

PanAfGeo+

Partnerships and Capacity Building

The Pan-African Support to Geological Sciences and Technology

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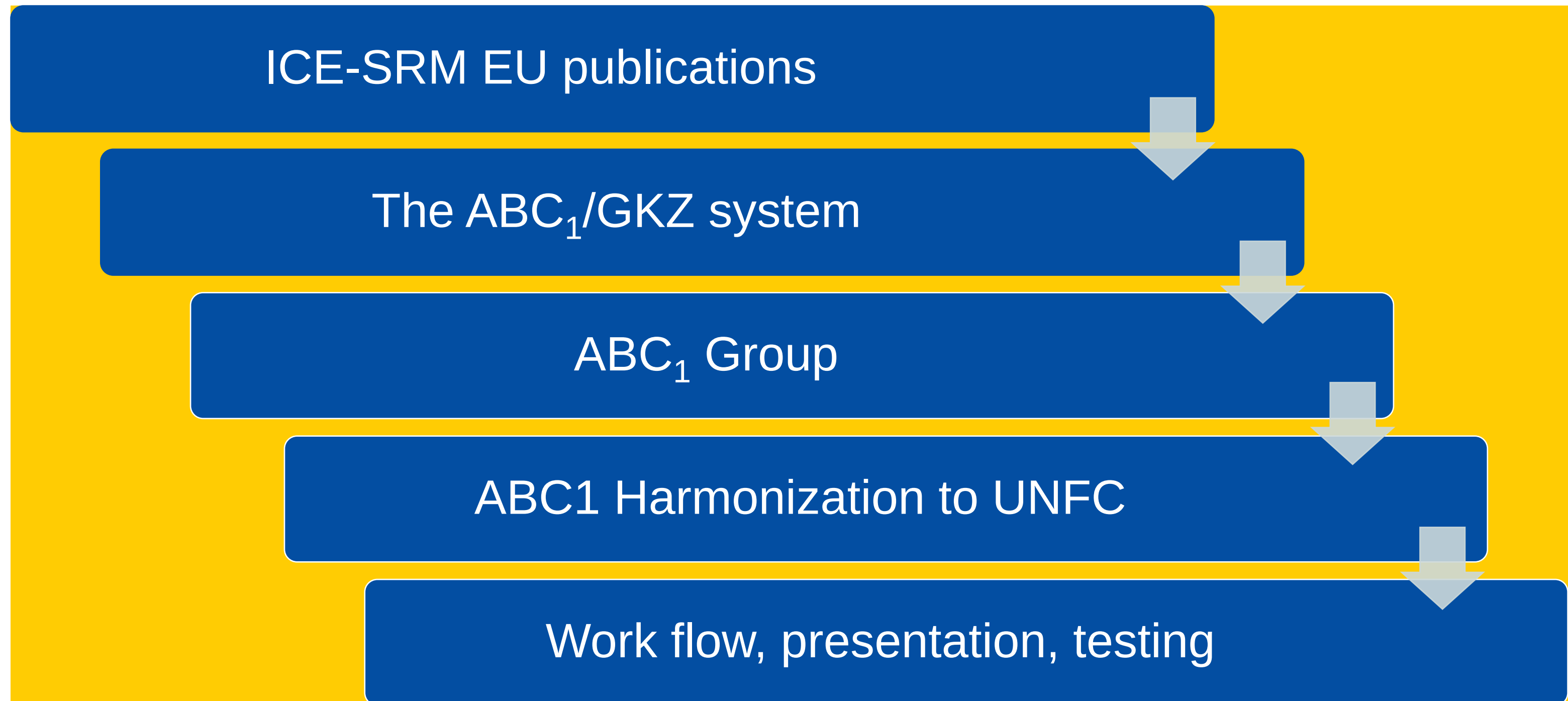
National AMREC/PARC – UNFC Workshop

Southern Sun Hotel, Pretoria, South Africa

12-13 May 2026

Harmonisation of ABC1 based national classification and mapping to UNFC

Content



ICE-SRM EU Publications:

(available on <https://ice-srm.eu/>)

How to organise UNFC trainings?

How to report on NEP results in UNFC?

How to map ABC₁ classification to UNFC?



ICE-SRM EU
IT Platform - with
UNFC E-learning platform,
network of experts, event
calendar and more...

UNFC Training
Roadmap - for
organisation of UNFC
trainings with guidelines
for each step

The ABC1/GKZ system

- The ex-Soviet ABC1/GKZ system of mineral deposit classification is common to most Eastern and some Central European countries
- Brief description (Slovenian example):
 - “**Classification and categorisation of reserves and resources**” is process for classifying mineral reserves and resources regarding viability and level of geological knowledge /net of exploration works.
 - Classification** is ranking of mineral reserves on the basis of technical-economic circumstances of future mining, into following classes: economic (*balanced*), potential economic (*conditionally balanced*) and non-economic (*out-of-balanced*) reserves;
 - 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, C1 for reserves and C2 , D1 in D2 for resources.
- Mapping and Guidance documents have been done in Hungary, Ukraine, Romania, Poland, and Croatia, Serbia and Slovenia.
- The mapping methodology was slightly different in each country
- Some countries have included UNFC into their legislation.

ABC₁ GROUP

- Created during ICE-SRM EU **UNFC Trainings 2024**
- Gathers European countries which use **ABC₁ or similar classification system** for their mineral resources.
- Goal: to **harmonise UNFC reporting of the ABC₁ countries**



This work supports the implementation of the Critical Raw Materials Act and broader European resource management goals.

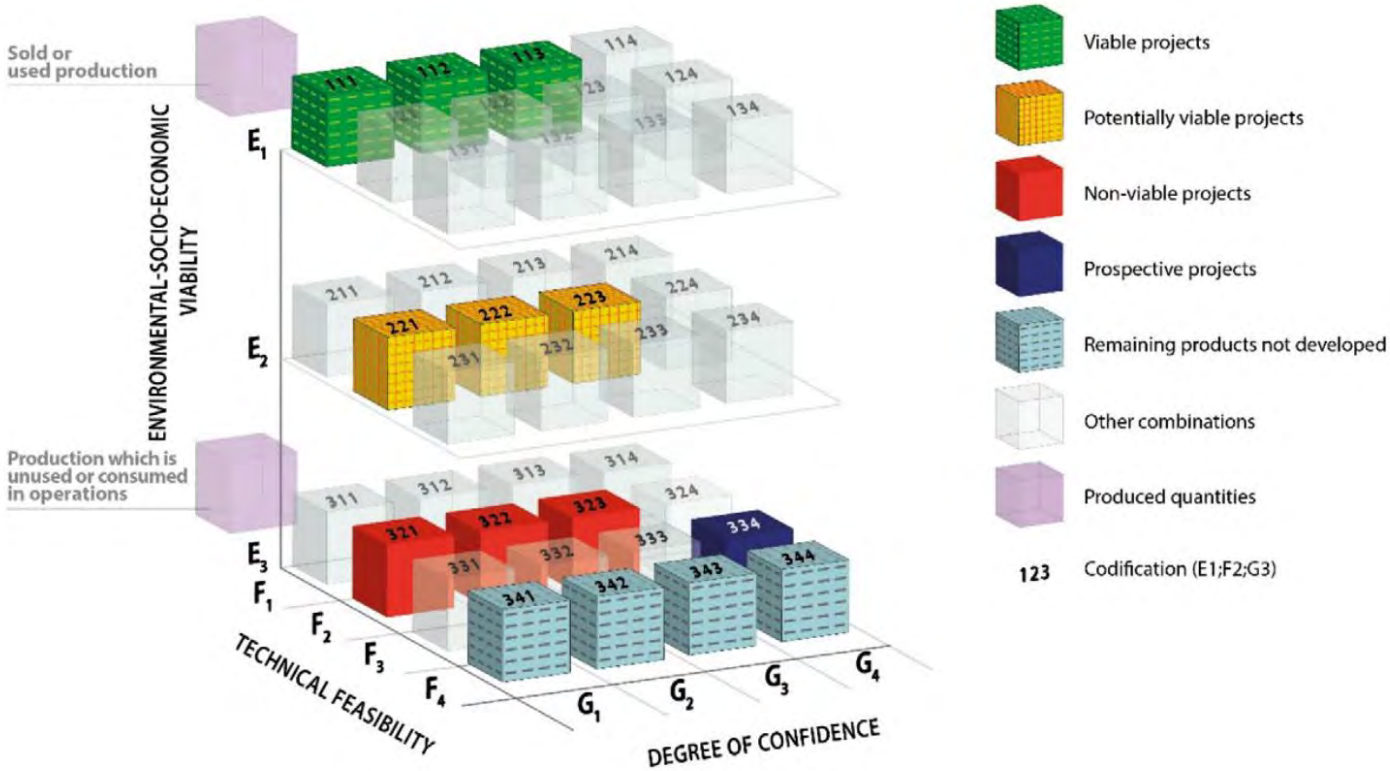
ABC₁ GROUP

Review/Discussion on the current situation

▪ Report from each country on UNFC status

- National classification (latest changes, classification particularities)
- National UNFC guidance status
- Challenges in mapping between national classification and UNFC
- Recommendations & experience to share

Classification (classes)	Categorisation (categories of reserves)	UNFC E _{axis}	UNFC F _{axis}	UNFC G _{axis}
Balanced	A, B, C ₁	1	1	1, 2
Conditionally balanced	A, B, C ₁	1,2	1,2,3	1, 2
Out-of-balanced	A, B, C ₁	3	2,3,4	1, 2



Preparing ABC₁ Harmonisation to UNFC – Croatia, Serbia, Slovenia

Work flow:

- Task force: **Croatia, Serbia, Slovenia**
- Work on national drafts in Croatia, Serbia and Slovenia
- Development of joint ABC₁ UNFC bridging table
- October 2025 - discussion on the ABC₁ UNFC bridging table by the ABC₁ group
- Creation of the **ABC₁ Harmonisation to UNFC** document
-  **doc is ready to be tested in other ABC₁ countries** (please see QR code)



ABC₁ Harmonisation to UNFC

Presentation of the ABC₁ Harmonisation to UNFC document



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Testing of the ABC₁ Harmonisation document in other countries

NATIONAL CLASSIFICATION			UNFC CLASSIFICATION			CRIRSCO Template			INSPIRE
Area	Viability Classification Feasibility Balance of reserves ¹	National class Categorization	E ²	F ²	G ³	Class Project ⁴	Sub-Class Project ⁴	Reserves / Resources	Code list
EMA ⁵	Active operation	A, B, C ₁ (BR/ER) ⁶	1 1	1 1.1	1,2 1,2	Viable	On production	G1 = Proved Reserves G2 = Probable Reserves	operating
EMA ⁵	Mine development is underway or due to start	A, B, C ₁ (BR) ⁶	1 1	1 1.2	1,2 1,2	Viable	Approved for Development	G1 = Proved Reserves G2 = Probable Reserves	under development
EMA ⁵ / RMA ⁵	Proven viability	A, B, C ₁ (BR) ⁶	1 1	1 1.3	1,2 1,2	Viable	Justified for Development	G1 = Proved Reserves G2 = Probable Reserves	pending approvals
EMA ⁵ / RMA ⁵ / NMA ⁵	Potential development Viability to be proven	A, B, C ₁ (BR/PBR/NBR) ⁶	2 2	2 2.1	1,2,3 1,2,3	Potentially ⁸ Viable	Development Pending	G1 = Proved Reserves / Measured Resources G2 = Probable Reserves / Indicated Resources G3 = Inferred Resources	feasibility evaluation
EMA ⁵	No active operation Potential Development	A, B, C ₁ (BR/PBR/NBR) ⁶	2 2	2 2.2	1,2,3 1,2,3	Potentially ⁸ Viable	Development On Hold	G1 = Proved reserves / Measured Resources G2 = Probable reserves / Indicated Resources G3 = Inferred Resources	care & maintenance
RMA ⁵ / NMA ⁵	Early stage of viability process ⁷	A, B, C ₁ (NBR) ⁶	3 3.2	2 2.2	1,2,3 1,2,3	Non-Viable	Development Unclassified	G1 = Measured Resources G2 = Indicated Resources G3 = Inferred Resources	resource assessment
RMA ⁵ / NMA ⁵	Technically feasible, but insufficient potential closed, historic mines	A, B, C ₁ , C ₂ (NBR) ⁶	3 3.3	2 2.3	1,2,3 1,2,3	Non-Viable	Development Not Viable	G1 = Measured Resources G2 = Indicated Resources G3 = Inferred Resources	not operating closed, abandoned historic mines
NMA ⁵	closed, historic mines	A, B, C ₁ , C ₂ (NBR+PR) ⁶	3 3.3	4 4	1,2,3,4 1,2,3,4	Remaining products ⁹		not applicable	closed, abandoned, historic mines
EEA ⁵ REA ⁵ NEA ⁵	prospection reconnaissance	C ₂ , D ₁ , D ₂ (NBR+PR) ⁶	3 3.2	3 3	4 4	Prospective Project		G4 Exploration Target G4 Exploration Results	
NEA ⁵		C ₂ , D ₁ , D ₂ Resources (PR) ⁶				Remaining products ¹⁰		not applicable (?)	

¹ Environmental-socio-economic viability

² Technical feasibility

³ Degree of confidence

⁴ Balance of reserves: Exploitation Reserves (ER) Balanced reserves (BR), Potentially Reserves (PBR), Out-of Balanced Reserves (Resources) (NBR), Potential Resources (PR),

⁵ Extraction, mining, exploitation area: Existing Mining Area (EMA), Requested Mining Area (RMA), No (Existing / Valid / Requested) Mining Area (NMA)

⁶ Potentially Viable Projects may satisfy the requirements for E1.

⁷ Recent discovery where significant further data acquisition will be required

⁸ Remaining products not developed from identified projects or prospective projects may become developable in the future as technological or environmental-socio-economic conditions change. Some or all of these estimates may never be developed due to physical and/or environmental-socio-economic constraints.

⁹ Exploration area: Existing Exploration Area (EEA), Requested Exploration Area (REA), No Exploration Areas (NEA)

¹⁰ Remaining products not developed from prospective projects



<https://ice-sm.eu/>

Thank you
Merci
Obrigada



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A EuroGeoSurveys Initiative

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