



MINING the  
EUROPEAN  
ANTHROPOSPHERE



MinFuture



Workshop on

# **Fundamentals for anthropogenic resource assessment on national level**

18. September 2018, Vienna

# Mineral Raw Materials

Iron and Ferro-Alloy Metals  
Non-Ferrous Metals  
Precious Metals  
Industrial Minerals (incl. diam)  
Mineral Fuels

World Production 2016

**17 billion tons**

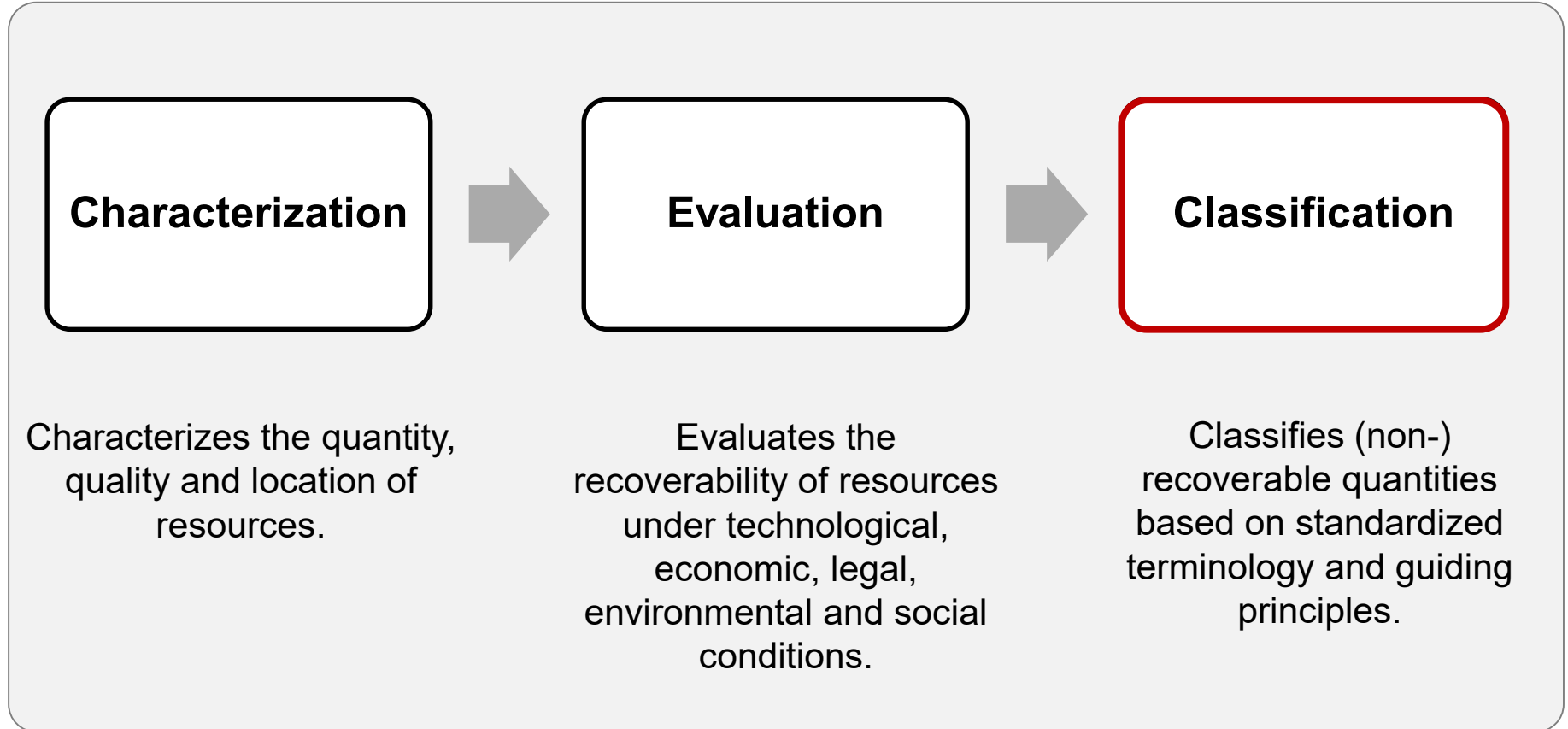
Reichl, C., Schatz, M. and Zsak, L. (2018). World Mining Data 2018. Vienna.

Future Production

**? billion tons**

Resources and their availability for  
future production  
are estimated with  
resource assessments.

# Resource Assessments



# United Nations Framework Classification for Resources (UNFC)

## **Resources**

UNFC covers minerals and petroleum, renewable energies, geological storage, anthropogenic resources.

## **Methodology**

UNFC categorizes quantities based on three criteria:

- Confidence in the estimates (G-Axis)
- Socio-economic viability (E-Axis)
- Field project status and Feasibility (F-Axis)

UNFC classifies the categorized quantities with respect to the maturity level of the recovery project.

# Goals

- (1) Getting a common understanding on the objectives, benefits and challenges of using the UNFC
- (2) Developing a generic framework for anthropogenic resource assessments
- (3) Giving an outlook on the implementation and institutionalization of anthropogenic resource assessments on national level

# Program overview

Time	Activity	Location
09:00 – 17:00	Workshop	Technische Universität Wien
18:00	Dinner	Gasthaus Woracziczky

# Agenda

## morning sessions

Time	Session / topic	
	Registration	
	Welcome	
09:00	20'	<b>Welcome and workshop overview</b> Approval of the agenda Tour de table
	Session 1	
09:20	20'	<b>Introducing the UNFC</b>
09:50	30'	Questions & answers
10:20	20'	<i>Break</i>
	Session 2	
10:40	20'	<b>Demonstrating the application of the UNFC with respect to copper in buildings (generic case study)</b>
11:00	1h 30'	Discussing the following questions <ul style="list-style-type: none"> <li>• Is the current version (methodology and terminology) of the UNFC appropriate to classify anthropogenic resources on national level?</li> <li>• If not, what are the barriers?</li> <li>• How to overcome the barriers?</li> </ul>
12:30	1h	<i>Lunch (served in the workshop room)</i>

# Agenda

## afternoon sessions

Time	Session / topic	
Session 3		
13:30	20'	<b>Proposing a generic framework for anthropogenic resource assessment</b>
13:50	1h 30'	Discussing the following questions <ul style="list-style-type: none"><li>• Is there a need for generic framework for ARA?</li><li>• Is there a need for changing the proposed framework?</li><li>• What should be the outcome of the phases in the “value chain” and the “assessment”?</li><li>• How can the phases be defined/described?</li></ul>
15:20	20'	<i>Break</i>
Session 4		
15:40	40'	<b>Outlook on</b> <ul style="list-style-type: none"><li>• Research activities.</li><li>• Institutionalization of anthropogenic resource assessments on national level.</li></ul>
Session 5		
16:20	40'	<b>Dissemination activity:</b> <ul style="list-style-type: none"><li>• Does the workshop has the potential for publishing the findings in a co-authored, peer-reviewed paper?</li><li>• If yes, which title and scope is appropriate?</li></ul>
17:00	<i>End</i>	



# **Tour de table**

1. Name & Affiliation
2. Role in MinFuture / MINEA
3. Main interest in the workshop