

# Metnet

## European Pilot Plant Network for Extractive Metallurgy and Mineral Processing

Prometia, Barcelona, 28-29 November



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European Pilot Plant Network for  
Extractive Metallurgy and Mineral  
Processing

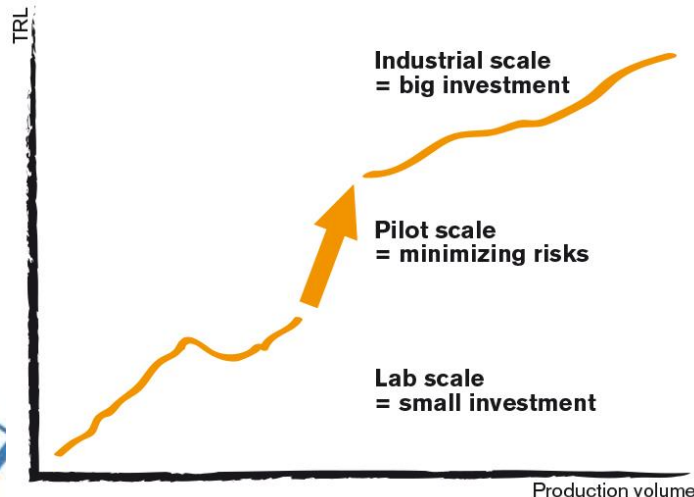
EIP Raw Material commitment  
NoI - EIT Raw Materials

[www.metnet.eu](http://www.metnet.eu)



# Metnet - the bridge between lab and industrial scale

- Overall solution for development, validation and upscaling of new processes and technologies under industrial conditions
- Mineral and metallurgical upscaling infrastructure capability from raw materials to metals
- Processing chain integration by combining expert qualification and pilot plant equipment from different sites offering a unique testing environment



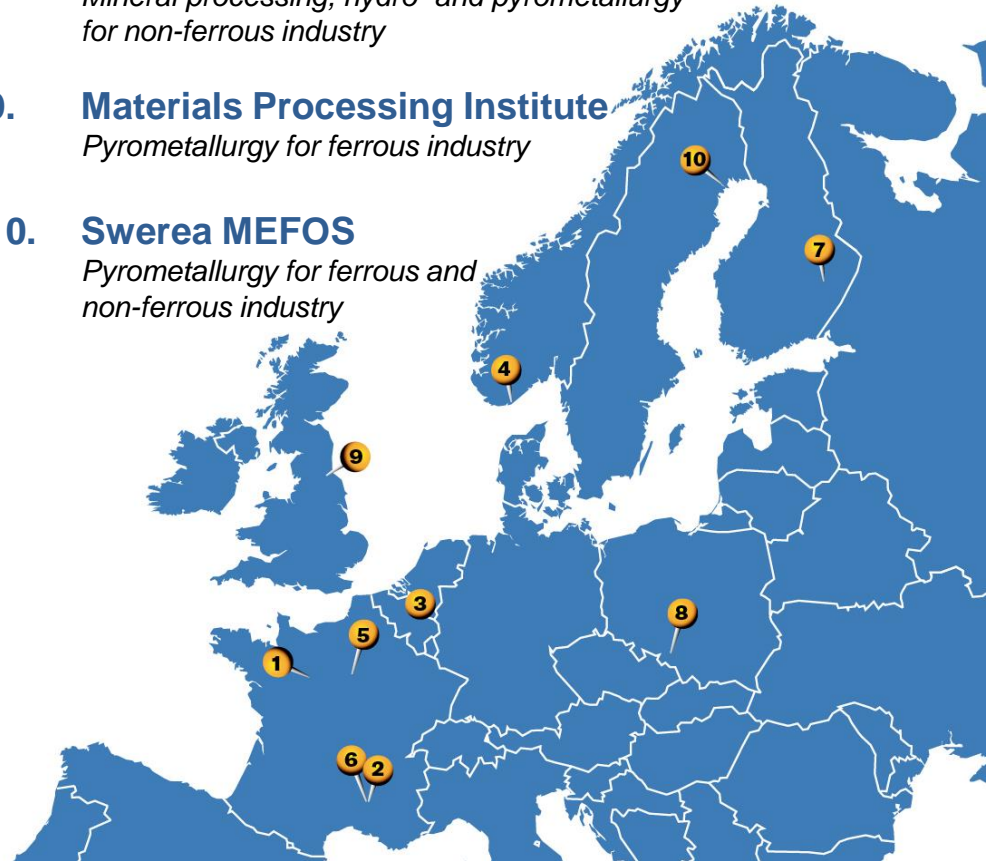
## BENEFITS

- Easy access by single point contact
- Cluster of expertise
- Cross-sectorial competence and equipment
- Wide scope and flexibility
- Technical guidance
- High confidentiality
- Financial guidance for funding opportunities
- Good track record up to highest TRL (across the valley of death)
- Minimize technical and financial risk
- Accelerate development into industrial use



# The strength lies in cooperation

- 1. BRGM**  
*Processing of minerals and secondary materials*
- 2. CEA**  
*Hydrometallurgy for non-ferrous industry*
- 3. CRM**  
*Pyrometallurgy for ferrous and non-ferrous industry*
- 4. Elkem Technology R&D Technical Center**  
*Mineral processing and pyrometallurgy for ferrous and non-ferrous industry*
- 5. Eramet Research**  
*Mineral processing, hydro- and pyrometallurgy for ferrous and non-ferrous industry*
- 6. Extractive**  
*Mineral processing and hydrometallurgy for non-ferrous industry*
- 7. GTK**  
*Processing of minerals and secondary materials*
- 8. IMN**  
*Mineral processing, hydro- and pyrometallurgy for non-ferrous industry*
- 9. Materials Processing Institute**  
*Pyrometallurgy for ferrous industry*
- 10. Swerea MEFOS**  
*Pyrometallurgy for ferrous and non-ferrous industry*



# Networking activities

Develop offer and communicate to potential customers

- Map competences and equipment of the network
  - Missing competence and equipment identified
  - Support from a group of industrial end users

# Activities

Develop offer and communicate to potential customers

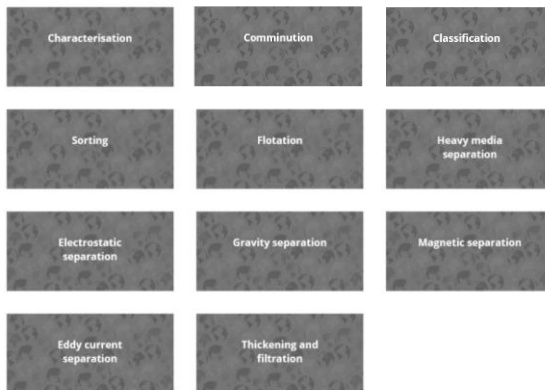
- Update competence and equipment within the network and fill the gaps



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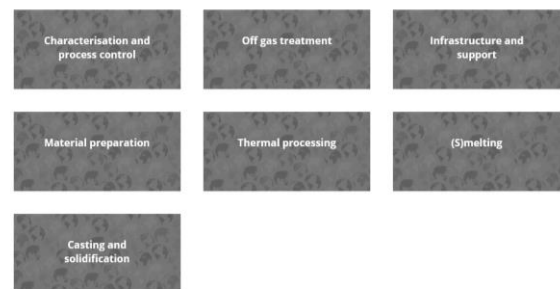
## Mineral Processing



## Hydrometallurgy



## Pyrometallurgy



# Infrastructure on the web site



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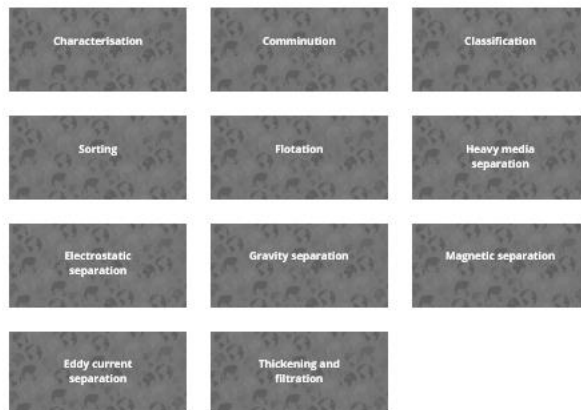
## Mineral Processing



Metnet Mineral processing platform cover all unit operations for matter comminution and beneficiation, from bench to pilot scale.

Equipment can be operated in batch or continuous mode to treat all types of metallic ores, industrial minerals, metallurgical residues (slags, sludges and ashes), tailings, urban waste (waste from electric and electronic equipment, end of life vehicles etc.).

Metnet pilot facilities have a variety of standard characterization techniques to test conditions and properties of specific material of interest (minerals, metals, alloys, slags etc.).



## Comminution

Name of equipment	Company	Dimensions and max capacity	Details	Contact
Agitated mill	GTK Mintec	0.5 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Autogeneous mill	BRGM	550 L	<a href="#">PDF</a>	<a href="#">contact</a>
Ball mill	BRGM	0.1 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Ball mill	GTK Mintec	6 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Ball mill with ceramic coating	BRGM	200 L	<a href="#">PDF</a>	<a href="#">contact</a>
Ball, rod mill	IMN	15 t/h		<a href="#">contact</a>
Cone crusher	GTK Mintec	10 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Gyratory crusher, Babitless	BRGM	5 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Gyratory crushers	GTK Mintec	40 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Gyratory mill	BRGM	0.1 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Gyratory mills	Extractive	10 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Hammer mill	BRGM	0.5 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
High pressure roller mill	GTK Mintec	3 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Horizontal mill	GTK Mintec	0.5 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Horizontal Shaft Impactor	GTK Mintec	5 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Impact crusher, Dragon	BRGM	2 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Jaw crusher	BRGM	0.05 t/h	<a href="#">PDF</a>	<a href="#">contact</a>
Jaw crusher	BRGM	0.1 t/h	<a href="#">PDF</a>	<a href="#">contact</a>

# Industrial support organisation

Helps us develop the offer and improve service to customer by identifying needs and trends of industry.

- Arcelor Mittal
- A.V Dawson
- Boliden (pyro)
- British Steel
- CASPEO
- Eurotab
- EYDE cluster
- Harsco
- Innovator
- Keliber
- LKAB
- Mustavaaran Kaivos Oy
- Reactive Metal Particles
- SSAB Europe
- SUEZ Belgium
- Tata Steel, Europe
- TEGma
- ZGH Boleslaw
- ZM Silesia SA





# Networking activities

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- Map competences and equipment of the network
  - Missing competence and equipment identified
  - Support from a group of industrial end users
- Cooperation with other networks
- Develop a joint offer for the European industry

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- Map competences and equipment of the network
- Cooperation with other networks
- Develop joint offer

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