Erabuild – National Funding for International Research

ECTP Conference
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What is Erabuild

- Network of national funding bodies
  - Programme owners
  - Programme managers
- Mission
  - Programme owners and managers cooperate and collaborate effectively
  - Scope: Operation and Construction of Buildings
- Project funded by EU
EBST - National Agency for Enterprise and Construction "Digital Construction"

Tekes – Finnish Funding Agency for Technology and Innovation, coordinator "Sara" & "Cube"

1. BMBF - German Federal Ministry of Education and Research
2. TÜV – Management Systems GmbH “Building and Housing”

Formas - The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning

1. BIC - Swedish Construction Sector Innovation Centre "Sustainable Buildings"

DTI - Department of Trade and Industry "Avanti"

1. Ministère de l'équipement, des transports, du logement, du tourisme et de la mer
2. CSTB - Centre Scientifique et Technique du Batiment "Sustainable Building"

SenterNovem "Compass"

1. BMVIT - Austrian Federal Ministry of Transport, Innovation and Technology
2. FFG - Austrian Research Promotion Agency
3. Ögut - Austrian Society for Environment and Technology "Building of tomorrow"
Erabuild – research projects

National Funding Bodies

Era-Net project

Funding

RTDI project

Companies
Universities

Funding
National – European dimensions

National interest

EU
ECTP and Erabuild

“Where to go?”

ECTP → Vision → SRA → Implementation (JTI, IP, ...)

↓ Contents ↓
(industry view)

↑ National funding

Erabuild → Trans-national programme
(Platform for collaboration using national funding)

“How to get there?”
Erabuild - Eurekabuild
Two pilot joint calls launched
  ● Managing information in construction
    ○ 4 projects selected, 2005
  ● Transformation of the Construction Sector through industrialisation
    ○ 8 projects selected, 2006

○ Total volume 6,0 M€
○ Funding from Erabuild 3,1 M€
Joint Call on Managing Information in Construction

Selected projects (total budget)

- Lund (Se) & VTT (Fi): ICT for Whole Life Optimization of Residential Buildings (325 k€)

- VTT (Fi)& CSTB & VUT (Au): Strat-CON Strategic Actions for Realising the Vision of ICT in Construction (270 k€)

- Chalmers (Se) & VTT (Fi): ISCIS - Integrated Supply Chain Information Systems (203 k€)

- Lund (Se) & CSTB: Evaluation of benefits of ICT for the industrialization of project and product processes in the construction industry (282 k€)

- Total budget 1080 €
Roadmap Themes

ICT enabled business models
New ways for sustainable exploitation of ICT as a key part of business strategy in the open European / global construction marketplace.

Knowledge sharing
ICT for transforming project experiences into corporate assets. Object repositories. IPR protection of complex shared data. Context aware applications.

Collaboration support
ICT tools for information sharing, project steering, negotiations, decision support, risk mitigation, etc.

Interoperability
Ontologies & open ICT standards for semantic communication. ICT infrastructures.

Value-driven business processes

Industrialised production
ICT for modular provision of customised constructions, logistics, assembly & services. Digital sites.

Digital models
nD models. Access to life time information for all stakeholders anywhere anytime. ICT for design, configuration, analysis, simulation, visualisation.

Intelligent constructions
Smart embedded systems & devices for monitoring and control. Embedded learning & user support.

Vision

Process

Enterprise

Project

Product

Strat-CON

VTT - 24 Oct 2006
Joint Call on Industrialisation
Selected projects (total budget)

- **Plug & Play**
  - Lund (se), CSTB (fr), Profactor (at), VTT (fi)
  - 769,000 €

- **Industrial Processes Supported by an Open Virtual Building Environment,**
  - Luleå (se), Tampere University of Technology (fi)
  - 556,000 €

- **Architectural quality, user requirements and mass customization in industrial building systems**
  - Cinark (dk), Chalmers (se)
  - 336,000 €

- **Developing values and delivering customer value in an industrialised context**
  - DTU (dk), Lund TU (se)
  - 665,000 €
Joint Call on industrialisation
Selected projects (total budget)

- TRANS- USERS – Industrialising the construction sector through user-driven innovation
  - SBI (dk), Lund (se), CSTB (fr)
  - 704,000 €

- New Industrialisation in Supply,
  - DTU (dk), VTT (fi), CSTB (fr), Chalmers (se)
  - 480,000 €

- Integration of project specific building information model into industrialised building process
  - Skanska (fi), Luleå (se)
  - 1,414,000 €
Potential Themes for a Trans-national Programme

Sustainable renovation
Process & ICT

- Common interest
- Added value from Erabuild
What to expect from Erabuild?

- To launch new pilot joint calls
- To get new countries involved

- To launch joint calls
- To launch trans-national programme(s)
- To coordinate national R&D funding
Thank You!