

Supplement 1. CRM evaluation and ranking

Commodity	High potential		Moderate potential	
	Class A (Mt)	Class B (Mt)	Class C (Mt)	Class D (Mt)
Bauxite (>50 % Al(OH) ₃)	≥ 1000	100–1000	10–100	1–10
Dolomite (MgO)	≥ 100	10–100	1–10	0.1–1
Baryte	≥ 5	1–5	0.2–1	0.05–0.2
Graphite	≥ 10	1–10	0.1–1	0.01–0.1
Rare earths (REO)	≥ 1	0.1–1	0.01–0.1	0.001–0.01
Borate	≥ 25	25–2	0.1–2	0.01–0.001
Lithium (metal)	≥ 0.465	0.465–0.0465	0.0465–0.0232	0.0232–0.00232

Criterion	High potential	Moderate potential	Indicative potential
Deposit size & grade (INSPIRE thresholds, Mt contained substance)	≥ Class B–A deposit (commodity-specific: e.g., ≥100 Mt bauxite; ≥10 Mt MgO; ≥1 Mt baryte; ≥1 Mt C; ≥0.1 Mt REO; ≥2 Mt borate; ≥0.0465 Mt Li)	Class C–D deposit range (commodity-specific: e.g., 1–100 Mt bauxite; 0.1–10 Mt MgO; 0.05–1 Mt baryte; 0.01–1 Mt C; 0.001–0.1 Mt REO; 0.01–2 Mt borate; 0.00232–0.0465 Mt Li)	INSPIRE unclassified: <Class D or occurrence/anomaly (commodity-specific: e.g., <1 Mt bauxite; <0.1 Mt MgO; <0.05 Mt baryte; <0.01 Mt C; <0.001 Mt REO; <0.01 Mt borate; <0.00232 Mt Li)
Geological knowledge & exploration maturity	well explored, reserve and resources defined	well-moderately explored, reserve and resources partly defined	reconnaissance stage
Mining status & processability	past/current mining or tested processing	past/current mining or tested processing usually exist	none
Infrastructure & permitting	favourable	favourable/locally constrained	unknown

Croatian commodities	Dolomite (MgO)	Bauxite	Barite	Graphite	Borate and lithium
Deposit size & grade (INSPIRE thresholds, Mt contained substance)	unlimited; ≥10 Mt MgO	Class D deposits (> 1 Mt Bauxite; >0.001 Mt ReO)	Class D deposits (> 0.05 Mt Barite)	Class D deposits (> 0.01 Mt Graphite)	unknown; estimation based on correlation with Serbia and Bosni and Herzegovina basins
Geological knowledge & exploration maturity	well explored, reserve and resources defined	well-moderately explored, reserve and resources partly defined	moderately explored, reserve and resources partly defined	moderately explored, reserve and resources partly defined	reconnaissance stage
Mining status & processability	under exploitation as construction material / no processing facilities	under exploitation as construction material / no processing facilities	past/current mining or tested processing	past/current mining or tested processing	none
Infrastructure & permitting	exisitng infrastructure / no permits for MgO	exisitng infrastructure / no permits for Al, ReO	no infrastructure / no permits	no infrastructure / no permits	unknown
Potential	High	Moderate	Moderate	Moderate	indicative