



# **JRC activities in support of the implementation, harmonisation and further development of the Eurocodes**

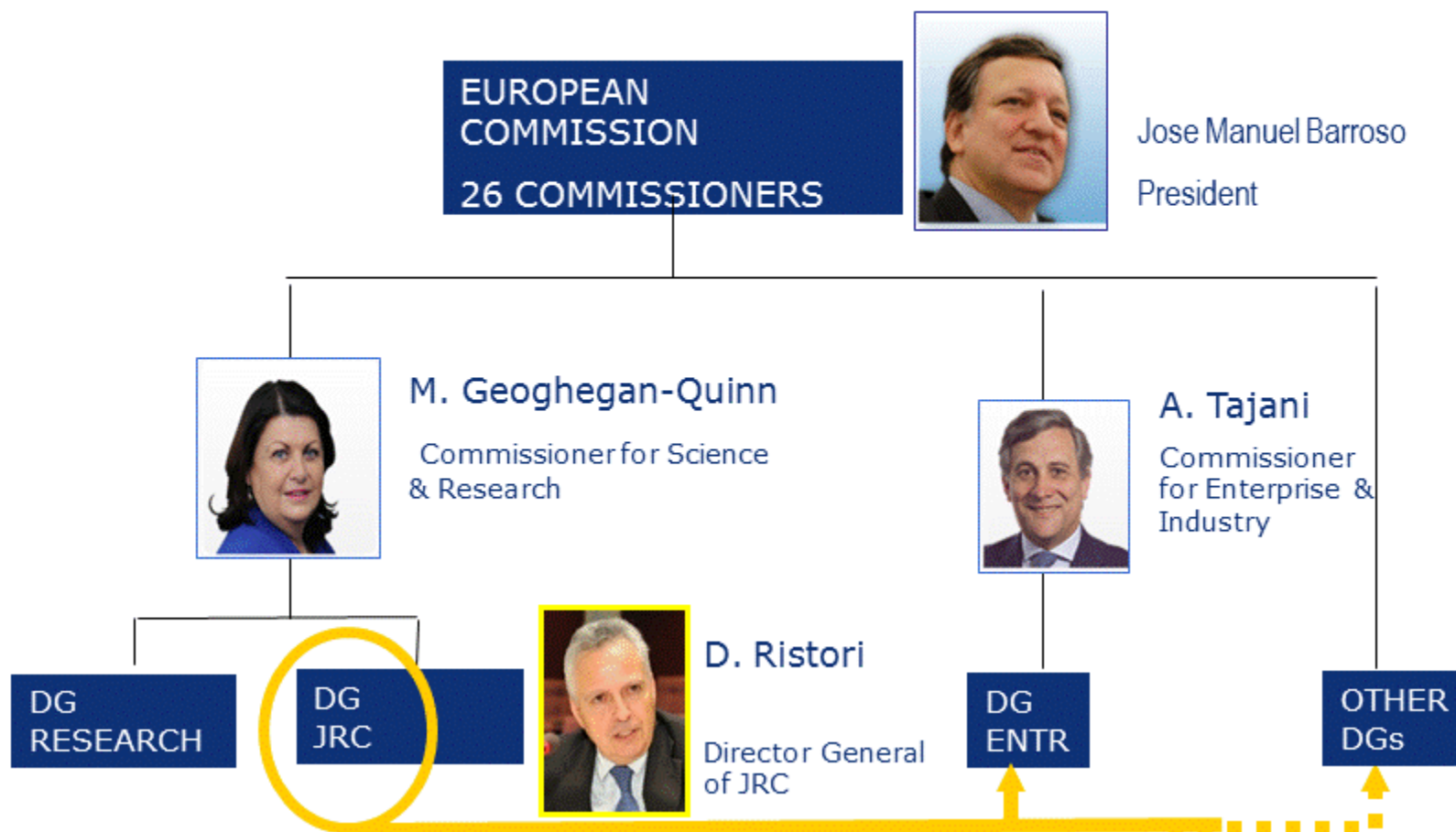
**A.Pinto, S.Dimova, B.Nikolova**



<http://eurocodes.jrc.ec.europa.eu/>

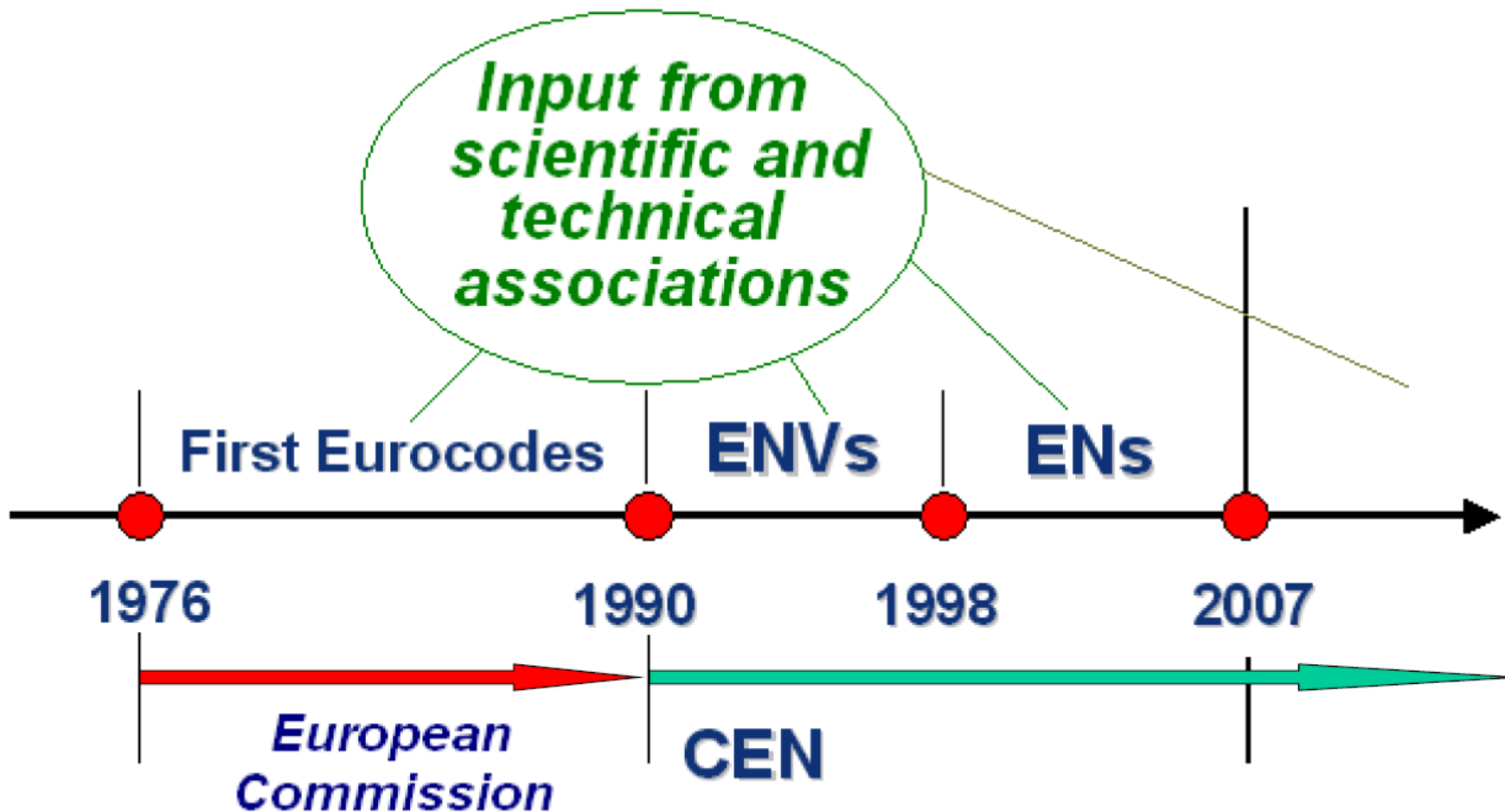
**Joint Research Centre  
Institute for Protection and Security of the Citizen  
European Laboratory for Structural Assessment**

# The Joint Research Centre – JRC

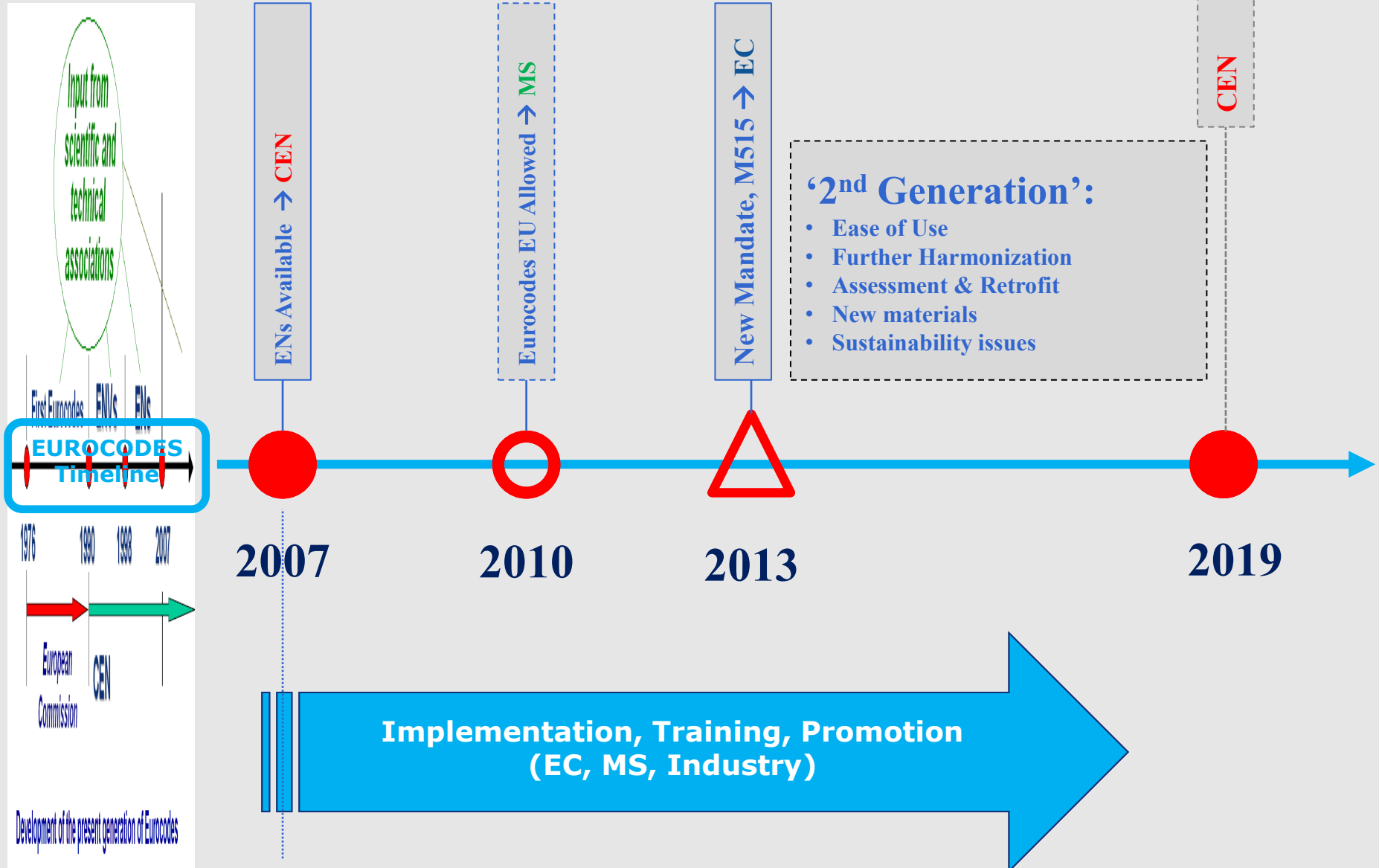


# Outline

- Eurocodes Timeline, Training and Promotion
- Implementation of the Eurocodes ... NDPs database
- Use of the Eurocodes outside the EU
- Helpdesk, Website, ...



## Development of the present generation of Eurocodes



# Training and Promotion



**GEOTECHNICAL DESIGN with worked examples**

13-14 June, Dublin

# Eurocodes: Training and Promotion, ... (JRC in Co-operation with DG ENTR, CEN, MSs)

**EUROCODES**  
Background and Applications

"Dissemination of information for training" workshop

18 February  
Chateauguay Conference  
Centre  
rue de la Loi 170, Brussels

19-20 February  
Palais des Académies  
rue Dussan 1, Brussels

Organised by  
European Commission  
DG Enterprise and Industry, Joint Research Centre

with the support of  
CEN/TC250, CEN Management Centre and Member States

**EUROCODES**  
Bridges: Background & Applications

Workshop on  
**BRIDGE DESIGN TO EUROCODES**  
with worked examples

4-6 October 2010, Vienna  
Austrian Federal Ministry for Transport, Innovation and Technology

Organised and supported by:  
European Commission, DG Enterprise and Industry and  
Joint Research Centre  
CEN/TC250, CEN/TC250 WG Bridges, CEN Management Centre and  
Member States  
Austrian Federal Ministry for Transport, Innovation and Technology  
Austrian Standards Institute

**EUROCODE 8**  
Background & Applications

**SEISMIC DESIGN OF BUILDINGS**  
Workshop with worked examples

10-11 February 2011, Lisbon  
Laboratório Nacional de Engenharia Civil (LNEC)

Organised and supported by:  
European Commission, DG Enterprise and Industry and  
Joint Research Centre  
CEN/TC250, CEN/TC250 SC8, CEN Management Centre and  
Member States  
Laboratório Nacional de Engenharia Civil (LNEC), Lisbon, Portugal

**EUROCODES**  
BACKGROUND AND APPLICATIONS

**STRUCTURAL  
FIRE DESIGN**

27-28 NOVEMBER 2012  
BRUSSELS, BELGIUM

ORGANISED AND SUPPORTED BY  
**EUROPEAN COMMISSION**  
DG ENTERPRISE AND INDUSTRY  
JOINT RESEARCH CENTRE

**EUROPEAN COMMITTEE FOR STANDARDIZATION**  
CEN/TC250 - HG FIRE

**EUROCODES**  
BACKGROUND AND APPLICATIONS

**GEOTECHNICAL DESIGN**  
WITH WORKED EXAMPLES

13-14 JUNE 2013  
DUBLIN, IRELAND

ORGANISED AND SUPPORTED BY  
**EUROPEAN COMMISSION**  
DG ENTERPRISE AND INDUSTRY  
JOINT RESEARCH CENTRE

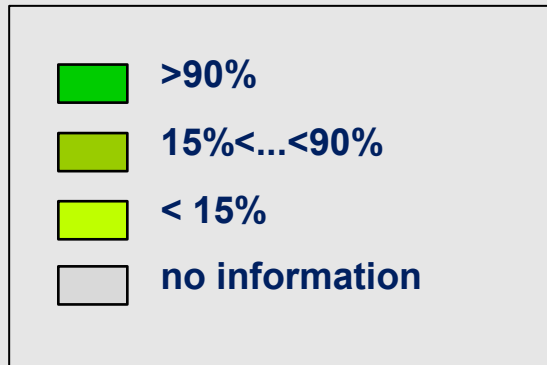
**EUROPEAN COMMITTEE FOR STANDARDIZATION**  
CEN/TC250 - SC 7

IRELAND'S DEPARTMENT OF THE ENVIRONMENT,  
COMMUNITY AND LOCAL GOVERNMENT

# Implementation

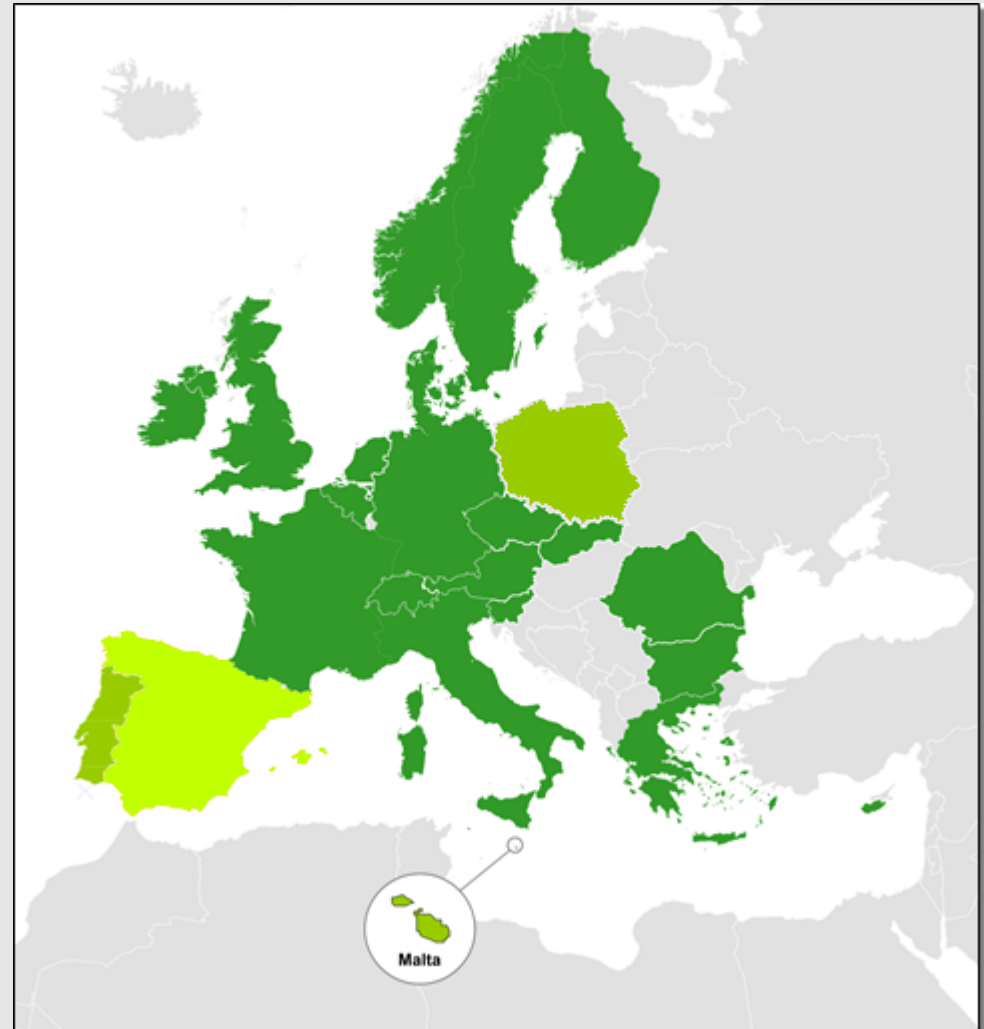


# Publication of National Standards (58 parts)



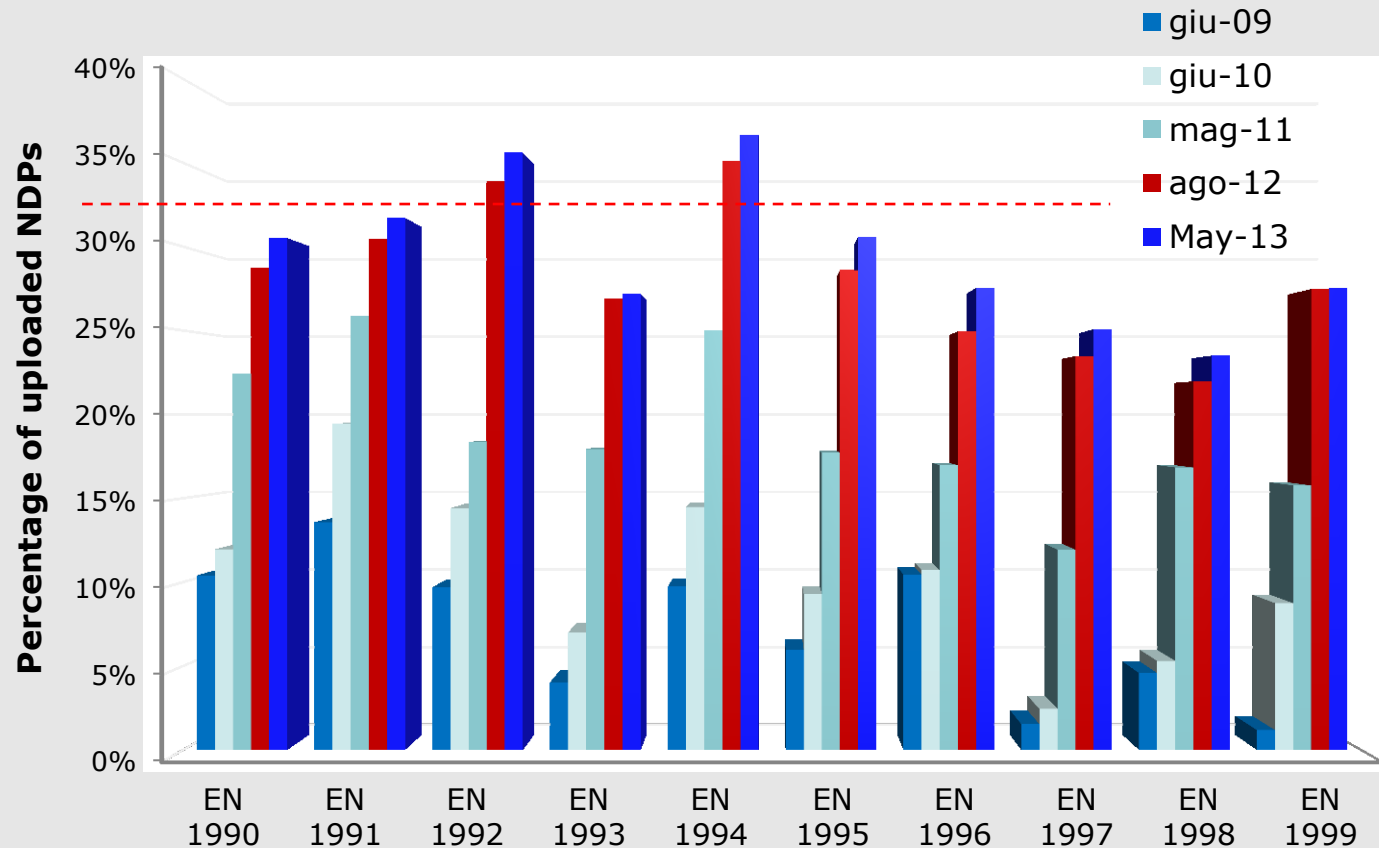
*(Jan. 2010 )*

*(June 2010 - updated: PRT, NLD)*



Update on NDP database

## NDPs database – progress of uploading

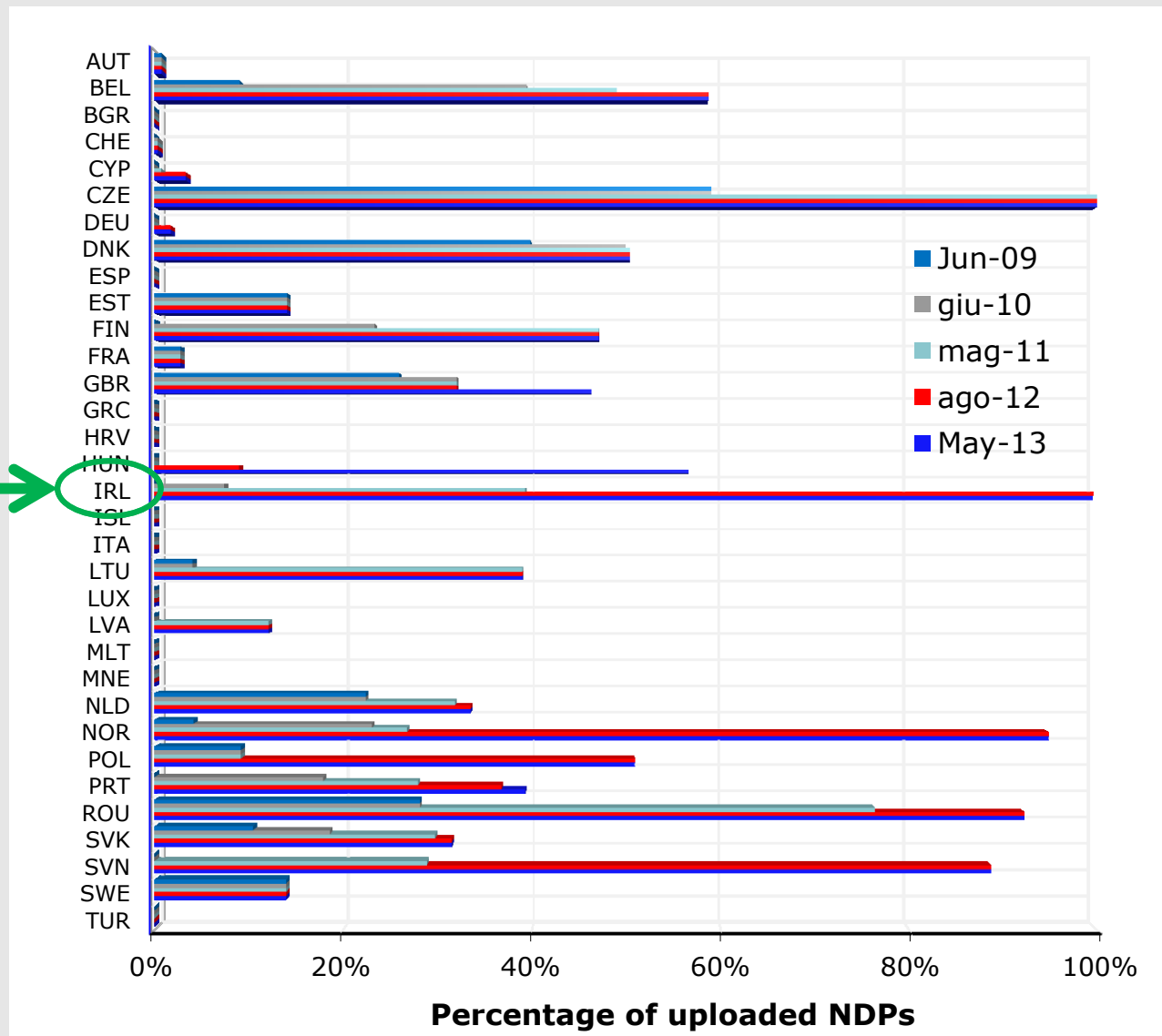


JRC focuses to maintain the momentum in rate of upload !

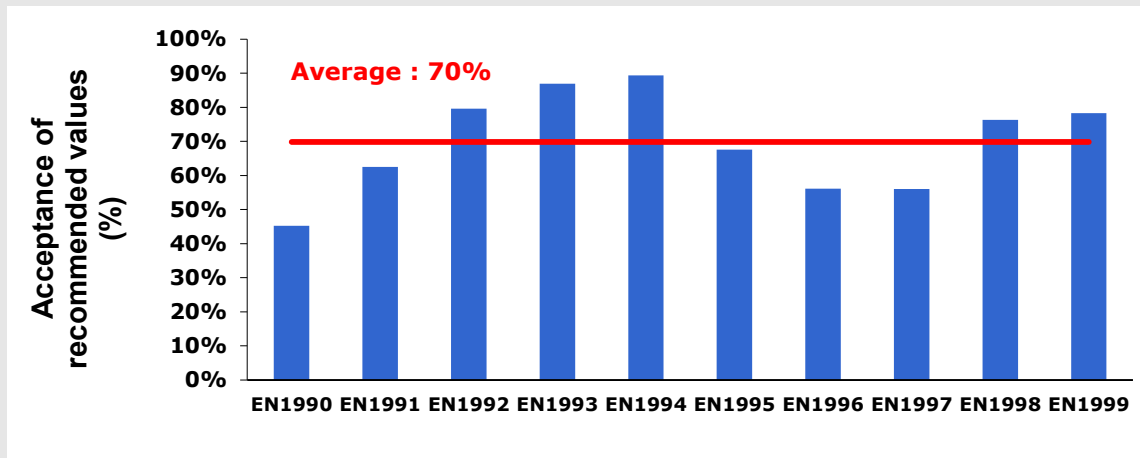
## NDPs database progress of uploading

**IRELAND  
Well done!**

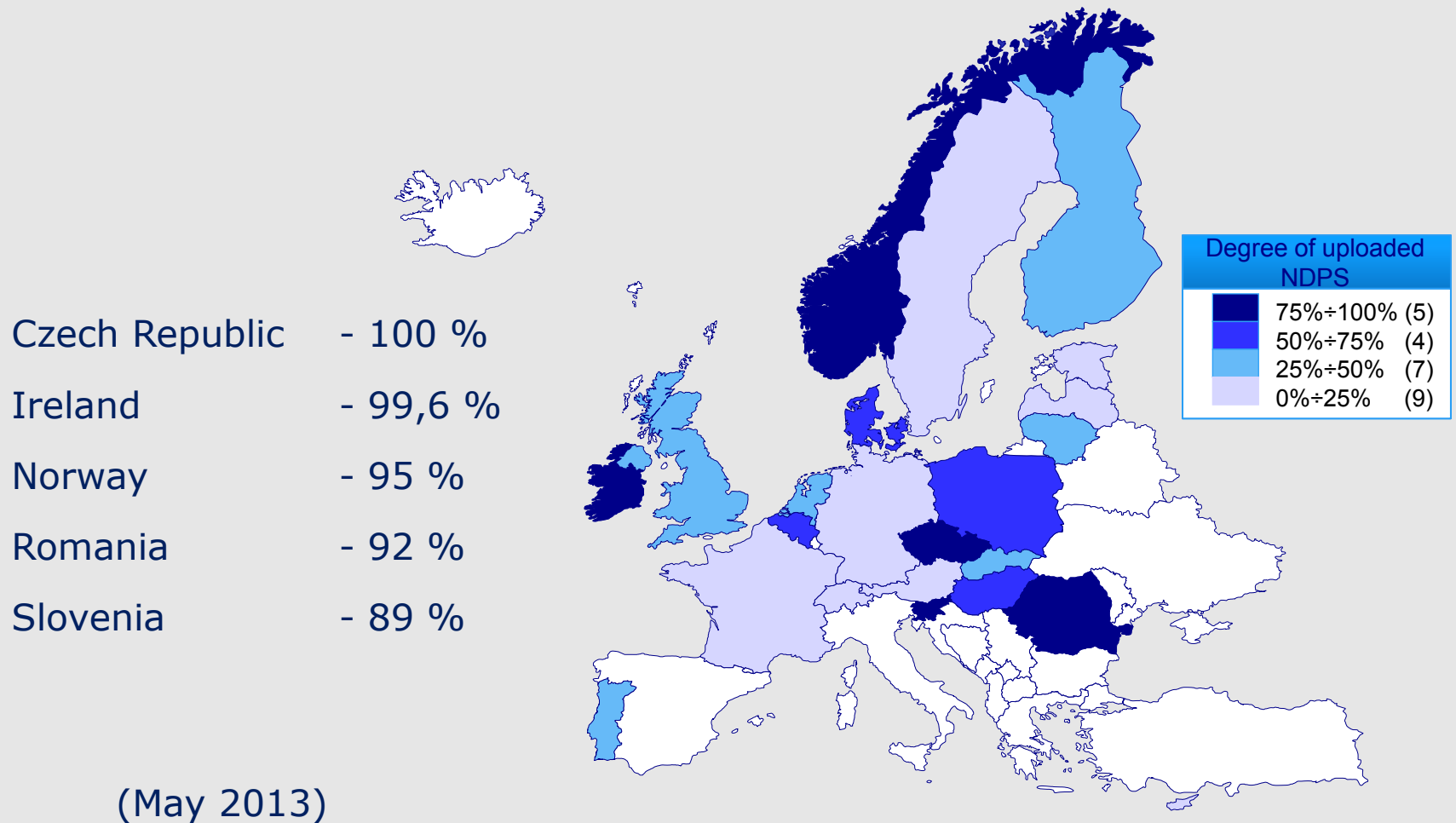
Five MS already  
almost finished  
uploading!



## NDPs database: acceptance of recommended values (January 2013)



# NDPs database – progress of uploading by Country



# Use of the Eurocodes outside the EU

# Global Promotion of Eurocodes



**The EU/JRC, BSI: Eurocodes globally  
seminars and lectures**





**Over 150 Russian experts** participated the Workshop.

All presentations are **available** on the Eurocodes website.



**EU - RUSSIA** <sup>Regulatory</sup> DIALOGUE  
Construction Sector Subgroup

Worked Examples on  
**BRIDGE DESIGN**  
WITH  
**EUROCODES**

VENUE tbd  
St Petersburg, Russia  
17 - 18 APRIL 2013



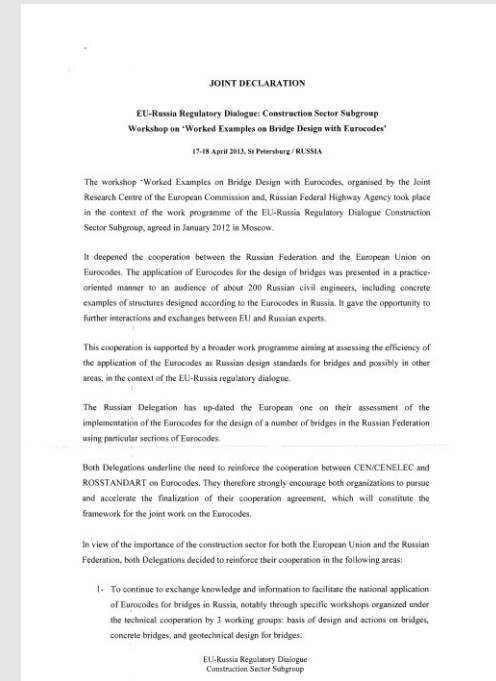
ORGANIZED AND SUPPORTED BY

RUSSIAN FEDERATION  
Federal Highway Agency, Ministry of Transport

EUROPEAN COMMISSION  
DG Joint Research Centre  
DG Enterprise and Industry

EUROPEAN COMMITTEE FOR STANDARDIZATION  
TC250 Structural Eurocodes

# 5<sup>th</sup> meeting of the EU-Russia Regulatory Dialogue – construction sector sub-group on 18 April 2013



**Joint EU-Russia declaration of the Workshop and the Regulatory Dialogue signed**

Helpdesk, Website and other Issues

# Eurocodes Centralised Helpdesk

- **Objective: NSBs submit filtered questions/comments to CEN/TC250(/SCs) and receive answers**
- Link between the European Commission, national standards bodies, national authorities, CEN/TC250 and SCs
- Access restricted to:
  - NSBs and CEN/TC250
  - European Commission
  - EU and EFTA National Authorities, other countries (in the future)
- JRC received a list of the national contact points (HD-NCPs) from CEN/TC250 Secretariat, although some contact points are still missing (i.e. Austria, Bulgaria, Greece, Malta, Slovenia etc.).
- **Platform launched in June 2013**

<http://eurocodes.jrc.ec.europa.eu/>

**We need your help to collect more  
information on structures designed with  
the Eurocodes and available guidance  
material!**

# Eurocodes Future

# M515 EN/12th December 2012:

European Commission Mandate to CEN for Amending Existing Eurocodes and Extending the scope of the Eurocodes

Basing on CEN reply to M446 EN, CEN is invited to develop a detailed work programme:

- **WP1:** Framework/Assessment Eurocodes: EN 1990, EN 1991, **EN 1997**, EN 1998;
- **WP2:** Specific (material) Eurocodes: EN 1992-1996 and New Eurocode on Glass (initially as S&T Report).

## General requirements:

- Extension of existing rules to the assessment and strengthening of **existing buildings and structures**;
- Extension of existing rules for **robustness**.

## Other requirements:

- Access the potential to reduce the NDPs;
- Improve the 'ease of use';
- Contribute to sustainability;
- Adoption of ISO standards (e.g. atmospheric icing,....);
- Auxiliary guidance documents;
- Information on the determination of material and resistance factor, improving fire safety approach;
- Provide background documents;
- Technical report on impacts of climate change.

**CEN adopted the reply on 28 May 2013. Ready – by 2019.**



**Thank you for your attention**

**<http://eurocodes.jrc.ec.europa.eu>**