Trends in EU 6th Framework

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EU 6th Framework

Increased Danish building Industry and R&D community Involvement   in EU FP6?

FP6 is taking form with priority areas listed.

PRIORITY THEMATIC AREAS OF RESEARCH IN FP6

17.5 billion euro (IST 3625 million euro), 2002 - 2006

http://www.cordis.lu/fp6/eoi-instruments/tp.htm

There has during the summer been delivered around 15400(->20) Expressions of Interests (EOI) to the EU Commission where proposals to *large* **Integrated Projects** and **Networks of Excellence** are proposed.

Another instrument to build networks and aggregate potential participants for FP6 R&D projects are the so called Roadmap projects. E.g. the **RoadCon** and **Intelcity** projects.

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http://www.cordis.lu/ist/ka2/rmapworkingmethods.html

http://www.roadcon.org/

http://www.scri.salford.ac.uk/intelcity/

(IST 2002: Partnerships for the Future Conference - **4-6 November, Copenhagen**

http://2002.istevent.cec.eu.int/)

FIRST CALL 17.12.2002 (January 2003)

PRIORITY THEMATIC AREAS OF RESEARCH IN FP6

1. Integrating and Strengthening the European Research Area

1.1.1 Genomics and biotechnology for health

1.1.2 Information Society technologies

1.1.3 Nanotechnologies and nanosciences, knowledge-based multi-functional materials and new production processes and devices

1.1.4 Aeronautics and space

1.1.5 Food Quality and Safety

1.1.6 Sustainable development, global change and ecosystems

1.1.7 Citizens and Governance in a Knowledge-based society

2. Nuclear Energy

2.2 Management of radioactive waste

2.3 Radiation protection

1.1.2 Information Society technologies

1.1.2.i Applied IST research addressing major societal and economic challenges

Technologies for trust and security
Research addressing societal challenges
Research addressing work and business challenges
   e-business, e-government, e-Work systems, e-learning
Complex problem solving in science, engineering, businesses and for society

1.1.2.ii Communication, computing and software technologies

Communication and network technologies
Software technologies, embedded systems and distributed systems

1.1.2.iii Components and microsystems

Micro, Nano and Opto-electronics
Micro and Nano Technologies, Microsystems, Displays

1.1.2.iv Knowledge and interface technologies

Knowledge technologies and digital content:
Intelligent interfaces and surfaces:

1.1.2.v IST future and emerging technologies

ROADCON in a nutshell

- ROADCON is a **strategic RTD roadmap project on ICT in the construction sector**.

- As a roadmap project it will suggest and prepare actions for the forthcoming European 6th Framework Programme (FP6).

- It addresses "New ways of working and electronic commerce" (Key Action II) of the "Information Societies Technologies" (IST) programme. This is the area where most EC projects related to ICT in the construction sector are positioned.

- The proposal was submitted to the EC on the 21st of February 2002 and has been accepted. It is currently in final phase of contract negotiation with the EC.

- It will start in June 2002 and end in May 2003 which is before the anticipated 1st call for RTD proposals in FP6.

Matti Hannus, VTT

Topics

Examples of potential topics for FP6:

- Model based ICT
- Collaboration platforms
- Knowledge sharing in construction projects
- Life cycle support, facilities management (FM)
- E-business and e-marketplaces
- Best practices & demonstrations & deployment.
- Standards
- Contractual & legal issues
- Mobile applications
- Web services
- Product libraries + intelligent objects.
- User interfaces, 3D & Virtual Reality
- Simulation and optimisation
- Geographical Information Systems (GIS)
- ...
- More suggestions are expected from various interest groups.

An underpinning idea in many of these themes is computer-interpretable (model-based) information that will enable enhanced automation, integration and communication in construction.

The aim is to pave way towards new knowledge intensive processes in construction.

Identifying and promoting new business models will be a key issue in parallel with any technology theme.

Other important aspects: working condition,sustainability, etc.

Matti Hannus, VTT

Main aims

- Form a **strategy** for future research and development on ICT in construction.

- Prepare and suggest **RTD actions** and priorities for the construction sector in the forthcoming European 6th Framework Programme (FP6) and also to the EC.

- Identify **key actors** and stakeholders and prepare co-operation between them.

- Seek **consensus** among research, business and user organisations.
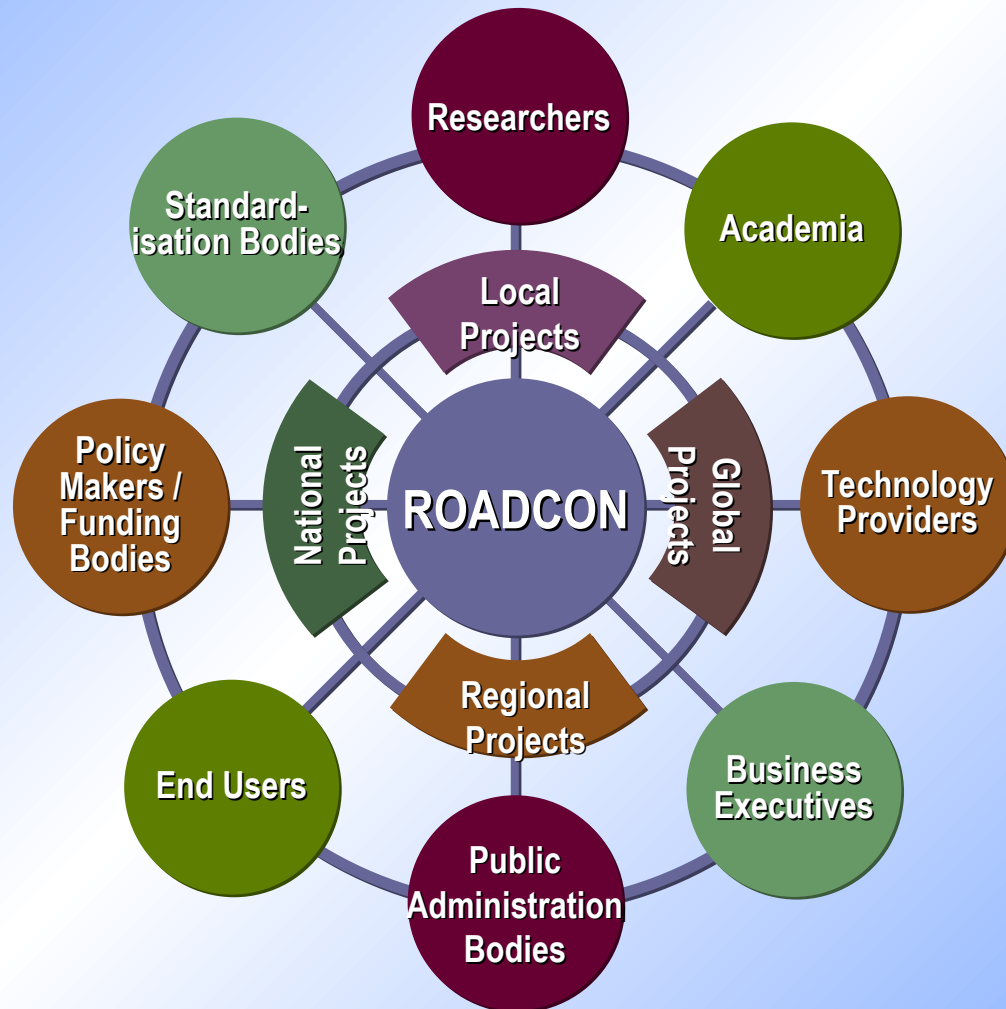
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Detailed objectives

- Establish a **forum** of key actors in the European Building Construction sector contributing to FP6.

- Develop a **vision** for sustainable and knowledge intensive construction.

- Achieve **consensus** on industry requirements, research and development priorities, regarding tools, infrastructures and processes for design / construction / maintenance.

- Suggest practical measures for developing, agreeing, promoting **standards** to be adopted by the industry.

- Set up a mechanism for on-going analysis of the **impact** of RTD projects.

- Suggest methods for collaboration and coordination in **major FP6 initiatives** for construction.

- Suggest methods for increased co-operation between European and **national RTD projects**.
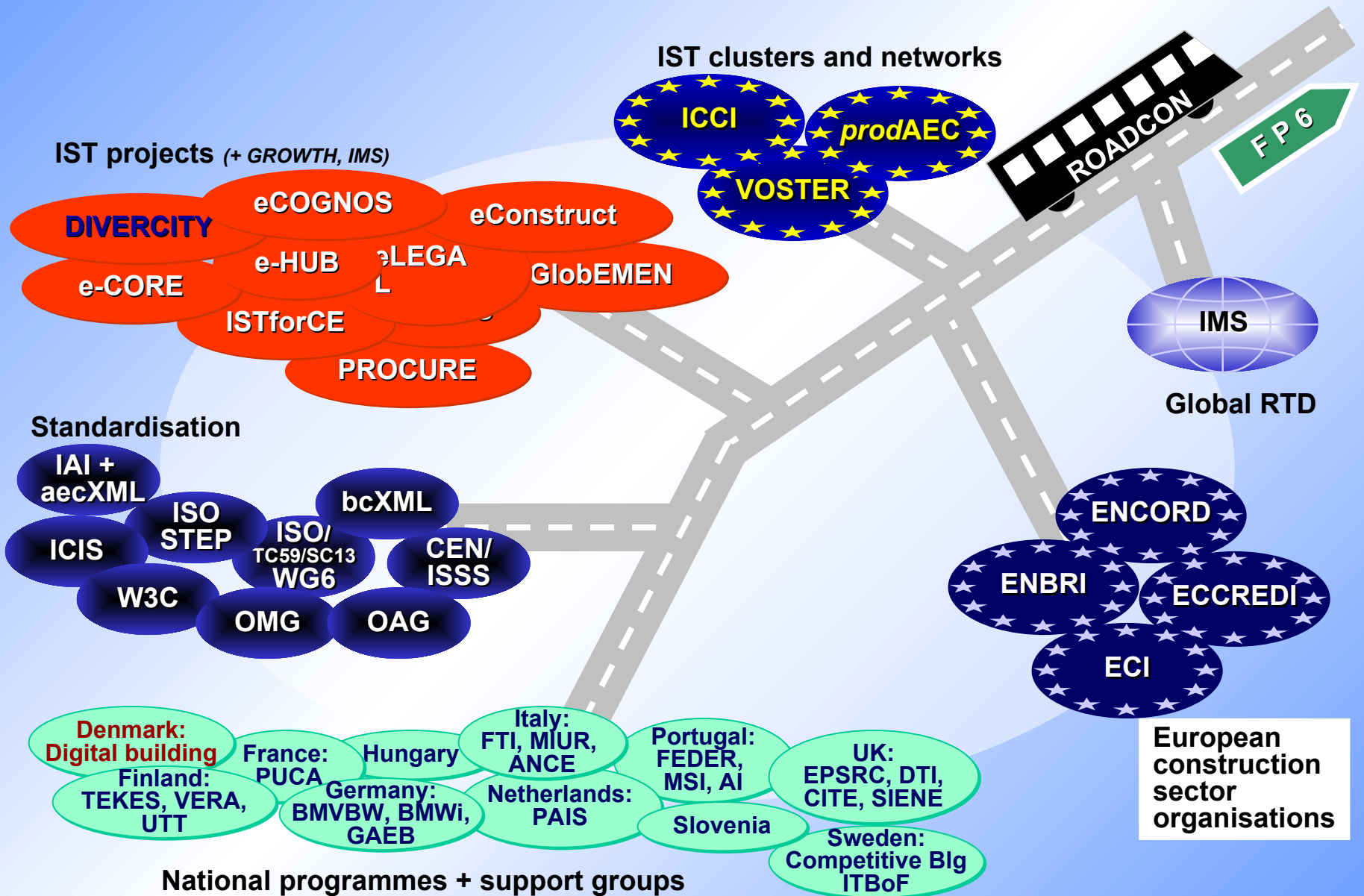
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Stakeholders

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Relations

IST clusters and networks

ICCI   *prod*AEC

VOSTER

ROADCON

FP 6

IST projects *(+ GROWTH, IMS)*

DIVERCITY   eCOGNOS   eConstruct

e-CORE   e-HUB   eLEGAL   GlobEMEN

ISTforCE

PROCURE

IMS

Global RTD

Standardisation

IAI + aecXML

ISO STEP   bcXML

ICIS   ISO/ TC59/SC13 WG6   CEN/ ISSS

W3C   OMG   OAG

ENCORD

ENBRI   ECCREDI

ECI

European construction sector organisations

Denmark: Digital building   France: PUCA   Hungary   Italy: FTI, MIUR, ANCE   Portugal: FEDER, MSI, AI   UK: EPSRC, DTI, CITE, SIENE

Finland: TEKES, VERA, UTT   Germany: BMVBW, BMWi, GAEB   Netherlands: PAIS   Slovenia

Sweden: Competitive Blg ITBoF

National programmes + support groups

END