Czech Geological Survey (CGS) as a legally mandated organization (LMO) has been obliged by the INSPIRE directive to provide INSPIRE-compliant metadata for its data since December 2010. At the same time, static information about publicly available data sources was being maintained on the information portal of the CGS. This duplicity meant that information had to be updated by hand and in more places at the same time, which in fact was unsustainable in terms of providing up-to-date and high-quality metadata. Therefore, CGS took a new direction of developing its metadata system, which is based on a third-party product called MicKA (developed by HS-RS Ltd.). CGS aimed at connecting the metadata database with the information portal to enable an automated generation of different lists of data, services, and applications. For enabling this connection CGS extended the INSPIRE metadata profile with specific metadata elements. A new user-friendly application for accessing basic or full metadata about CGS data sources has also been created.

**CGS METADATA SYSTEM (based on MicKA system)**

- Viewing and searching application  
  `micka.geology.cz` – metadata filters, queries  
- Public/authorized user interface and possibilities

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**FUTURE PLANS**

- Structured views of metadata (basic metadata, full metadata), XML or HTML exports, validation of profile
- Central metadata database stored in the Central data Warehouse  
- Extended metadata Profile (National, Geological)

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**METADATA MINING**

- Structured presentation in CGS information portal `www.geology.cz` – thematic lists of map services and data sources  
- XML exports transformed by XSL templates are published via portlets in the Oracle portal

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**USER RIGHTS (READER/EDITOR)**

- Code lists
- Templates
- User rights

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**INTEROPERABILITY**

- Display of wms on the National INSPIRE Geoportal (CENIA)
- CGS metadata on the EU INSPIRE Geoportal (EU Commission)
- Harvesting (OGC CS-W)
- Structured views of metadata (basic metadata, full metadata), XML or HTML exports, validation of profile

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**CODE LISTS**

- ESRI
- User rights

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**DATA INTEGRITY**

- Central metadata database stored in the Central data Warehouse

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**XML EXPORTS**

- Validation of compliance to INSPIRE and Czech metadata profile

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**XML EXPORTS**

- XML export from metadata system

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**XML TEMPLATE FOR TRANSFORMATION OF XML EXPORTS**

- Basic Metadata System

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