

# Noen Europeiske perspektiver



## Communication from the Commission: Tackling the challenges in commodity markets and on raw materials:

- "Recent trends indicate that demand for raw materials will be **driven once more** by the future development of emerging economies"
- "...measures imposed by certain countries which translate into **privileged access** by their own industry to their own resources or export restrictions on raw materials. This creates **distortions in the global markets** and **uncertainties** in the regular flows of commodities"



# DG enterprise

## Raw materials for a modern society - Innovation partnership

- Support development of innovative technologies, possible regulatory action/cooperation with Member states, standardisation and public procurement instruments
- Benefits - mineral downstream industries: Euro 1 324 billion, 30 million people



# Objectives

- higher **security of supply**
- more **efficient and sustainable management** of non-energy materials
- increasing **resource efficiency**
- European based **recycling** activities
- by 2020 **10 pilot plants** for raw materials extraction/processing/recycling in operation
- **international** raw material dialog



## Milestones 2011

- high-level steering group
- **planning research** actions
- identify **legislation and standardisation targets**
- establish international cooperation, i.e. **Barents Region**
- suggest possible **research areas** for FP8



## Milestones 2012-2013

- key factors and infrastructure of European raw material **knowledge base**
- launching dedicated FP7(?) **research actions** targeting concepts and technology for new production plants - alternatives to at least three critical raw materials





## Milestones 2014-2020

- complete raw materials knowledge database including:  
**3D map of the distribution of resources(!)**,  
projection of future demand
- demonstrating **10 innovative pilot plants**
- industrially viable **alternatives** for at least 3 critical raw materials
- initiatives including **legislation and standardisation** promoting innovative solutions



## Key components

- WP1 new innovative technologies and solutions: **mining, processing, recovery and recycling**
- WP2 new innovative technologies and solutions: **substitution** of critical materials
- WP3 raw material knowledge base: **European resources** - exploration of primary and secondary raw materials on land and in marine environment, and estimation of "urban mining" resources
- WP4 **improving the regulatory framework**
- WP5 international cooperation - joint efforts





## Noen implikasjoner FoU

- Betydelig satsing på forskning i Norge er **strategisk helt nødvendig** for nasjonen for ikke å bli stående igjen på perrongen når de europeiske togene suser av gårde
- Fokus på verdikjeden er **riktig** sett i lys av strategisk tenkning i EU og FP8 (ressurs, prosess, utnyttelse og resirkulering)
- En FoU-strategi nå og forskningsprogram i kjølvannet er **god timing** i forhold til prosesser i Europa og verden



## Noen andre implikasjoner

- Norge må regne med en strøm av kommende forpliktelser i Europeisk sammenheng: ressursoversikter, standardiserte fremstillinger, innovasjonskrav, miljøkrav. Dette vil bli **dyrt og utfordrende**.
- **Mineralpolitikk** vil raskt bli et sentralt redskap for landene i Europa
- Vi må være forberedt på at **harmonisering av tiltaksapparat og lovgivning** kan få konsekvenser for den norske mineralloven
- **Barents-samarbeid og Nordisk samarbeid** kan bli våre viktigste vektstenger for å være med i den Europeiske utviklingen



Togene går fort i EU.....



Her...      ...eller her?

