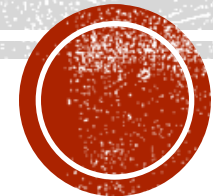


WP3 WORKSHOP CONSORTIUM EXPERT KNOWLEDGEE

WP3 – Data for raw materials intelligence capacity



Evi Petavratzi & Teresa Brown
MICA Kick-off meeting
04 February 2016

Using the consortium expertise to identify key topics/themes of interest to the MICA project.

- What key questions regarding raw materials are we as experts often required to provide answers and intelligence for?
- What data, methods, tools, contacts do we use to answer these questions? Are they readily available, or do we undertake research to provide the answers?

PART 1

- Review the short survey content and results
- Prioritise categories of interest
- Look at specific topics and generate example questions that stakeholders could potentially ask.
- Short survey on data availability and accuracy

PART 2

- Discuss WP3 data inventory structure and descriptors (metadata information)

PART 1: SURVEY RESULTS AND DISCUSSION



Part A Prioritising **categories** of interest relevant to raw materials intelligence

Critical raw materials

Raw materials

Services/ data for
companies

Industry structure

Urban mines

Raw materials policy

Environmental
considerations

Mineral exploration

International reporting

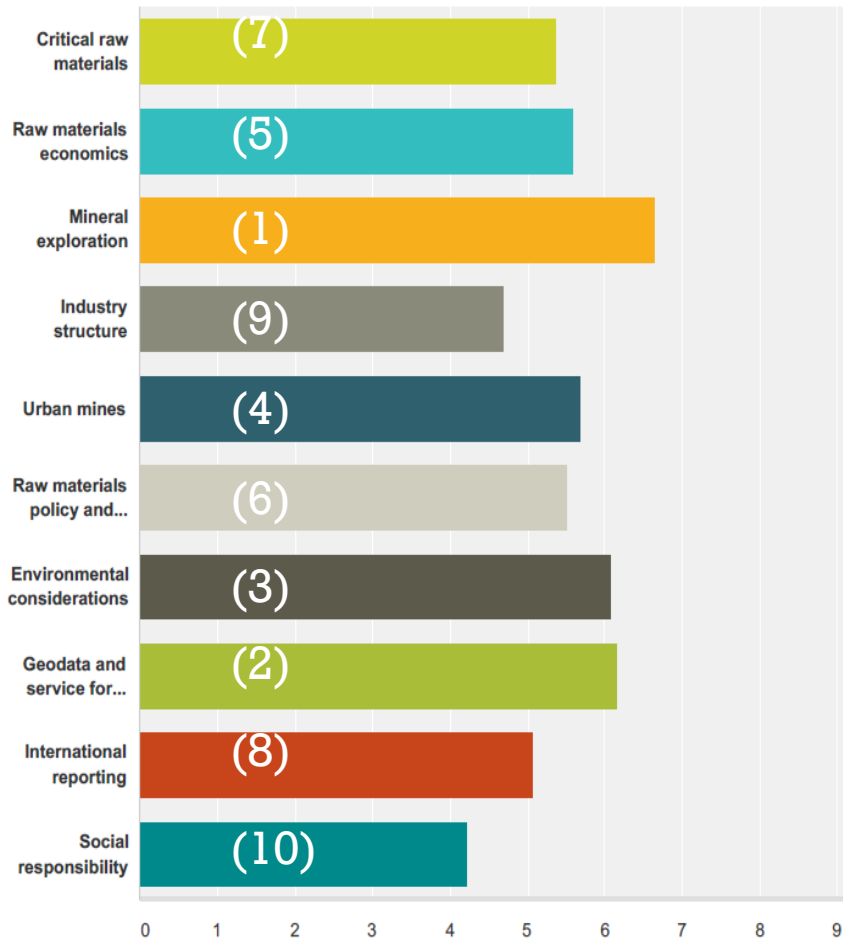
Social responsibility

Part B Ranking topics identified under the earlier mentioned categories on their importance to be included in MICA

Category	Topic	Less important	Quite important	Very important
Raw materials economics	Raw material statistics			
	Demand			
	Commodity prices			
	Production cost			
	Environmental cost			

(01/02/2016)

- 25 responses out of 31

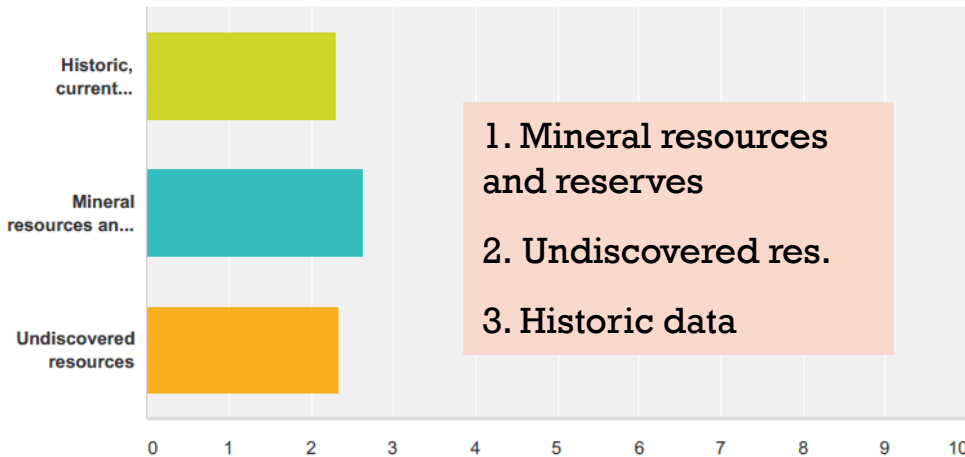


Categories prioritisation

1. Mineral exploration
2. Geodata and services
3. Environmental considerations
4. Urban mines
5. Raw material economics
6. Raw materials policy and legal framework
7. Critical raw materials
8. International reporting
9. Industry structure
10. Social responsibility

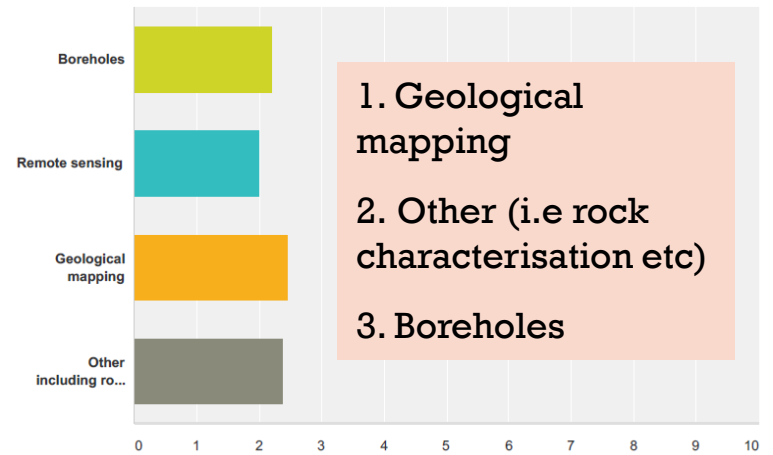
Q8 Mineral exploration (spatial and statistical data)

Answered: 24 Skipped: 8



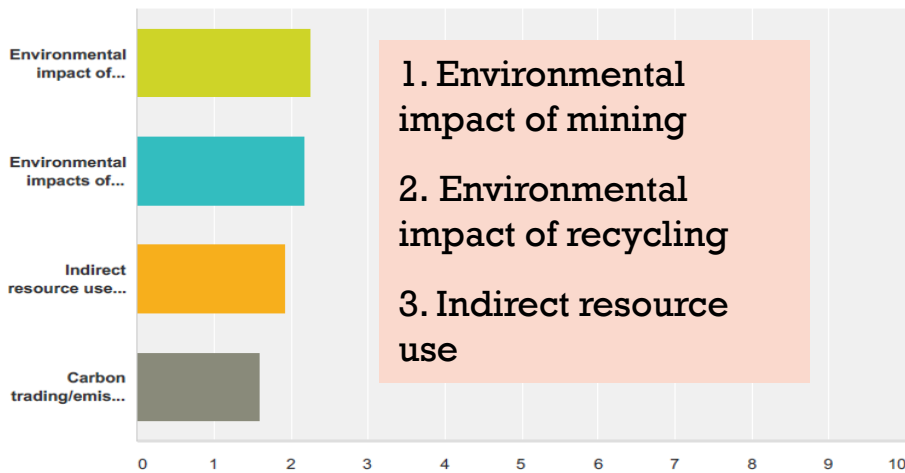
Q13 Geodata and services for mining and exploration companies

Answered: 24 Skipped: 8



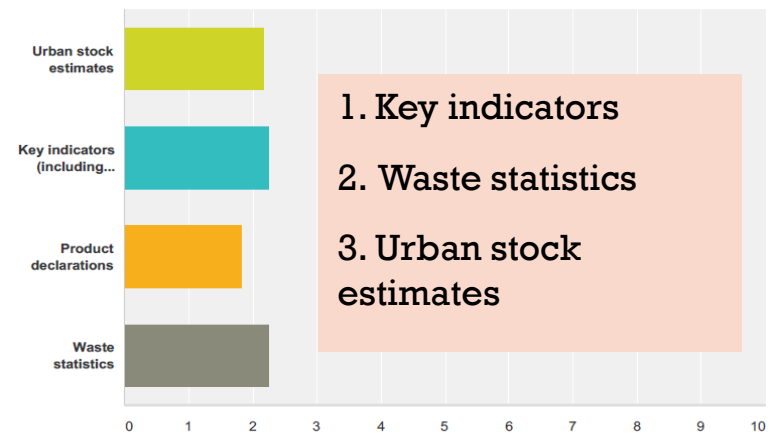
Q12 Environmental considerations

Answered: 24 Skipped: 8



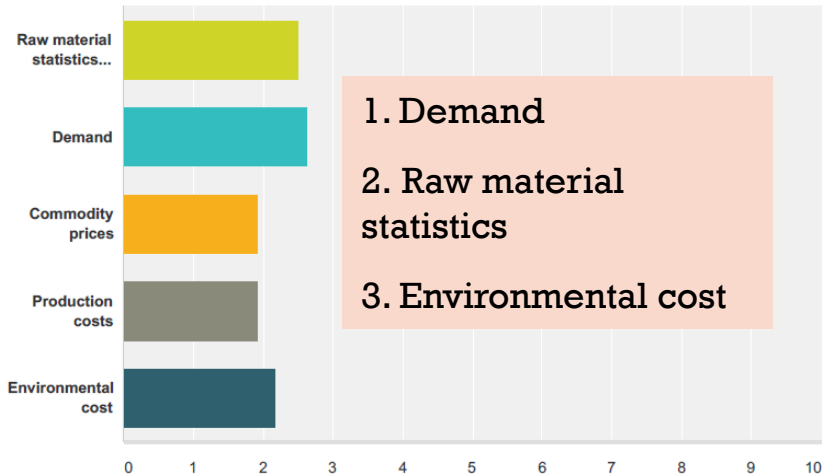
Q10 Urban Mines

Answered: 24 Skipped: 8



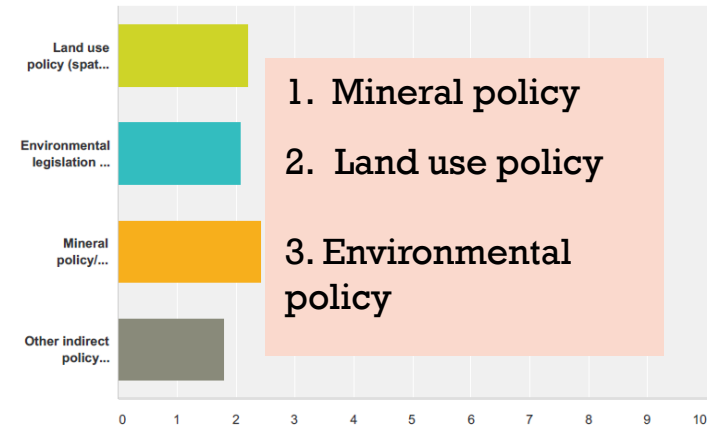
Q7 Raw materials economics (for primary and secondary RMs)

Answered: 24 Skipped: 8



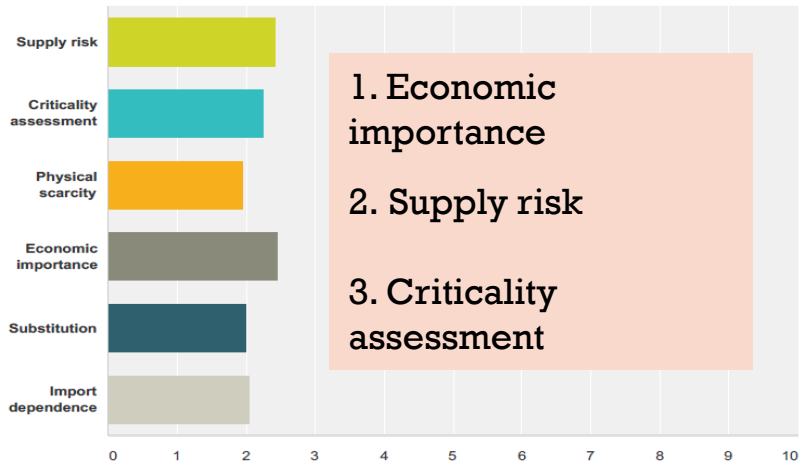
Q11 Raw materials policy and legal framework

Answered: 24 Skipped: 8



Q6 Critical Raw Materials

Answered: 24 Skipped: 8



Q14 International reporting

Answered: 24 Skipped: 8



Topics with high score (>50%) as ‘very important’

Category	Topic
Critical raw materials	Supply risk & Economic Importance
Raw material economics	Raw material statistics & Demand
Mineral exploration	Mineral resources and reserves & Undiscovered resources
Raw materials policy and legal framework	Mineral policy/ strategy
Geodata for mining/ exploration companies	Geological mapping & other including rock characterisation, geochemistry etc
Urban mines	Key indicators (but score = 45%)
Environmental considerations	Environmental impact of mining (but score= 38%)

Additional suggestions

Category	Suggestion
Critical raw materials	Economic characteristics, environmental impacts, recycling potential
Mineral exploration	Scenarios for demand and supply Availability of relevant data
Environmental considerations	Energy footprint, LCA, metal requirements of renewable energy systems
Geodata and services for mining and exploration companies	Influences of resource estimation Geophysics; Metallogenic studies; location of mineral deposits
Raw materials economics	Supply
International reporting	LCA data

Q1: How many of the identified categories should the MICA project consider?

Q2: Which ones should be of higher importance to MICA and why?

Q3: Are there any additional categories that we should add to the list?

What questions would stakeholders ask under the identified categories and topics of interest?

Work with your group to identify at least one question for the following categories.

GROUP A

Critical raw materials

Raw materials
economics

Mineral exploration

Industry structure

Urban mines

GROUP B

Raw materials policy

Environmental
considerations

Services/ data for
companies

International reporting

Social responsibility

SUMMARY OF GROUP WORK



SHORT SURVEY ON DATA AVAILABILITY

Please complete the questionnaire provided and
return it to the WP3 team

Thank you



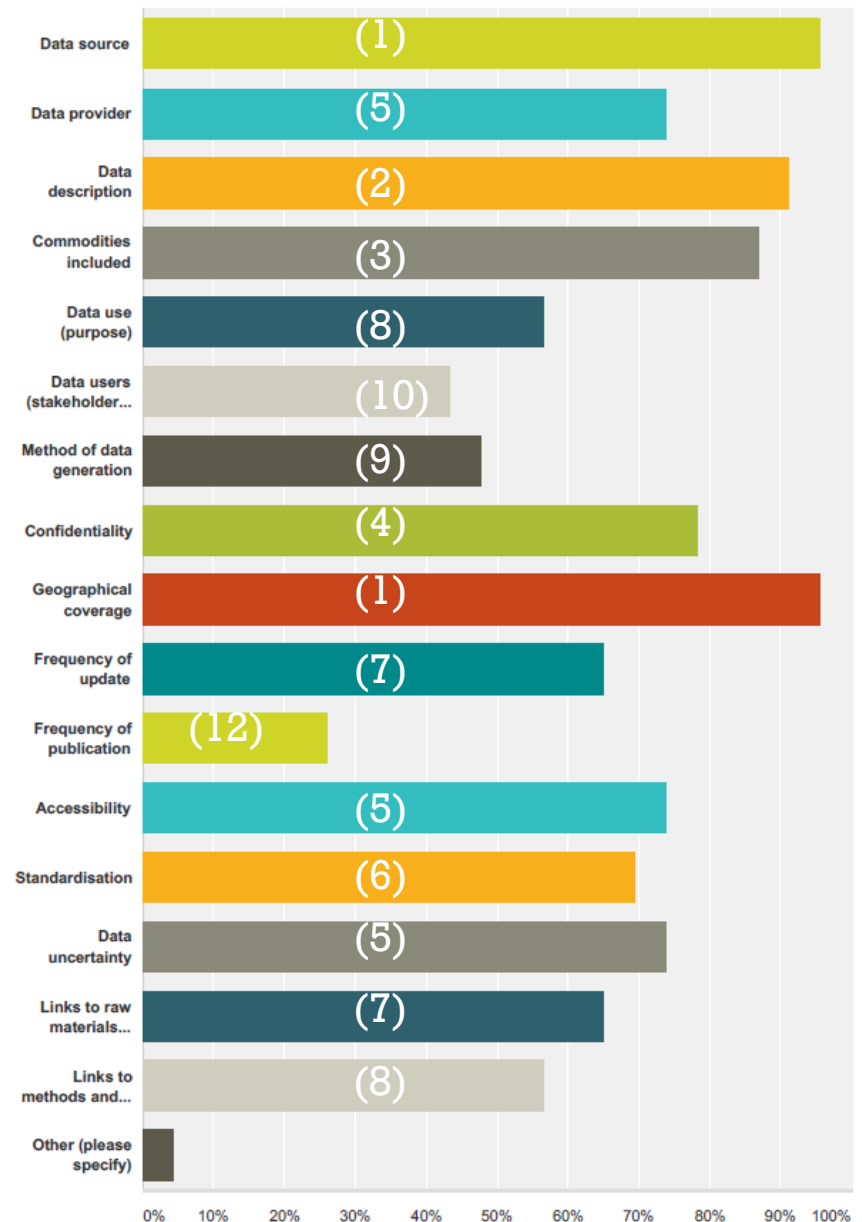
PART 2: DISCUSSION ON THE WP3 DATA INVENTORY



Part C Define the data descriptors you would like to see included in the data inventory

Data inventory descriptors	
Data source	Geographical coverage
Data provider	Frequency of update
Data description	Frequency of publication
Commodities included	Accessibility
Data use (purpose)	Standardisation
Data users (stakeholder groups)	Data uncertainty
Method of data generation	Links to raw materials intelligence topics (identified in this survey)
Confidentiality	Links to methods and tools identified in WP4

1. Data source & geographical coverage
2. Data description
3. Commodities included
4. Confidentiality
5. Data uncertainty, Data provider & Accessibility
6. Standardisation
7. Links to raw materials intelligence topics & Frequency of update
8. Links to raw material tools and methods & Data use
9. Method of data generation
10. Data users (stakeholder groups)
11. Frequency of publication



Q1: Are the identified descriptors sufficient to describe the variety of datasets relevant to raw materials?

Q2: In your opinion, would these data descriptors assist stakeholders to identify data of interest?

Q3: Will the identified descriptors facilitate the mapping of datasets to tools and methods (WP4)?



MICA Mineral Intelligence
Capacity Analysis



Co-funded by
the European Union

THANK YOU FOR YOUR COOPERATION

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