



The Resource Conundrum: Sustainable Energy and Mineral Supply - An Opportunity for international Cooperation

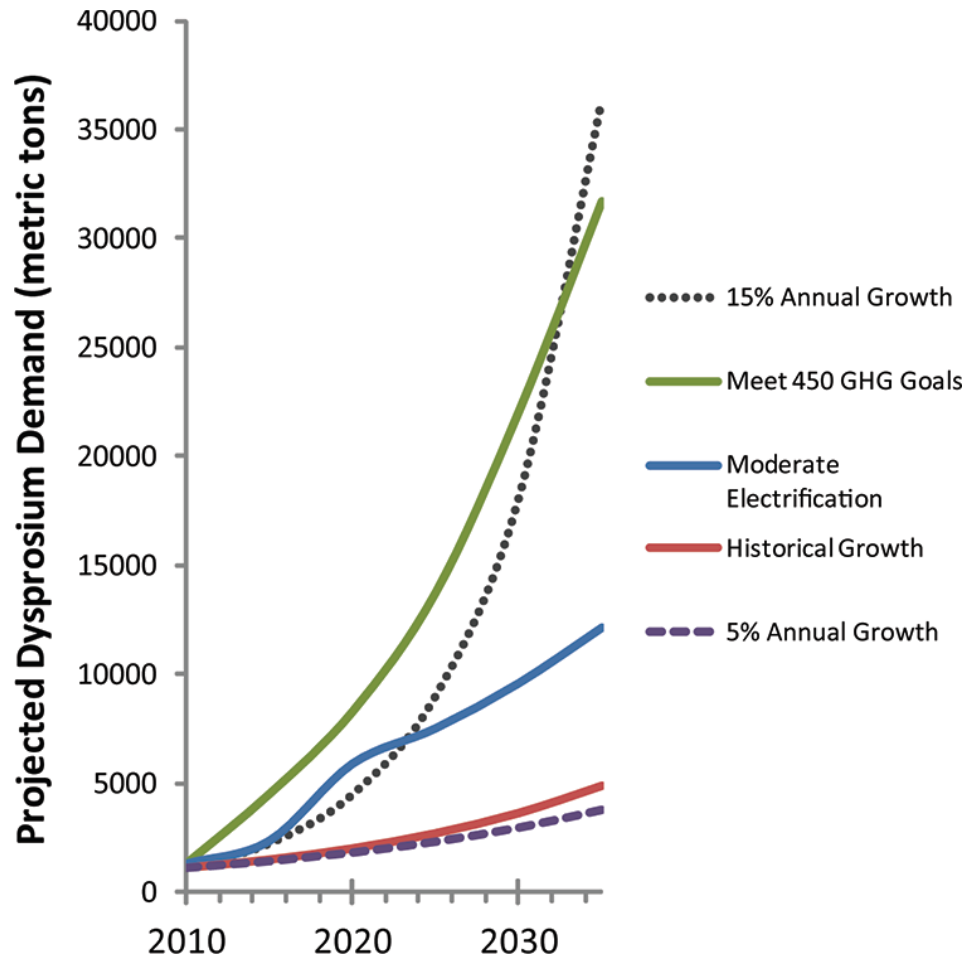
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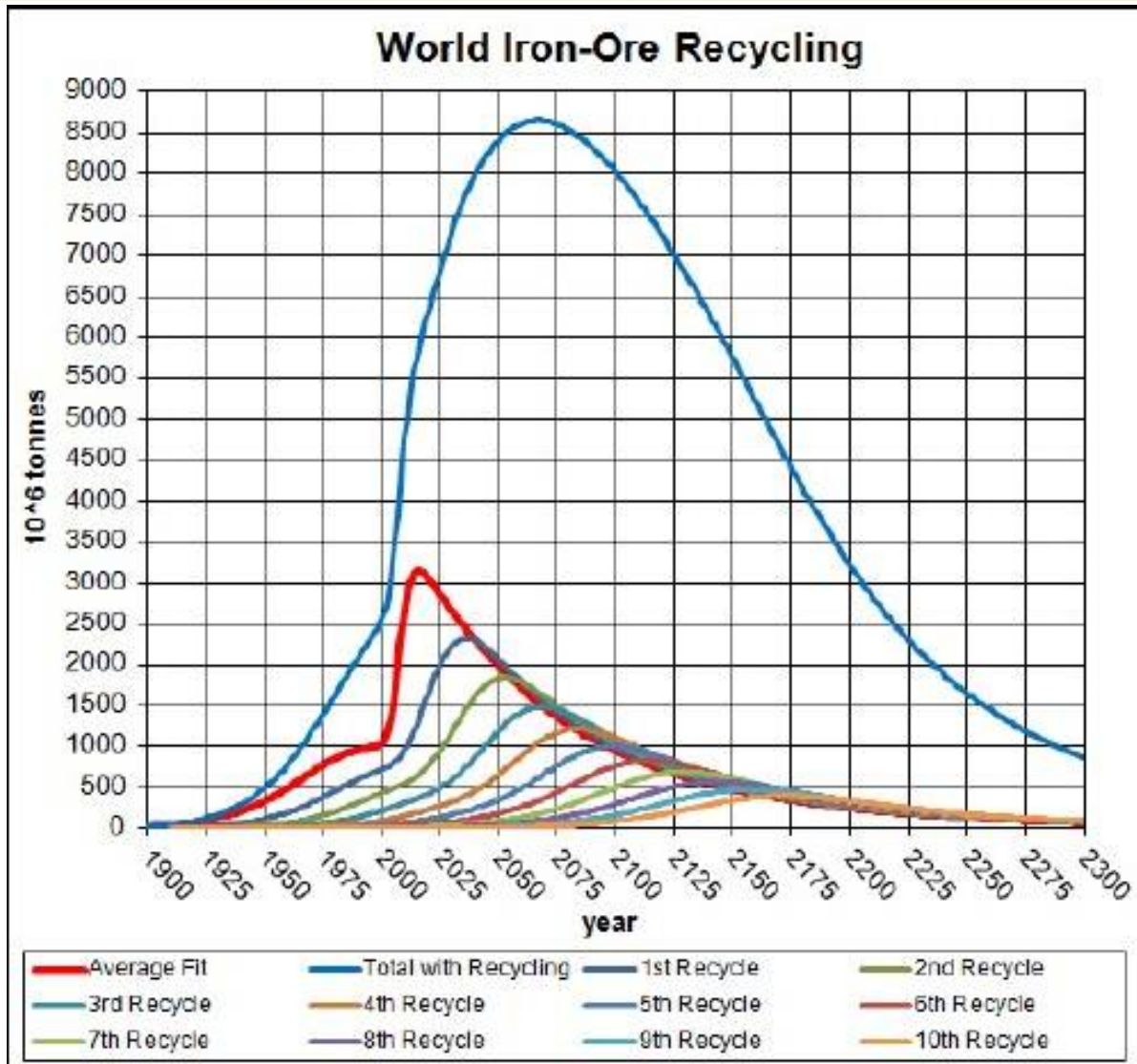
Rare Earth Challenge – Overblown?



Alonso et al. » Evaluating Rare Earth Element Availability: A Case with Revolutionary Demand from Clean Technologies.”
Environ. Sci. Technol. 2012, 46, 3406–3414



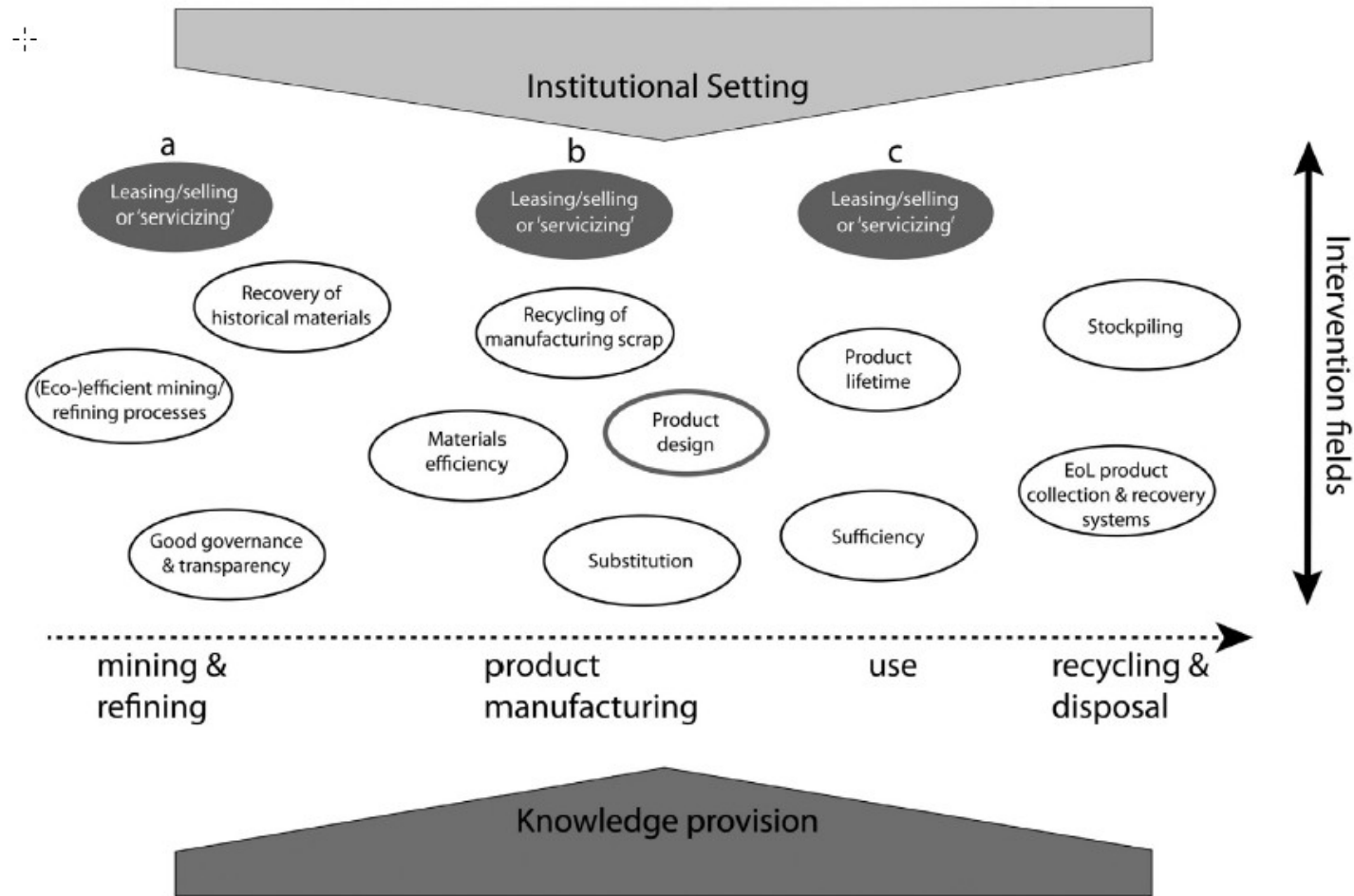
Transforming the “Peak” Approach?



L. David Roper.
Verhulst Fit projection
Professor emeritus of
Physics at Virginia Tech,
2011



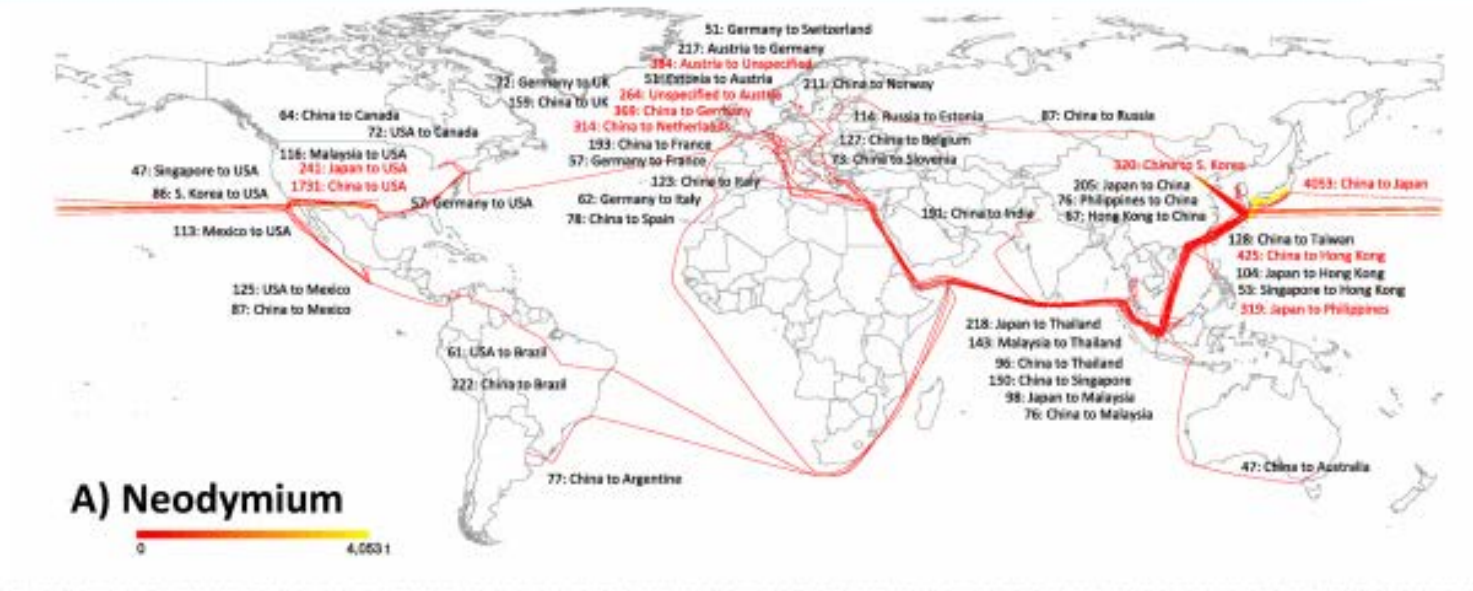
Lithium example



Prior T, et al, Sustainable governance of scarce metals: The case of lithium, *Sci Total Environ* (2013), <http://dx.doi.org/10.1016/j.scitotenv.2013.05.042>



Trade Flows



Nansai, K., Nakajima, K., Kagawa, S., Kondo, Y., Suh, S., Shigetomi, Y., Oshita, Y., 2014. Global Flows of Critical Metals Necessary for Low-Carbon Technologies: The Case of Neodymium, Cobalt, and Platinum. *Environ. Sci. Technol.* 48, 1391–1400. doi:10.1021/es4033452



Question posed to audience

Would a global treaty on minerals be a possible solution to dealing with the mineral scarcity conundrum around “green technologies?”

- Possible stakeholders – IRENA, Energy Charter Treaty, Green Growth Institute, Green Climate Fund
- Linkages to epistemic communities such as International Resources Panel and others

