



**Workshop on  
Implementing the United Nations Framework  
Classification for Resources (UNFC) in Southeast  
Europe**

**From ABC1 to UNFC  
&  
Slovenian experience**

**Belgrade, Republic of Serbia  
4 – 5 July 2024**

**Duška Rokavec, Ph.D.**  
**Geological Survey of Slovenia**  
Mineral Resources Department





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## Brief description of Slovenian “ABC1” mineral reporting system

“Classification and categorisation of reserves and resources” is process for classifying mineral reserves and resources regarding viability and level of geological knowledge / level of exploration works.

1. Classification is ranking of mineral reserves on the basis of technical-economic circumstances of future mining, into following classes:

economic, potential economic and non-economic reserves;

2. Categorisation is ranking of mineral reserves (within classes) on the basis of level of geol. exploration of deposit and knowledge of quantity and quality of mineral commodity,

into following categories:

A, B, C<sub>1</sub> reserves

and

C<sub>2</sub>, D<sub>1</sub> in D<sub>2</sub> for resources.



## Legislative background

- ❑ **Mining Act** (Official Gazette of the Republic of Slovenia, No. 14/14 – official consolidated version, 61/17 – BA and 54/22)
- ❑ **Book of regulation for classification and categorization of solid minerals** and their calculation (Official Gazette of the Republic of Slovenia, No. 3/20)
- ❑ **Book of regulation for classification and categorization of hydrocarbons** and their calculation (Official Gazette of the Republic of Slovenia, No. 3/20)
- ❑ **National Mining/Mineral strategy** (2018)



# “UNFC” documents in national language:

- *»United nations framework classification for resources -update 2019« - Slovenian translation,*
- *“Introduction into methodology of UNFC classification and bridging document in Slovenia” (2024)*
- GeoZS experts participates in:
  - INSPIRE expert group,
  - EGDI expert team,
  - MREG,
  - **UNFC network of practitioners (NoPe),**
  - **ABC1 group**
  - ...





# Mineral inventory

- ✓ Mineral inventory is the base for coherent and successful mineral management in every county
- ✓ Provision of mineral data for national resource management/planning is one of key role of national Geological Surveys





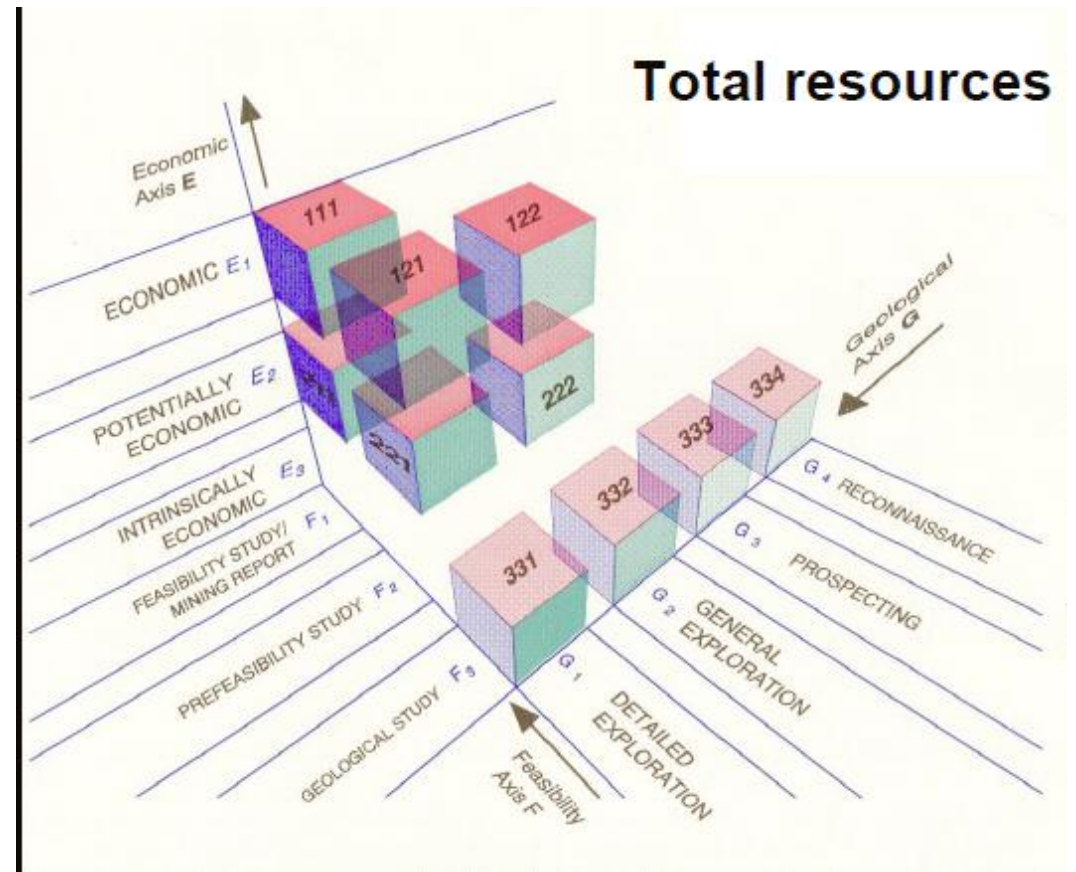
# Competences of national Geological Survey on mineral data

- **Primary raw materials data** are collected by **GeoZS** (via ministry)
- Collected data are valuated and put into “**Mining Registry Book**” (web application) by GeoZS
- The national **Mining Act mandates concessionaires/** mineral operators to provide data annually,
- **Annual Reporting forms** (digital + analogue) are basis for annual concession fees,
  - volume of extracted mineral commodities (t/m<sup>3</sup>)
  - degraded area (ha)
  - reserves/resources remaining in situ (m<sup>3</sup>).



# Data management on Reserves and Resources in Slovenia

- **National Mineral Reserves Classification** in official use,
- Reserves and resources are reported **only for areas under concessions**,
- **Summarised data** on production, reserves and resources are **public**,
- **Bridging documents** into UNFC codes are created by **GeoZS** experts,
- Reserves classifying is **on going process**; data are permanently up-graded.
- **applying UNFC system to report into pan-European mineral inventory and MineralYearBook**

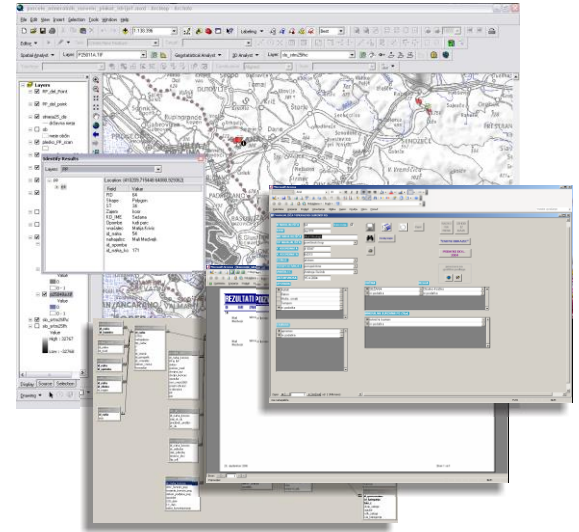






# Mineral Data accessibility

- The data is held/owned by the relevant Ministry
- They are stored on a **national centralized database** (GeoZS)
- The data is spatially referenced and **INSPIRE compliant**
- summarized data at the national level are open accessed via *Bulletin Mineral Resources*  
and
- web application "*Mining Registry Book*"



# Mining Registry Book- web application

<https://ms.geo-zs.si/en-GB>

- **open access** to public data on exploitation and mining areas with concession, expired, abandoned, historical....
- **official attributes**, documents and cadastre maps of mineral deposits
- **national and English language**
- **no charge** for data



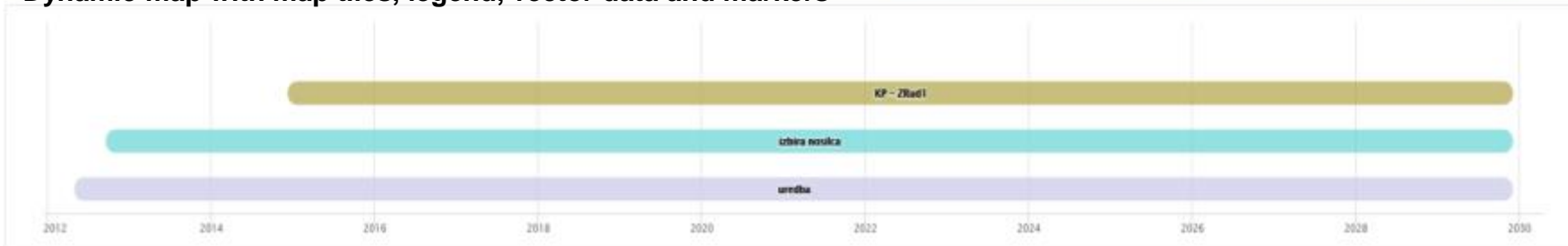
## Paka pri Velenju 2

<b>Rudarska pravica</b>	izkoriščanje
<b>Min. surovina</b>	tehnični kamen - apnenec in dolomit (5.12.2014-5.12.2029)
<b>Občina</b>	Mestna občina Velenje
<b>Koncesionar</b>	RGP d.o.o., rudarski gradbeni programi Rudarska cesta 6 3320 Velenje matična št. 5513065000, davčna št. SI81182791
<b>Površina</b>	12,1175 ha
<b>Pogodba</b>	ZRuč-1: 0141-47/2011-DE/26 5. december 2014 - 5. december 2029
<b>Uradni list</b>	30/12, zap. št. 12 79/14, zap. št. 1

[Prenesi karto prostora \(pdf\)](#)



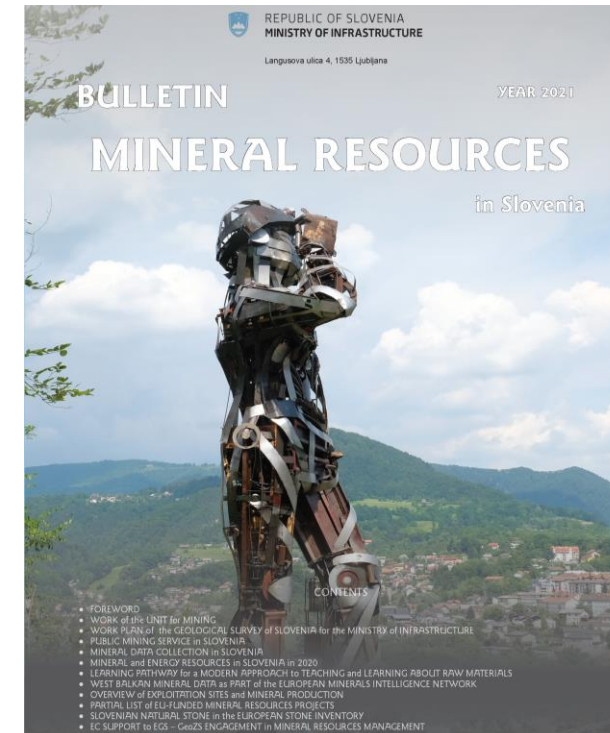
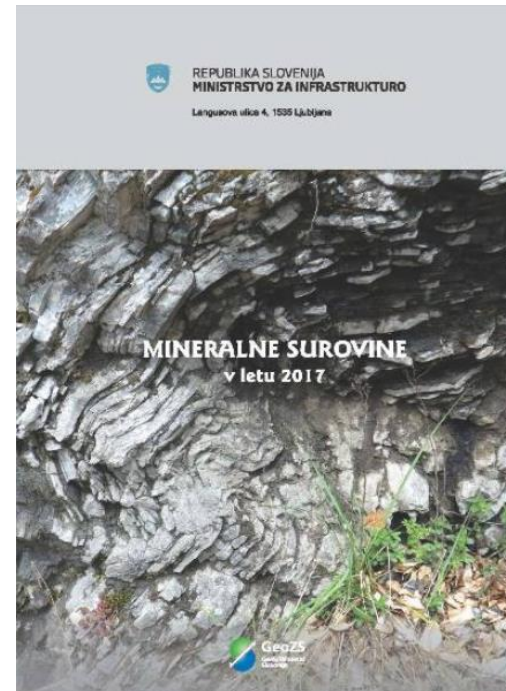
Dynamic map with map tiles, legend, vector data and markers



# Bulletin Mineral Resource

<https://www.geo-zs.si/index.php/en/products/publications2/periodicals/mineral-resources>

- annual publications (EN, SI)
- data on mineral production, reserves and resources summarised on national level





# Translation of national ABC1 system to UNFC

national categories	national classes	economic efficiency (CRIRSCO)	UNFC E <sub>axis</sub>	UNFC F <sub>axis</sub>	UNFC G <sub>axis</sub>	Explanation
economic reserves	A, B, C <sub>1</sub>	proved reserves	1	1	1, 2	Reserves A, B, C <sub>1</sub> , COULD BE EXPLOITED (in economic, environmental and social accepted way)
potentially economic reserves	A, B, C <sub>1</sub>		2	2, 3	1, 2	Reserves A, B, C <sub>1</sub> , could be exploited IN NEAR FUTURE after some changes (in economic, environmental and social accepted way)
non-economic reserves	A, B, C <sub>1</sub>	measured resources	3	3, 4	1, 2	Reserves that could NOT be exploited (due to economic, environmental, social or technical reason)
	C <sub>2</sub>	indicated resources	2	2	2, 3	Prefeasibility Resources
	C <sub>2</sub>	indicated resources	3	2	2, 3	Indicated Resources





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**Thank you!**

**THE VIEWS EXPRESSED ARE  
THOSE OF THE AUTHOR AND  
DO NOT NECESSARILY  
REFLECT THE VIEWS OF THE  
UNITED NATIONS**

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