







CzechGEO/EPOS

Section of Geological and Geophysical Databases

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Main activities

- Geological and geophysical data inventory, evaluation, consolidation and harmonization
- Access using the up-to-date technology
- Compliance to the relevant international standards (ISO, INSPIRE) and support of the European infrastructures (EPOS, EGDI, GeoERA)





Inventory

 of existing geological, geophysical and other relevant data maintained by CGS and other CzechGeo/EPOS participants (structured and unstructured data, paper documents and primary documentation)





Evaluation

- Evaluation of relevance to:
 - INSPIRE (Directive 2007/2/ES of the European Parliament)
 - EPOS (the European Plate Observing System)
 - -EGDI (European Geological Data Infrastructure)
 - -Support of the geoscience research





Consolidation

- Phases:
 - -Analysis
 - Data consolidation (optimised data management, data model, central code lists, processing schema, data validation, standards applied)
 - Incorporation to CGS-DRI and other systems
 - -Secured storage, backup and access





Standardized access

- Procedures to establish an effective access to already incorporated data sources
 - Metadata (ISO compliant provision of information on data resources)
 - Web services (discovery, view, download)
 - -Web applications (metadata catalogue, map applications, database applications)





International relevance

- INSPIRE
- EPOS
- EGDI
- GeoERA













EPOS

- the European Plate Observing System
- Implementation project H2020
- Since 2008 included to ESFRI (European Strategic Forum for Research Infrastructures)









- European Geological Data Infrastructure
- Aim: to be a sustainable platform for results of past and future European geoscientific projects and to enable access to European geoscientific data and services
- Strategy: to provide interoperable, harmonized geoscience information based on national knowledge and data





EGDI (2)



- is proposed to serve as a source of geological information from European geological surveys to other platforms as the European Plate Observing System (EPOS)
- Based on European and international standards (CGI, OGC, INSPIRE)
- CGS involved in core team (metadata catalogue)
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GeoERA (1)

- Aim: Establishing the European Geological Surveys Research Area to deliver a Geological Service for Europe
- Mission: 48 national and regional Geological Survey Organisations from 33 European countries have joined forces to develop an ERA-NET Co-Fund Action







Research topics:

- Geo-Energy
- Groundwater
- Raw Materials
- Information Platform



 Information Platform (GeoERA IP) is proposed as an extension of the EGDI to support the geoscientific work in the GeoERA projects





CzechGeo/EPOS Workshops 2017

- Metadata for 3D geological models
 - 22-23 February 2017, 11 participants from 5 countries
- INSPIRE geophysical data specification
 8-9 June 2017, 11 participants from 4 countries
- Metadata of geological and geophysical data resources in the CR and INSPIRE Directive
 - 20 September 2017, 11 participants from 4 organizations CzechGeo/EPOS





CzechGeo/EPOS – results 2017

- Inventory of data from CzechGeo/EPOS participants (version 1)
- Ongoing consolidation of geological and geophysical data of CGS
- Evaluation of data relevant to the INSPIRE data specifications
- Improving access to geological and geophysical data of CGS (web services, applications)





CzechGeo – next steps

- Geophysical data of other participants of CzechGeo/EPOS infrastructure:
- Finalization of data inventory
- Publication of metadata
- Evaluation of data regarding their relevance to INSPIRE
- Provision of metadata/services for INSPIRE, EGDI (EPOS)









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Thank you for your attention!

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