



The poster features the European Commission logo at the top. Below it, the text reads: 'EU - RUSSIA Regulatory Dialogue Construction Sector Subgroup'. The main title is 'BRIDGE DESIGN WITH EUROCODES'. The event is organized by the 'JOINT RESEARCH CENTRE ISPRRA, ITALY' on '1 - 2 OCTOBER 2012'. A stylized bridge graphic is shown below the date. At the bottom, it lists the organizers: 'EUROPEAN COMMISSION DG Joint Research Centre DG Enterprise and Industry', 'RUSSIAN FEDERATION Federal Highway Agency, Ministry of Transport', and 'EUROPEAN COMMITTEE FOR STANDARDIZATION TC250 Structural Eurocodes'.

European  
Commission

EU - RUSSIA Regulatory  
DIALOGUE  
Construction Sector Subgroup

BRIDGE DESIGN  
WITH  
EUROCODES

JOINT RESEARCH CENTRE  
ISPRRA, ITALY  
1 - 2 OCTOBER 2012

ORGANIZED AND SUPPORTED BY

EUROPEAN COMMISSION  
DG Joint Research Centre  
DG Enterprise and Industry

RUSSIAN FEDERATION  
Federal Highway Agency, Ministry of Transport

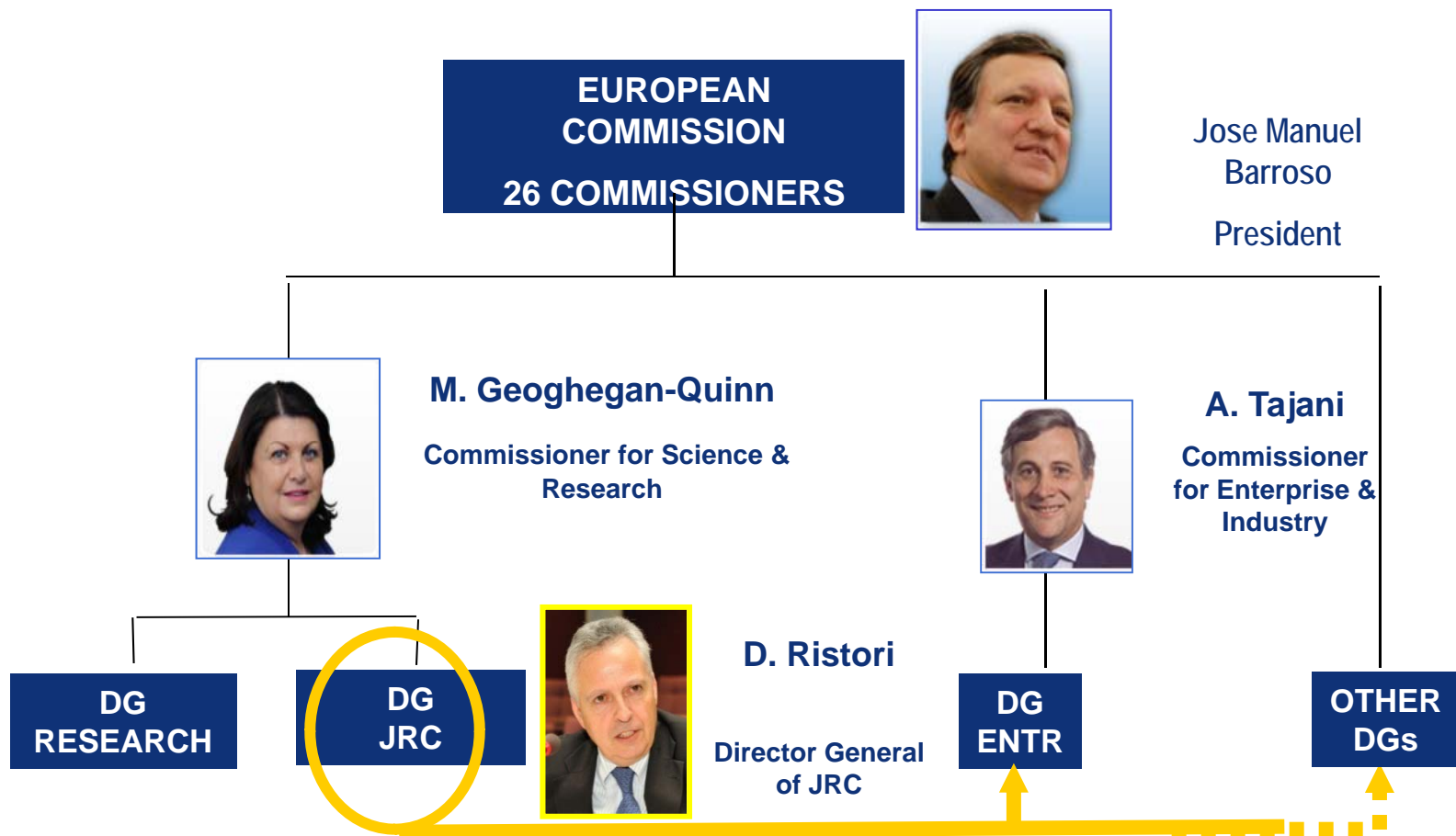
EUROPEAN COMMITTEE FOR STANDARDIZATION  
TC250 Structural Eurocodes

## JRC activities in support of the Eurocodes

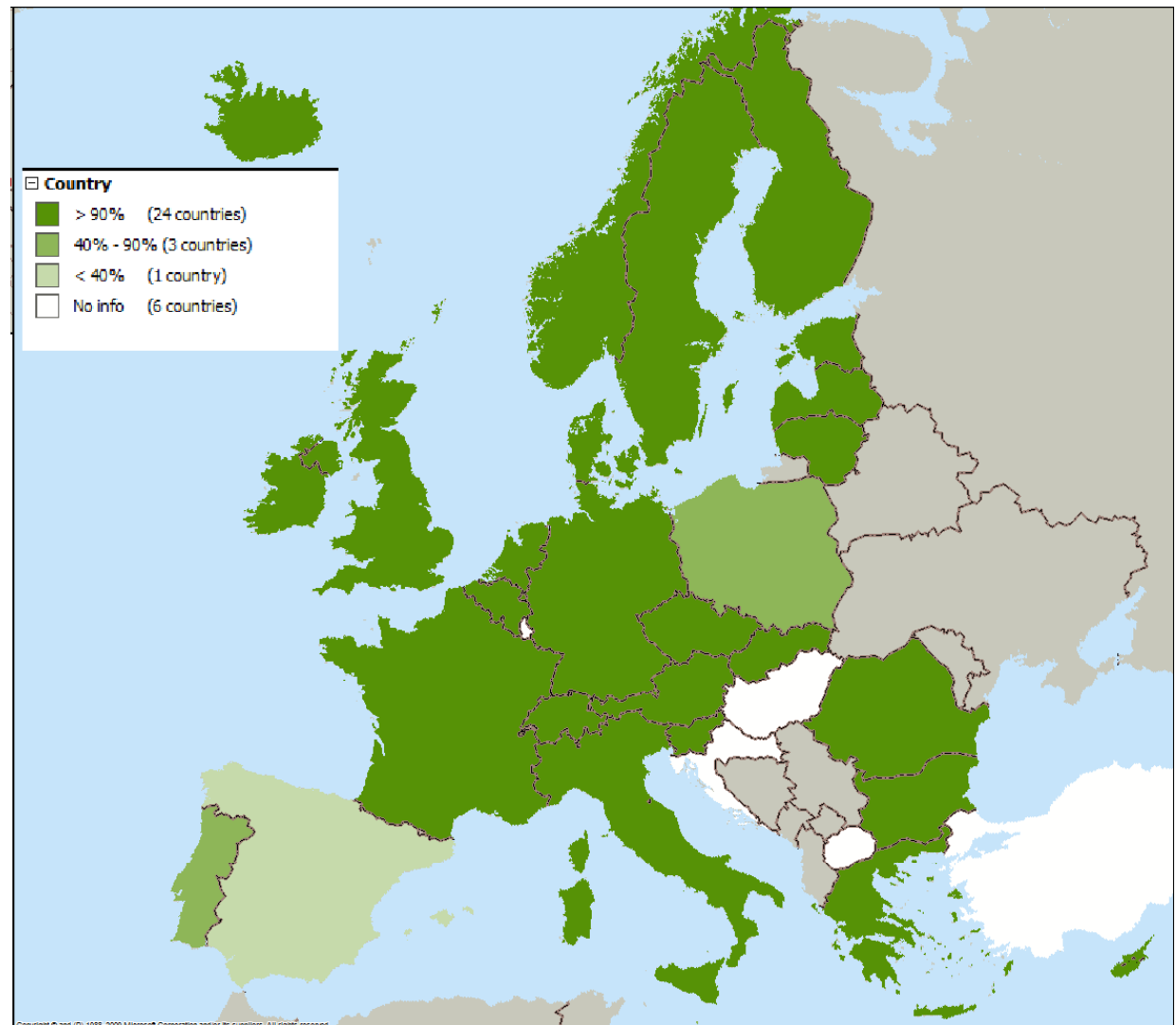
*A. Pinto, B. Acun, M. Poljansek,  
A. Athanasopoulou, F. Taucer,*

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

# The Joint Research Centre – JRC



## Eurocodes National implementation - Publication of National Standards



*(Information from ENC  
meeting:*

**13/09/2010)**

*(updated by individual contributions of  
some Member States)*

# JRC Support to the Eurocodes: 3-pillars:

(MoU and AA's between the DG JRC and DG ENTR)



Seminar 'Bridge Design with Eurocodes' – JRC Ispra, 1-2 October 2012

4

## ● Implementation & Promotion

- Training and promotion **strategy** (why, what, who and when?)
- **Informatics tools** (website, d-bases for background, docs events, etc)
- Training and promotion **events** (organization/support by DG ENTR, DG JRC, TC250, MS, Industry)
- **Collection and classification of training material** (Manuals, Design guides, Worked examples, etc.

## ● Harmonization

- **National Determined Parameters (NDP) Database**
  - Development, Registration
  - Analysis of NDPs (geo-distribution, deviation from Recommended Values,)
  - Provide access to TC250 Subcommittees (further harmonization)

## ● Further Development

- Extension to **new materials**, Emerging issues: **Sustainability**, Climate Change, → **Programming Mandate** (technical support)

# Training and promotion



欧洲规范：  
在欧盟以外的应用





B2 Роль кода EN 1990:  
Ключевой Еврокод





B1 THE EUROCODES:  
IMPLEMENTATION AND USE





L2 The Eurocodes  
Getting prepared

A strategic approach

(EN) ering

Successful implementation of the Eurocodes requires a shared effort and close collaboration of stakeholders, namely: National Authorities, National Standards Bodies, Technical and Professional Associations, Academia and the Construction Industry.

The implementation work programme calls for a strategic approach to address the following issues:

Awareness material



EUROCODES  
BUILDING THE FUTURE

on the Adoption of the Eurocodes in the EU, New Member, Accession and Candidate Countries

24-25 November 2005  
2005, Torino, Italy



Eurocodes  
Building the future in the Euro-Mediterranean area

27-29 November 2006  
Palace Grand Hotel  
Venice, Italy



EU-China Trade Project

中国-欧盟建筑标准和节能研讨会  
EU-China Conference on Standards and Energy Efficiency in Buildings

2008年11月29日, 北京  
29 January 2008, Beijing



EUROCODES

Еврокоды

International workshops



EUROCODES  
Background and Applications

"Dissemination of information for training" workshop

2-3 April 2009, Brussels  
Challenger Conference Centre



EUROCODE 6  
Background and Applications

EN 1996 Design of Masonry Structures  
A dissemination of information for training workshop

2-3 April 2009, Brussels  
Challenger Conference Centre

Training workshops

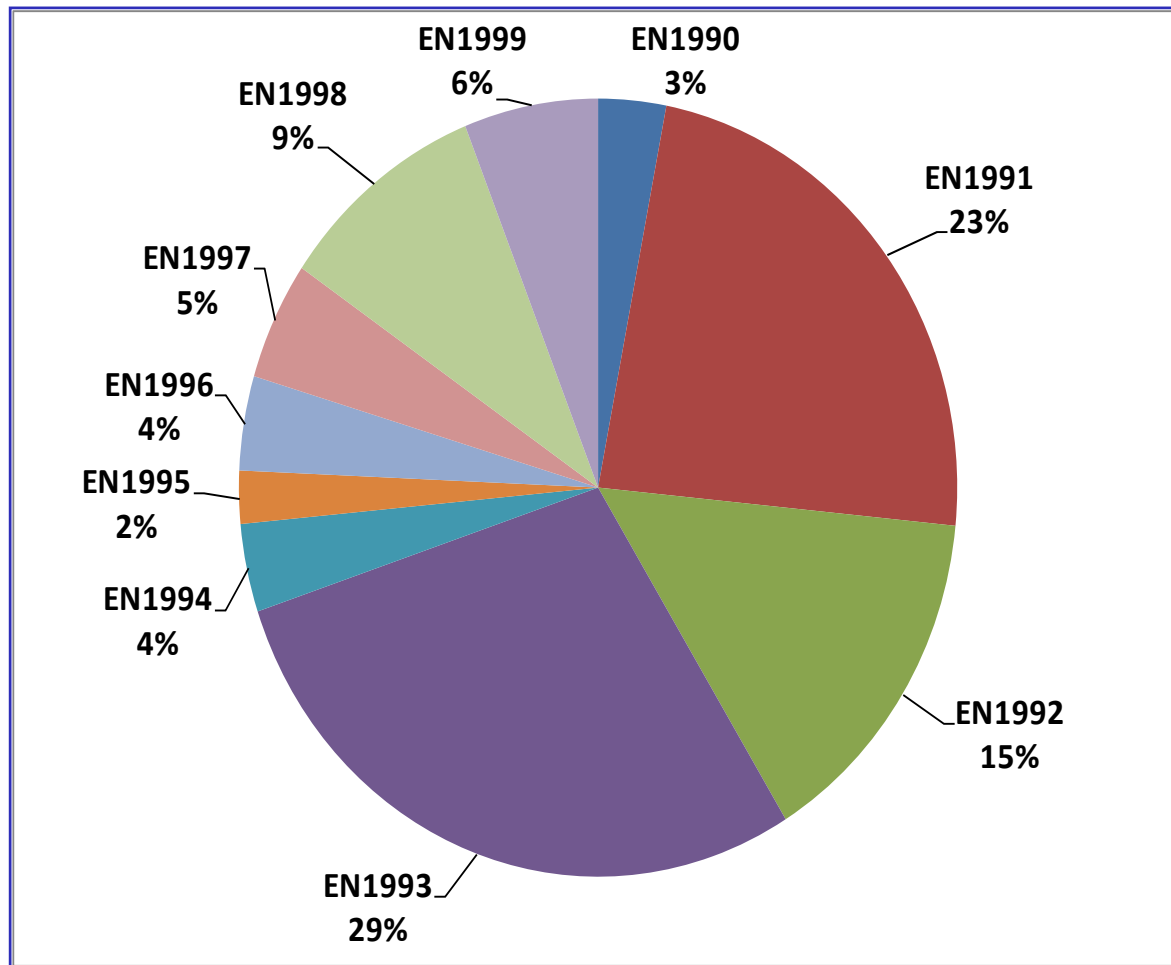
# Training and promotion

## (Level 2/3 training workshops – with worked examples)

- **Design of Bridges with the Eurocodes**  
 Programme coordination: Steve Denton (HG Bridges)  
 3 days, 4-6 Oct 2010, Vienna
  - Eurocode 8: **Seismic Design of Buildings (RC and Steel)**  
 Programme coordination: Eduardo Carvalho (SC8)  
 2 days, 10-11 Feb 2011, Lisbon
  - Eurocode 2: **Design of Reinforced Concrete Buildings**  
 Programme coordination: Giuseppe Mancini (SC2) and Francesco Biasoli  
 2 days, Oct 20-21 2011, Brussels
- 
- **Structural Fire Design with the Eurocodes**  
 Programme coordination: Bin Zhao (HG Fire)  
 2 days, 27-28 Nov 2012, Brussels



## Nationally Determined Parameters (NDPs) Database



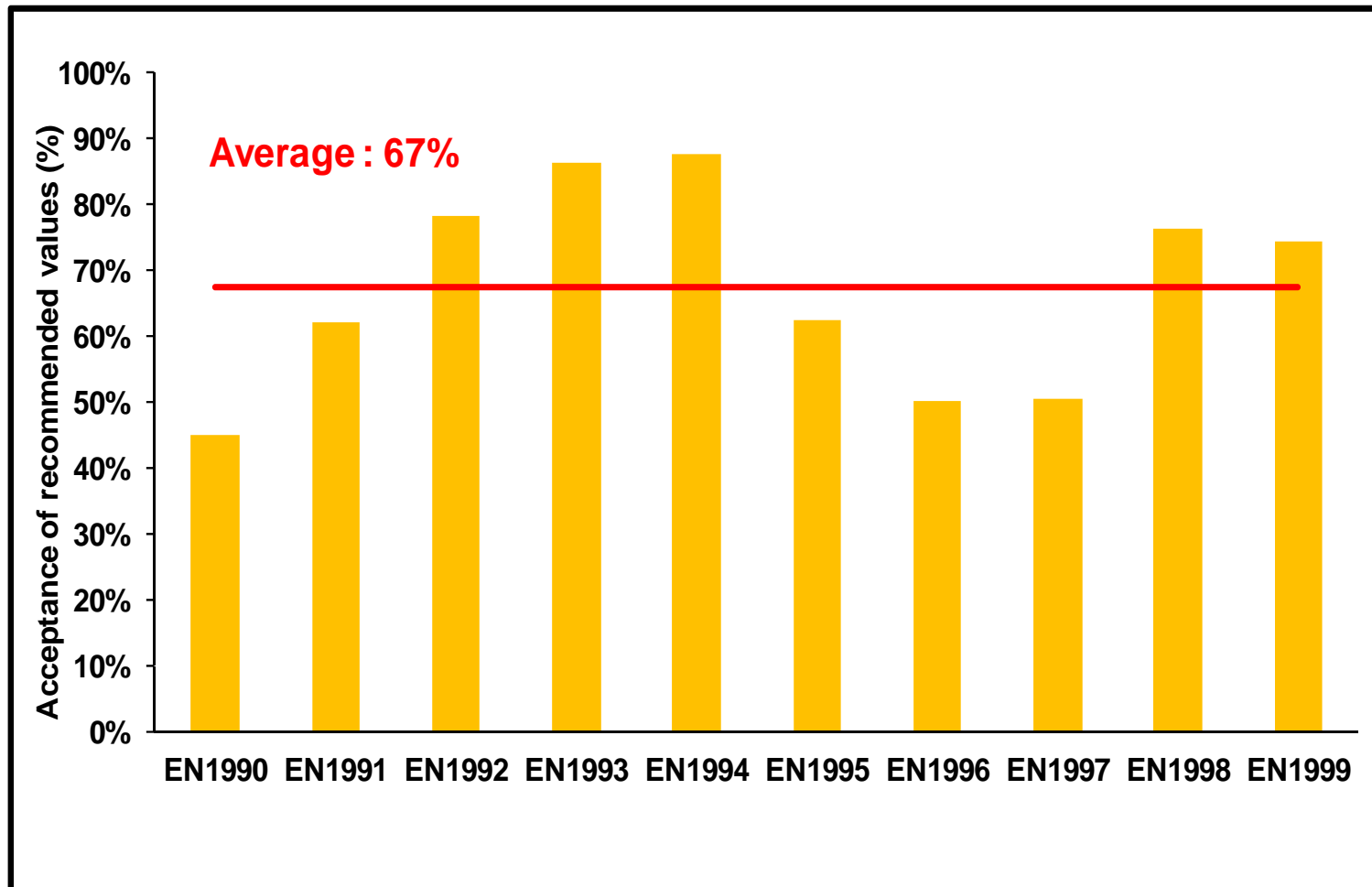
1504 NDPs in 58 parts are expected to be set by countries.

In 40% of the cases the divergence could be estimated by [statistical analysis](#).

[Expert analysis](#) is needed of the rest of the cases.



## NDPs database: acceptance of recommended values (30/08/12)





## Global promotion of Eurocodes

Some locations where Eurocode promotion has occurred



The E.U./JRC, BSI, and experts have promoted Eurocodes globally through promotional seminars and lectures at conferences

# Promotion and Training Events on the Eurocodes Held in Russia (2008-2012)

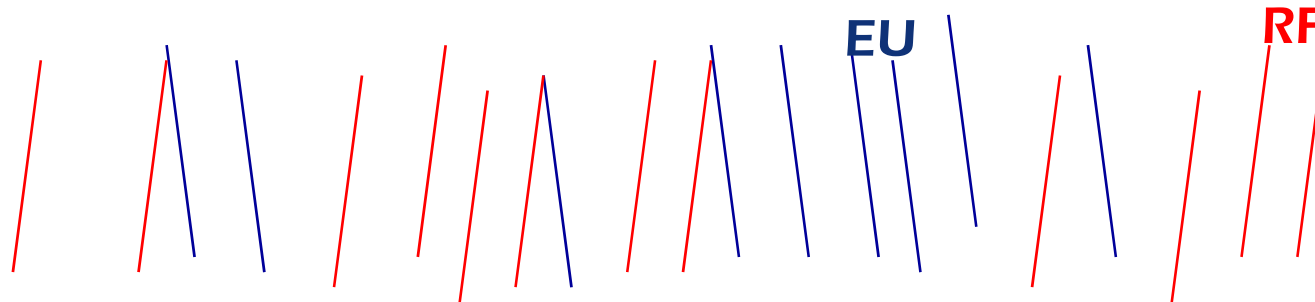
- 1. Workshop on Eurocodes:**  
Moscow, Russia, 9-10 Oct., 2008  
*Framework: JRC-DG ENTR MoU on the Eurocodes*  
*Financed by: TAIEX*
- 2. Workshop on “Eurocodes: training the trainers”:**  
Moscow, Russia, 9-10 Dec., 2010  
*Framework: JRC-DG ENTR MoU on the Eurocodes*  
*Financed by: TAIEX*
- 3. Seminar on “Application of Eurocodes in the Russian Federation”**  
St. Petersburg, Russian Federation, 2 Mar., 2011  
*Framework: BSI – DG ENTR Project on Promotion of Eurocodes outside of EU*  
*Financed by: BSI-DG ENTR Project*

## Workshop on Eurocodes - Participants

Moscow, Russia, 9-10 Oct., 2008

- Moscow government, Federal agency on technical regulation and metrology
- Russian Research Institute of Fire Protection, Moscow State Construction University, "Kurchatov Institute", Research Centre "Construction", Central Research Institute of Building Structures
- Chamber of commerce and industry, Union of railway constructors, architects, industrialists and entrepreneurs
- Ove Arup & Partners Int., Telecom, Mosproekt, Transmagistralstroy, Foratec EnergoTransStroy, ...





Национальный исследовательский университет Московский государственный строительный университет 09.12.2010

**Moscow State Construction University, December 9, 2010**

**Eurocodes Workshop – Training the Trainers**



# EU-Russia Regulatory Dialogue: Construction Sector Subgroup

- Seminar on 'Bridges Design with Eurocodes' is organized by JRC - 25 participants from Russia and EU experts (1-2 October 2012)
- JRC will host the 4th Meeting of the EU-Russia Regulatory Dialogue (3 October 2012)
- Proposal for deployment of the Vienna 2010 workshop (Bridges Design to Eurocodes) in Russia (March/April 2013)



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## The Seminar **Objective(s)**:

- Provide **information on** policy of Eurocodes **implementation** to the Russian delegates;
- Present design aspects demonstrating that **Eurocodes are innovative standards**;
- Present examples of **bridges designed to Eurocodes**;
- Explain why Eurocodes can lead to **advanced, yet economic solutions for the design of bridges**;
- **Setup of expert working groups with EU and Russian experts** to facilitate cooperation on Eurocodes (e.g. setting up of NDPs, drafting of National Annexes).



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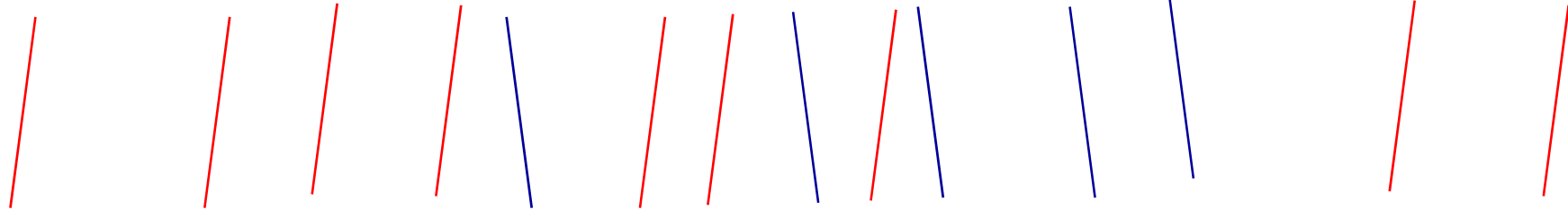
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**RF**

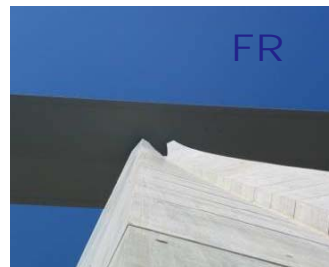
**EU**



*Moscow, January 26, 2012*

Thank you for your attention





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