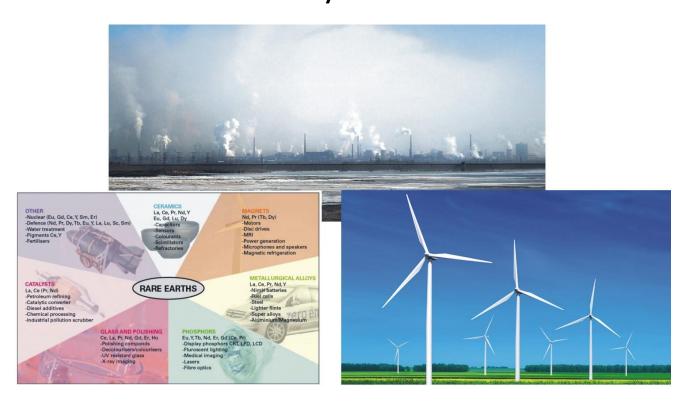
Department of Earth and Environmental Sciences - DISAT University of Milano-Bicocca Piazza della Scienza,1-4 I-20126 Milano (Italy)

CRITICAL RAW MATERIALS AND THEIR ENVIRONMENTAL IMPACT

PhD course held by Alessandro Cavallo



What are "critical raw materials" (CRM)? What are the industrial uses? Why are they so important to the "green economy"? This short course will cover the following topics:

- **Critical raw materials**: REE, PGE, Sb, Ge, Ga, In, Li, Mg, Co, Nb, Re, Ta, W, fluorspar, baryte, borate...
- From mining to industry: ore deposits, ore processing, industrial uses
- **Environmental impact**: are these materials really "green"? What about recycling? And life-cycle assessment (LCA)?
- Alternative materials? State of the art and future trends

Department of Earth and Environmental Sciences - DISAT University of Milano-Bicocca Piazza della Scienza,1-4 I-20126 Milano (Italy)

The course will be held on the Webex platform:

https://unimib.webex.com/meet/alessandro.cavallo

- Tuesday, July 6, 10:30 a.m. 12:30 p.m. and 2:30 p.m. 4:30 p.m.
- Wednesday, July 7, 10:30 a.m. 12:30 p.m.
- Thursday, July 8, 10:30 a.m. 12:30 p.m.
- Tuesday, July 20, 10:30 a.m. 12:30 p.m. and 2:30 p.m. 4:30 p.m.
- Wednesday, July 21, 10:30 a.m. 12:30 p.m.
- Thursday, July 22, 10:30 a.m. 12:30 p.m.

Rare Metals in a smart phone



For any information, contact: alessandro.cavallo@unimib.it