

The NESIS Good Practices Inventory

- Identification of existing, operational ICT solutions to manage environmental data, about infrastructures, dataflows and related services
- Aims at starting **Good Practice sharing and an exchange of experience**
- The outcome is the "**NESIS Best Practices Catalogue of ICT solutions for managing environmental data**", a living output organised to better share information among the partners and the network of Stakeholders, as well contributing with their own experience

Key-word(s)

Monitoring
Reporting
Organisational set-ups
Infrastructure creation
Dataset harmonisation

.....

Theme(s) mainly addressed

Air
Climate change
Land-use
Biodiversity
Water
Soil
Forests
Waste
Chemicals
Natural resources
Noise
Horizontal management of environmental data

.....

Country(ies)**Outline/General description**

Short description
Kind of practice
Objectives vs. needs
Legal aspects
Geographical area covered

Actors

Data producer(s)
Data analysis by ...
Quality assurance by ...
Others to be quoted
Primary users

.....

Template to collect Best Practice (2)

Data aspects

Origins of data
Considered datasets
Metadata
Information flow

Technical implementation/ Solutions

Infrastructure/System architecture
Data logging and transmission
Services set-up
.....

Information on the implementation

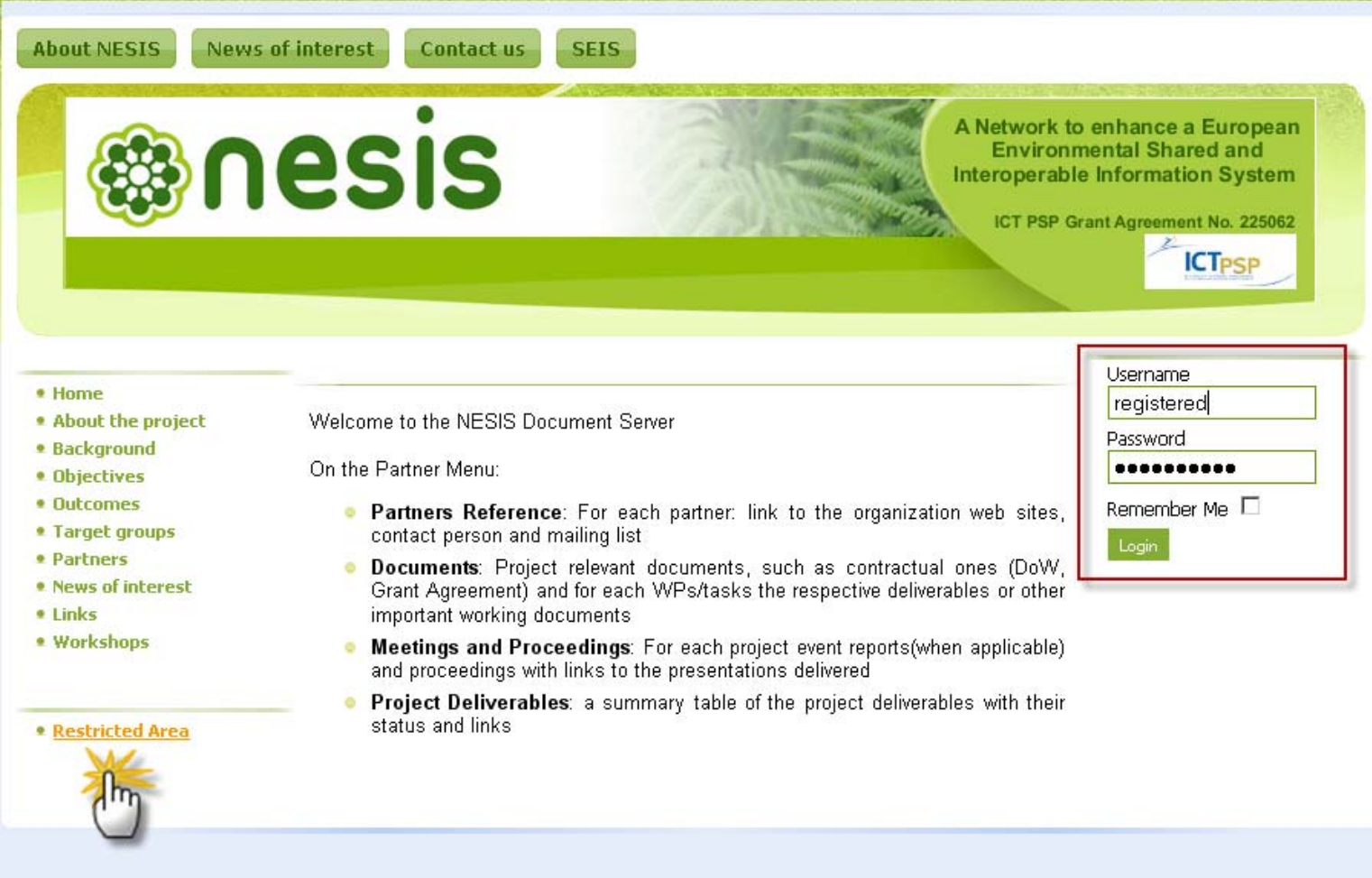
Status of implementation
Funding
Communication policy
Year of start
Year of steady state
Future planned development(s)
Problems, lessons, comments and recommendations

References

URL
Reference person
Organisation
Department
e-mail contact

The Good Practices Catalogue

(at www.nesis.eu, upon registration)



The screenshot shows the NESIS Document Server website. At the top, there are navigation buttons for "About NESIS", "News of interest", "Contact us", and "SEIS". Below this is a large banner featuring the NESIS logo and the text "A Network to enhance a European Environmental Shared and Interoperable Information System" along with "ICT PSP Grant Agreement No. 225062" and the ICTPSP logo.

On the left side, there is a vertical menu with the following items:

- Home
- About the project
- Background
- Objectives
- Outcomes
- Target groups
- Partners
- News of interest
- Links
- Workshops

Below the menu, there is a "Restricted Area" link with a hand cursor icon.

The main content area displays a welcome message: "Welcome to the NESIS Document Server" and "On the Partner Menu:" followed by a list of features:

- **Partners Reference:** For each partner: link to the organization web sites, contact person and mailing list
- **Documents:** Project relevant documents, such as contractual ones (DoW, Grant Agreement) and for each WPs/tasks the respective deliverables or other important working documents
- **Meetings and Proceedings:** For each project event reports(when applicable) and proceedings with links to the presentations delivered
- **Project Deliverables:** a summary table of the project deliverables with their status and links

On the right side, there is a login form with the following fields and options:

- Username:
- Password:
- Remember Me:
- Login:

The current content of the Catalogue: ("first round" collection)

■ AUSTRIA

- Environment Portal Austria

■ CZECH REPUBLIC

- Information System of Statistics and Reporting ISSaR
- Information System of Technical Environment Protection (ISTOZP)
- Czech Environmental Metaportal

■ FRANCE

- Geoportal
- Environmental Portal
- National Interest Group on the Soils
- NatureFrance , portal of the SINP: Système d'Information sur la Nature et les Paysages
- Système d'information sur l'eau en France: Water Information System France

■ ICELAND

- Interactive map solution - Icelandic nature

■ ITALY

- GELSO - Best Practice database

■ NORWAY

- Norway digital - Norwegian Spatial Data Infrastructure
- The Artsdatabanken biodiversity information resources

■ SWEDEN

- WaterInformationSystem Sweden (WISS)

■ EEA (European level)

- Near real-time air quality system (Ozone web and PM web)

The collected Practices represent different/combined environmental themes:

■ Air	4
■ Climate change	4
■ Land use	4
■ Biodiversity	7
■ Water	7
■ Soil	6
■ Forests	3
■ Waste	4
■ Chemicals	3
■ Natural resources	7
■ Noise	3

Some considerations can already be made:

Key-word	I) Creation of infrastructure II) Data harmonisation III) Organisational set-ups
Theme	Rather homogeneous distribution (see above)
Country/area	Country scope is generally national, with examples of wider coverage
Short description	A strong component of public information and involvement is usually present in the text of the description
Kind of practice	Mainly repositories and projects, but also catalogues and portals
Objectives vs. needs	Basic is the need of high quality repositories; also data dissemination and information to citizens is a general objective
Actors	It is worth to note that in general no external body is charged for data quality: producers (usually public bodies) are also responsible for validation and quality assessment
Users	In general, data producers are also primary users. In many cases there is a users' wide range, from research organisations and above all citizens (also as NGOs)

Metadata	Answers difficult to classify. However it is worth to quote: a) There are examples of parallel running projects (one for data, one for metadata) b) When data are accessed also metadata are given c) Language and terminology problems are present
Architecture	Different solutions; portals are very frequent
Services set-up	Mainly WMS
Funding	Mainly national
Years	Start from from 1999 to 2009, steady state 2003 to 2012
Future development	a) Harmonisation and further integration at the international level (e.g. INSPIRE) b) Upgrade of the available information c) Faster search
Lessons & recommendations	a) Is recommended further integration of thematic systems (for better and data mining, analysis and reporting) b) Metadata is essential c) Is recommended attention in integrating data from different sources (e.g. about different terminology and localization methods) d) Management problems found and divergences (priority, end-users, goals, leadership) e) Is very difficult to take into account the INSPIRE constraints in a national context f) Is crucial the technical coordination of actors

Good Practice: Next steps

- Upon the preliminary results, assessment of the template to get better classifiable answers (on going)
- Update of the Catalogue, enriched with a “second round” Good Practice collection (on going)
- Other runs will follow (the Good Practice collection is a living task, also with the aim to collect good operational practices in other EU Countries)

Good Practices presentations

- PortalU[®], a Tool to Support the Implementation of the Shared Environmental Information System (SEIS) in Germany (Fred Kruse, Stefani Uhrich, Martin Klenke, Christiane Giffei)
- SOSI Spatial Observation Services & Infrastructure (Gerhard Triebnig, Lubos Kucera, Stephan Meissl, Milan Novacek, Wolfgang Weghofer, Laszlo Zsidai)
- Species Map and Species Observation (Rengifo Zenon Ortega)