



European Council
of
Civil Engineers

Standing Committee Knowledge&Technology

Chairman: ASKO SARJA
Vice chairman: PAUL RUBEN BORG

BUSINESS PLAN FOR THE YEAR 2012–2013

Standing Committee Knowledge & Technology

OBJECTIVE

The objectives of SC Knowledge and Technology in 2012–2013 are

- ▶ the follow up of the European and worldwide research and development in the field of building and civil engineer, and distribute information on this to the member Societies of Civil Engineers and to their members
- ▶ exploring and planning challenging needs and new solutions of knowledge and technologies in building and civil engineering in the selected issues.

BUSINESS PLAN: YEAR 2012

Task Forces in 2012

- ▶ 1. “Implementing the ECCE Social Network “Buildlife into the everyday activities of SC K&T.
- ▶ 2. “Follow up, distribution, exchange and discussing the general development of knowledge and technology in civil engineering at European level”
- ▶ 3. “ Contribution and support for implementation of “Energy Efficient nZEB (nearly Zero Energy) Buildings into praxis in ECCE countries
- ▶ 4. “Contribution and support for implementing the Lifetime oriented buildings and civil engineering into the praxis of ECCE countries
- ▶ 5. ”Planning of an ECCE Conference or Seminar on "Lifetime oriented Building and Civil Engineering"

TF1

- ▶ **Task Force 1: “Establishment of the ECCE Social Network “BuildLife”**
- ▶ Developing and implementation the application of a Social Network Technology for a key tool of the information exchange, distribution and discussion in SC K&T, and generally in ECCE activities ”.
- ▶ Social Networking means communication and interactive building of understanding with the help of information technology, while the partners are able to act both as consumer (user) and as producer.
- ▶ Renewal of the paradigm, working, visibility and productivity of SC K&T supported on the ECCE Social Network “BuildLife”

Strategy

- ▶ Defining and concretising the system and methodology of the Network
 - My ASCE Network as an example
- ▶ Collecting interested contact persons in ECCE countries for developing the content of the Network
- ▶ Collection of Best Practice Case Studies from Different European Countries.
- ▶ Analysis of best practice examples. Critical Assessment: Lessons to be learnt.
- ▶ Definition of Assessment Criteria

TF2

- ▶ **Task Force 2: “Follow up and contributing to the development of knowledge and technology in civil engineering at European level”**
- ▶ Follow up, collection, distribution, exchange and discussing the knowledge and technology in civil engineering at European level

Strategy

- ▶ Collection of Best Practice Case Studies from Different European Countries.
- ▶ Analysis of best practice examples. Critical Assessment: Lessons to be learnt.
- ▶ Definition of Criteria

TF3

- ▶ **Task Force 3: “ Contribution and support for implementation of “Energy Efficient nZEB (nearly Zero Energy) Buildings into praxis in EU”**
- ▶ The implementation and continuous use of the ECCE Social Network “Buildlife” will be started in the following themes:
 - Analysing and reporting the development of Energy Efficient Buildings in Europe and globally
 - Information exchange and collection through discussions and questions between ECCE members in ECCE Social Network “Buildlife”

Strategy

- ▶ Best Practice Examples: nearly Zero Energy Buildings.
- ▶ Climatic regions: Review of different regions in Europe [Heating, Cooling]
- ▶ Comparative evaluation of different countries and regions:
 - Plans for the change into EU 2010/31-nZEB building during this decade
 - Case Study Examples.

TF4

- ▶ **6. Task Force 4: “Contribution and support for implementing the Lifetime oriented buildings and civil engineering into the praxis of ECCE countries”**
- ▶ ▪ Collecting, analysing, exchanging and discussing the principles and practical use of lifetime oriented investment planning, design, construction and management
- ▶ ▪ Information exchange and collection through discussions and questions between ECCE members in ECCE Social Network “Buildlife

Strategy

- ▶ Analysis of Policy Framework in Different countries.
- ▶ Analysis of Building Regulations and Assessment Methods
- ▶ Comparative evaluation of different countries and regions

TF5: Lifetime Building & Civil Engineering CONFERENCE

Task Force 5: Conference or Seminar on "Lifetime oriented Building and Civil Engineering"

- ▶ Inviting the organiser of ECCE Annual Meetings 2012 for the organiser of this event
- ▶ Defining the objectives, content and organisation in co-operation between SC K&T and the organising association
- ▶ Planning and informing on the event through discussions between ECCE SC K&T, ECCE ExBo and national and individual members through ECCE Social Network "Buildlife"

TF5: Lifetime Building & Civil Engineering CONFERENCE

**”Planning of an ECCE Conference or Seminar on
"Lifetime oriented Building and Civil
Engineering“**

TF5: Lifetime Building & Civil Engineering CONFERENCE

Proposed Conference Topics [General]:

- ▶ Life Cycle Analysis Methodologies and Tools
- ▶ Policy and Regulations, Standards.
- ▶ Energy Efficiency in Buildings
- ▶ Zero Energy Buildings
- ▶ Materials and products in Building and Civil Engineering
- ▶ Life Time Structural Engineering: Buildings
- ▶ Life Time Structural Engineering: Bridges and Infrastructure
- ▶ Durability and Maintenance
- ▶ Applications and Case Studies