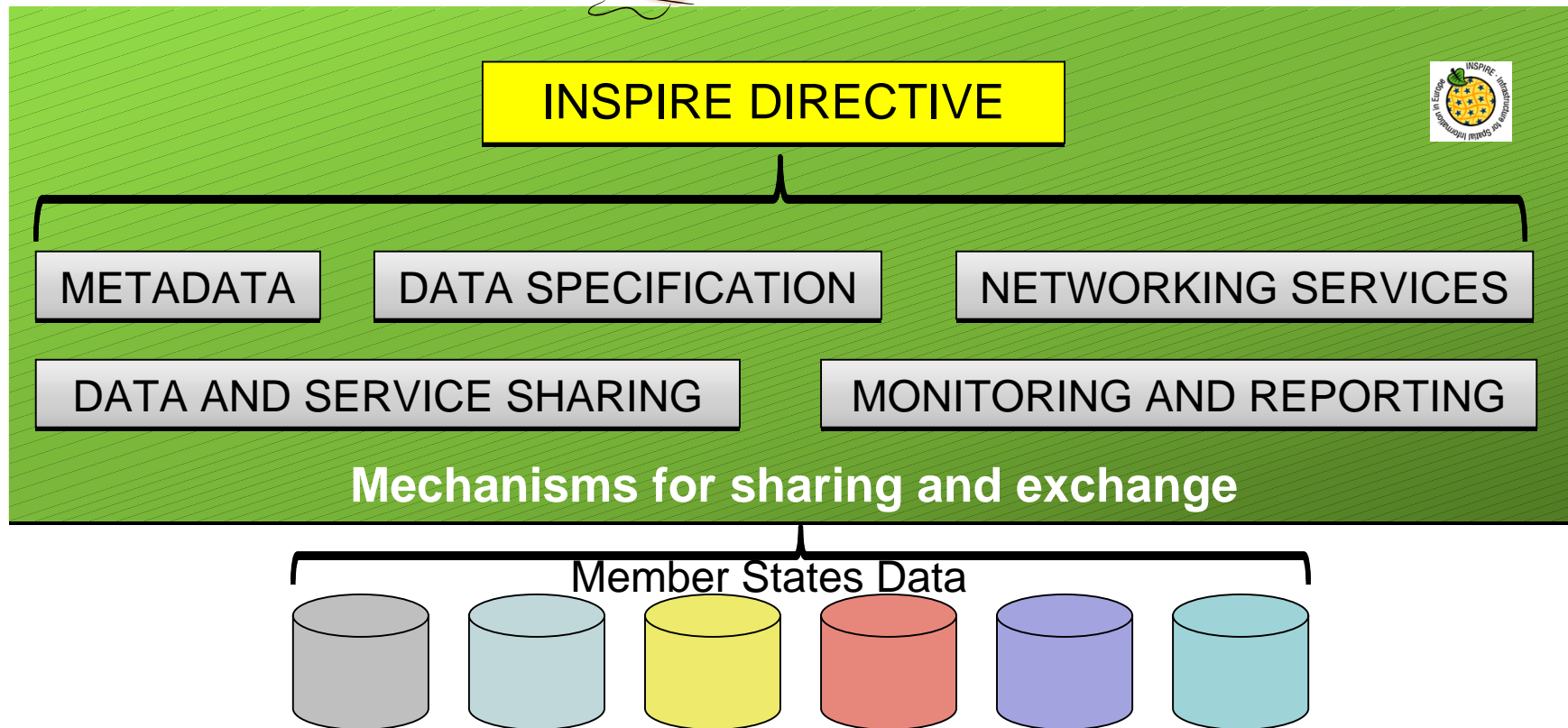
Main Goal



Harmonisation of spatial planning data according to the **INSPIRE Directive** based on the existing best practices in EU regions and municipalities and the results of current research projects.



USERS - Seamless access to data



INSPIRE Spatial Data Themes

Annex I

- Coordinate reference system
- Geographical grid systems
- Geographical names
- Administrative units
- Addresses
- Cadastral parcels
- Transport networks
- Hydrography
- Protected sites

Annex II

- Elevation
- Land cover
- Ortho Imagery
- Geology

Plan4all

Annex III

- Statistical units
- Buildings
- Soil
- Land use
- Human health and safety
- Utility and Government services
- Environmental monitoring facilities
- Production and industrial facilities
- Agricultural and aquaculture facilities
- Population distribution – demography
- Area management/restriction/regulation zones and reporting units
- Natural risk zones
- Atmospheric conditions
- Meteorological geographical features
- Oceanographic geographical features
- Sea regions
- Bio-geographical regions
- Habitats and biotopes
- Species distribution
- Energy resources
- Mineral resources

Plan4all Consortium



Coordinator:  University of West Bohemia in Pilsen

-  ISOCARP
-  Statutarni mesto Olomouc
-  Technology Development Forum
-  Help service remote sensing s.r.o.
-  LGV Hamburg
-  Stichting EUROGI
-  Zemgale Planning Region
-  Provincia di Roma
-  Fondazzjoni Temi Zammit
-  GEORAMA
-  Navarra de Suelo Residencial S.A.
-  Hyperborea s.c.
-  AYUNTAMIENTO DE GIJON
-  The National MACentre Ltd

-  CEIT ALANOVA
-  Asplan Viak Internet as
-  Università degli Studi di Roma Tre
-  Euro Perspectives Foundation
-  ADR Nord-Vest
-  Regione Lazio
-  Help forest s.r.o.
-  AMFM GIS ITALIA
-  Ministry of Ecology, Energy, Sustainable Development and Town and Country Planning

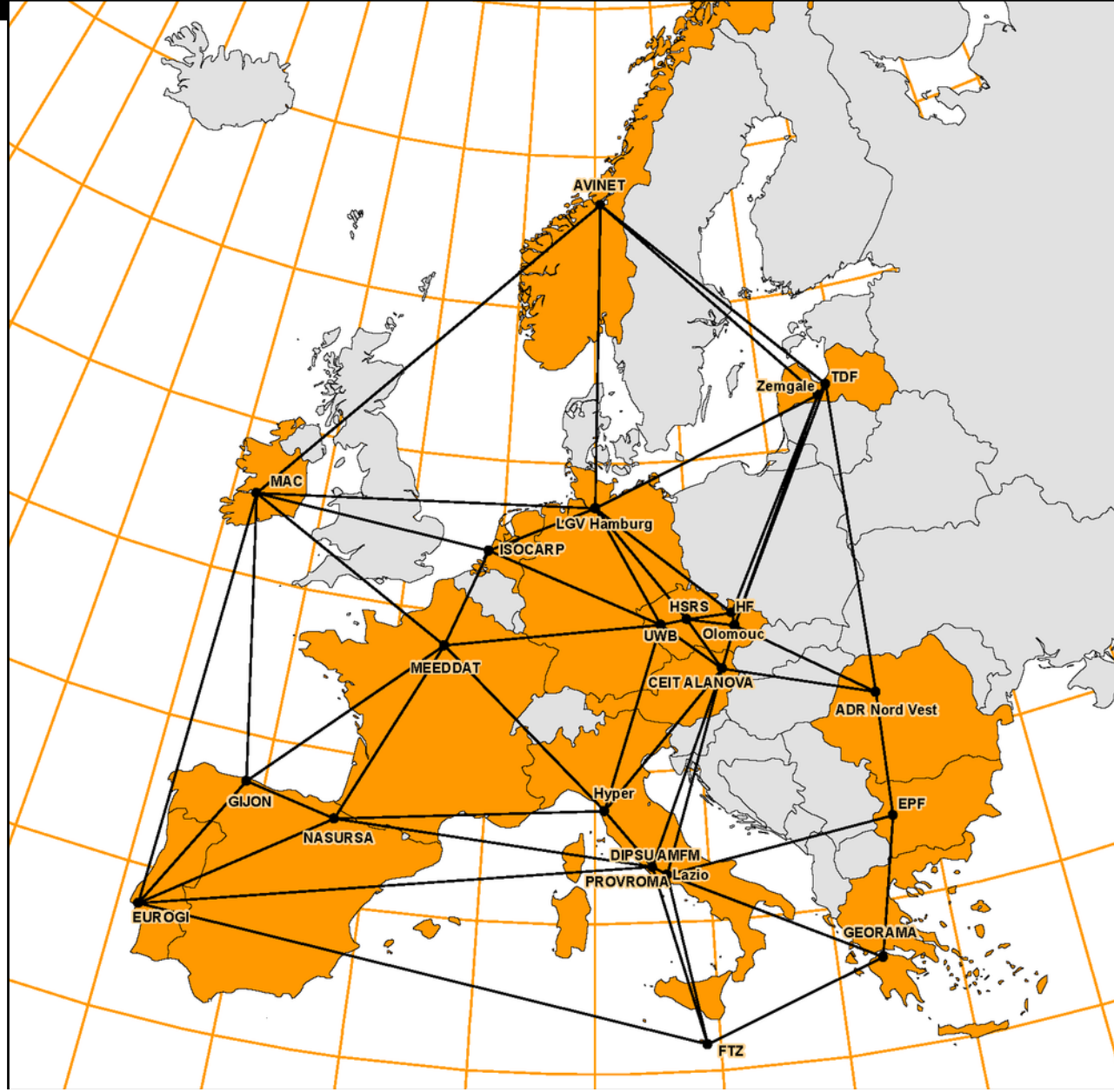
24 partners
14 EU Member States + Norway

Commercial companies
Research institutes
Municipalities
Universities
Authorities
Regions

**MULTIDISCIPLINARY
MULTILINGUAL &
MULTICULTURAL ENVIRONMENT**

Data providers
Validation partners
Management teams
Dissemination partners
Technological providers
Research and standardisation partners

Plan4all Consortium



14.05.2010

Plan4all Objectives



1. Promotion

2. Metadata profiles

3. Data models

4. Networking architecture

5. Validation

6. Geoportal

7. Data and metadata deployment

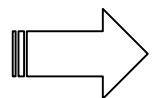
- Land cover
- Land use
- Utility and Government services
- Production and industrial facilities
- Agricultural and aquaculture facilities
- Area management/restriction/regulation zones and reporting units
- Natural risk zones



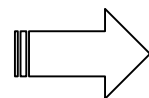
Promote Plan4all and INSPIRE in countries, regions and municipalities

- Workshops, multilingual flyers, newsletters ...
- Website: <http://www.plan4all.eu>
- Plan4all discussion forum:

<http://inspire-forum.jrc.ec.europa.eu/>

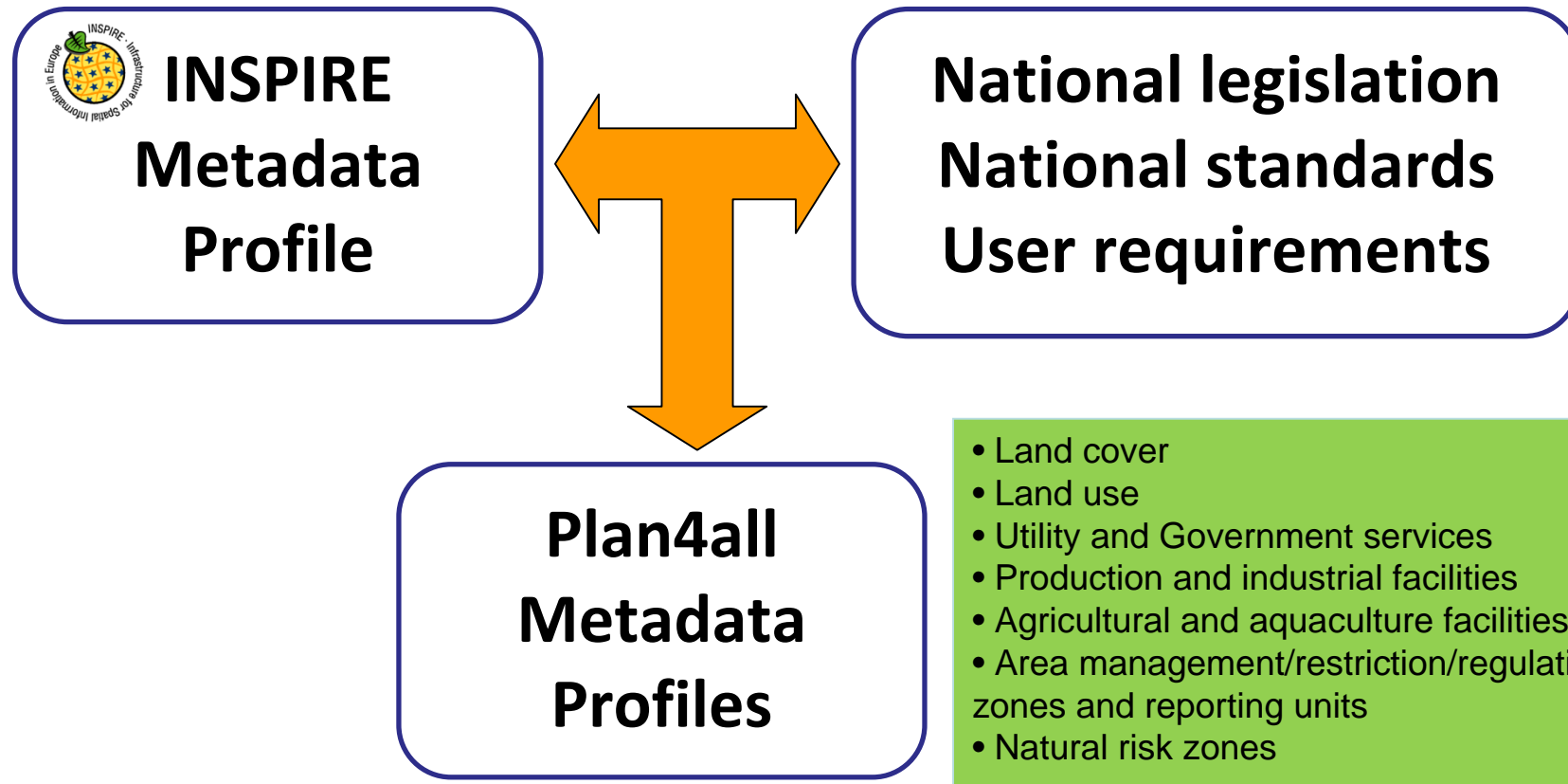


GROUPS



Metadata profiles

Design spatial planning metadata profiles



Design data models for the selected spatial data themes

- Feature Catalogues
- UML Models
- Plan4all Glossary

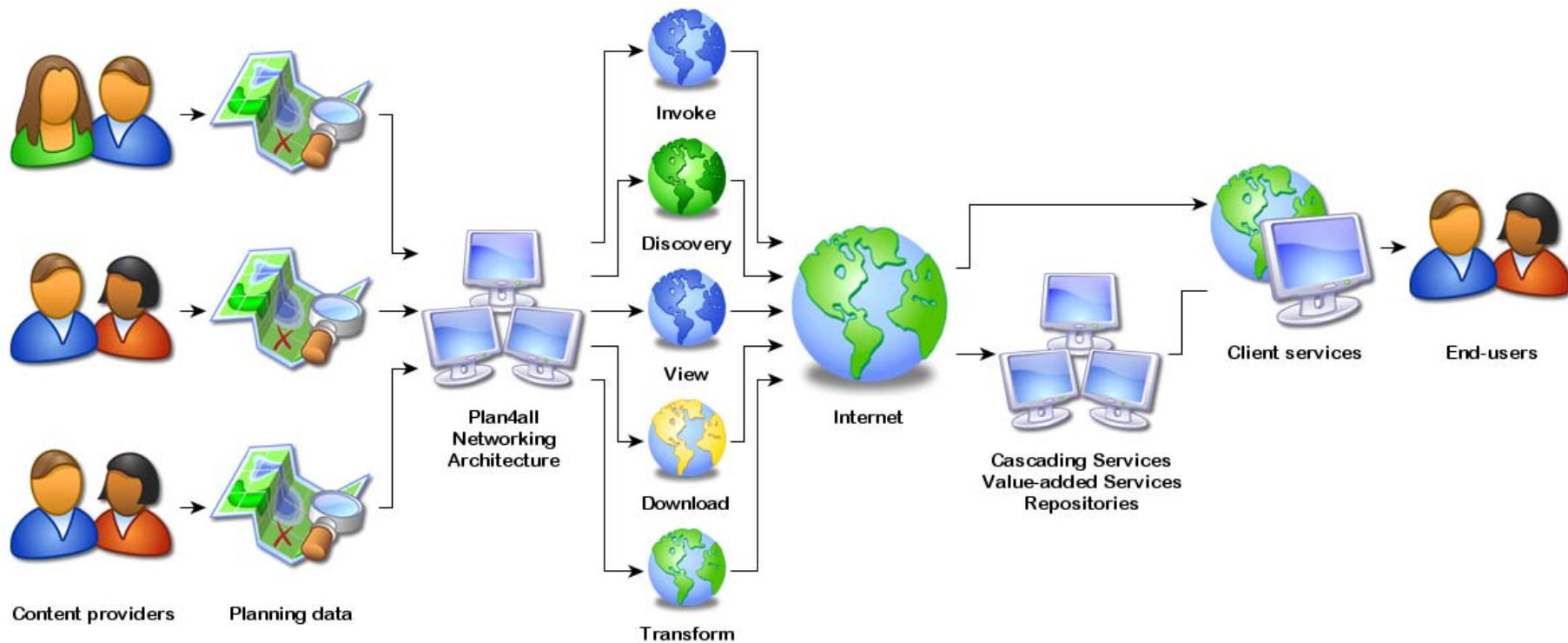


**Input for the
INSPIRE Thematic
Working Groups**

- Land cover
- Land use
- Utility and Government services
- Production and industrial facilities
- Agricultural and aquaculture facilities
- Area management/restriction/regulation zones and reporting units
- Natural risk zones

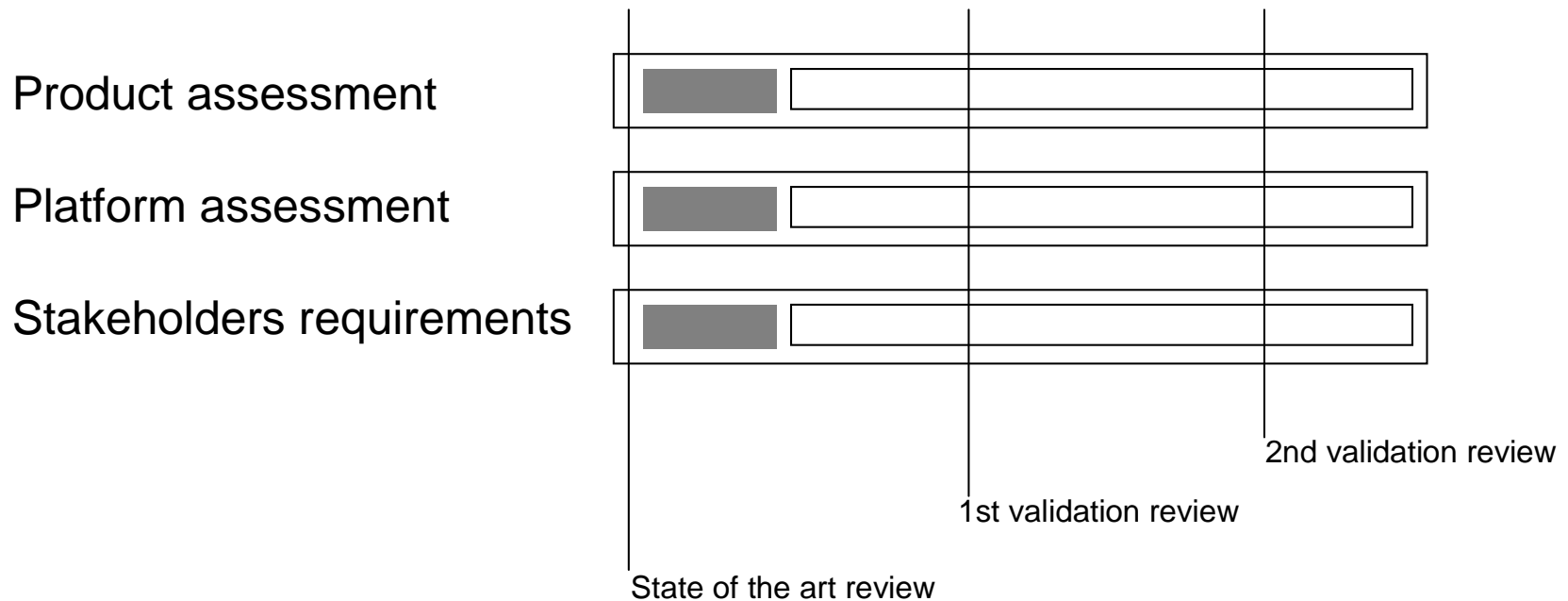


Design networking architecture for sharing data and services in spatial planning



Validation

Validate metadata profile, data models and networking architecture on local and regional level



Geoportal



Establish European
portal for spatial

planning data
Plan4all Geoportal prototype available at:

<http://portal.plan4all.eu/>

- OGC Web Services
- Metadata Catalogue
- Map Client

The screenshot shows the Plan4all Geoportal website. At the top, there is a navigation menu with 'Home', 'Catalogue', and 'Map'. Below this is the Plan4all logo and a search bar with 'All', 'Data', and 'Services' tabs. The main content area is divided into two columns. The left column contains links for 'About plan4all' and 'About HSRS Geoportal'. The right column contains descriptive text for the 'Catalogue' and 'Map' services, along with a list of basic functions and other features.

Home Catalogue Map UK DE | Login

Plan4all

All Data Services

Search Advanced Search

About plan4all

About HSRS Geoportal

Geoportal HSRS is package of applications which allows work with maps in web enviroment based on OGC web services.

Catalogue
Client allows searching metadata in accessible catalogues by OGC CSW. There is possibility to show detail informations in founded records or in accessible services connect them into map web client.

Map
Client allows viewing maps based on OGC web services and other formats (Google maps, KML, MapServer, GML)

Basic functions:

- Viewing web services(OGC WMS, WFS) selected by user from catalogue or directly by address.
- Saving user defined map('project') on local hard drive a rereading of this saved composition (OGC WMC)
- Distance and area measurements.
- Searching in map.
- Inserting user defined objects into map.
- Large format print in PDF.
- Showing legends, metadata and querying in map.

Other
Functions for maintaing geographics DBs, metadata storage etc. are available for logged users.

Deployment



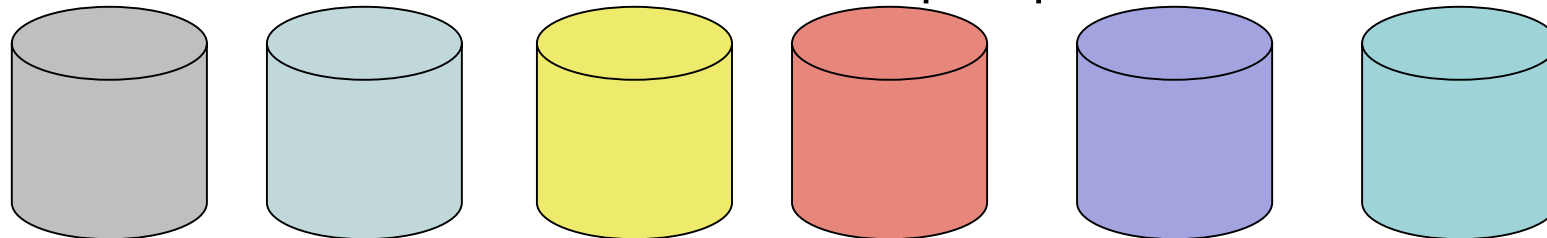
Deploy data and metadata on local and regional level

Publication – Plan4all Geoportal

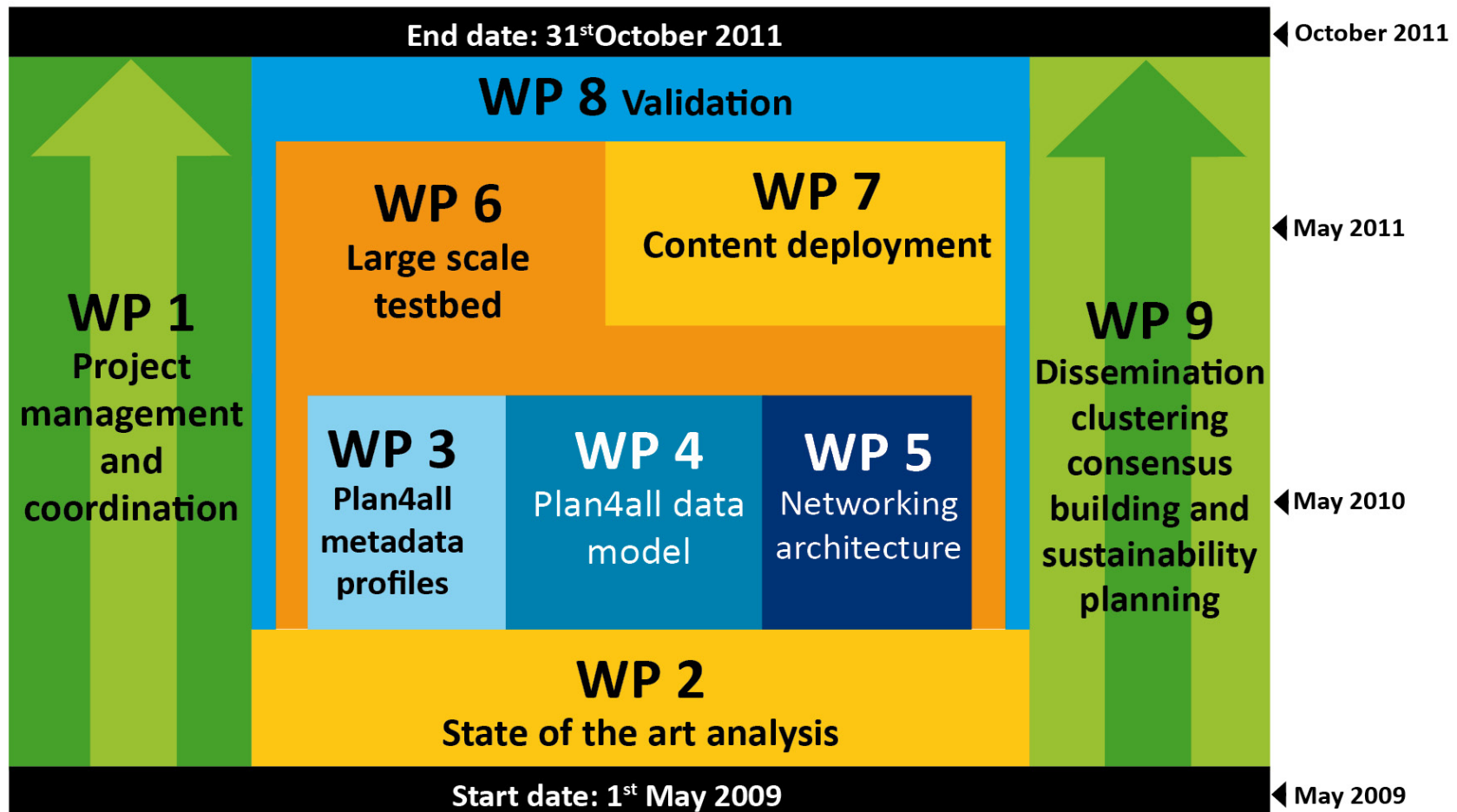


HARMONISED DATA

Non-harmonised data of pilot partners



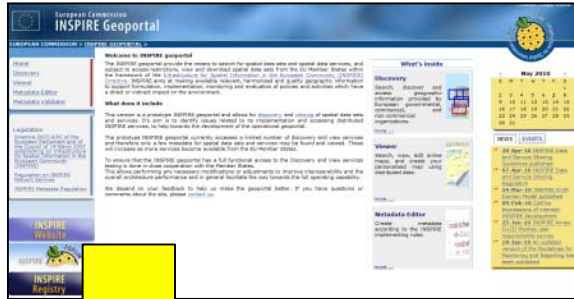
Plan4all Work Flow



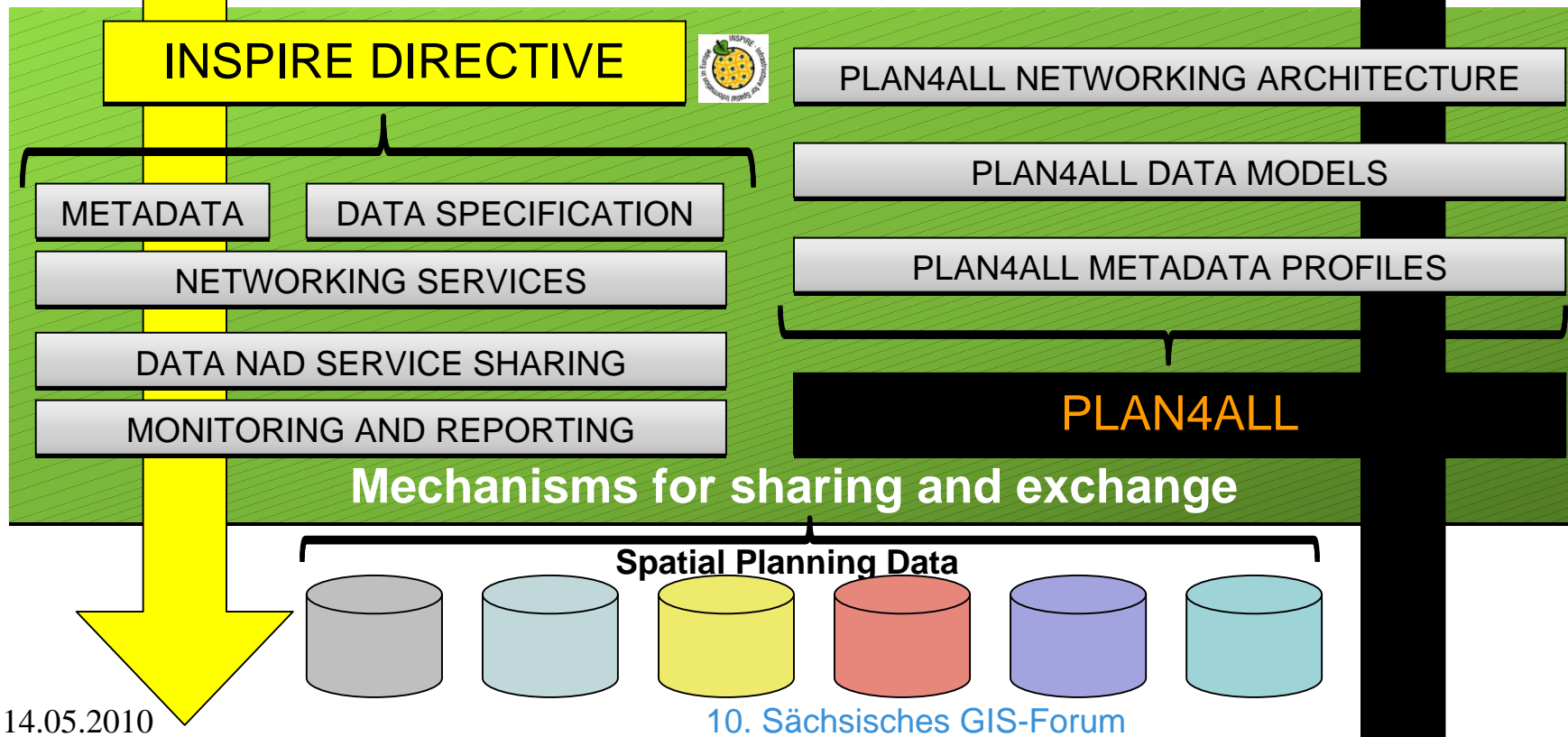
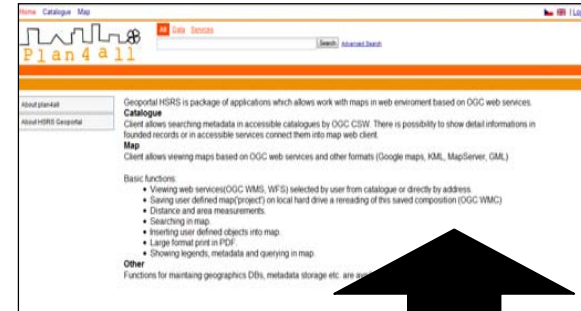
SPATIAL PLANNING



Approaches



Seamless access to data



14.05.2010

Contact



Tomas Mildorf, Karel Janecka

mildorf@centrum.cz, kjanecka@kma.zcu.cz

University of West Bohemia in Pilsen

Univerzitni 22, 30614 Pilsen

Czech Republic

<http://www.plan4all.eu>

Thank you for your attention


Plan4all



ISOCARP

Nasursa
NAVARRA DE SUELO RESIDENCIAL, S.A.



PROVINCIA
DI ROMA



Geoinformation
Vermessung

MAC



CEIT ALANOVA
Institute of Urbanism,
Transport, Environment
and Information Society



Ayuntamiento
de Gijón



REGIONE
LAZIO

Direzione Regionale
Territorio e Urbanistica



Hyperborea



UNIVERSITY
OF WEST BOHEMIA

HS-RS



Asplan Viak **Internet**
www.avinet.no



TEHNOLOĀIJU ATTĪSTĪBAS FONDS



<http://www.plan4all.eu>

Plan4all - Towards Harmonisation of Spatial Planning Data