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The Information Dilemma - Tower of Babel or Valhalla?

Today we are facing a period unprecedented in history: information is available, it is easy to decipher and is accessible to all...

Or is it?

Are we going down the Babel way?

The most brilliant architects got together with the brightest inventions and plans..

But there were too many languages and they couldn't communicate. That killed the tower not the technology









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Current Situation

We have to move from a passive to active mode

Data – Information – Knowledge – Action

The Data Cycle is suffering from DRIPS

Data – Rich – Information - Poor Syndrome

Data are **expensive** and creators need to recoup costs. Cost effectiveness is creating cost-recovery measures through the use of copyright and access restrictions

Access is still restricted but has to change – various legislations have been enacted or are coming into force – Århus-INSPIRE-DP-FoIA







Data Creation Issues

Conceptualisation:

Try to define what is a direct reflection of the original concept of need – a difficult task indeed

Entitation:

Process by which we define the entities about which we wish to collect data

Quantification:

How rich is a rich dataset? Relative or absolute? Proxy or surrogate?

Validity:

Is data collected a close representation of reality? Acid-test for datasets of dubious origins

Composition:

Process by which combine individual indicators into a composite model: this is what we disseminate...

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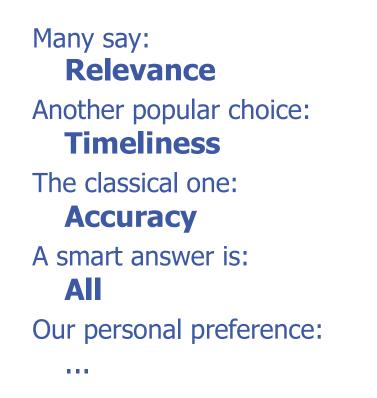








Which dimension is most important for Env Data?











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Terminology of Error for Env. Data

– before we try to implement Århus: Terms for consideration:

- Accuracy extent to which an estimated value approaches the true value
- **Precision** level of recorded detail
- Scale and resolution smallest size that can be displayed
- **Bias** systematic deviation from a norm or from the truth
- **Completeness** extent to which data is supplied for all component parts and time periods
- Temporal consistency repeated elements of the data handling process
- **Logical consistency** suitability of commands, operations and analysis
- Semantic accuracy quality with which objects are described
- **Repeatability** extent to which independent users can produce the same data or output







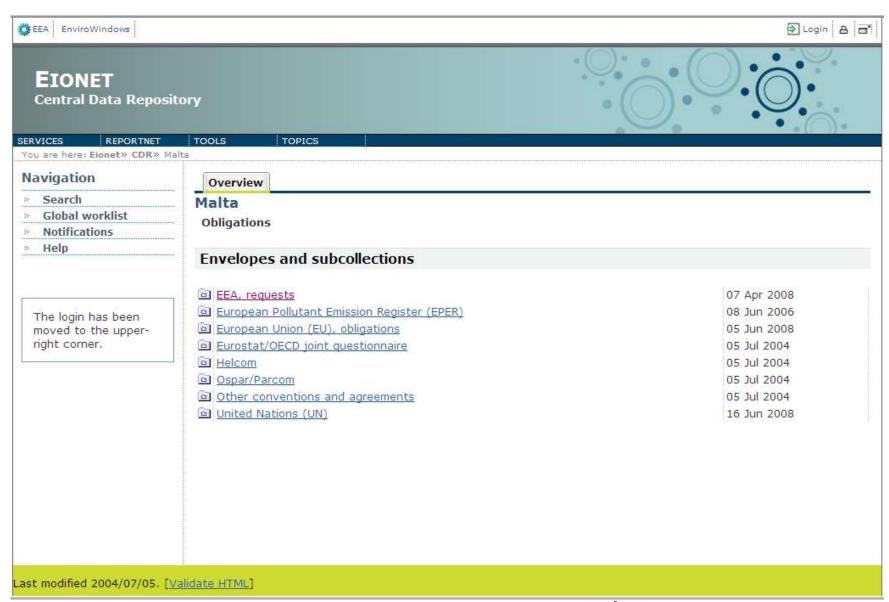
Initiatives and the Way Forward

- EEA EIONET Structure
 - Dataflow process implemented since 2003
 - Established structure:
 - NFP National Focal Point
 - PCP Principal Contact Point
 - NRC National Resource Centre
 - Data uploads using one of two options:
 - EEA CDR (Common data Repository)
 - CIRCA (country-based server system)
 - Malta's Environmental data is uploaded to the EEA and EU is available for public use and access
 - http://cdr.eionet.europa.eu/mt















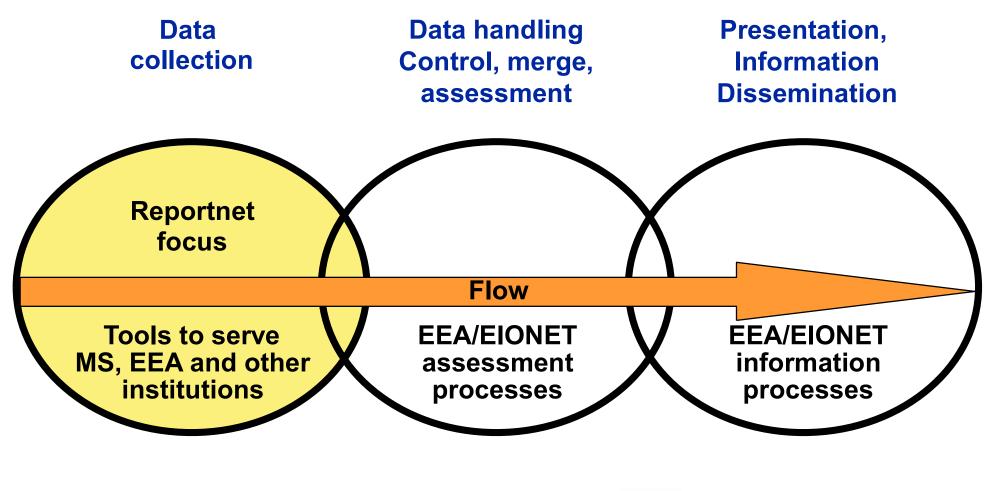
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The EEA Data & Information Case







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Dataflow Activities

Focus:

- identifying and reporting data for priority data flows annually

Actions - Done

- sourcing data and identifying gaps
- - identifying formats
- updating & validating information
- consolidating & submitting
- respecting target dates and deadlines









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Initiatives and the Way Forward The INSPIRE Case

- INSPIRE Directive
 - Implementation rules standardisation
 - National Data Infrastructure
 - Metadata
 - Spatial structures
 - Data Services
 - Discovery Services



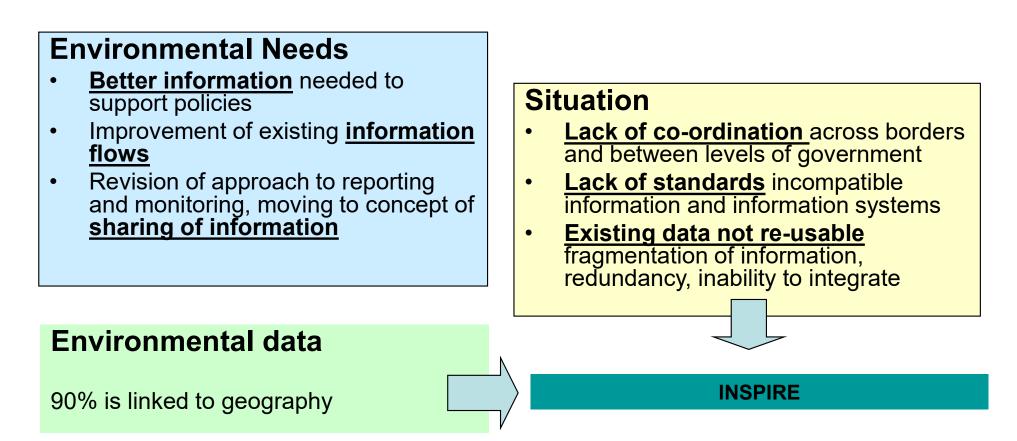




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The INSPIRE Case









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The INSPIRE Case

DEFINITION

"infrastructure for spatial information" means

- **metadata**, spatial data sets and spatial data services;
- **network services** and technologies;
- **agreements on sharing, access** and use;
- coordination and **monitoring mechanisms**, processes and procedures.









Two Categories of Data

The first category (annex I and II data): data for geo-referencing data in the second category. They have the status of "multi-purpose" spatial or basic data. High demands on harmonisation

The second category (annex III data): the **environmental data** They are needed in order to monitor and improve the state of the environment, including air, water, soil and

Limited demands on harmonisation







Annex I

Coordinate reference systems Geographical grid systems Geographical names Administrative units Transport networks **Hydrography** Protected sites

Annex I I Addresses of properties Cadastral parcels I and cover Orthoimagery

Annex III Statistical units census Buildings Soil Geology Landuse Human health and safety Governmental services and environmental monitoring facilities Classified sites (industry and agriculture) Population distribution – demography Area management and zones Natural risk zones Atmospheric conditions Meteorological geographical features Oceanographic geographical features Sea regions

Bio-geographical regions











DATA-SHARING AND RE-USE

Discovery services View services Download services Transformation services E-commerce services Additional services free of charge free of charge charging is possible free of charge to be available charging is possible

Community portal National portals

The Commission The countries (not mandatory)

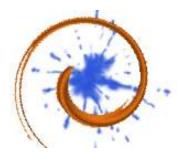
based on a service oriented architecture

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Structural Funds Monitoring Project

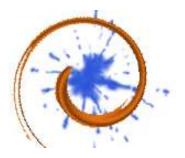
- Targeted EURmulti-million project 2 phases
 - New Information Systems
 - Data modules
 - Information structures
 - Cross-Discipline information management
 - Full Data Cycle
- Århus-related major dissemination processes





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Structural Funds Monitoring Project

- Air, Water and Soil Noise, Chemicals, Radiation
- Concentrates on Environmental functions with ICT services
- Emphasised information gap identification in monitoring processes
- Enhanced data cycle: sourcing, gathering, analysis, access and dissemination: GIS focus
- 2 phases composed of Supply and Service components with a number of acquisition sub-contracts







Initiatives and the Way Forward

- SEIS Group of 4 (EEA, JRC, DG-Env, EUROSTAT)
 - Shared Environmental Information Systems
 - Need for Certified Standards
 - Need for data-exchange
 - Need for expertise audit of data
 - Århus-related EU-wide Access standards
- Malta Harmonised and innovative approaches
 - E-Applications system
 - TL-SC for Env permitting and monitoring
 - Environment Information Online Portal









Implementing the process at the National Level

- Setup Stakeholders group
 - National Contact Point already in place
 - Setting up of a network
 - Stakeholders own the process
 - Data and Information made accessible on-line
- Functional MoUs, governed by Data Protection Act









MEPA Initiatives and the Way Forward

- E-Applications system
 - Planning Application details
 - Environmental Application and Registration details
 - Monitoring Information
 - Online operator self-monitoring reporting
- MEPA website and web services
 - Legislation and Policies
 - State of Environment Report (SOER)
 - Air Monitoring data and Ozone Web
 - MapServer with GIS information
 - Requests for environmental information
 - National Waste Register
- Near real-time information gathering







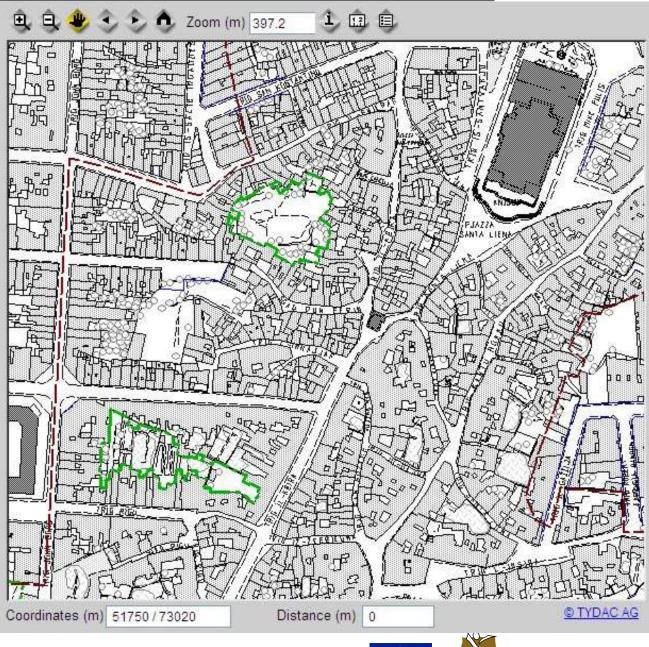


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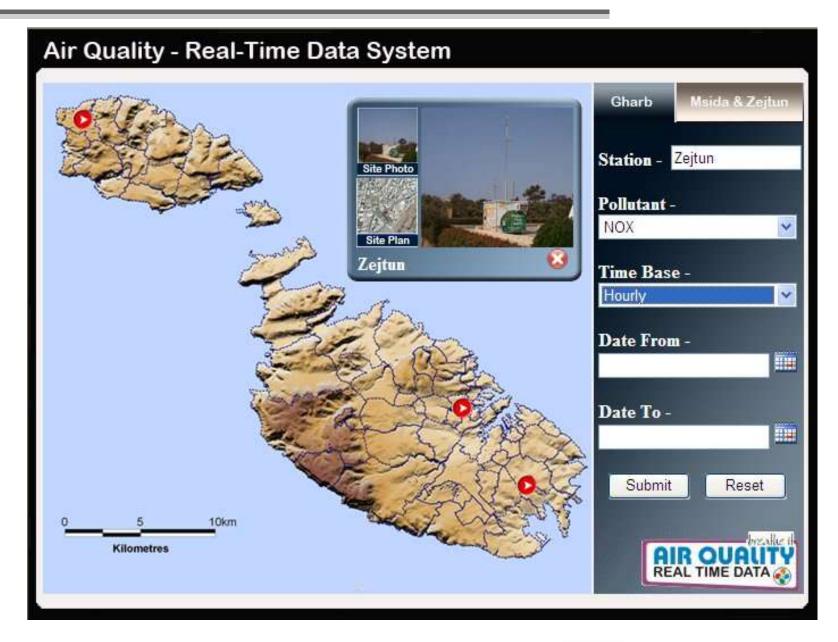


















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The MEPA Case Study

• Data needs to be identified and integrated in a dynamic structure

• Introduction of Quality systems: ISO for Admin and Standards for themes: ISOs/TCs, theme-specific QA/QC protocols

• An open structure rendering read-rights to all parties but only write-rights to the 'owner' stakeholder

• Introduce Metadata processes: use INSPIRE Directive and IR lineage systems based on Århus guidelines

• Data queries and requests (internal-external) require a one-stop structure

• Ensure security processes - storage on HDs/media policy









Getting There

- Invitation to Participate in the pilot project
 - Circa 5 participants from the agencies dealing with environmental information
 - Contact the Århus Project Team
 - Targeting the main environmental themes















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