

Risiko-Management im Einkauf der BASF anhand des Beispiels der Seltenen Erden



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BASF's Global Procurement Raw Materials What are we buying?



Inorganics

Building Blocks

Metals

Aromatics

Renewables

Performance Chemicals



Chemicals

Industrial Chemicals

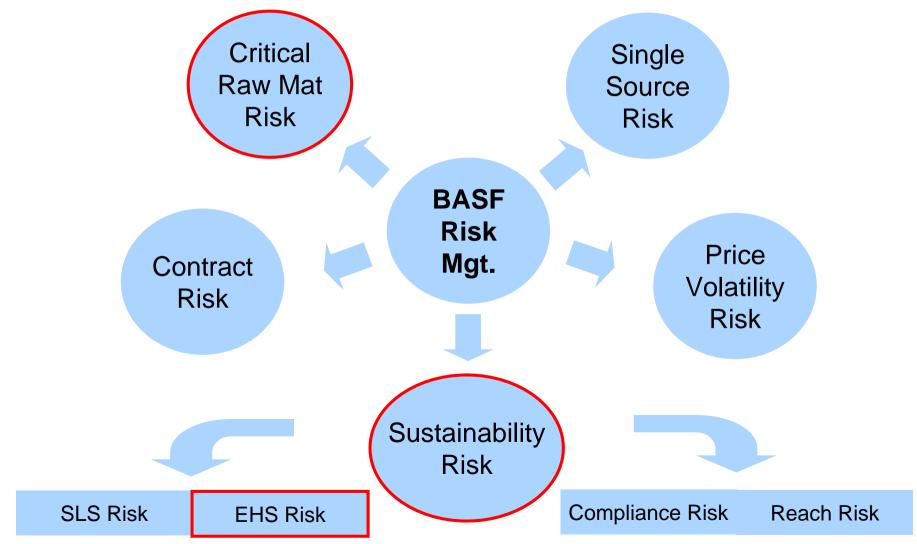
C1 Products

Energy

Additives Plastics

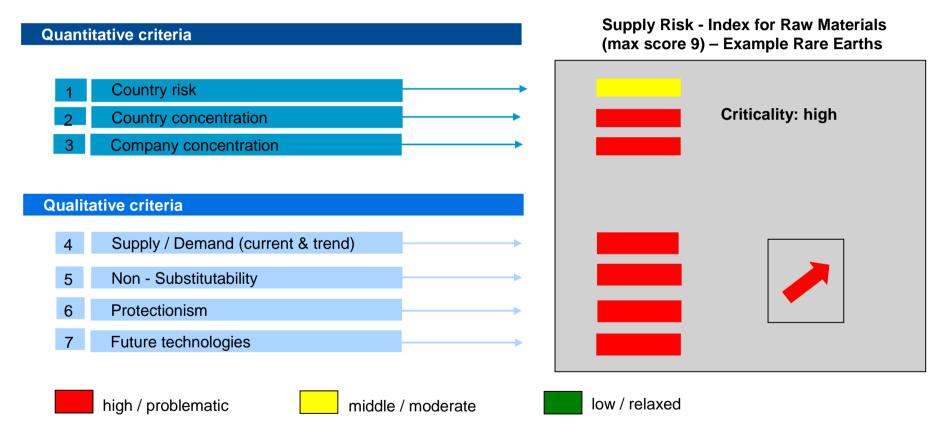
BASF Risk Management in Procurement





Critical Raw Materials – Early Warning Rare Earths

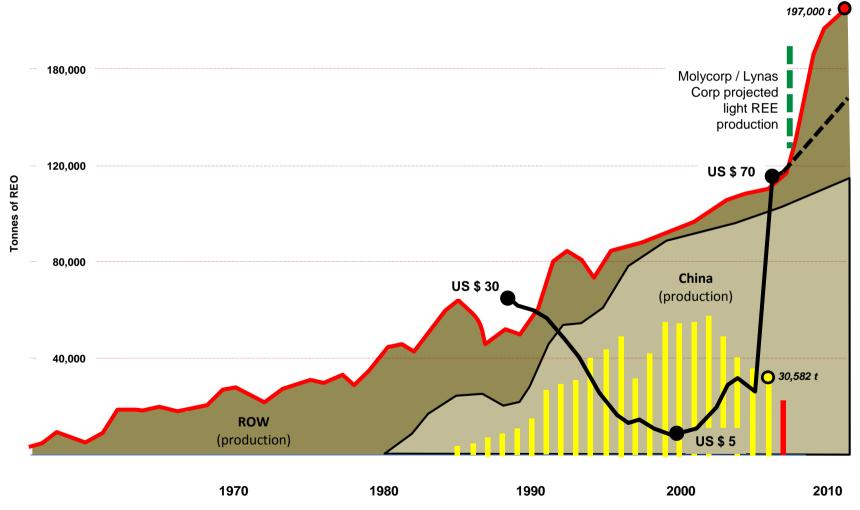




- Action required: RETF was set up in September 2010
- Due date: Solution until June 2011

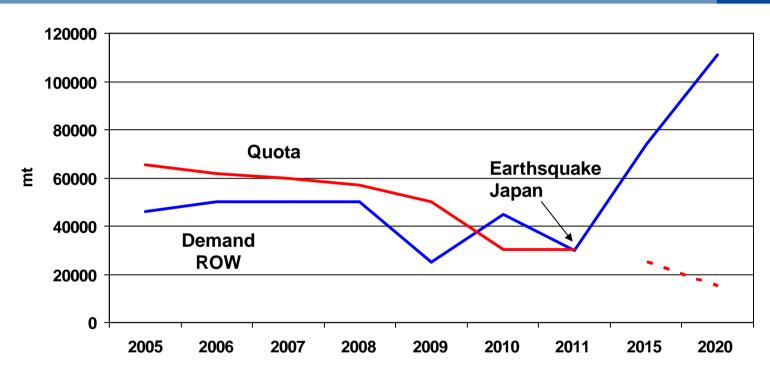
Rare Earths Supply Did the development alert us?





Rare Earths Supply A amply quota over years reduced our attentiveness!





- China has more than 95% market share
- Chinese government cut export quota by mid 2010 resulting in shortage
- Prices sky-rocketed

Sustainability Risks



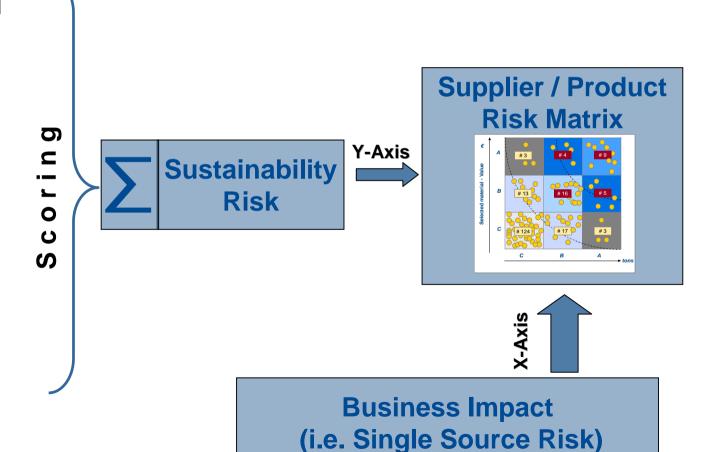
Product Risk

Social Labor Standards Risk

Environmental, Health & Safety Risk

REACH Risk

Compliance Risk



Sustainability Risks EHS – The burden of progress





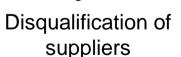
Source: Stern

Sustainability Risks EHS



Environment, Health & Safety (EHS)

- Risk assessment based on product risk by hazard (to humans & environment) and country risk
- Supplier audits on-site, performed and tracked by local EHS experts
 - Advice on measures to be taken, timeline agreed for improvement
 - Follow-up and re-audit after 6 months
 - Pass or...



Our suppliers comply with our quality management requirements and act in accordance with the **Principles of the Global Responsible Care®** initiative.

Risk Management Good reasons to thoroughly analyze risks



- 1. BASF has a high risk exposure because we directly spend ~1/3 of our turnover for raw materials.
- 2. A capable Risk Management helped us to make profit even during the financial crisis.
- 3. BASF Raw Materials Procurement implemented a comprehensive Risk Management system to be prepared for such uncertainties.
- 4. Risk Management is an integral part of our procurement strategies which helps us to reduce unacceptable risks.

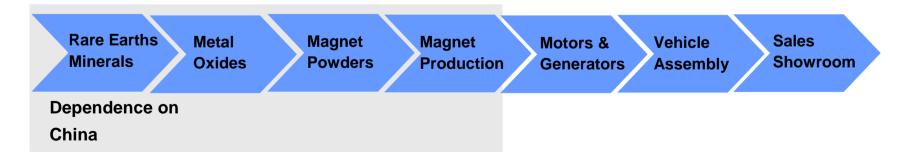
Risk Management Limits of Risk Management



Crude Oil Value Chain

Crude Oil Petroleum Recovery Refining	Fluid Catalytic Cracking	Gasoline Production	Distribution to filling stations	Consumer Access
Dependence on				
Middle East				

Rare Earths Value Chain



Developing a sourcing strategy for Rare Earths Supply/demand balance 2020

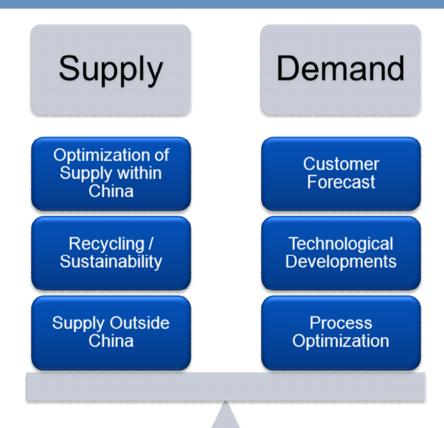


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	Global Balance	Chinese Balance	RoW Balance
Lanthanum			
Cerium			
Praesodymium			
Neodymium			
Samarium			
Europium			
Gadolinium			
Terbium			
Dysprosium			
Erbium			
Yttrium			

- There will be a battle for Dysprosium and Europium
- The Chinese will start buying some elements from outside China
- A relocation of production to China might not help to solve the problem

Developing a sourcing strategy for Rare Earths

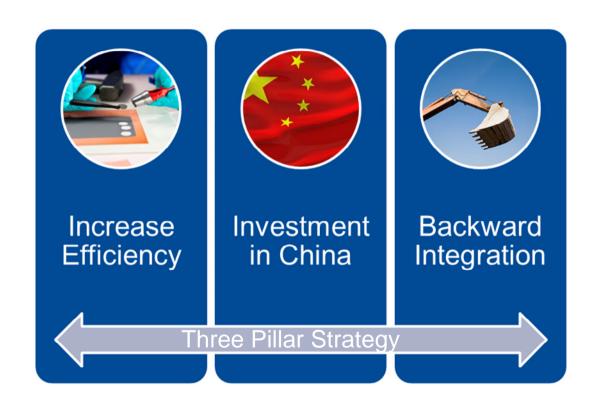




A task force from all affected businesses analyzed short- and long-term options.

Rare Earths Sourcing Strategy







The Chemical Company