How we got here

2011: Euromines Workshops on Resource Efficiency and Life Cycle Assessment

2012: EU Joint Research Centre Workshop on Security of Supply and Scarcity

2013: ICMM Workshop on LCIA Methods

2014: ETH LCA Discussion Forum 55: abiotic resources

2014: ICMM Workshop on Resource Depletion
What we thought
(peer reviewed & accepted)

Mineral Resources in Life Cycle Impact Assessment – Defining the Path Forward

Drielsma¹ J, Russell-Vaccari² A, Drnek³ T, Brady⁴ T, Weihed⁵ P, Mistry⁶ M, Perez Simbor⁷ L

¹ European Association of Mining Industries, Metal Ores & Industrial Minerals, Avenue de Broqueville 12 B-1150 Brussels, Belgium
² Align Consulting
³ RHI AG, Magnesitstrasse 30 A 8614 Breitenau
⁴ Newmont Mining, 6363 South Fiddler’s Green Circle Suite 800 Greenwich Village, CO 80111, USA
⁵ Lulea Technical University, SE-971 87 Luleå, Sweden
⁶ The Nickel Institute, Avenue des Arts/Kunstlaan, 13, B-1210 Brussels, Belgium
⁷ European Copper Institute, Avenue de Tervueren/Tervurenlaan 168 b-10, B-1150 Brussels, Belgium

[Copyright Springer 2015: Accepted: JLCA-D-15-00156]
What we’ve seen

≡ **Confusion** – no common **Vision**
   = What is the potential threat or impact?
   = Competing / Entrenched Visions

≡ **Resistance** – unaligned **Incentives**
   = E.g., Use of science/tools before fully accepted/developed/proven
     - Commercial interests almost everywhere
     - Assuming, mis-understanding or dismissing others’ incentives
     - Lots of Doing, very little Listening

≡ **Frustration** – isolated sets of **Knowledge**
   = Lack of freely available data almost everywhere
   = No common Vision or Incentive = No time for Collaboration
   = Others’ expertise seemingly impenetrable
   = Amateur forays into others’ area of specialist expertise