

EIONET Workshop on Soil

ISPRA, It
4-5 March 2009

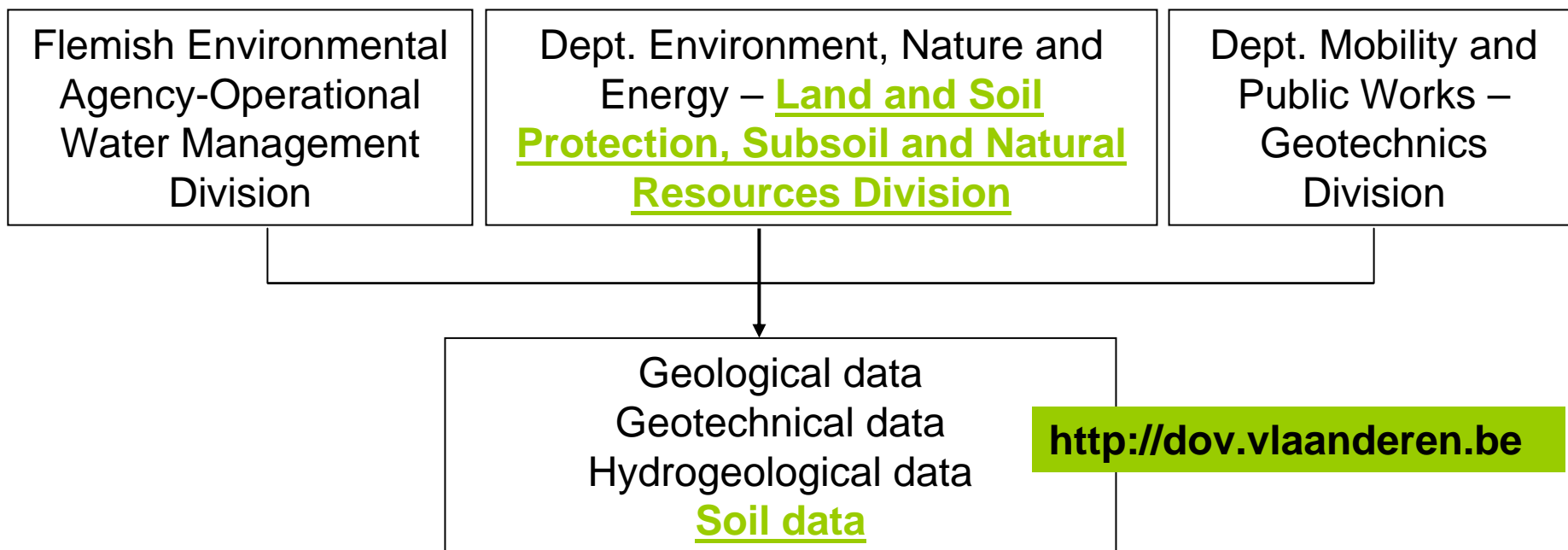
Belgium

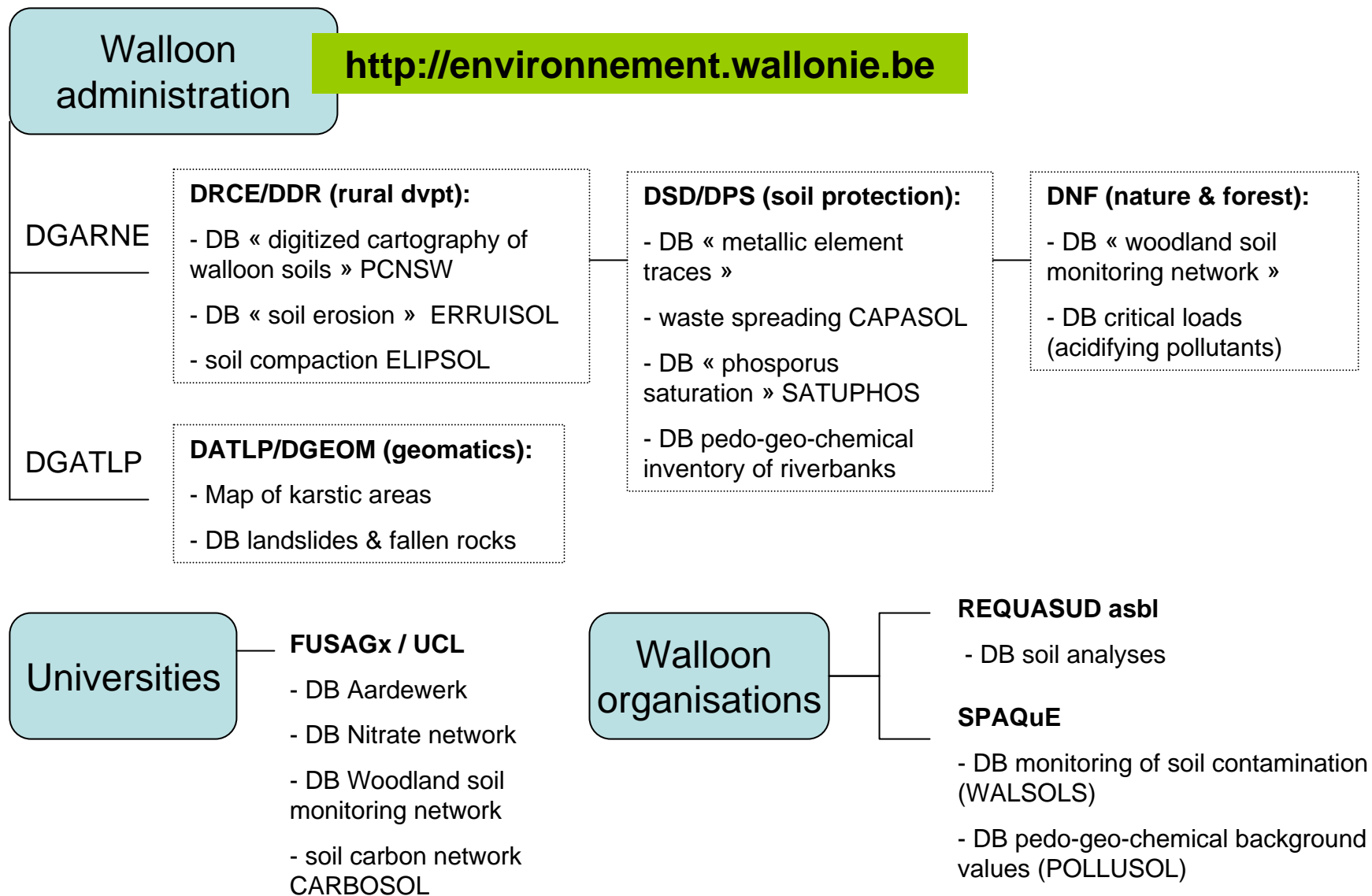
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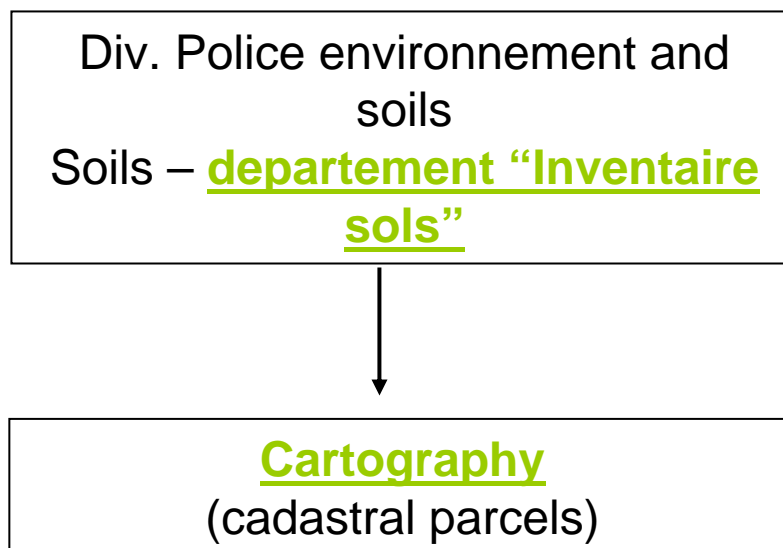
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- “Databank Ondergrond Vlaanderen” ([DOV](#))
 - = database for the subsoil and soil of Flanders
 - = cooperation between three entities of the Flemish government
- Openbare Vlaamse Afvalstoffenmaatschappij (OVAM) (<http://www.ovam.be>)
 - = database for soil contamination





- Brussels-Environment (IBGE-BIM) (<http://www.ibgebim.be>)
= database for (potentially) contaminated soils



- **Currently available datasets :**

- Soil data: soil map (soil agricultural suitability, soil texture and soil erodibility)
- Soil erosion and erosion mitigation measure
- Landslides (mapped landslides and landslide susceptibility)
- Soil contamination : - qualitymaps with backgroundvalues

Flanders
and Bru

- local point data (GIR : grondeninformatieregister)

- Soil data : pedological heritage

Wallonia
only

- Soil acidification : critical loads
- Soil organic matter decline

- **Future datasets :**

- Soil data : - soil database
 - parcel slope map
- Soil threats : - soil compaction
 - wind erosion

Wallonia
only

- Soil contamination : - systematic local point data (already available: filling station, garbage dump, SAR)

- **Data characteristics of currently available datasets :** **Contribution**
 - pedological heritage : polygon data (ESRI shp), related to a Access database
 - soil erosion : erosion risk map, polygon or raster data (ESRI shp)
 - soil erosion mitigation measures : polygon, polyline and point data (ESRI shp)
 - mapped landslides and landslide susceptibility : polygon data (ESRI shp)
 - soil contamination : - local point data : point data (ESRI shp)
 - quality maps with backgroundvalues : point data evenly distributed
 - soil organic matter: point data, polygon data (ESRI shp)

Rem: in Wallonia, interoperability format (Oracle Spatial) for all DB

- **Availability :**

- **External users** (e.g. engineering agencies, individuals, students, ...) :
 - DOV Internetviewer : free accessible on the Internet (<http://dov.vlaanderen.be>)
 - OVAM (<http://www.ovam.be/jahia/Jahia/pid/70>)
 - State of the Flemish Environment (MIRA)
- **Internal users** (within Flemish government) :
 - DOV Intranetviewer
 - Layerfiles
 - Services (image)
 - ArcGIS (direct connection to the database)

- **External users**
 - Portail cartographique de la Wallonie (<http://cartographie.wallonie.be>)
 - Portail SIG de la DGRANE (<http://environnement.wallonie.be/cartosig>)
 - State of the Walloon Environment (EEW)

ASAP : Internet viewer publishing the Erosion map and the Soil map

- **Internal users** (within Walloon government) :
 - Various Intranet viewers
 - Layerfiles
 - Services (image)
 - ArcGIS, STAR-APIC, etc. (direct connection to the interoperable database)

Flanders

Wallonia

- **Contribution to *EEA* :**
 - Updated datasets on “Progress in the management of contaminated sites” to support the EEA core set of indicators (Flanders).
 - GS Soil (Flanders) : kickoff project foreseen in may 2009
 - Follow up of the soil country analysis (within pilot countries)
 - Draft reports (within Soil Directive preparation)
 - European Soil Map (WRB)
 - Ramsoil
 - ENVASSO

- **Interests of Belgium:**

- Taking into account the philosophy and principles of the Soil Directive : data delivery but no obligation for monitoring measurements
- Streamlining of methods of calculation and modeling
- Harmonization of national nomenclature in WRB
- What about comparison of data between different EU members (quantity, quality of data, different scale levels make comparison difficult)? JRC must organize meta-data
- Uncertainty analysis for data quality assessment
- What are the limits of utilization of data?
- What will the data be used for?

- **INSPIRE in Flanders:**

- AGIV (the Agency for Geographic Information of Flanders) plays an important role in the preparation to realisation of INSPIRE as coordinator and manager of the GDI for the Flemish government.
- DOV gives thematic input to the single points of contact and participates as LMO.

- **INSPIRE in Wallonia:**

- For the time being, “Département de la Géomatique” (DGEOM) manages the cartography portal for Wallonia while DGARNE (General Directorate Agriculture, Natural Resources and Environment) manages environmental GIS portal.
- With other directorates, they work within the CTC (Cartography Technical Committee) to implement a RSDI (INFRASIG) for Wallonia linked with e-gov initiative.
- In Wallonia, the SPW (Service public de Wallonie) and especially DGEOM and DGARNE are responsible for the preparation and the implementation of INSPIRE.

- **INSPIRE in Brussels:**

- Brussels Environment, the Brussels Regional Informatics Centre and the Brussels Institute for Statistics and Analyses are responsible for the preparation of INSPIRE. They work in collaboration with other regional institutions.

INSPIRE Today and Tomorrow

- Interoperability
- Metadata
- Network services
 - Discovery services
 - View services
 - Download services
 - Transformation services
 - Invoke data services
- Data sharing



DOV today - LMO

- Exchange geo-viewers AGIV
- Partially AGIV, partially DOV
- Network services
 - DOV Viewer (<http://dov.vlaanderen.be>)
 - Partially AGIV
 - ArcGIS image/feature services
 - Attributes, reports, map prints
 - Transformation services
 - Invoke data services
- With other ArcGIS-users within Flemish government

INSPIRE Today and Tomorrow

- Interoperability
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- Data sharing



DGEOM - DGARNE

- Reference data - Thematic data
- MetaWall, compliant ISO
- Network services
 - MetaWall, compliant ISO
 - Partially DGEOM-Partially DGARNE
 - DGEOM
 - Transformation services
 - Invoke data services
- Since 2005, distributed GIS within the Walloon administration

INSPIRE Today and Tomorrow

- Interoperability
- Metadata
- Network services
 - Discovery services
 - View services
 - Download services
 - Transformation services
 - Invoke data services

- Data sharing



Brussels coordination

- Reference data - Thematic data
- Brussels Geoportal (ISO compliant)
- Network services
 - Brussels Geoportal (ISO compliant)
 - BRIC (to be developed)
 - *NGI*
- With other ArcGIS-users within the Brussels Region