Update on world status and trends for critical raw materials

World Materials Forum June 29, 2017

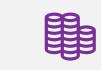
Gilles Michel, CEO of Imerys





Key figures





€582 mCurrent operating income







16 000 Employees



260 Operating sites



Operating margin

50 Countries







R&D centers



#1 or #2
On most of our markets



€6.0 bnMarket capitalization
54% of capital held by GBL







Imerys offers high value-added functional solutions...

- Beneficiated mineral resources (clay, bentonite, diatomite, feldspar, kaolin, mica, wollastonite, etc.)
- Formulations (ceramic bodies, continuous casting fluxes for steel, monolithic refractories, etc.)
- **Synthetic minerals** (synthetic graphite, zirconia, etc.)







■ from high quality assets:

- ◆ Unique portfolio of mineral resources
- ◆ Wide range of exclusive technologies and processes
- Materials science expertise
- ◆ Know how and customers' applications knowledge





...that contribute essential properties and performance to its industrial customers' products

Whiteness and toughness of sanitaryware, floor and wall tiles



World leader in ceramic bodies for sanitaryware

Lifespan and **fast charging** of electric vehicle lithium-ion batteries



World leader in conducting additives (graphite, carbon black)

Gloss and opacity for paint



World leader in wollastonite and talc for paint

Thermal and mechanical resistance of industrial abrasives



World leader in fused minerals for abrasives

Resistance and lightness of automotive plastic parts



World leader in talc-based performance additives for plastics

Softness of natural mineral powders



World leader in talc for health and beauty

Watertightness and insulation of roofs



French leader in clay roof tiles

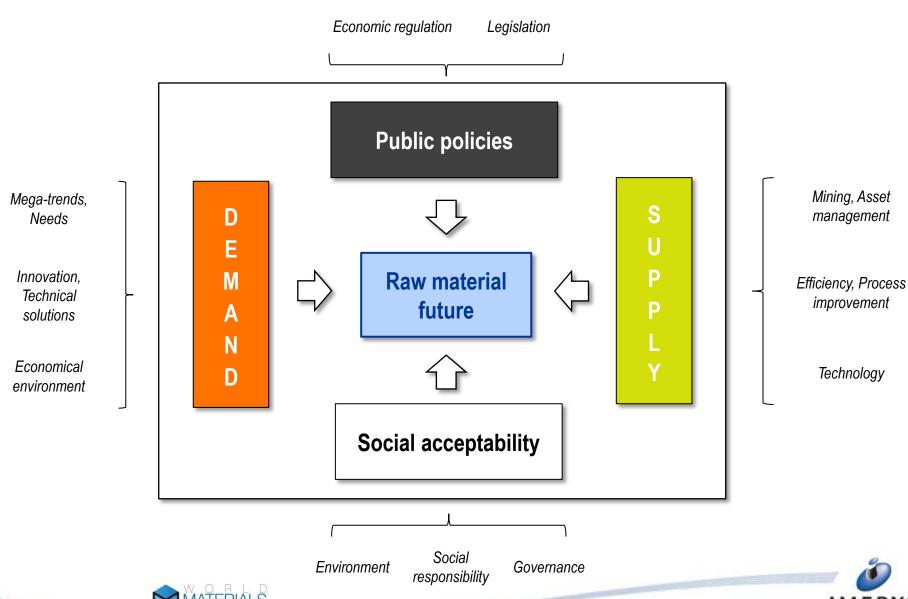
Filtration of liquids (food or blood plasma)

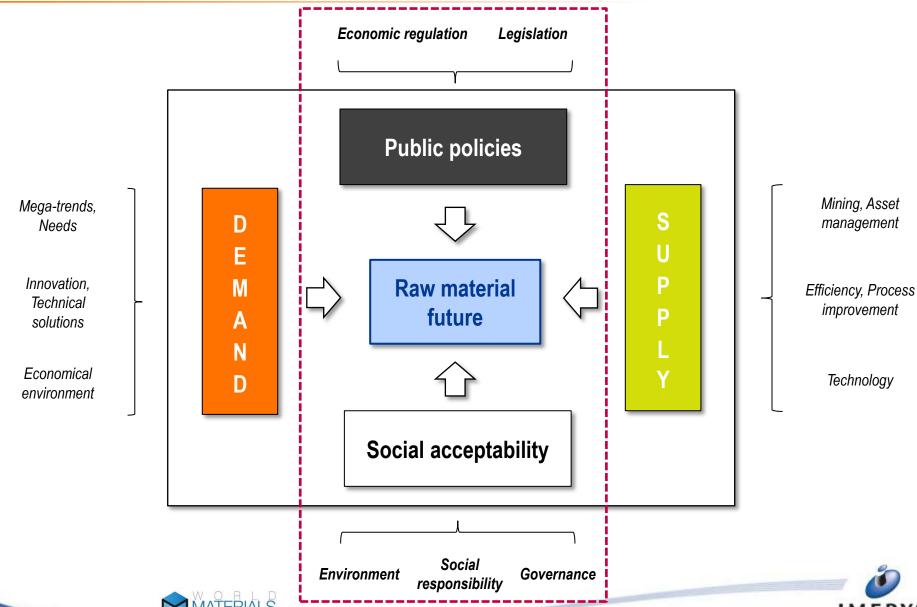


World leader in perlite and diatomite for filtration









Ethics and Business Conduct

- Make sure our activities are carried out ethically and transparently
- Group compliance culture driven by Imerys Management team
- Risk Identification and Internal Controls mapping exercise at Group level every two years

Business Code of Conduct and Ethics

- Anti-bribery and anti-corruption
- Anti-fraud
- Anti-trust and fair competition
- Transparency and integrity







Express social responsibility through community initiatives

Driving improvement of living conditions and reducing environmental footprint

Low cost filter cartridge for household water treatment in rural India





Enhancing the economic dynamism of communities by encouraging entrepreneurship

Implementation of a microcredit program in Brazil to help entrepreneurs starting their own small businesses



Extending the life of mining sites with responsible rehabilitation and long term economic benefits

Former production plant in Bessens, France, now generating renewable energy through solar panels



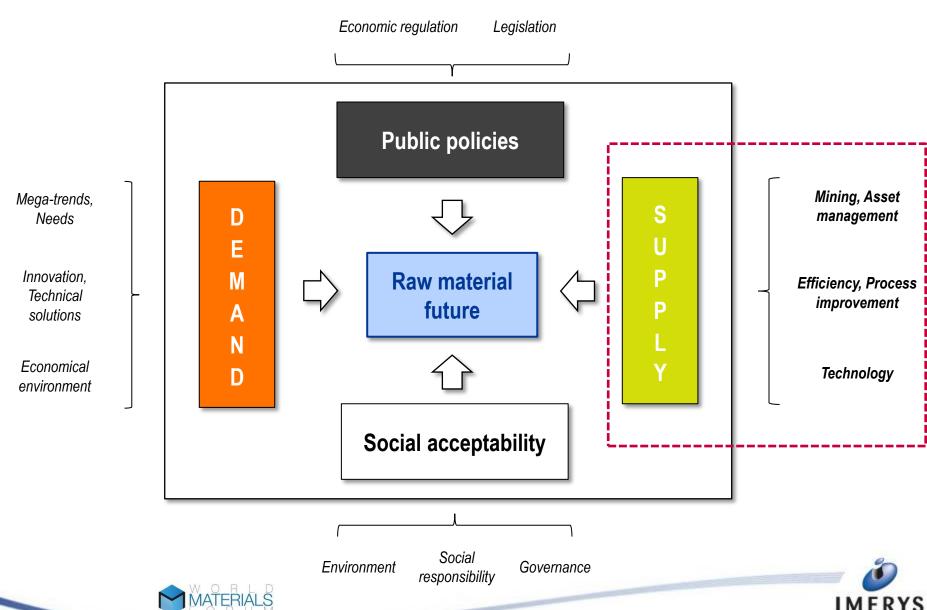


Focusing on educational programs and duplicating best practices to help local communities

Collaboration on educational projects has begun in Brazil, China, India, South Africa, as well as Europe and the United States



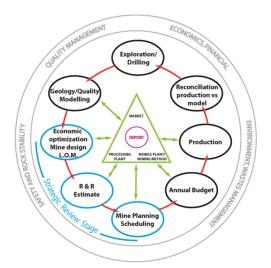




Resources optimization through asset management, technology...

Asset management / Good practices

Geology & mine Planning



New mining opening



Natural graphite in Namibia

Technology for process improvement

- New process for higher quality talc
- Access to new markets
- Extend reserves by recycling mine tailings



Talc mine in Vermont





... And continuous improvement



Operational excellence program

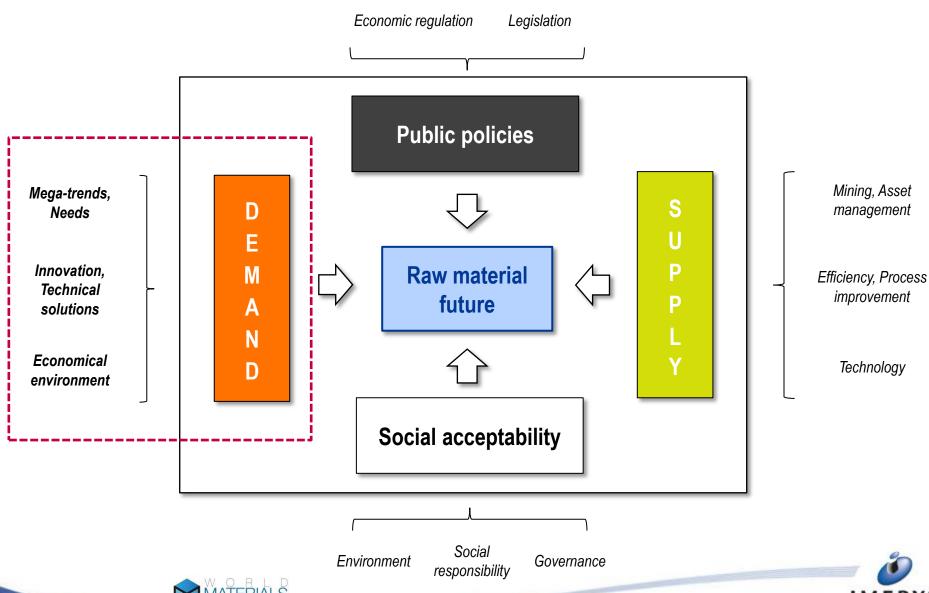
- Standardized methodologies to create a common industrial culture
- Commitment to continuous improvement
- Share good practices
- Build a skills' network



Mines and Plants that are competitive, because they are efficient, safe, clean, sustainable and respectful of the environment







Macro-trends offer significant long-term growth opportunities

MACRO-TRENDS

Sustainability

Health, wellness

and lifestyle

Electrification / electronics

New consumption habits

Green mobility

Alternative sourcing / recycling

Emission reduction

Resource scarcity

Digitalization

Biotech / natural extraction

Demography and urbanization

Growing population

Efficient construction techniques

Green mobility

Safer environment



Filtration & environment solutions



High performance plastics



Sustainable packaging



Safer, cheaper, functionalized coating





Pharma & Personal

care



Agriculture & Animal feed



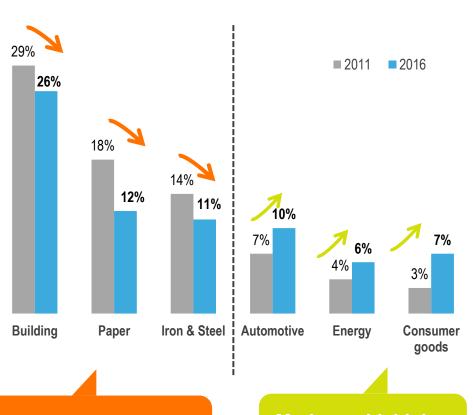
Mobile energy





Innovation is a key lever to meet growing needs

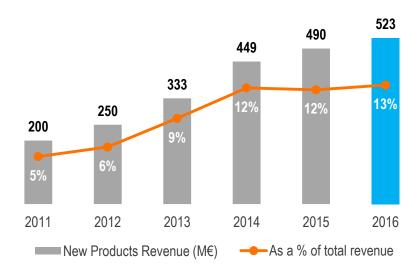
End-markets sales 2011 vs. 2016



Mature markets with lower growth potential

Markets with higher growth potential

Internal growth fueled by Innovation efforts









Agenda of the Plenary Session 1 – Update on world status and trends for critical raw materials

- David TRAFFORD CEO CRU Consulting (UK)
 - Political mapping for critical resources
 - "Deep dive" on supply/demand & recycling trends for cobalt, lithium and nickel
- Franck BEKEART Senior Partner McKinsey (Belgium)
 - Technology mapping for critical resources
 - "Deep dive" on supply/demand & recycling trends for iron and copper
- Pierre TOULHOAT CEO BRGM (France)
 - Finance mapping for critical resources
 - ◆ "Deep dive" on supply/demand & recycling trends for zinc, natural graphite and rare earth
- Robert FRIEDLAND Chairman Ivanhoe Mining (Canada) Co Chair
 - Conclusion





Discussion









