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When materials become critical : lessons from the 2010 rare earth crisis
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1. The massive disruption caused by China's rare earth export policies leading to the 2010 rare earth crisis shows that the current *laissez-faire* approach to commodities is ill-suited to the metals market (Chapter 5).
2. The quick pace at which rare earths were substituted in the wake of the 2010 rare earth crisis shows that the current *laissez-faire* approach is well suited to the metals market (Chapter 6).
3. Most applications of REEs are inherently dissipative; society should prepare for a future without ready access to REEs (Chapter 2).
4. The environmental impact of REEs is negligible compared to the societal benefit its products bring (Chapter 3).
5. Although industrial ecology aims to develop system level indicators and tools, these tools take a very narrow and technologically focused view on what a system is comprised of (Ruth, M. 1998).
6. The future of IE lies in the comprehensive application of dynamics to all tools in the IE toolbox (Chapter 4).
7. The next frontier for LCA is the implementation of easy to use and appropriate regionalization (Mutel, C. 2012)
8. Inequality is a problem that IE is equipped to handle, but does so far too seldom (Alsamawi, A. et al. 2014)
9. The failure of the IE community to build an open source and up-to-date LCA toolset is analogous to the coordination failures that can be observed in the REE system (Chapter 7).
10. Climate change is such an overriding and immediate concern that industrial ecologists should cease their research and be involved in the decarbonisation of society in a more hands-on manner.
11. Science should do more to expose its findings to a wider audience. Therefore PhD candidates should write several Wikipedia pages instead of a dissertation.