Eurocodes: Implementation and Further Development

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http://eurocodes.jrc.ec.europa.eu/
National Implementation of the Eurocodes:

Publication of national annexes until 2010 (58 parts)

(ENC Meeting September, 2010)
NDP database:

EN 1998

CZE – 100%

The percentage of uploading of NDPs on the Eurocodes by countries

(8 February 2011)
Training and Promotion

In this series:

**Booklets**
- B1: The Eurocodes: Implementation and use
- B2: The role of EN 1990: the key head Eurocode
- B3: The Eurocodes and construction products
- B4: The Eurocodes: Supporting EU policies and increasing competitiveness
- B5: The Eurocodes: Use outside EU
- B6: The Eurocodes and cooperation in the Euro-Mediterranean area

**Leaflets**
- L1: The Eurocodes: What are they?
- L2: The Eurocodes: Getting prepared
- L3: The Eurocodes: Increasing competitiveness
- L4: The Eurocodes: Opportunity to innovate

International workshops

Awareness material

Training workshops
Level 2/3 Training Workshops

Bridge Design to Eurocodes

Vienna, 4-6 Oct 2010

• Workshop with worked examples
• Approximately 140 participants
• All presentations are available in the JRC Eurocodes website
• A JRC report with the background information and worked design examples will be prepared and uploaded on the JRC Eurocodes website
JRC Reports published in collaboration with TC250
Eurocodes: Further development

New **materials**: FRP, glass, …

New fields of design: robustness, **existing structures**, membrane structures, …

**Sustainability**: recyclability, durability, use of environmentally compatible materials
Eurocodes: Further development

Basic Requirements for Construction Works (BWRs)

- BWR1 - MECHANICAL RESISTANCE AND STABILITY
- BWR2 - SAFETY IN CASE OF FIRE
- BWR3 - HYGIENE, HEALTH AND THE ENVIRONMENT
- BWR4 – SAFETY IN USE
- BWR5 – PROTECTION AGAINST NOISE
- BWR6 – ENERGY ECONOMY AND HEAT RETENTION
- BWR7 – SUSTAINABLE USE OF NATURAL RESOURCES

Goal:
“A set of Interoperable European Standards addressing all BWRs”
For further information on the Eurocodes

http://eurocodes.jrc.ec.europa.eu
Next generation of the Eurocodes

EC’s New Mandate to CEN (2010)

1. New Eurocodes or Eurocode parts
   • Assess existing buildings
   • Structural glass
   • Fibre Reinforced Polymers
   • Membrane Structures
   • Robustness

2. Development Existing Eurocodes
   • Harmonization – Reduce NDPs
   • Innovation/Design Methods/Calculation
   • Sustainability/Structural Design
   • Incorporate ISO standards
   • Simplification of rules
Eurocodes: Further development

- Extend European Standards for Construction to cover all six Essential Requirements and Sustainability

- “Head-Standards” for all BWRs

For each Basic Works Requirement:
- Basic principles
- Performance assessment methodology
- Minimum performance requirements
- Performance classes
NDP database:

Date of registration in the NDPs database