The Eurocodes: a landmark for the construction industry

Jean-Armand Calgaro
Chairman of CEN/TC250
THE EUROCODE FAMILY

EC1 - Actions
EC2 - Concrete
EC3 - Steel
EC4 - Composite
EC5 - Timber
EC6 - Masonry
EC7 - Geotechnical design
EC8 - Earthquakes
EC9 - Aluminium

EN 1990 Basis of Structural design
Masonry bridges: why not?

There is no Bridge Part in EC6 ...
Components of structural reliability in the Eurocodes
Masonry structures and robustness

Robustness of masonry structures has specific aspects

The Parthenon
A brief history of the Eurocodes

- 25/03/1957 Treaty of Rome
- 1957
- 1971 Public Procurement Directive 71/305 CEE
- 1979 10/03/1979 European Monetary System
- 1993 Construction Product Directive (CPD) 89/106 CEE
- 2010 2011 Withdrawal of contradictory national standards
- New CPR ?

1976 First Eurocodes
- Steering Committee
1990 ENVs
1998 ENs
2007 CEN

- Maintenance
- Harmonization
- Promotion
- Further Developments
The Future of the Eurocodes

- Revision/evolution of the Eurocodes
- Preparation of Technical reports/specifications
  * Assessment of existing structures
  * Glass
  * FRP
  * Tensile surface structures

No fundamental changes in the existing Eurocodes

General Agreement
Commission / CEN
General Mandate
Specific Mandates

Withdrawal of conflicting national standards

Medium-term strategy

Long-term strategy

2009
2010
2013
2015
2020

Publication of the next generation of Eurocodes
“Let us remember that the EN Construction Codes are primarily a commonwealth of a vocabulary, a lexicon, memorable mathematical formulae, familiar phrases, models of thought, units of measure, secret symbols, secondarily they are common social values, and only thirdly are they anything to do with being physically correct. Those who read the bible may find this familiar.

When I see a colleague in Paris transcribe into French a report on matrices and pretension, for a project on the Rhine, drafted in mandarin-english by a Shanghai colleague based in Stuttgart, I say that the priority is a common lexicon.”

Henry Bardsley, RFR
No, this house was probably not designed with EC6

Thank you for your attention