



EU Official Mining Statistics What can be improved?



MIN-GUIDE Policy Laboratory 5
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Unit C2 - «Resource Efficiency and Raw Materials»

Raw
Materials

- 1. The need for data on non-energy RM**
- 2. Proposal. Revision of PRODCOM statistics**
- 3. Other potential improvements**



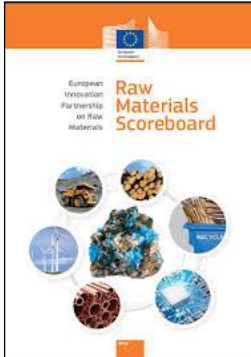
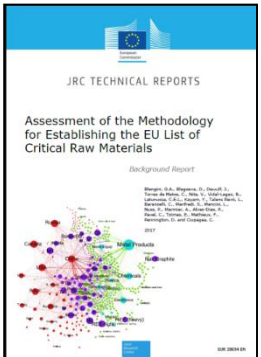
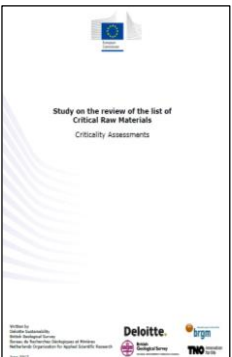
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1. The need for data on non-energy RM

Some examples

EU activities relevant for policy making need data

- Criticality assessment
- Circular economy monitoring framework
- Raw Materials Information System
- Economy-wide Material Flow Accounts (EW-MFA)





Criticality assessment – Example: fluorspar

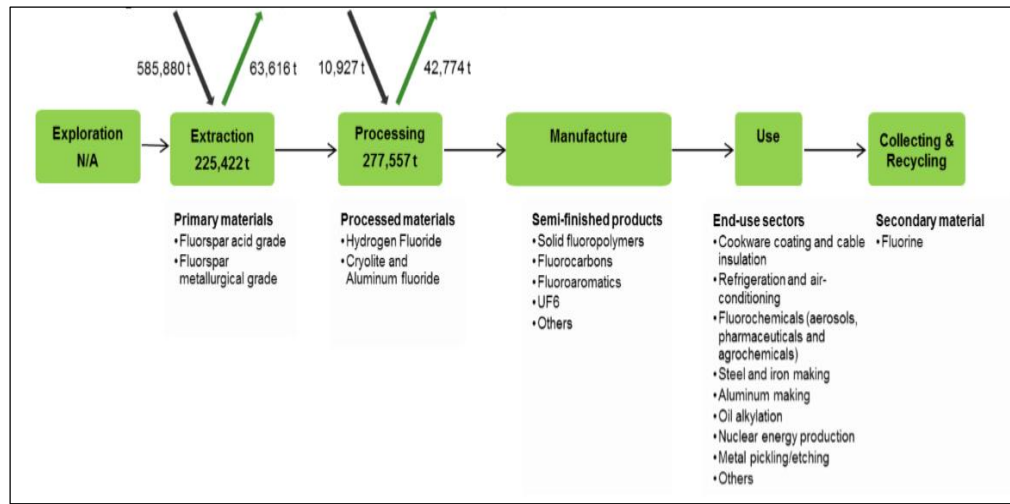


Figure 1 - Simplified value chain for fluorspar
 (Source: Study on the review of the list of CRM, 2017. CRM factsheets)

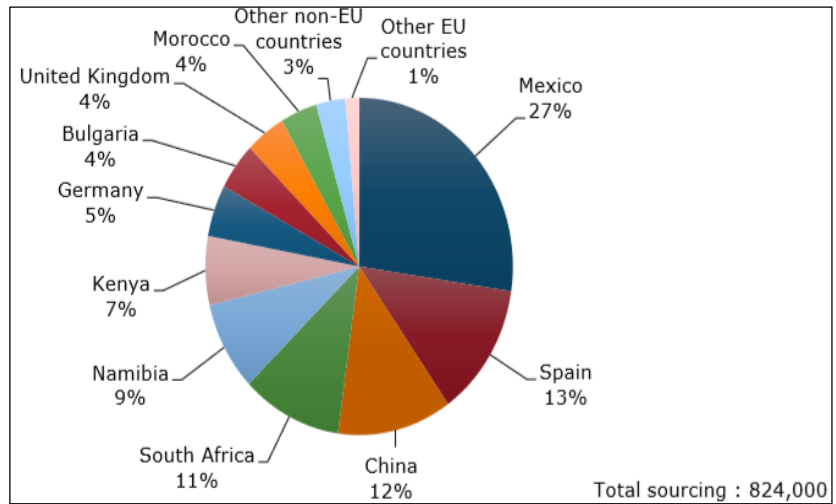


Figure 2 - EU sourcing (domestic production + imports) of fluorspar, average 2010-2014. (Data from (Eurostat, 2016a; BGS, 2016))
 (Source: Study on the review of the list of CRM, 2017. CRM factsheets)



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2. Proposal. Revision of PRODCOM statistics

Regulation 2017/2119 on "PRODCOM list"

Provide data on the **production of manufactured goods**.

Production of non-energy raw materials is included.

The following indicators are provided:

- **Sold Production:** Products produced and sold by an enterprise.
- **Total Production:** Sold production + production retained by the producer for further processing +/- stock variation.
- **Industrial services:** No physical products, but work carried out on manufactured products in different industries

PRODCOM	Description	Physical unit	Reference in table
NACE 07.10	Mining of iron ores		
CPA 07.10.10	Iron ore		
07.10.10.00	Iron ores and concentrates (including roasted iron pyrites)	kg	5
NACE 07.29	Mining of other non-ferrous metal ores		
CPA 07.29.11	Copper ores and concentrates		
07.29.11.00	Copper ores and concentrates	kg	5
CPA 07.29.12	Nickel ores and concentrates		
07.29.12.00	Nickel ores and concentrates	kg	5
CPA 07.29.13	Aluminium ores and concentrates		
07.29.13.00	Aluminium ores and concentrates	kg	5
CPA 07.29.14	Precious metal ores and concentrates		
07.29.14.00	Precious metal ores and concentrates	kg	5
CPA 07.29.15	Lead, zinc and tin ores and concentrates		
07.29.15.00	Lead, zinc and tin ores and concentrates	kg	5
CPA 07.29.19	Other non-ferrous metal ores and concentrates n.e.c.		
07.29.19.00	Other non-ferrous metal ores and concentrates	kg	5
NACE 08.11	Quarrying of ornamental and building stone, limestone, gypsum, chalk and slate		
CPA 08.11.11	Marble and other calcareous ornamental or building stone		
08.11.11.13	Marble and travertine, crude or roughly trimmed	kg	7
08.11.11.16	Marble and travertine merely cut into rectangular or square blocks or slabs	kg	7
08.11.11.50	Essentine and other calcareous ornamental or building stone of an apparent specific gravity > 2.5	kg	7
CPA 08.11.12	Granite, sandstone and other ornamental or building stone		
08.11.12.33	Granite, crude or roughly trimmed	kg	7

Main constraints of PRODCOM data

Level of aggregation is such that it is not useful

Relevant raw materials are not considered

Data are not aligned (disaggregation level) **with:**

- Trade statistics
- Economy-wide Material Flow Accounts
- National statistics

Data can be displayed as

- Ore (mining production)
- Concentrate (mineralurgical production)

PERIOD	2008Q2	2009Q2	2010Q2	2011Q2	2012Q2
	PRODVAL	PRODVAL	PRODVAL	PRODVAL	PRODVAL
DECL					
France	8,449,000	7,138,000		11,989,000	19,864
Netherlands	0	0	0	0	
Germany	0	0	0	0	
Italy	0	0	0	0	
United Kingdom	0	0	0	0	
Ireland	0	0	0	0	
Denmark	0	0	0	0	
Greece	0	0	0	0	
Portugal	0	0	0	0	
Spain	0	0	0	0	
Belgium	0	0	0	0	
Luxembourg	0	0	0	0	
Finland	14,820,345	28,398,790	46,258,478	63,084,332	103,619
Austria	0	0	0	0	
Estonia	0	0	0	0	
Latvia	0	0	0	0	
Lithuania	0	0	0	0	
Poland	0	0	0	0	
Czech Republic	0	0	0	0	
Slovakia	0	0	0	0	
Hungary	0	0	0	0	
Romania	0	0	0	0	
Bulgaria	0	0	0	0	
Slovenia	0	0	0	0	



Proposal - Breakdown PRODCOM codes

Further breakdown of PRODCOM codes relevant to non-energy raw materials
 Follow trade codes. Only if necessary, create new codes

Regulation 2017/2119 'Prodcom list'

CPA: 07.29.15	Lead, zinc and tin ores and concentrates	External trade nomenclature reference for 2016 (HS/CN)	PRODCOM	Description	External trade nomenclature reference for 2016 (HS/CN)
07.29.15.00	Lead, zinc and tin ores and concentrates	2607, 2608, 2609	07.29.15.00	Lead, zinc and tin ores and concentrates	
			07.29.15.**	Lead ores and concentrates	2607 00 00
			07.29.15.**	Zinc ores and concentrates	2608 00 00
			07.29.15.**	Tin ores and concentrates	2609 00 00

Regulation (EU) 2017/1925 on the tariff and statistical nomenclature and on the Common Customs Tariff



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3. Other potential improvements



Supplement Mining and quarrying

Mining and quarrying statistics - NACE Rev. 2 | Statistics Explained

Data extracted in April 2017. Most recent data. Further statistical information, Main tables and Database - Planned article update: October 2018.

This article presents an overview of statistics for European Union (EU) mining and quarrying, covering NACE Rev. 2 Section B. It belongs to a set of statistical articles on "Business economy by sector".

Indicator	Value
Number of persons employed	1 217
Number of persons employed (Excluding)	24 244
Number of full-time employees	22 024
Part-time employees are average (EU-28) (thous)	19 174
Number of full-time employees	41 200
Number of persons employed	11 100
Number of persons employed (Excluding)	412
Number of full-time employees	1 4
Number of persons employed	100
Number of persons employed (Excluding)	1117
Number of persons employed (Excluding) (thous)	441
Number of persons employed (Excluding) (thous)	218
Number of persons employed (Excluding) (thous)	181

Source: Eurostat (Business Statistics: EU-28, 2014)

Table 1: Key indicators, mining and quarrying (NACE Section B), EU-28, 2014 (Source: Eurostat (deminind2))

Figure 1: Sectorial analysis of mining and quarrying (NACE Section B), EU-28, 2014 (% share of sectoral total) (Source: Eurostat (deminind2))

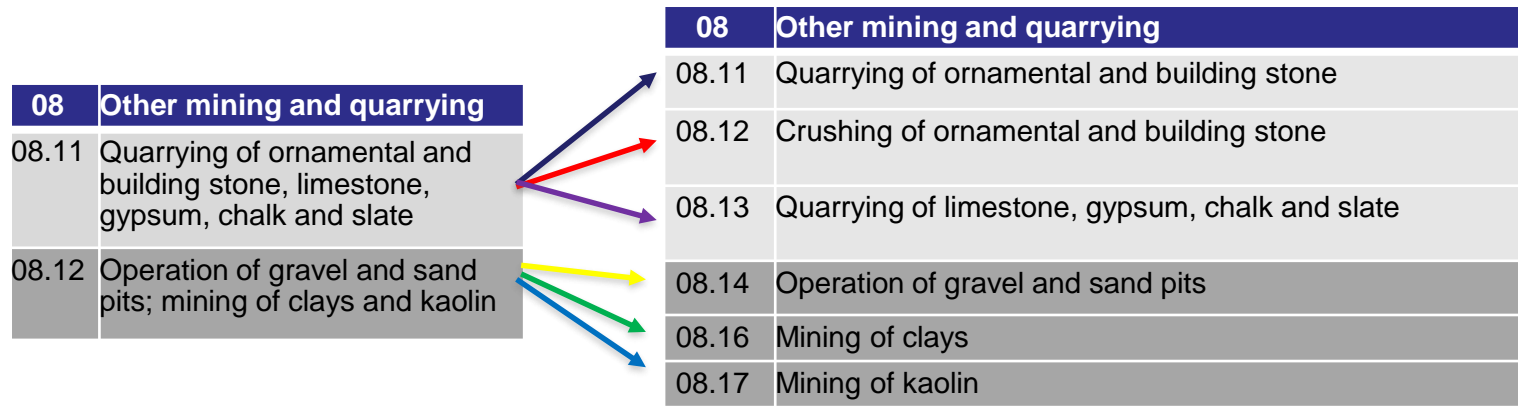
Source: Statistics Explained (Data: <http://ec.europa.eu/eurostat/statisticsexplained/>) - 21/09/2017

- Published by Eurostat yearly
- Separate energy and non-energy minerals
- Company size by subsector
- Services activities by subsector
-



Breakdown NACE codes

NACE is the statistical classification of economic activities in the EU



Other examples

07.29 - Mining of other non-ferrous metal ores (mining; preparation, ore dressing and beneficiation;....)

09.90 - Support activities for other mining and quarrying (exploration projects; draining and pumping; test drilling;..)



Primary raw materials. Reporting codes

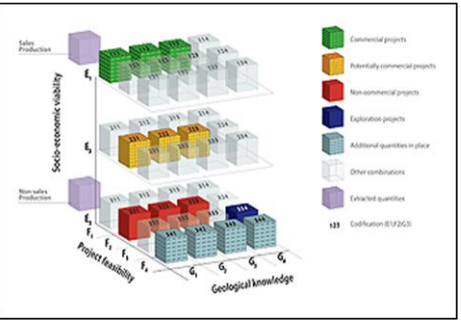
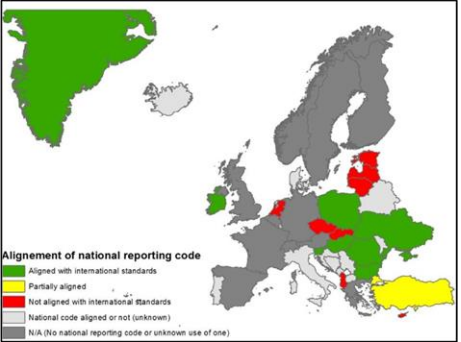


Overview

- Different reporting codes for resources and reserves in MS
- Difficult to compare and harmonize data between MS

Roadmap (Minventory study, 2015)

- States report according to State-specified Code of practice
- Voluntary State-level alignment of data to EU-level system of reporting (UNFC system, or CRIRSCO template)
- EU-level, data harmonisation and redaction
- EU level data publication



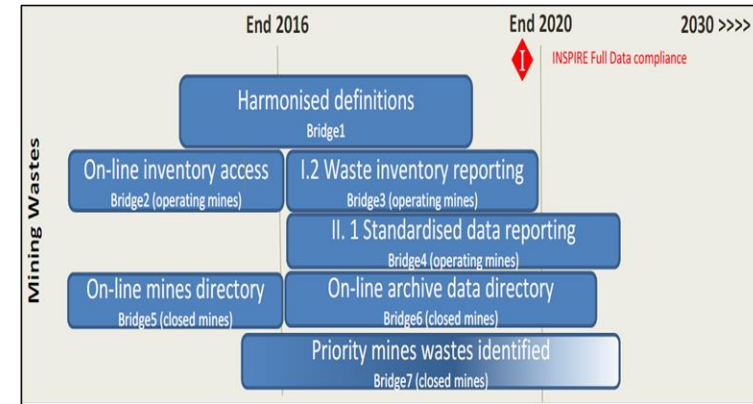


Mining waste

Overview

- Some **reporting requirements in Mining Waste Directive (2006/21/EC) may provide information on resource availability**
- **Inventories focused** on identifying **hazards**
- **MWD requires facilities to report** on the waste being treated or stored in terms of the **EU List of Wastes (2000/532/EC)**.
- **Useful materials** inventory **knowledge may be lost**
- **Closed and abandoned mine sites** has **interest** in respect of mining **waste associated**
- **Data** available on mining waste **are not reported** using **international standards**

Mining waste roadmap



Other potential improvements

- **Health and safety statistics**
- **Regulation (EC) 808/2004 on statistics on the information society**
- **Secondary raw materials**
- **Exploration projects classified by level of maturity**
(grass roots, late stage, mine development)
- **Model socioeconomic impact of mining projects**
- **Extraction sites in Europe by raw material**
- **Land used/restored by mining activities**
- **INSPIRE directive**
-



3rd Raw Materials Week

(Brussels, 12 - 16 November 2018)

The banner features the European Commission logo in the top left corner. The main text "Raw Materials Week" is in a large, bold, orange font, with the dates "12-16 November 2018" below it. A central graphic consists of a large white circle containing a recycling symbol, surrounded by eight smaller circles connected by lines, each containing an icon representing a different aspect of raw materials: a wind turbine, an airplane, a tree, a crane, a forklift, a smartphone, a factory, and a house. The bottom of the banner has a decorative border of green and blue hexagons.

Presentations of RM Week 2017 available on:
http://ec.europa.eu/growth/content/raw-materials-week-2017_en

Thank you!!

EU raw materials:

http://ec.europa.eu/growth/sectors/raw-materials/index_en.htm

EIP on Raw materials:

<https://ec.europa.eu/growth/tools-databases/eip-raw-materials/en>

Horizon 2020 - Raw materials webpage:

<http://ec.europa.eu/programmes/horizon2020/en/area/raw-materials>

H2020 Participant portal

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

Horizon 2020 – EXPERTS:

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

EIT Raw materials: www.eitrawmaterials.eu



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Back-up slides