European Construction Technology Platform

Focus Area „Materials“

ECTP Support Group Meeting
Maastricht, October 14, 2004
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Rationale for „Materials“ Focus Area

Sustainable construction requires sustainable and attractive building materials

• Energy and raw material efficiency in production and use
• Easy application in construction process
• New functionalities (self-cleaning, heat storing, sensors, …)
• Improved durability

=> Knowledge-based, multi-functional materials available for all construction purposes – manufactured and used with minimum environmental impact
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Links to other FAs: some examples

Cities & Buildings
- Self-cleaning surfaces / surface aesthetics
- Self-healing / insulation
- Productivity

Underground construction
- Workers health & safety
- Productivity
- Durability
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Links to other FAs (cont.)

Networks

- Durability
- Thermal conductivity (self de-icing roads)
- Productivity

Quality of Life

- Minimizing raw material and energy use
- Extending durability
- Controlling emissions, leaching
Scope

• Focus Area „Materials“ should comprise as many building materials sectors as possible
• So far response from ceramics, composite materials and cement/concrete (= initial working groups)
• Close cooperation with other Focus Areas:
  - to consolidate challenges and research needs arising in vertical FAs
  - supplemented by own challenges/initiatives
  - avoid redundancies
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Objectives

• Inclusion of broad spectrum of building materials

• Develop document on challenges & Vision 2030 in 2004

• Refinement of vision and development of Strategic Research Agenda in 2005
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Action Plan

• Nov 11, 2004 first meeting in Heidelberg
  - scope, membership
  - initiate working groups
  - set up working plan
  - link to other FAs / contact persons

• Dec 02, 2004 Lausanne
  - reports on status other FAs
  - consolidate challenges
  - elaborate Vision 2030

• 2005
  - refine Vision
  - develop Strategic Research Agenda