



in association with



Workshop Mineral Resources in LCIA: Mapping the path forward

Natural History Museum

Staff and Visitor Entrance on Exhibition Road London SW7 5BD, UK

DC2 Neil Chalmers Seminar Room

14th of October 2015

There is increasing global interest in using Abiotic Depletion Potential (ADP) as a sustainability indicator in regulatory and voluntary initiatives aiming to promote green products. Yet, there is international consensus that the resource depletion Area of Protection in Life Cycle Impact Assessment (through which ADP is estimated) needs to be re-defined.

Originally, LCA used estimates of total crustal content to calculate how many years' worth of natural resource existed. Later, practitioners began limiting existing stocks to those identified by the United States Geological Service in its annual Commodity Summaries.

Because of the nature of the ADP equation, the result is highly sensitive to these differences in the assumed stock. It will be demonstrated that the impact of changing reserve data on ADP characterization factors is significant and that it can result in greatly increased uncertainty of the result and even contradictory material or product selections.

Industry and academia are concerned that current practices serve to exaggerate impacts on availability of abiotic resources and in a way that is inconsistent across resources.

To progress meaningful assessment of future availability of mineral resources, this Workshop will aim towards:

- a common **Vision** of the potential threat or impact to be characterised
- a shared commitment to use common **definitions** of Resources & Reserves
- a disciplined prioritisation of **Science** over commercial or political objectives
- a better understanding of stakeholder's **Incentives** for developing LCIA and/or LCSA
- continued listening so as to exchange the necessary expert **Knowledge**



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09:45	Topic	Speaker
	<i>Welcome morning coffee</i> Workshop scope and objectives Previous Workshops and how we got here	Richard Herrington (NHM) Johannes Drielsma (Euromines)
10:15	Status & Limitations: the data Economics of resource supply & use Resource data: the providers' perspective Resource data: the user's perspective	Chair: Richard Herrington (NHM) Tom Brady (Newmont Mining) Jane Hammarstrom (USGS) Ruth Allington & Liv Carroll (CRIRSCO)
11:20	Status & Limitations: the methods Drivers for LCA of resource supply & use ADP method, its variants & example results Supply as an alternative safeguard subject	Chair: Kevin Brady (Sustainable Enterprise Consulting) Andrea Vaccari (Align Consulting) Jeroen Guinée (CML) Torsten Hummen (Fraunhofer)
13:10	Lunch	<i>(sandwiches, crisps, fruit & cakes)</i>
14:10	Paths Forward Potential paths forward and some dead-ends Environmental Depletion to Economic Scarcity Possibilities in Life Cycle Sustainability Assessment	Chair: John Atherton (ICMM) Pär Weihed (Luleå Tech University) Laura Schneider (Econsense) Guido Sonnemann (U of Bordeaux)
16:15	Conclusion & Closing with afternoon tea	Chair: Mark Rachovides (Euromines)
17:00	End of the Workshop	

For any last minute enquiries, please contact

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