

MINERAL RECYCLING FORUM 2019



Radisson Blu Hotel, Kraków, 4-6 March 2019



Secondary raw material sources, supply, processing & markets

Exhibitors



Supporting
Partners

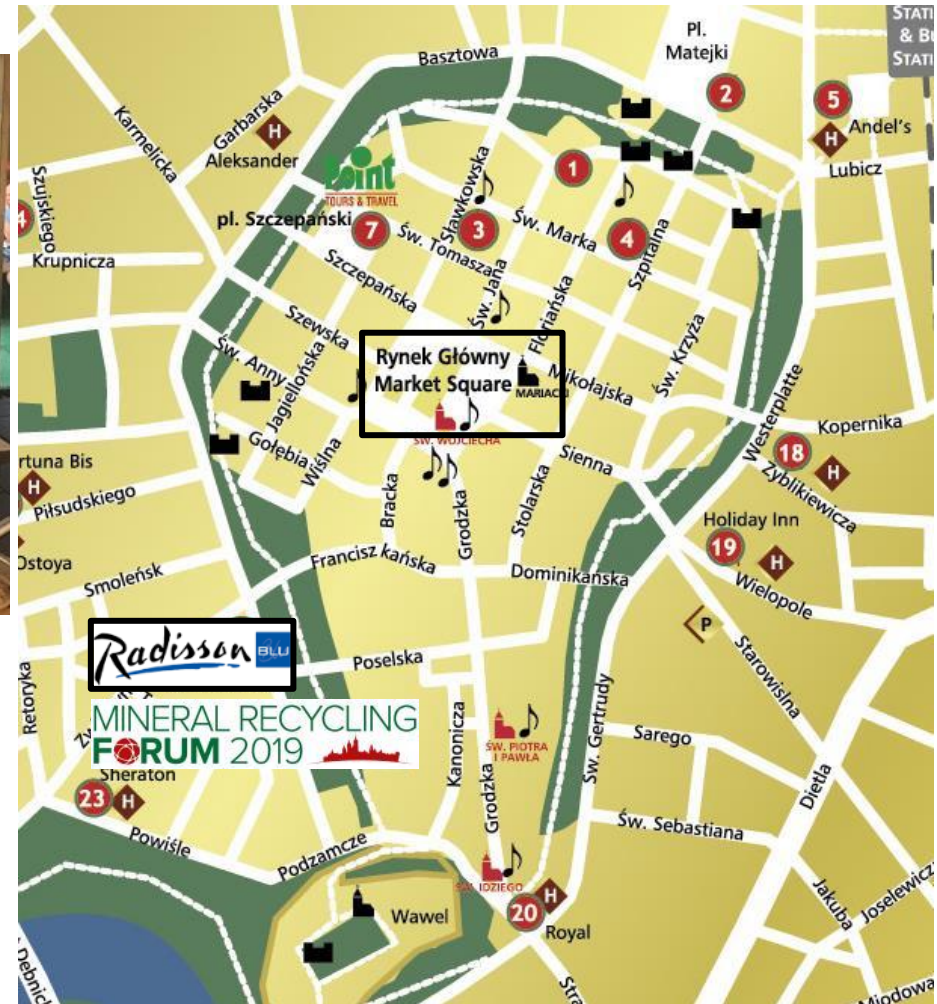


Roskill



IMFORMED

Welcomes you to Kraków



MINERAL RECYCLING FORUM 2019

Radisson Blu Hotel, Kraków, 4-6 March 2019

Exhibitors



*Supporting
Partners*

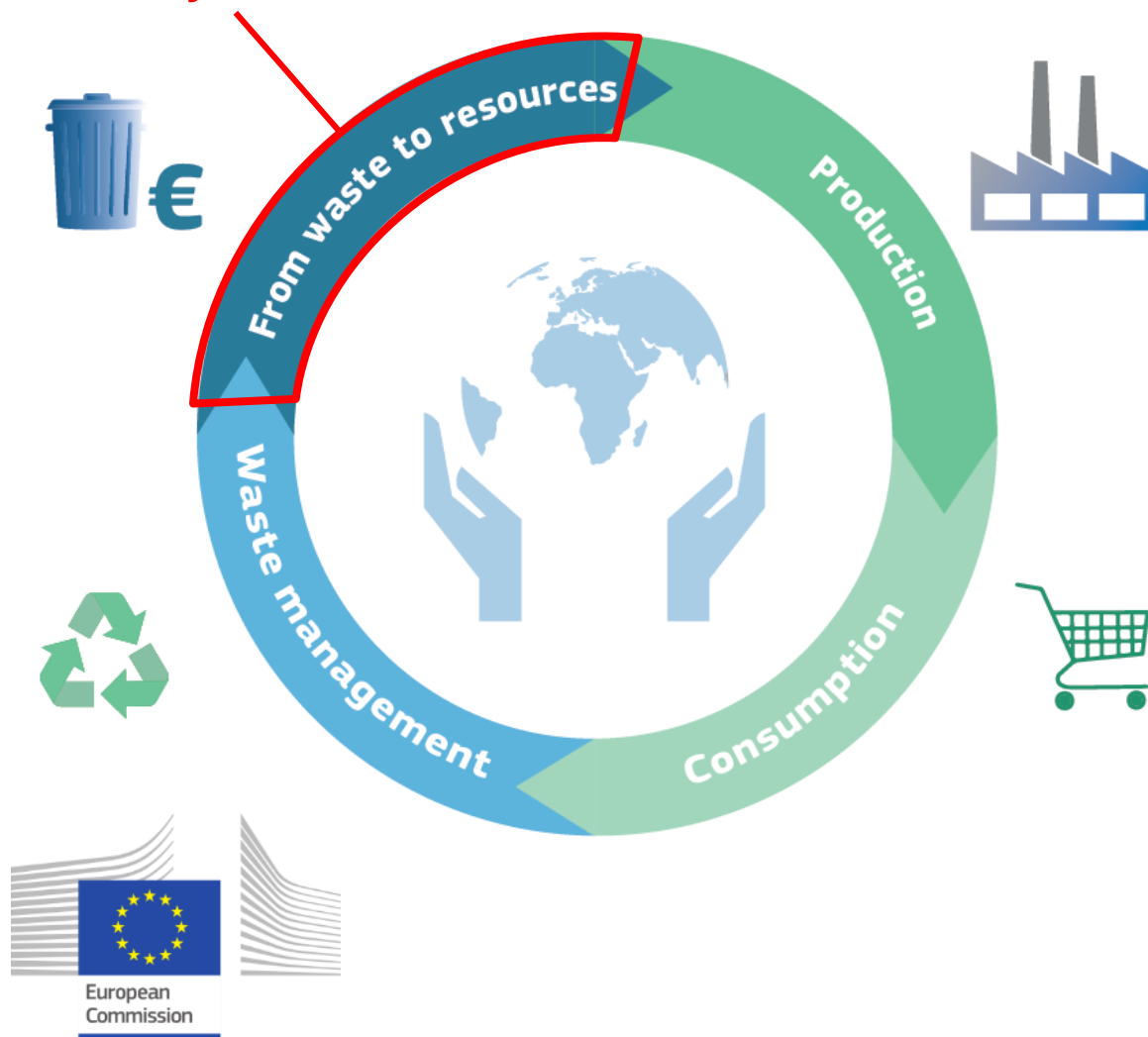


Roskill



Moving towards a circular economy – “Closing the loop”

Secondary Raw Materials



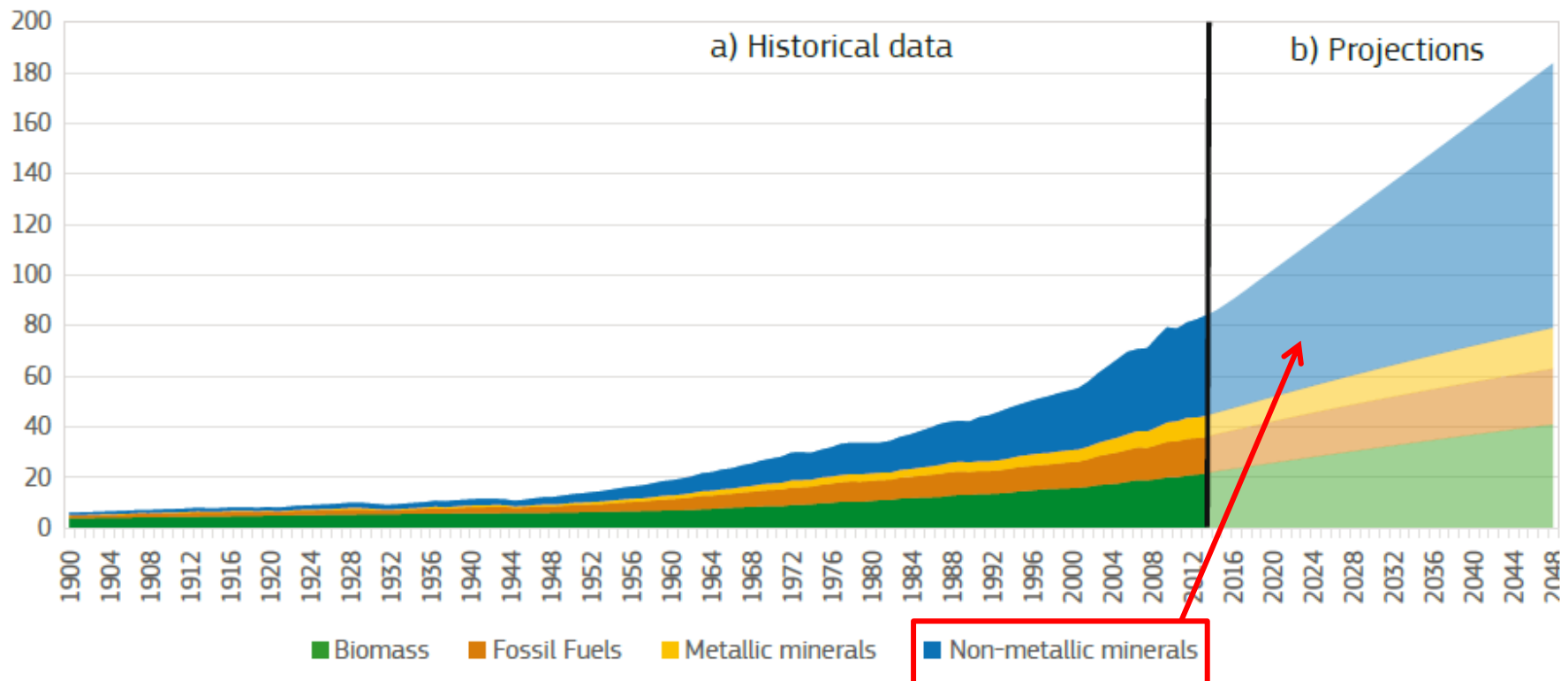
Source: EC



Moving towards a circular economy – “Closing the loop”



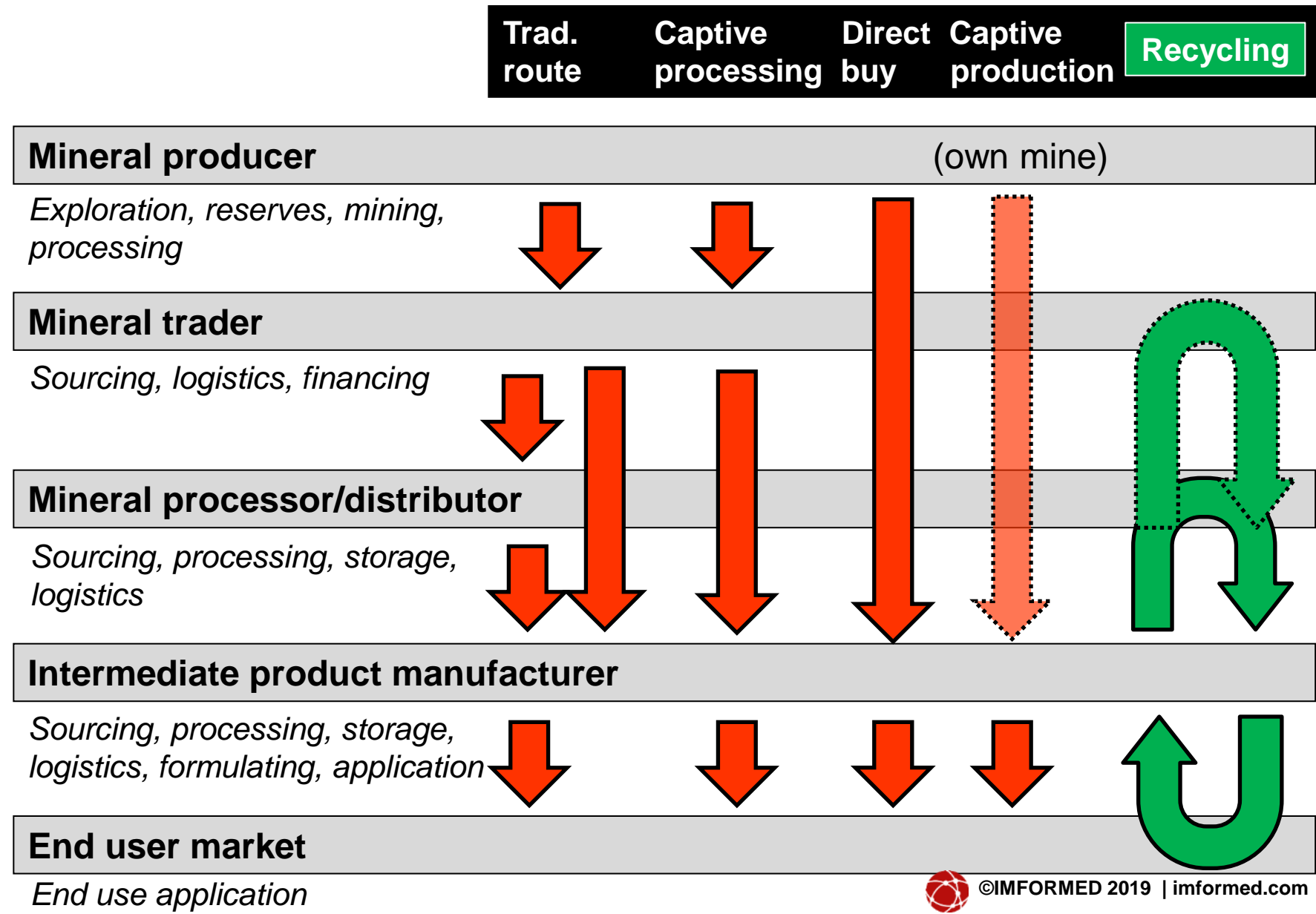
Figure 2: Global material extraction by resource type: a) historical (world, 1900-2015) and b) projected data (world, 2015-2050)¹⁰.



Source: EC



Supply chain options



Secondary Raw Materials (SRM) for industrial mineral markets

Some examples

SRM source*	SRM recovered	Market
Aluminium salt slag	alumina	cement; ceramics; geopolymers; metallurgy; mineral wool; refractories;
Batteries	graphite; lithium; manganese dioxide	batteries; ceramics; chemicals; glass; refractories
Fly ash	aluminosilicate	ceramics; coatings; construction; foundry; plastics; proppants (oil & gas drilling)
Glass	REE; silica	abrasives; chemicals; coatings; concrete; glass; plastics; sealants
Gypsum wallboard	gypsum	wallboard
Refractories	alumina; andalusite; bauxite; chromite; dolomite; mag-carbon; graphite; magnesia; silicon carbide; zirconia	ceramics; metallurgy; refractories
Steel slag	alumina; calcia; magnesia; silica	abrasives; aggregate; cement; concrete; fertiliser; filtration; metallurgy
Waste water	phosphorus	fertiliser
WEEE**	antimony trioxide; bromine FR; fluorspar; graphite; REE	batteries; ceramics; chemicals; flame retardants

* ie. waste from processing, or used/discarded mineral-bearing end products to be recycled

** waste electrical and electronic equipment



Mineral recycling drivers

- Environmentally driven legal requirements – national/regional
- Conservation of primary mineral resources by use of recycled materials
- Alleviates mineral resource squeeze, their “criticality”, dependence on certain countries, eg. China (*more later*)
- Mineral price rises
- Recycling contributes to CO₂ reduction
- Conservation of energy
- Controls hazardous substances
- Reduces landfill cost and pressure
- Technological advances in processing
- Employment opportunities



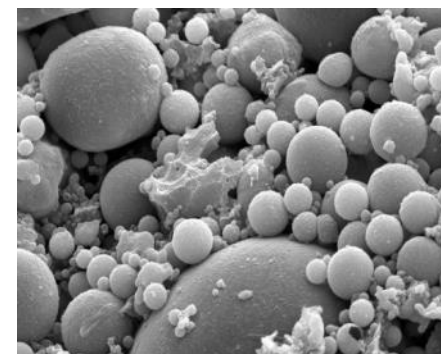
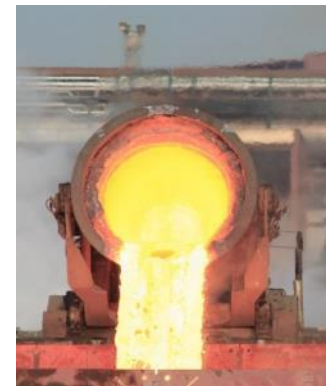
Outlook: Challenges

- **Sourcing adequate supply of waste material: waste source becomes the new “mineral resource”**
- **Assurance of long term supply of consistent quality of SRM**
- **Management by the recycling company of balance between continuous and discontinuous flows of waste material against supply of recycled material flow to end users**
- **Permits/legislation in handling/treating waste material: clarity, consistency, across country borders**



Outlook: Opportunities

- **Development of new product formulations to enhance/ease SRM use and ultimate recyclability**
- **Added value product development for more diverse market applications**
- **Increasing long term strategic alliances between waste sources, recyclers, and end users**
- **Education of end users to positively engage in and recognise benefits of recycling;
= employment, better for environment**



Programme – Tuesday Morning

KEYNOTE OVERVIEWS

- 08.45 **Introduction**
Ismene Clarke, Director & Mike O'Driscoll, Director, IMFORMED, UK
- 09.00 **Competitive manufacturing industries in Europe: circular economy and access to raw materials**
Maria Nyberg, Policy Officer, European Commission, Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs, C.2 Resource Efficiency and Raw Materials, Belgium
- 09.30 **Recycling as a way of developing new business models for the minerals sector: regulatory bottlenecks and opportunities**
Francesca Girardi, Industrial Affairs Advisor, IMA-Europe, Belgium

10.00 COFFEE

STRATEGY & DEVELOPMENT

- 11.00 **Strategy for companies aiming to participate in mineral recycling and the Circular Economy**
Bart Mantels, Program Manager Sustainable Materials Management, VITO NV, Belgium
- 11.30 **Decoupling geology from geography: connecting market and minerals with hydrometallurgical processing of waste**
Mark Tilley, Vice President Business Development, Lixivia Inc., USA

12.00 LUNCH



Programme – Tuesday afternoon

REFRACTORY RECYCLING | PROCESSING

- 14.00 **The driving force of recycling in the refractory industry**
Paul Glaubitz, General Manager Recycling, RHI Magnesita, the Netherlands
- 14.30 **From best practices to excellence in refractory waste management**
David Maza, R&D – Process Manager, Sidenor, Spain
- 15.00 **Roller press briquetting and granulation to turn fines into valuable materials**
Patrick Lecherf, Export Manager, Euragglo, France
- 15.30 **Panel discussion & Round-up**

16.00 COFFEE & CLOSE OF DAY 1



Programme – Wednesday Morning

INDUSTRIAL & MINING WASTE RECYCLING

- 09.00 **Opportunities and challenges in the use of bauxite residue (red mud)**
Ken Evans, Independent Consultant, UK & George Banvolgyi, Technical Director, Bán-Völgy Ltd Partnership, Hungary
- 09.30 **Recycling of wastes from the mining, power and metallurgy industries**
Prof. Krzysztof Galos, Director, Mineral and Energy Economy Research Institute, Polish Academy of Sciences, Poland
- 10.00 **Opportunities in turning waste into geopolymer based construction materials**
Juha Pinomaa, Chairman, Betolar Ltd, Finland

10.30 COFFEE

CHEMICAL WASTE & SLAG RECYCLING

- 11.15 **Recovery of magnesia and chromia from chemical waste**
Duane Runciman, Wastes Ecotech Srl, Romania
- 11.45 **Trends & outlook for the ferrous and nonferrous slag markets**
Daniel Rogers, Head of Market Reports and Consultancy, Smithers, UK

12.15 LUNCH & CLOSE OF CONFERENCE



New for this year...

Download our App

- Event info
- Real time updates
- Agenda
- Delegate messaging
- Speaker profiles



*Search for
IMFORMED 2019*





Alcoa Inespal
ALFRAN
ArcelorMittal Refractories Sp.z.oo
Bán-Völgy Ltd
Betolar Ltd
Calderys
Carborundum Universal Ltd
Cofermin Rohstoffe GmbH & Co. KG
Euragglo
European Commission
Global Recycling
Górka Cement Sp. Zo.o
Gouda Refractories BV
HarbisonWalker International
Harsco Luxequip
Harsco Metals & Minerals
Horn & Co Group
IMA Europe
IMFORMED Ltd
Lhoist Germany Rheinkalk GmbH
Lixivia Inc
LKAB Minerals Ltd

Midegasa
Mine Feuerfest GmbH & Co KG
Mineralmahlwerk Westerwald Horn GmbH
PK Rohstoffe GmbH
Port of Amsterdam
Port of Rotterdam Authority
Possehl Erzkontor GmbH & Co. KG
Quarzwerke GmbH
REF Minerals
Resitec AS
RHI Magnesita
Richmond Reclamation
RUSAL
Saint-Gobain SEPR
Sidenor
Smithers Apex
TRB
TYMO Engineering GmbH
Vesuvius GmbH
Vesuvius Group
VITO NV
Wastes Ecotech Srl
Zakłady Magnezytowe Ropczyce SA





Well thought and linked programme, relevant topics covered, smooth and well organised.

Naman Patel, Partner, Global Recycling, India

Excellent programme; time to connect between sessions is really valuable, the longer breaks are good!

Susanne Hiden, Recycling Specialist, RHI Magnesita, Austria

Well organised event and good content, interesting overall forum for our area. Well done! The app is a great start.

Duane Runciman, Partner, Wastes EcoTech, Romania

Well arranged agenda, with long coffee breaks which allow networking. App is very good idea.

Alex Aizpurua, Director Raw Materials, Midegasa, Spain

Excellent organisation as ever. Good programme and nice place close to city centre.

Hugo du Mez, Advisor, Port of Rotterdam, the Netherlands

Very well organised and very interesting presentations, very helpful app.

Jean-Marie Detalle, WorldWide Market Manager, Saint-Gobain SEPR, France



IMFORMED

Industrial Mineral Forums & Research

Networking and knowledge for the industrial minerals business



 imformed.com



- Launched in January 2015
- Extensive experience & reputation
- Specialising in conferences & market research in:
 - Magnesia
 - Refractory Minerals
 - China
 - Mineral Recycling
 - Fluorine
 - India
 - Oilfield Minerals



Coming up in 2019



INFORMED
Rendezvous

Les Jardins du Marais, Paris
8-10 April 2019



MAGFORUM 2019
Magnesium Minerals & Markets Conference
Occidental Bilbao, 13-15 May 2019

**OILFIELD MINERALS & MARKETS
FORUM HOUSTON 2019**



Hilton Houston Post Oak, Houston, 10-12 June 2019

FLUORINE FORUM 2019

Alcron Hotel, Prague
21-23 October 2019



**INDIAN MINERALS &
MARKETS FORUM 2019**

JW Marriott Mumbai Juhu,
18-20 November 2019
(Field Trip 21-22 November 2019)



Sponsorship & Exhibit Opportunities

MOVING MINERALS

minerals are moving us – we are moving minerals

Industrial Mineral Forums & Research

MAGNESIA
WORLD SOURCES

END2END/VALUE+

breakbulk linerlike/crosstrade container anywhere/anytime China train



CTP.BIZ



PEÑALES

High Purity MgO

www.peneles.com.mx



WWW.PREMIERMAGNESIA.COM



YOUR *RAW MATERIAL* SUPPLIER

WWW.MIDEGASA.COM



BEEF FACTORIES & INDUSTRIAL MINERALS

WWW.IBAR.COM.BR

Introducing CH Magreite
**Taking
innovation
to 1200 °C
and beyond**



rhimagne.it
leader in refrattorie
rhimagne.it



...pure, natural MgO...



A member of the **REFRA**TECHNIK Group of Companies

PICK UP YOUR COMPLIMENTARY COPY TODAY !!

IMFORMED
Industrial Mineral Forums & Research

**REFRACTORY
RAW MATERIAL
WORLD SOURCES**

PRIMARY WORLD SOURCES & PRODUCTION CAPACITY OF
KEY REFRACTORY MINERALS

PICK UP A COPY AT OUR STAND

KEY - see notes below

ALUMINA

FUSED ALUMINA

ANDALUSITE

BAUXITE

CHROMITE

GRAPHITE

DEAD BURNED MAGNESIA

FUSED MAGNESIA

SILICON CARBIDE

ZIRCON

LKAB
Specialists in refractory materials, processing and solutions

IMFORMED
Industrial Mineral Forums & Research
**REFRACTORY
RAW MATERIAL
WORLD SOURCES**

ALMATIS
PREMIUM ALUMINA FOR REFRACTORY APPLICATIONS

YASHEYA LIMITED

MULTIMODAL SOLUTIONS
OCEAN SHIPPING, COASTERS, BARGING, CONTAINERS, RAILING, TRUCKING, WAREHOUSING, BULK/CONBUK
specialized in shipping industrial minerals

MiDegasa
YOUR RAW MATERIAL SUPPLIER

Andalucita S.A.

ARCIRESA
REFRACTORY RAW MATERIALS
CHAMOTTES, BAUXITES, MAGNESITES, W.F.A, S.F.A, S.I.C, CLAYS, CEMENTS, GRAPHITES, MULLITES

World Map
World map showing primary world sources and production capacity of key refractory minerals. Includes data for various countries and regions.

Key Data
Key data for various refractory minerals and their production capacity.

Prices & Data Analysis
Prices & Data Analysis for refractory minerals.

Refractories WorldForum
Refractories WorldForum logo and website information.

RoBuLog
RoBuLog logo and website information.

Rotterdam Bulk Logistics
Rotterdam Bulk Logistics logo and website information.

CMP
CMP logo and website information.

For high-performance aluminas, simply choose the best
alteo
A NEW WORLD OF ALUMINA

IMERY'S REFRACTORY MINERALS
IMERY'S logo and website information.

nedMag 99
Dead Burned Magnesia perfectly produced in the Netherlands

IMPERIAL TRANSPORT SOLUTIONS

kerneos
ALLUMINATE TECHNOLOGIES
Your partner in monolithic technology



MINERAL
MARKET
MATRIX

AT A GLANCE
A-Z GUIDE
WHICH MINERALS
FOR WHICH
MARKETS

MINERAL "Derivative" "Synthetic"	MARKETS*																				MINERAL "Derivative" "Synthetic"	MAIN RAW MATERIAL FEEDSTOCK(S) ¹	KEY SPECIFIED CHEMICAL COMPONENT(S) ²	WORLD PRODUCTION ³	MAIN SOURCE COUNTRIES ⁴	
	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina	Alumina						
ALUMINA																					ALUMINA	Bauxite	Al ₂ O ₃	6,000	China, USA, Germany	
ANDALUSITE																					ANDALUSITE		Al ₂ O ₃	300	South Africa, France, Peru	
ANTIMONY TRIOXIDE																					ANTIMONY TRIOXIDE	Stibnite	Sb ₂ O ₃	10	China, Russia, Tajikistan	
ASBESTOS																					ASBESTOS	Chrysotile	n.a.	20,000	Russia, China, Brazil	
ATTAPULGITE																					ATTAPULGITE		n.a.	2,220	USA, Senegal, Spain	
BADDELEYITE																					BADDELEYITE		ZrO ₂	9	Russia	
BARITE (BARIUM)																					BARITE (BARIUM)		BaSO ₄	972	China, India, Morocco	
BAUXITE																					BAUXITE		Al ₂ O ₃	10,000	China, Guyana, Greece	
BENTONITE																					BENTONITE	(also Hectorite serves similar markets)	n.a.	17,500	USA, China, India	
BORAX																					BORAX	Borax, Colemanite, Kernalite, Ulexite	B ₂ O ₃	18,000	Turkey, USA, China	
BROMINE																					BROMINE	Bittern, Seawater, Salt lakes	n.a.	750	Israel, USA, Jordan	
CALCIUM CARBONATE																					CALCIUM CARBONATE	Limestone, Dolomite, Marble, Chalk	CaCO ₃	10,000,000	Global	
CELESTINE																					CELESTINE		SrSO ₄	250	China, Spain, Mexico	
CHROMITE																					CHROMITE		Cr ₂ O ₃	1,000	South Africa, Turkey, Oman	
DIAMOND (INDUSTRIAL)																					DIAMOND (INDUSTRIAL)		n.a.	n.a.	(in carats) 80 ⁵	DR Congo, Russia, Australia
DIATOMITE																					DIATOMITE		SiO ₂	2,000	USA, China, Denmark	
DOLomite																					DOLomite		CaMgCO ₃	12,000,000	Global	
FELDSPAR																					FELDSPAR		Al ₂ Si ₂ O ₇ (OH) ₄	23,000	Turkey, Italy, China	
FLUORSPAR																					FLUORSPAR		CaF ₂	6,250	China, Mexico, Mongolia	
GARNET																					GARNET		n.a.	1,600	India, China, Australia	
GRAPHITE																					GRAPHITE		C	700	China, Brazil, India	
GYPsUM																					GYPsUM	Anhydrite	CaSO ₄	246,000	China, USA, Iran	
HEMIMORPHITE																					HEMIMORPHITE		TiO ₂	6,600	Australia, South Africa, China	
IODINE																					IODINE	Bittern, Caliche nitrate	I ₂	52	China, Japan, USA	
IRON OXIDE																					IRON OXIDE	Hematite, Goethite, Magnetite, Micaceous IO, Ochre, Umber	Fe ₂ O ₃	17,000	India, Pakistan, Spain	
KALIN																					KALIN	Kalinite, Halloysite	Al ₂ Si ₂ O ₅ (OH) ₄	44,000 ⁶	USA, Germany, China	
KYANITE																					KYANITE		Al ₂ Si ₂ O ₅ (OH) ₄	902	USA, India, Brazil	
LIME																					LIME	Limestone, Dolomite, Chalk	CaO	350,000	China, USA, India	
LITHIUM																					LITHIUM	Spodumene, Petalite, Lepidolite, Bittern, Salt lakes, Hectorite, Zinnwaldite	Li ₂ CO ₃ , Li ₂ Cl, CO ₂	1,000,000	Australia, Chile, China	
MAGNESITE																					MAGNESITE		MgCO ₃	25,000	China, Russia, Turkey	
MAGNESIA*																					MAGNESIA*	Magnetite, Serpentine, Brocote, Dolomite, Seawater, Bittern	MgO	12,000	China, Russia, Turkey	
MANGANESE																					MANGANESE	Pyrolusite, Psilomelane	Mn ₂ O ₃	2,000	China, South Africa, Australia	
MICA																					MICA	Muscovite, Phlogopite	n.a.	1,000	China, Russia, USA	
MULLITE*																					MULLITE*	Alumina, Bauxite, Kalite, Kyanite, Pyrophyllite	Al ₂ O ₃	1,000	China, India, Brazil	
NEPHELINE SYENITE																					NEPHELINE SYENITE		Al ₂ Si ₂ O ₅ (OH) ₄	5,600	Russia, Canada, Norway	
NITRATE																					NITRATE	Caliche ore, Nitrate	NaNO ₃	8,000	Chile	
OLIVINE																					OLIVINE	Dunite, Serpentine	MgO	3,800	Norway, Japan, Spain	
PERILITE																					PERILITE		n.a.	3,800	China, Greece, Turkey	
PHOSPHATE																					PHOSPHATE	Phosphatite	P ₂ O ₅	220,000	China, Mexico, USA	
POTASH																					POTASH	Carminite, Kainite, Langbeinite, Sylvite	K ₂ O	36,000	Canada, Russia, Belarus	
PUMICE																					PUMICE		n.a.	17,000	Turkey, Italy, Saudi Arabia	
PYROPHYLITE																					PYROPHYLITE		n.a.	1,000	South Korea, Japan, Pakistan	
QUARTZ																					QUARTZ		SiO ₂	250	USA, China, Norway	
KAOLIN																					KAOLIN	Ball clay, Fire clay, Kaolin, Kaolinitic clays	Al ₂ Si ₂ O ₅ (OH) ₄	18,000	China, Australia, USA	
RUTILE																					RUTILE		TiO ₂	800	Australia, Sierra Leone, South Africa	
SALT																					SALT	Halite	NaCl	269,000	China, India, USA	
SEPOLITE																					SEPOLITE		n.a.	600	Spain, Turkey, USA	
SILICA SAND																					SILICA SAND	Quartz	SiO ₂	200,000	China, USA, Italy	
SILICON CARBIDE**																					SILICON CARBIDE**	Silicon Carbide	SiC	1,000	China, Norway, Japan	
SILLIMANITE																					SILLIMANITE		Al ₂ O ₃	62	India	
SPINEL*																					SPINEL*	Magnesia-Alumina	MgO-Al ₂ O ₃	100,000	China, Germany, USA	
SODA ASH																					SODA ASH	Trona, Natronite	Na ₂ CO ₃	14,000	USA, Turkey, China	
SODA ASH*																					SODA ASH*	Sulfate, Limestone-Coke	Na ₂ CO ₃	37,000	China, Russia, Germany	
SODIUM SULPHATE																					SODIUM SULPHATE	Muscovite, Thionite	Na ₂ SO ₄	8,000 ⁷	China, Spain, Mexico	
SULPHUR																					SULPHUR	Pyrites, Recovered as by-product, Native sulphur	S	60,000 ⁸	China, USA, Russia	
TALC																					TALC		n.a.	6,000	China, India, USA	
VERMICULITE																					VERMICULITE		n.a.	400	South Africa, USA, China	
WOLLASTONITE																					WOLLASTONITE		n.a.	1,000	China, India, USA	
ZINCITE*																					ZINCITE*	Chlorite, Chalcite, Monticite	n.a.	3,000	China, South Korea, USA	
ZIRCON																					ZIRCON		ZrO ₂	1,000	Australia, South Africa, China	
ZIRCONIA*																					ZIRCONIA*	Zircon, Baddeleyite	ZrO ₂	200	China, USA, Japan	

* used to produce various products, and common names (e.g. alumina, bauxite, which are listed for their non-oxidized form) are used to describe the mineral in its natural state, but not necessarily the form in which it is used in the final product.

* World Bank, *Commodity Statistics*, 2010. For non-metallic minerals, production data from a range of sources, including the USGS, BLS, BLS, BLS, and BLS.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available data, and are not necessarily the same as the figures reported by the producing countries.

* The above world production figures are based on the best available

- Leading industrial minerals
- Main raw material feedstock
- Key specified chemical component
- World production
- Main source countries
- Leading consuming markets

PICK UP YOUR COMPLIMENTARY
COPY AT OUR STAND TODAY !!

REGISTER ON **IMFORMED**'s WEBSITE
TO ENSURE YOU DON'T MISS REGULAR
ARTICLES, NEWS, AND FORUM UPDATES.

Need help? Please contact Ismene here on-site

enquiries@imformed.com



IMFORMED

Industrial Mineral Forums & Research

[Home](#)

[About](#)

[Get IMFORMED](#)

[Forums](#)

[Registration](#)

[Contact](#)

[Gallery](#)

[IMFObites](#)



 NEWSFILE

 FORUMS

 IMFObites

MINERAL RECYCLING **FORUM** 2019

Radisson Blu Hotel, Kraków, 4-6 March 2019

Participate
Learn
Enjoy

IMFORMED
Industrial Mineral Forums & Research Ltd
Networking and knowledge for the industrial minerals business

