

Welcome to the Second  
International Slag Valorisation  
Symposium:  
Introduction & CR<sup>3</sup> Launch

Jones PT, Blanpain B

SECOND INTERNATIONAL  
SLAG VALORISATION SYMPOSIUM  
THE TRANSITION TO SUSTAINABLE MATERIALS MANAGEMENT



# Content

- Megatrends and “megachallenges” (PTJ)
- SMM@K.U.Leuven → Launching CR<sup>3</sup> (BB)
- The 2nd Slag Valorisation Symposium (PTJ)

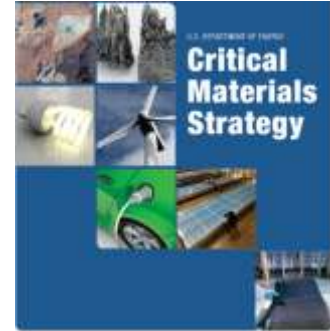


# Subtitle 2nd Slag Valorisation Conference:

- The transition to Sustainable Materials Management (SMM)
- Why?
  - Framing of our work is essential! → Cf. Press conference
  - SMM is an economic and ecological necessity



# Megatrends and “megachallenges”



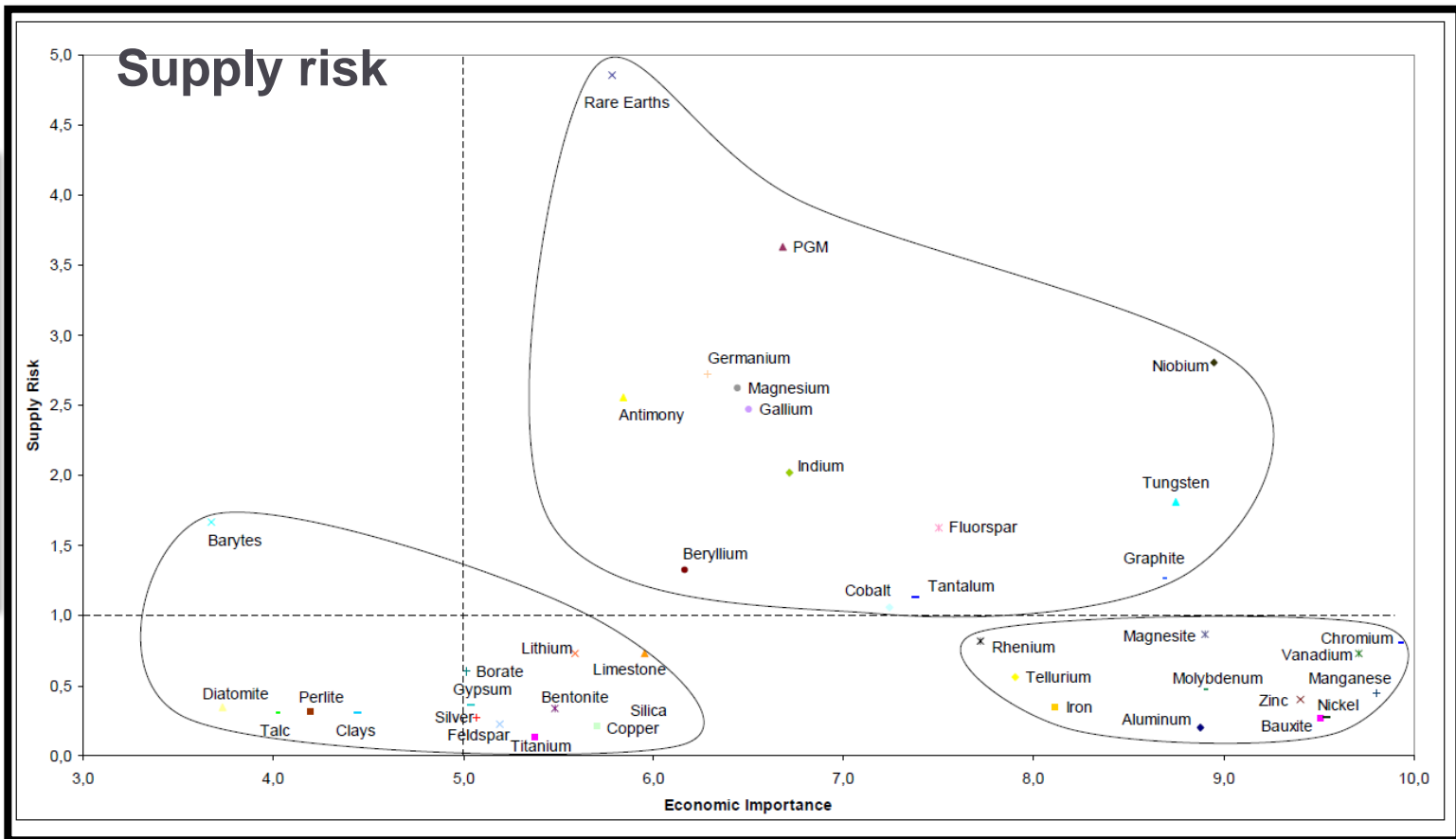
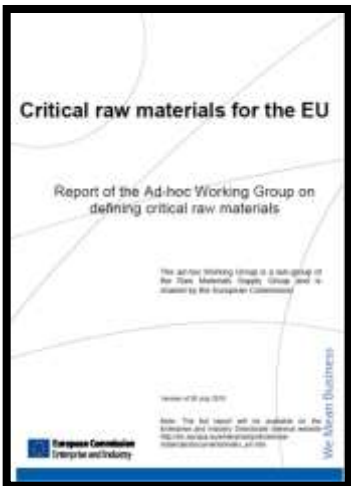
- The alarm bells are ringing:
  - EU Raw Materials Initiative
  - US Critical Materials Strategy
- Transition → low carbon circular economy
  - Energy transition
  - **Transition to Sustainable Materials Management (SMM)**
- Major changes in taxes/incentives
  - Including incentives for recycling and use of secondary resources !



# Resource depletion and concentration → supply risks

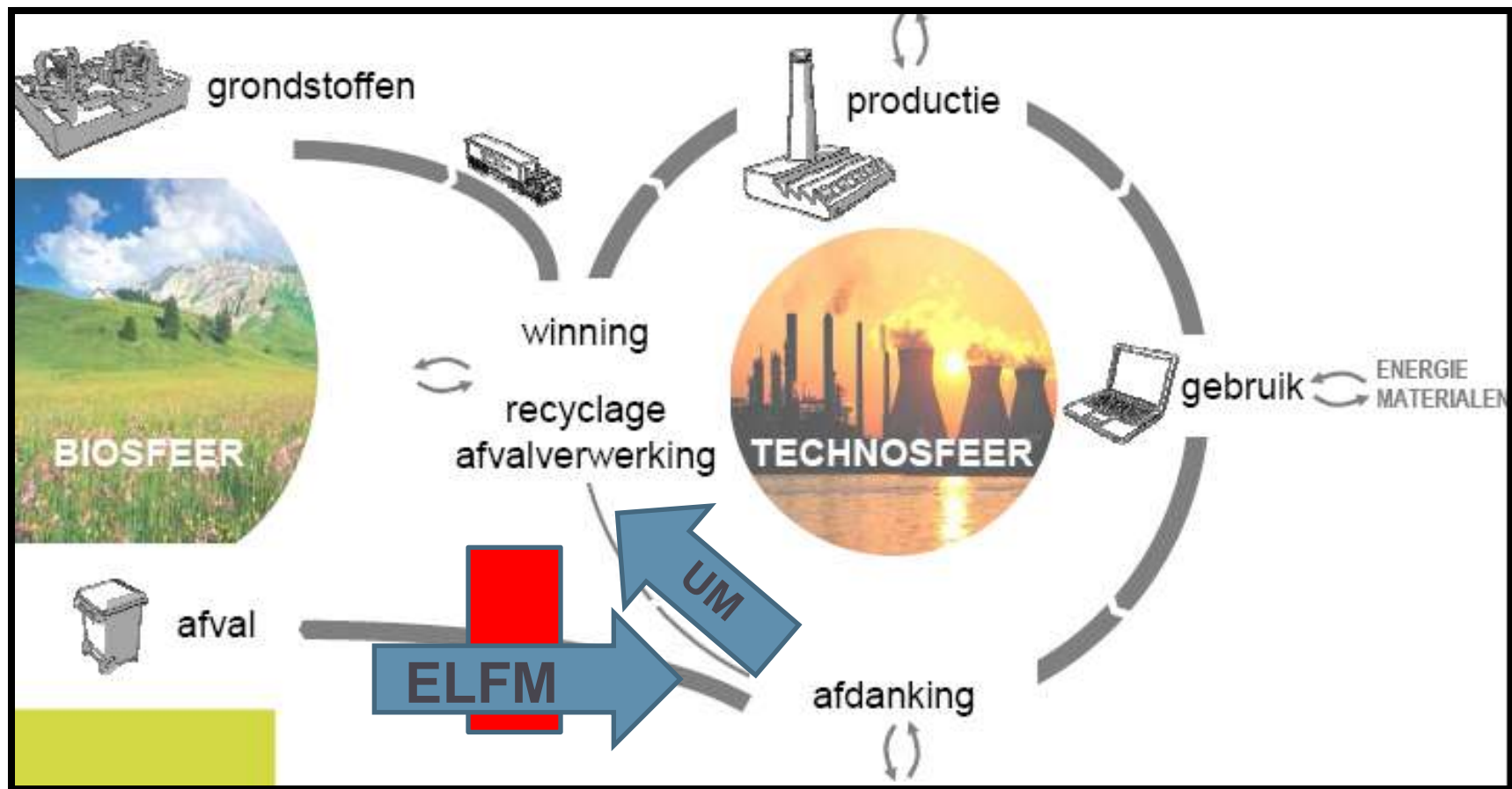


# Critical raw materials



**Economic importance**

# SMM: closing the loop smartly...



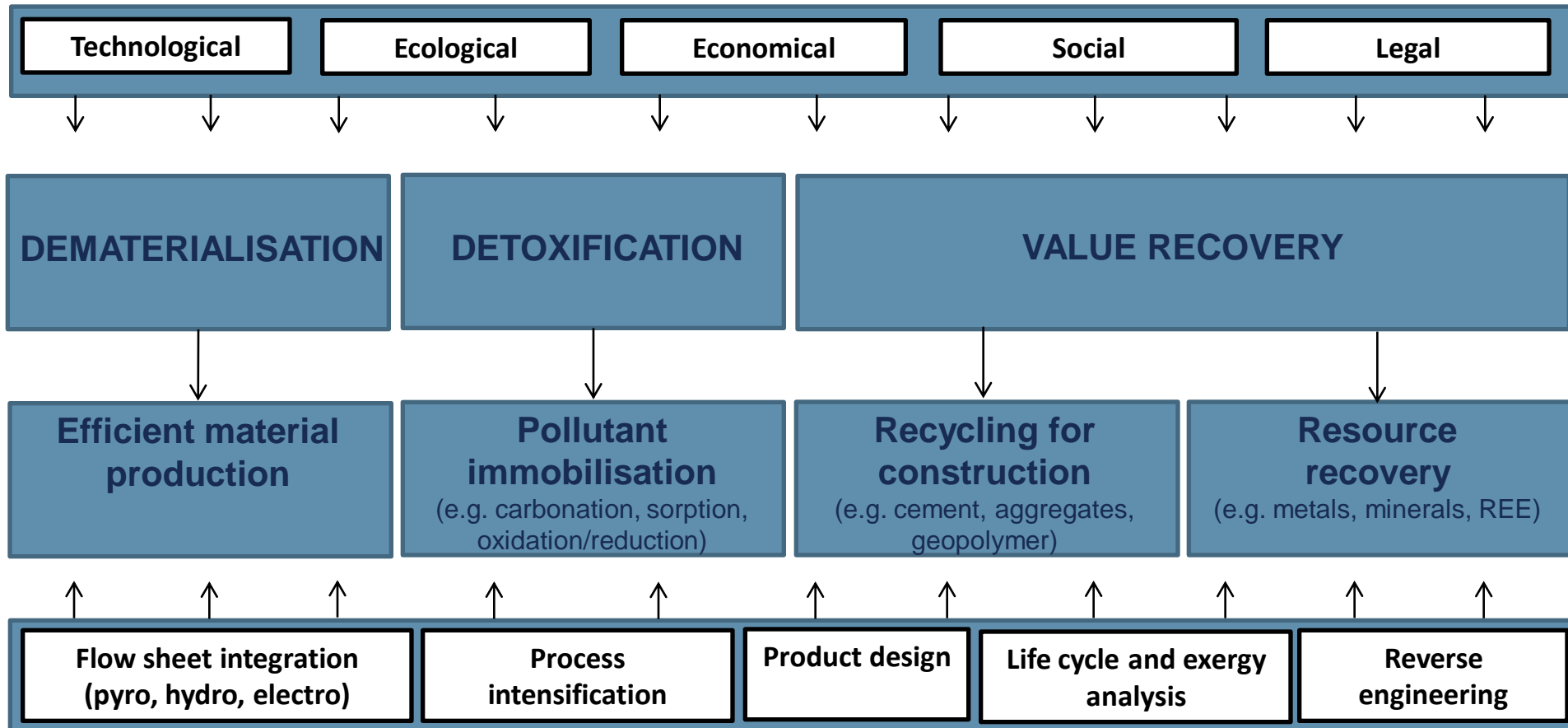
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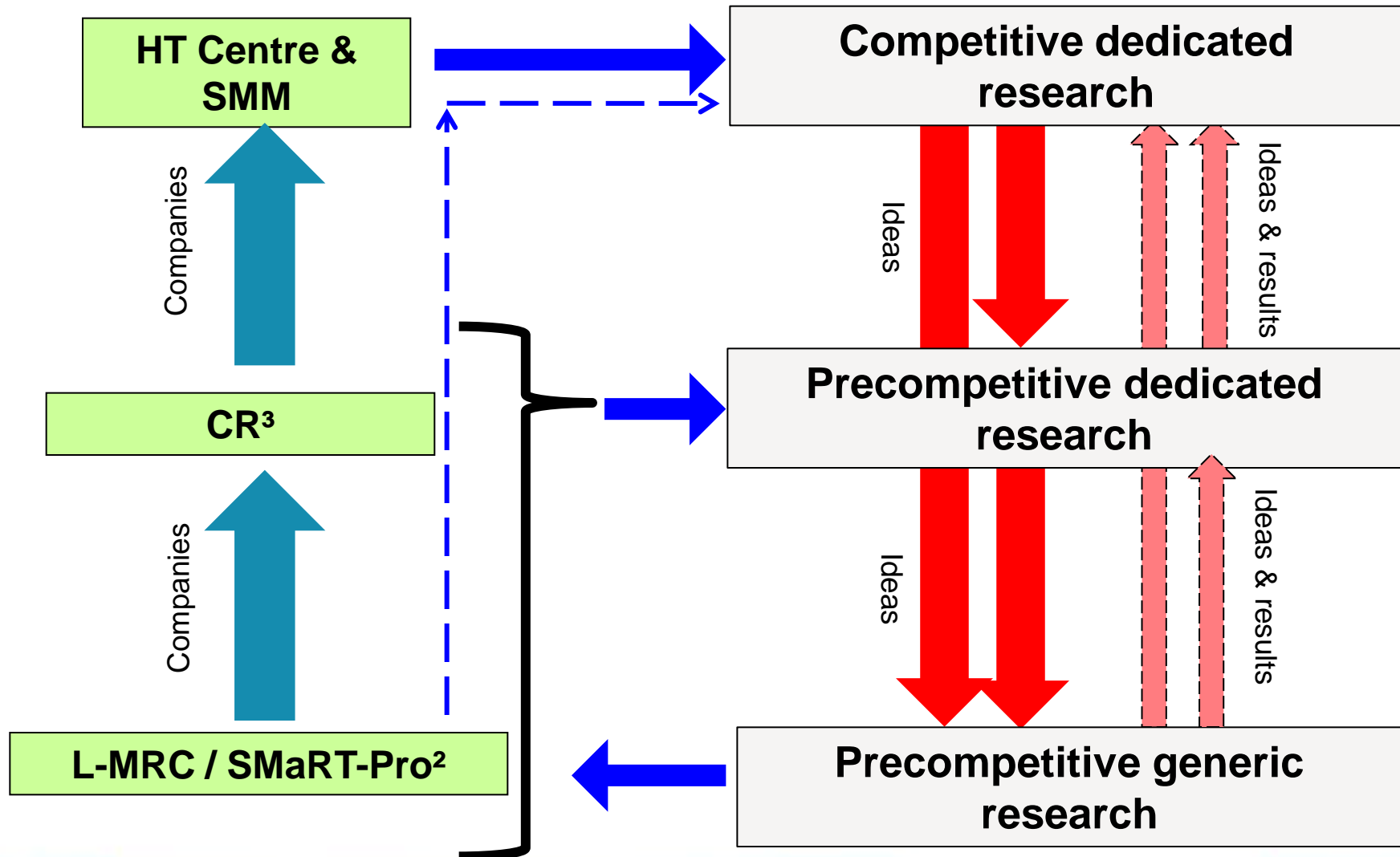


# SMM@K.U.Leuven: content

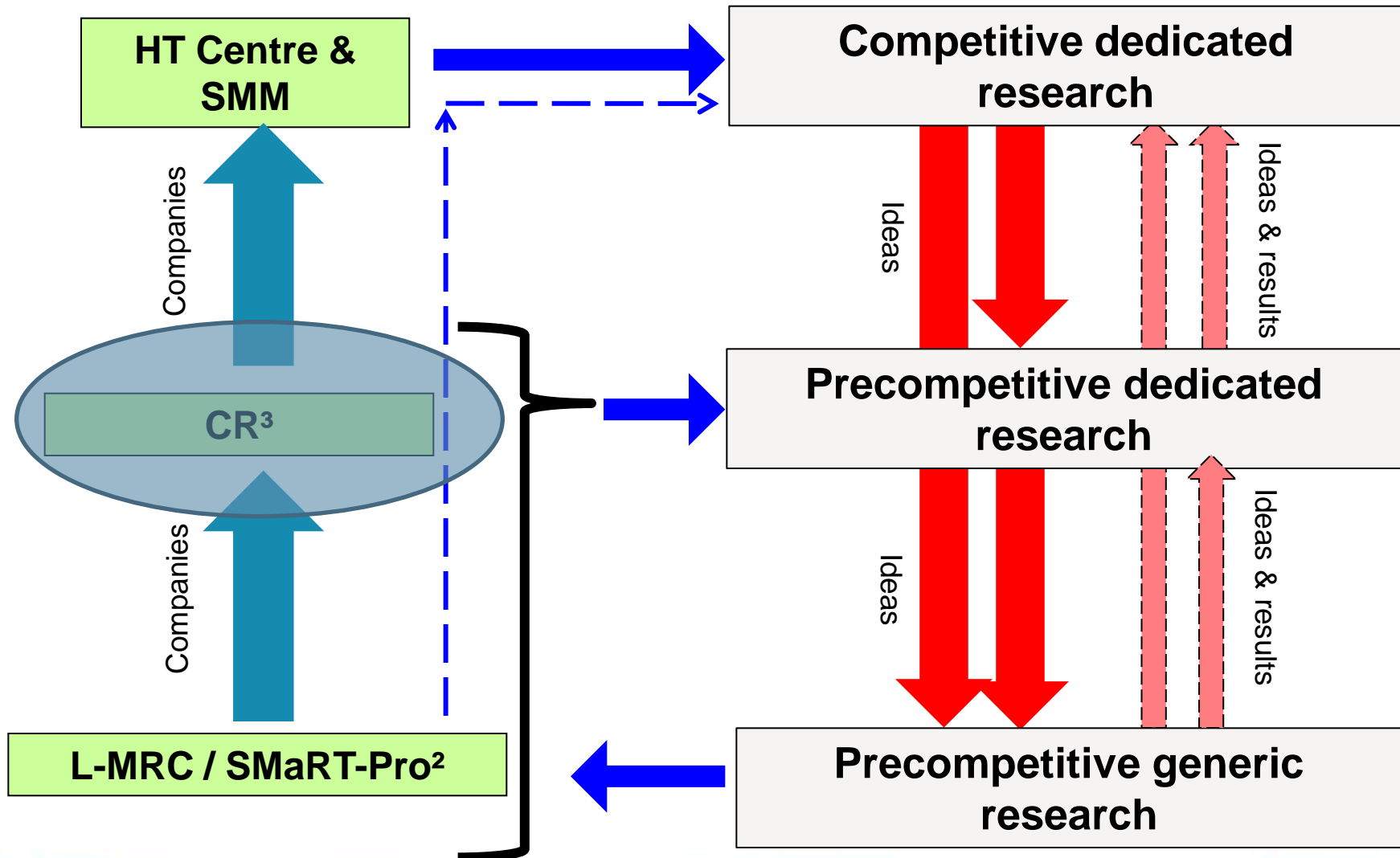


(Prof. Karel Van Acker, MRC/CR<sup>3</sup>)

# SMM@K.U.Leuven – Organisational Structures: interdisciplinarity & cooperation



# SMM@K.U.Leuven – Organisational Structures: interdisciplinarity & cooperation

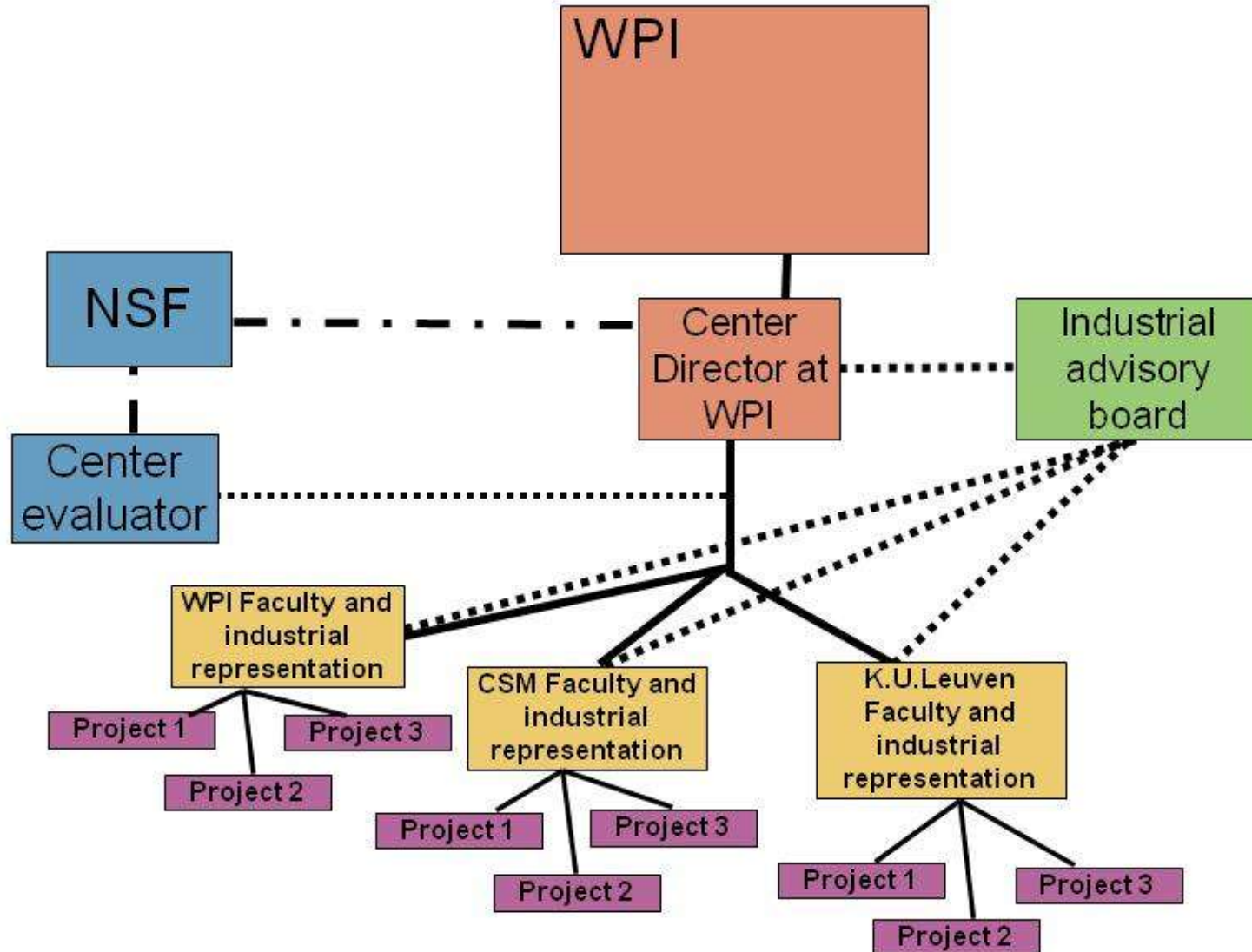


# 18/4/2011 = Official launch of CR<sup>3</sup>





# CR<sup>3</sup> Model: open innovation



# Industrial members



TOSOH

The Chemistry  
of Innovation



CR<sup>3</sup> K.U.Leuven



# Human potential...





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# The 2nd Slag Valorisation Symposium

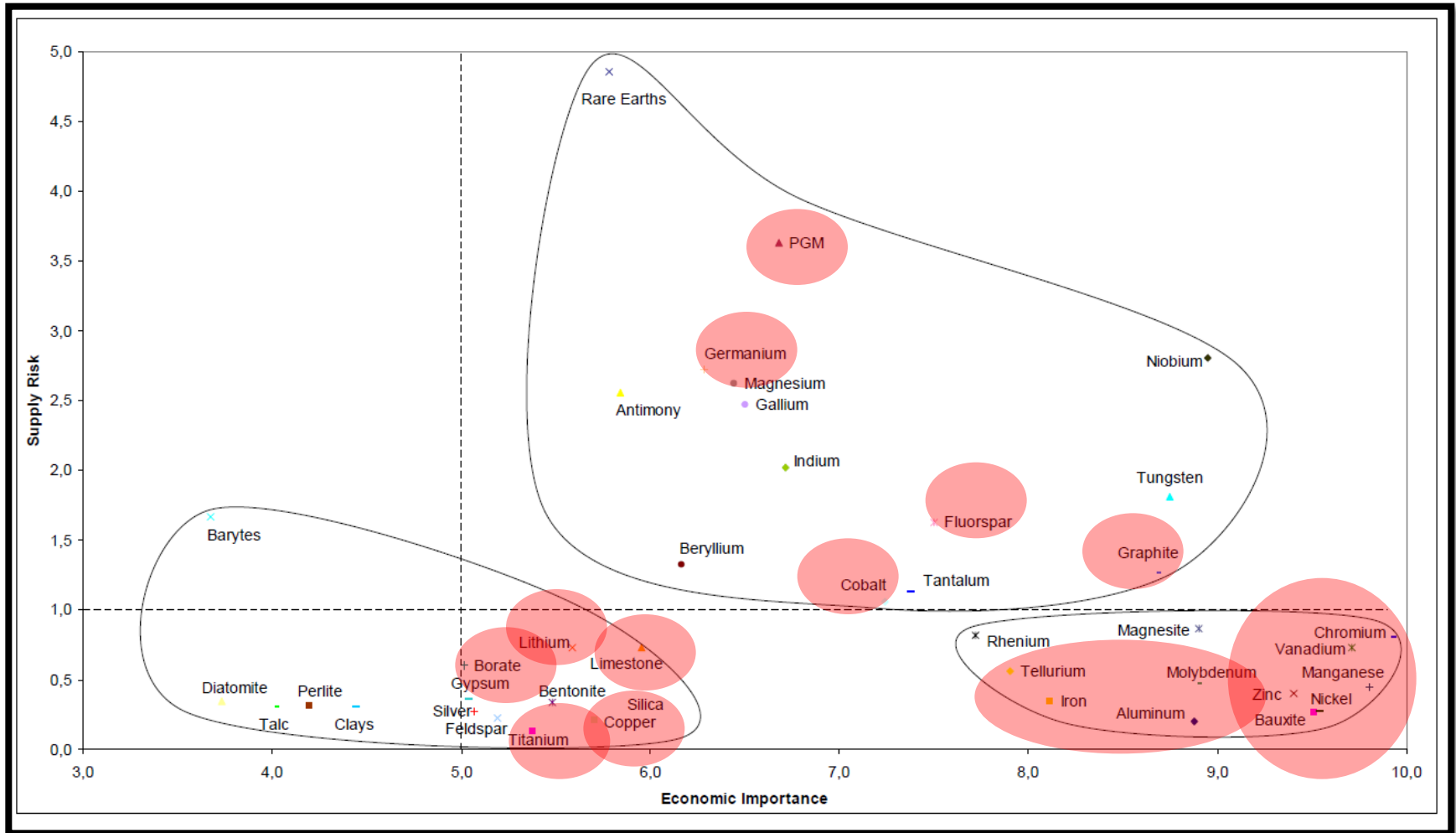
- Topic = high value valorisation of residues from (high temperature) processes = essential ingredient for the transition to SMM
- 26 speakers from academia and industry (EU, US, South-Africa, Australia, Japan, China)
- > 160 participants
- Large Board of Scientific Advisers



# Program – 4 Sessions

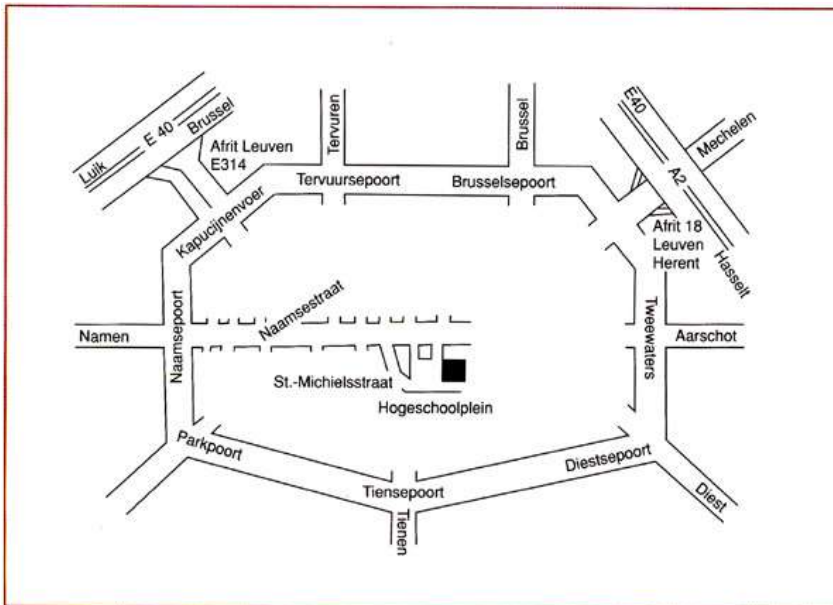
- Geopolymers, alkali activation and high temperature residues → CO<sub>2</sub> gains!
- Innovative construction materials taking advantage of slags and other high temperature residues → CO<sub>2</sub> gains!
- Environmental and legislative barriers for slag and residu valorisation
- Hot stage slag engineering as a method to improve slag valorisation options → CO<sub>2</sub> gains!

# A different perspective: 2nd slag Valorisation Symposium and (Critical) Raw Materials



# Symposium Dinner

- 19/4, 19h, Salons Georges
- Hogeschoolplein 15 Leuven





# Thanks for the attention!

- Hoping for a successful event!
- Now let's kick-off with Session 1:
  - being chaired by Prof. Jan Elsen and Prof. Angel Palomo