



ADOPTION OF THE EUROCODES IN THE BALKAN REGION

*Summary of the questionnaires filled by
National Authority relevant representatives
from non-EU countries in the Balkan region*

**Artur Pinto, Fabio Taucer, Silvia
Dimova, Roberta Apostolska**



Outline

- ❑ About the workshop
- ❑ Questionnaire - objective and generalized data requirements
- ❑ Data analysis
- ❑ Questionnaires conclusions and recommendations





ADOPTION OF THE EUROCODES IN THE BALKAN REGION

5-6 December 2013
MILAN & JRC-ISPRA, ITALY

Organized by
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Supported by
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JRC Enlargement and Integration Action



Joint
Research
Centre

ADOPTION OF THE EUROCODES IN THE BALKAN REGION
5-6 December, 2013

About the workshop

The workshop is focused on progress and specific needs for adoption and implementation of the Eurocodes and related EN standards in the Balkan region.

OBJECTIVES:

- ❑ **Assess** the level of commitment and the **progress** of adopting the Eurocodes;
- ❑ **Assess** the level of **harmonization** of national policy/legislation with EU regulatory frameworks;
- ❑ **Assess** the **progress** of definition of Nationally Determined Parameters (NDPs)
- ❑ **Define** the **strategies** for training and elaboration of guidelines and training materials;
- ❑ **Facilitate** exchange of views, knowledge and information between EU experts and representatives of the non-EU countries in the Balkan region;
- ❑ **Facilitate** regional cooperation in preparing National Annexes and harmonization of NDPs



About the workshop – Map of non-EU countries in Balkan region



About the workshop

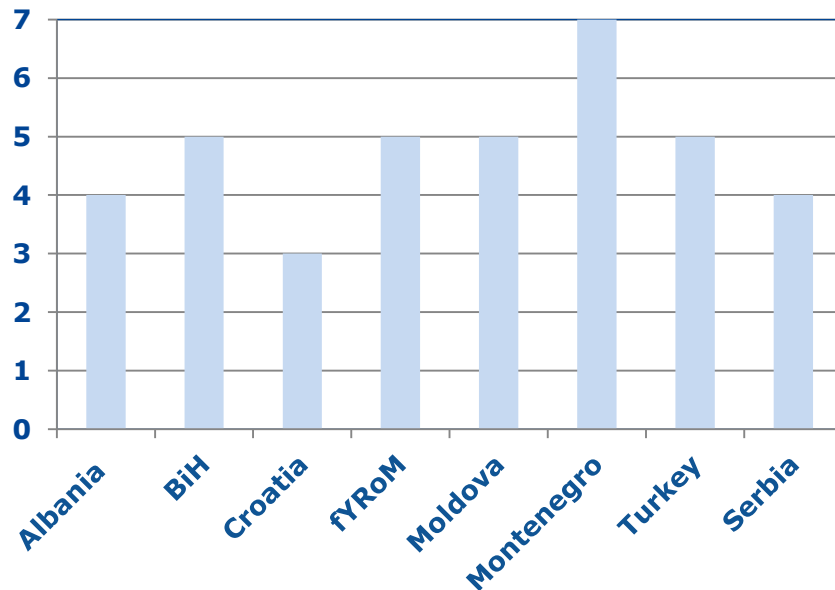
Non-EU countries in Balkan region	No of participants
Albania	4
Bosnia and Herzegovina	5
Croatia	3
the former Yugoslav Republic of Macedonia	5
Moldova	5
Montenegro	7
Turkey	5
Serbia	4
TOTAL	38



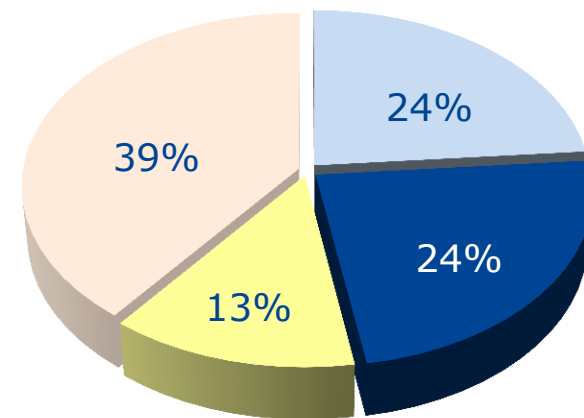
About the workshop

Number and groups of participants from non-EU countries

Number of participants per country



TG_1 TG_2 TG_3 TG_4



Groups of participants

TG_1: National Authorities and policy decision makers

TG_2: National Standardization Bodies

TG_3: Professional users of standards

TG_4: Institutions who will stream the determination of NDPs and the application and training on the Eurocodes

Questionnaire – objective and generalized data requirement

OBJECTIVE:

To provide insight into current progress in the adoption and implementation of the Eurocodes in non-EU countries in the Balkan region.



Questionnaire – objective and generalized data requirement

National regulatory framework

- National action plan
- Eurocodes using as primary standards or in parallel
- Participation of relevant national institution
- Needs for harmonization of national legislation with EU legislation

NDPs, NA and harmonization

- National Technical Committee
- Progress of translation
- Regional cooperation in the process of translation
- Progress of definition of NDPs
- Acceptance of recommended NDPs
- Regional cooperation in definition of NDPs
- Regional network
- Barriers for elaboration of NA
- Progress of adoption of harmonized EN standards

Education and training

- Inclusion of Eurocodes in Bachelor study
- Inclusion of Eurocodes in Master study
- Inclusion of Eurocodes in training courses
- Training materials in national language

Additional comments



Questionnaire – sample

1. National framework Eurocode

1.1 Are there any national frameworks for Eurocode? Yes/No

1.2 Title:
Date of creation:
Chairmen:

1.3 Please give the definition of the national framework

2. NDPs and National Determined Parameters

2.1 Is there any national determined parameter? Yes/No

2.2 Please assess the priority of the national determined parameter

2.3 Please give the definition of the national determined parameter

2.4 Please assess the priority of the national determined parameter

2.5 Please assess the priority of the national determined parameter

2.6 Please give the definition of the national determined parameter

2.7 Please suggest any other countries that might be included in the National Determined Parameters

2.8 Please identify barriers to the implementation of the national determined parameters

2.9 Please assess the priority of the national determined parameters (optional)

3. Education and training

3.1 Are the Eurocodes taught in Universities?

3.2 Are the Eurocodes taught in Universities?

3.3 Are the Eurocodes taught in Universities?

3.4 Is there any training in your national language? Yes/No

4. Additional comments that are not covered in the questionnaire

Questionnaire compiled by:
Affiliation:
Position:
Email:

For any questions concerning the questionnaire please contact Roberta Apostolska at roberta.apostolska@irc.ec.europa.eu

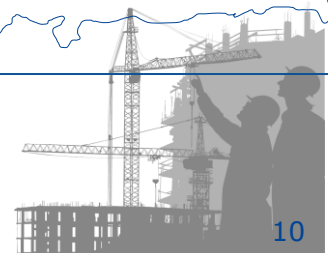
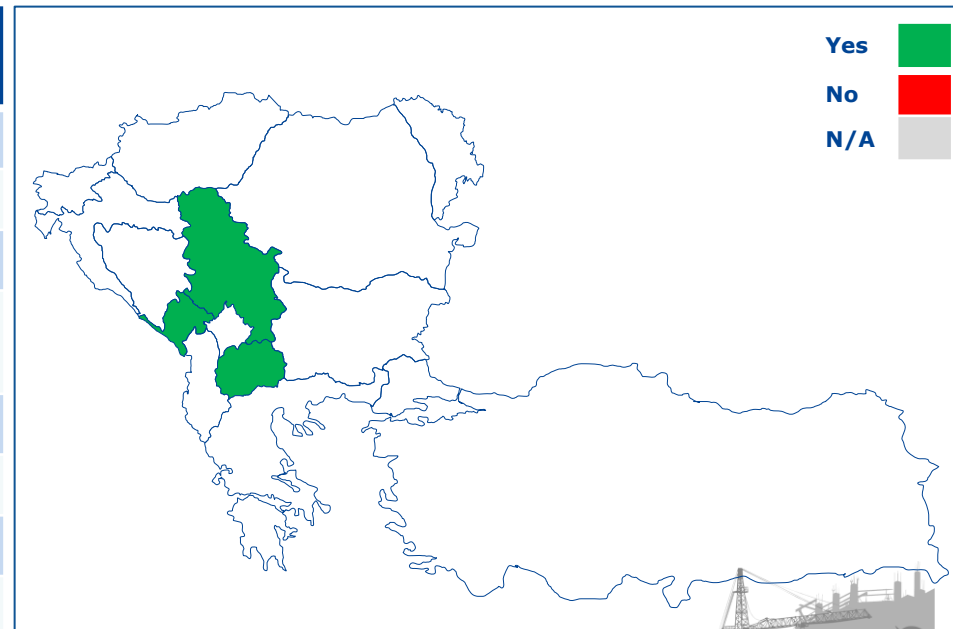
Thank you for your collaboration

Questionnaire – data analysis

NATIONAL REGULATORY FRAMEWORK

1.1 Is there a National Action plan for adoption and implementation of the Eurocodes

Albania	Strategy report – MPPT
Bosnia and Herzegovina	No
Croatia	Eurocodes is already adopted
the former Yugoslav Republic of Macedonia	Yes
Moldova	No, initiated by MCDT
Montenegro	Yes
Turkey	No, (EC8 included in NSAP)
Serbia	Yes

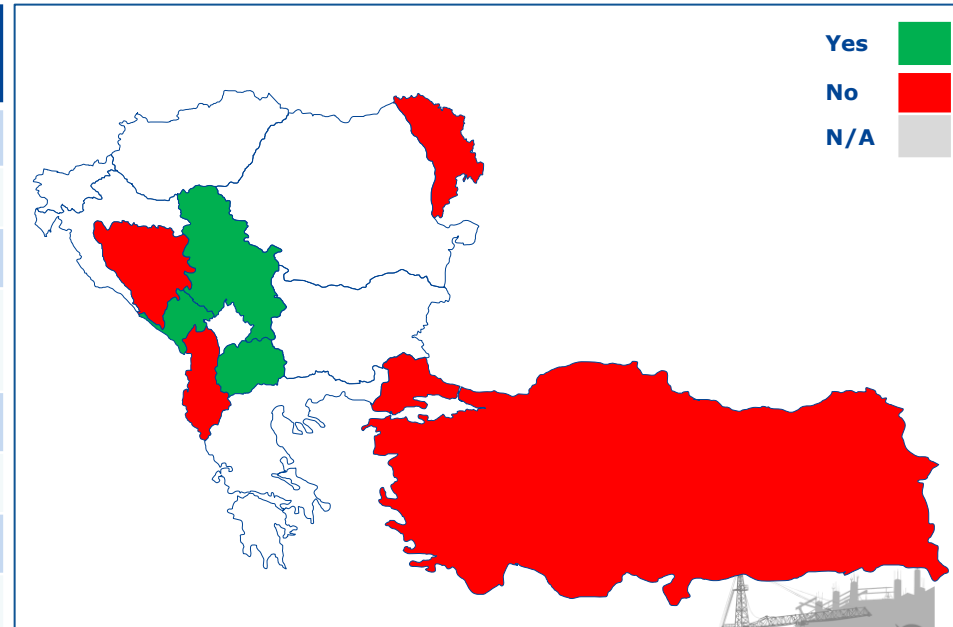


Questionnaire – data analysis

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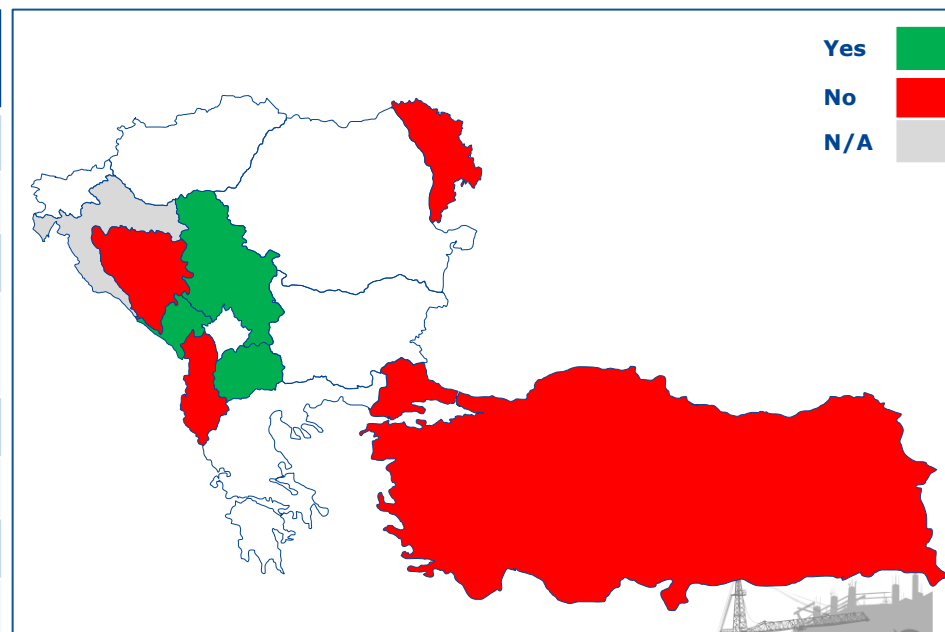


Questionnaire – data analysis

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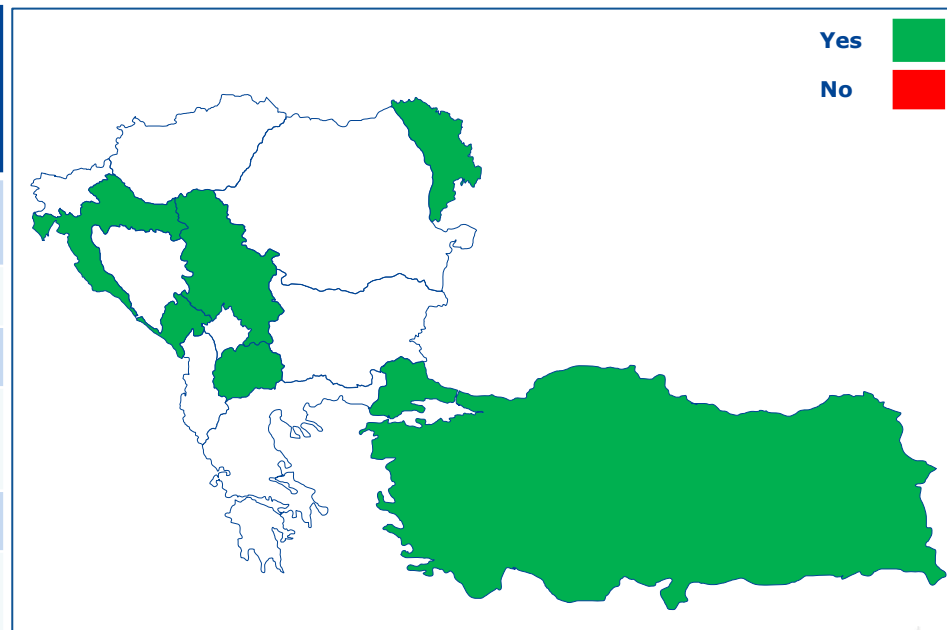


Questionnaire – data analysis

NATIONAL REGULATORY FRAMEWORK

1.2 In the case that Eurocodes are adopted as national standards, are they going to be used as primary standards or in parallel with no contradictory existing national standards

Albania	EN1990, EN1991, EN1992 & EN1998 to be used in parallel
Bosnia and Herzegovina	In parallel
Croatia	As primary standards
the former Yugoslav Republic of Macedonia	As primary standards
Moldova	As primary standards
Montenegro	As primary standards but after 2-4 years coexistence
Turkey	As primary standards (under some conditions)
Serbia	As primary standards

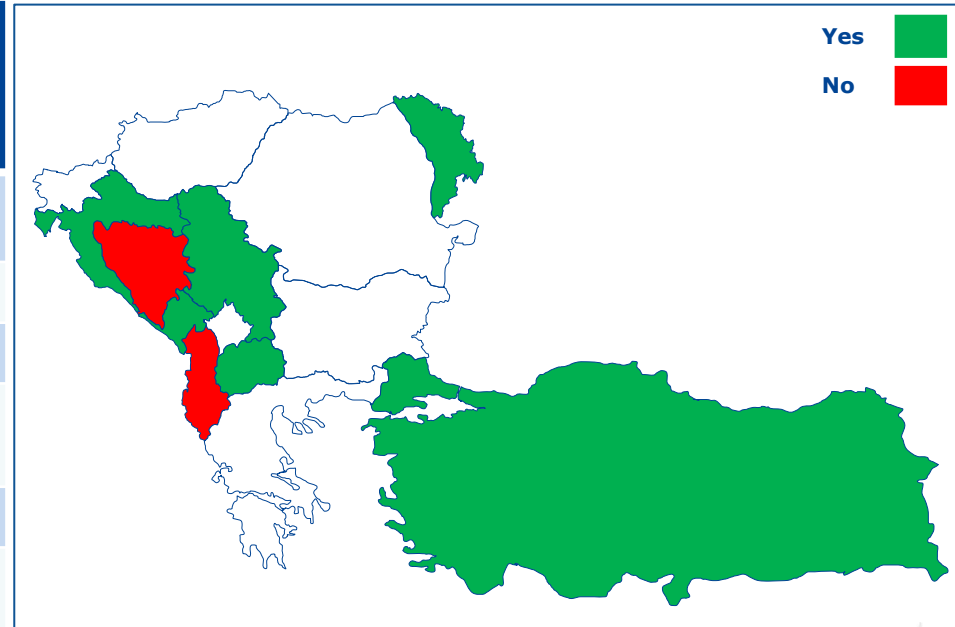


Questionnaire – data analysis

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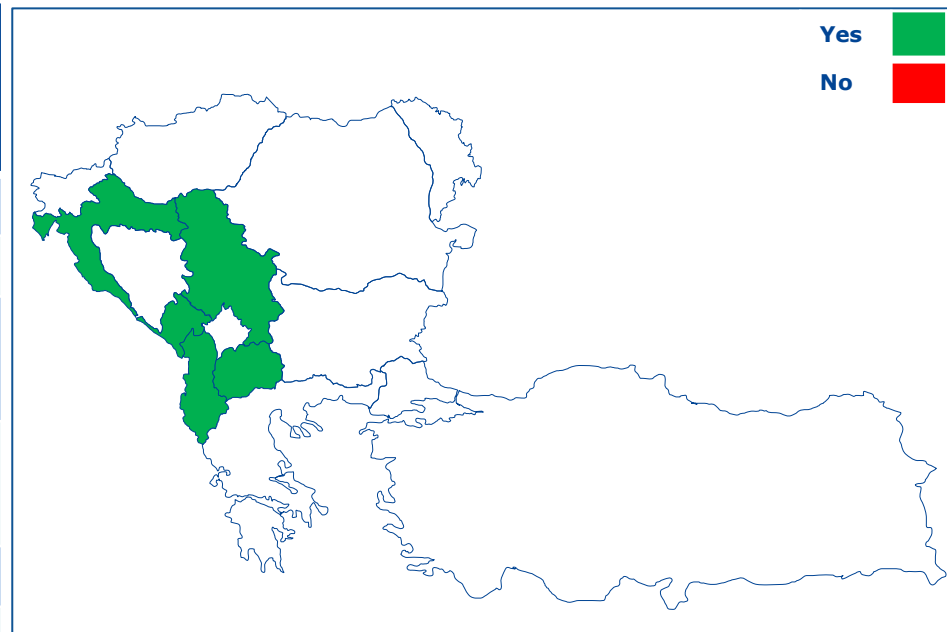


Questionnaire – data analysis

NATIONAL REGULATORY FRAMEWORK

1.3 Does any relevant national institution support projects for A/I of Eurocodes? If yes, please give information and reference to any project financed by EU

Albania	GDS (NSB)
Bosnia and Herzegovina	No
Croatia	MGIPU (NA), HZN (NSB) & Croatian Chamber of Civil Engineers
the former Yugoslav Republic of Macedonia	ISRM (NSB), Chamber of authorized architects and engineers/TAIEX, IPA and GTZ support
Moldova	No
Montenegro	Twinning project/EU-IPA
Turkey	No
Serbia	Academia and ISS (NSB)/GTZ and DIN support

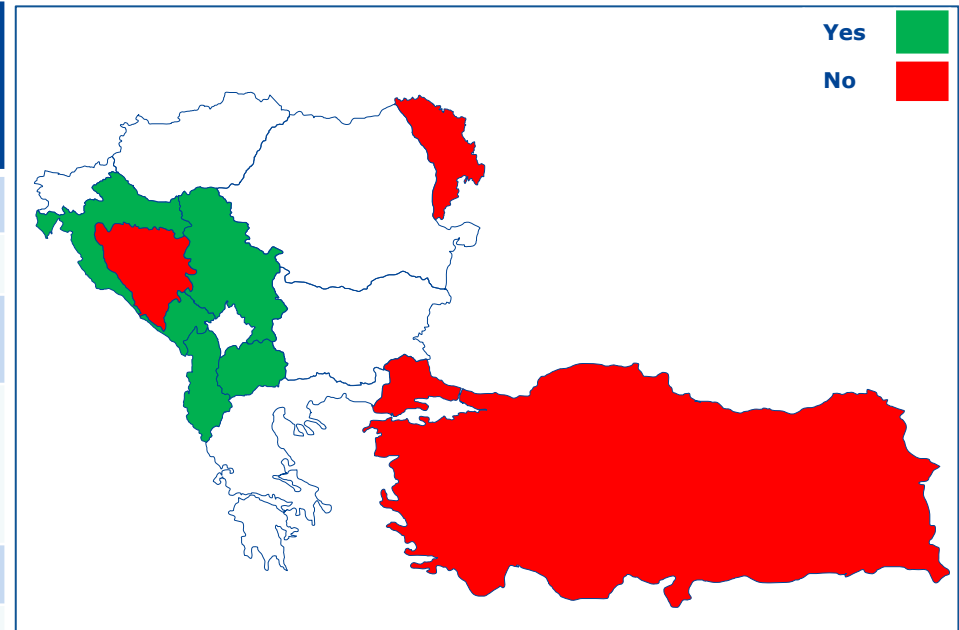


Questionnaire – data analysis

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the former Yugoslav Republic of Macedonia	ISRM (NSB), Chamber of authorized architects and engineers/TAIEX, IPA and GTZ support
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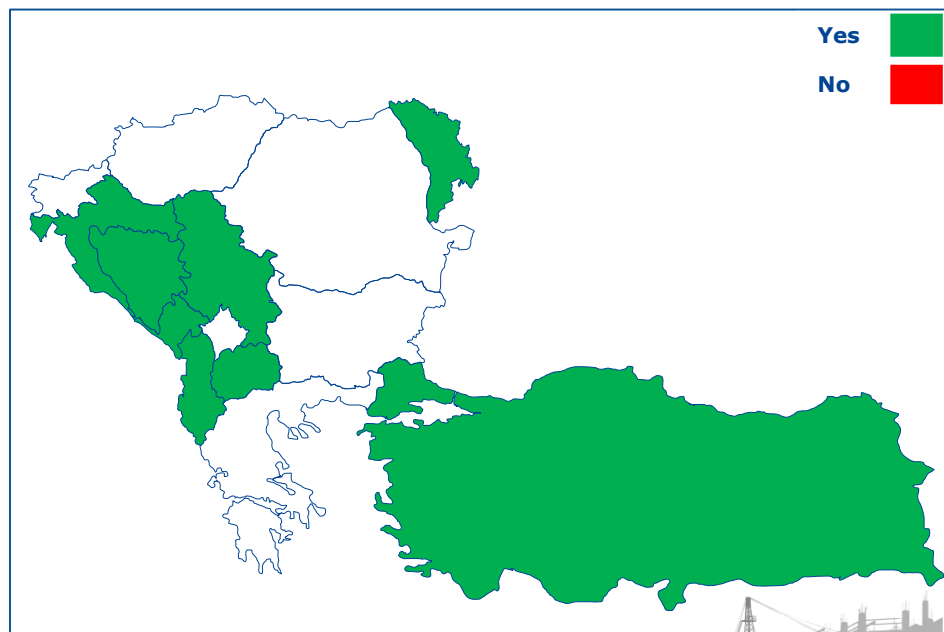


Questionnaire – data analysis

NATIONAL REGULATORY FRAMEWORK

1.4 Are there needs for harmonization of national legislation and standardisation framework for construction with EU legislation

Albania	Yes
Bosnia and Herzegovina	Yes
Croatia	Yes, scale of harmonization is yet to be determined
the former Yugoslav Republic of Macedonia	Yes
Moldova	Yes
Montenegro	Yes
Turkey	Yes
Serbia	Yes



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.1 Is there a Technical Committee for adoption of the Eurocodes already established

Albania	YES	KT 250 Eurocode (2007)/Chairman - Mr F. Kadiu
Bosnia and Herzegovina	NO	BAS/TC 58 (<i>to be set up</i>)
Croatia	YES	HZN/TO 548 Structural Eurocodes (2006)/Chairman - Mr I. Dzeba
the former Yugoslav Republic of Macedonia	YES	ISRM TC 40 Eurocodes and National Annexes (2012)/ Chairman - Mr T. Delipetrov; (<i>ISRM TC 30: 2007-2012</i>)
Moldova	NO	
Montenegro	YES	ISME/TK 002 Eurocodes (2011)/Chairman - Mr R. Zejak
Turkey	YES	TSI – Safety of construction
Serbia	YES	KS U250 - 1,8 (2012)/Chairman – Mr Gj. Vuksanovic KS U250 – 3,6,9 (2006)/ Chairman – Mr Z. Markovic KS U250 – 2 (to be set up)/Chairman – Mr D. Najdanovic KS U250 – 5,6 (2011)/Chairman – Mr B. Stefanovic KS U182 Geotechnics/Chairman – Mr L. Caki



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.2 Please assess the progress of translation of each Eurocode/priorities



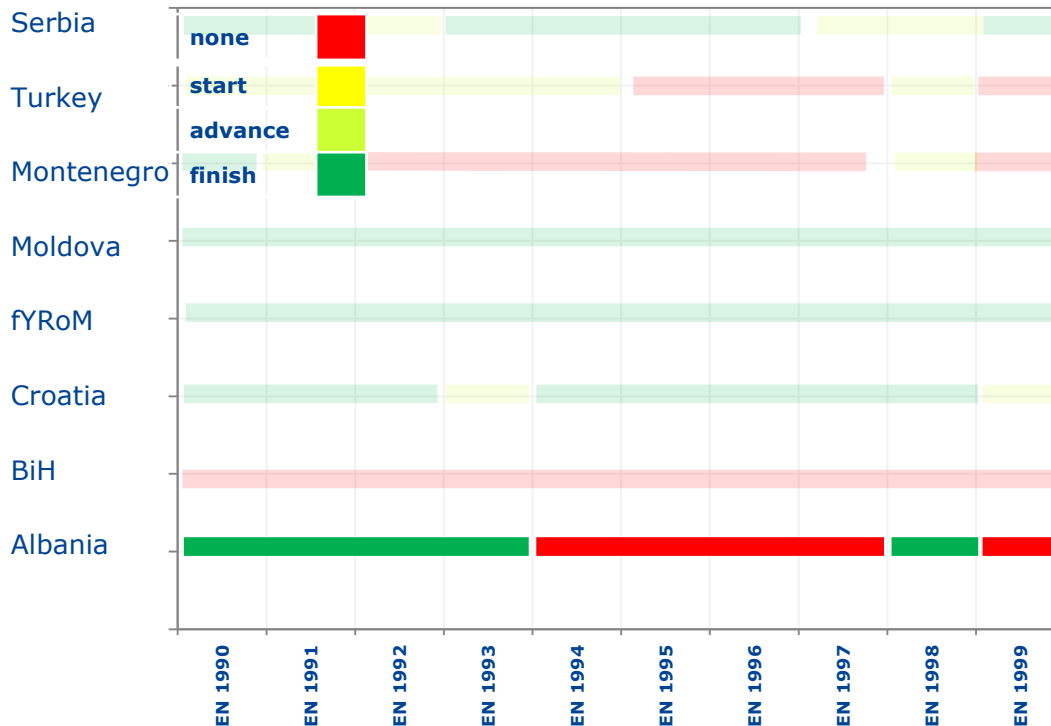
none
start
advance
finish



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

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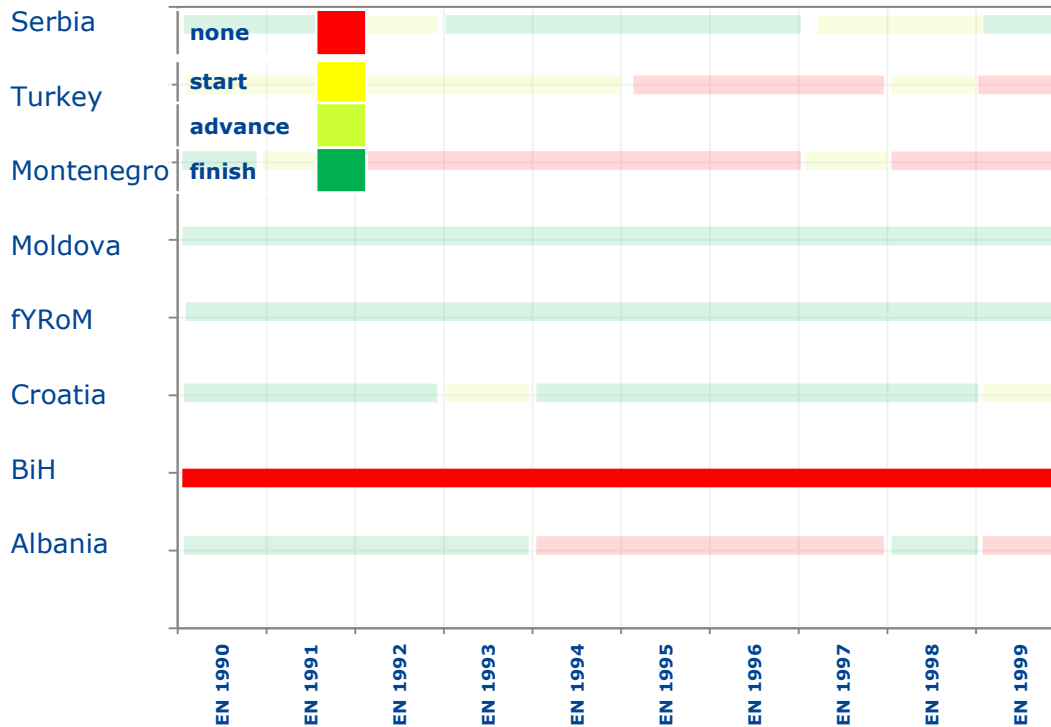
Albania						
Code	Priorities					Lowest 1 Highest 5
	1	2	3	4	5	
EN 1990						
EN 1991						
EN 1992						
EN 1993						
EN 1994						
EN 1995						
EN 1996						
EN 1997						
EN 1998						
EN 1999						



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

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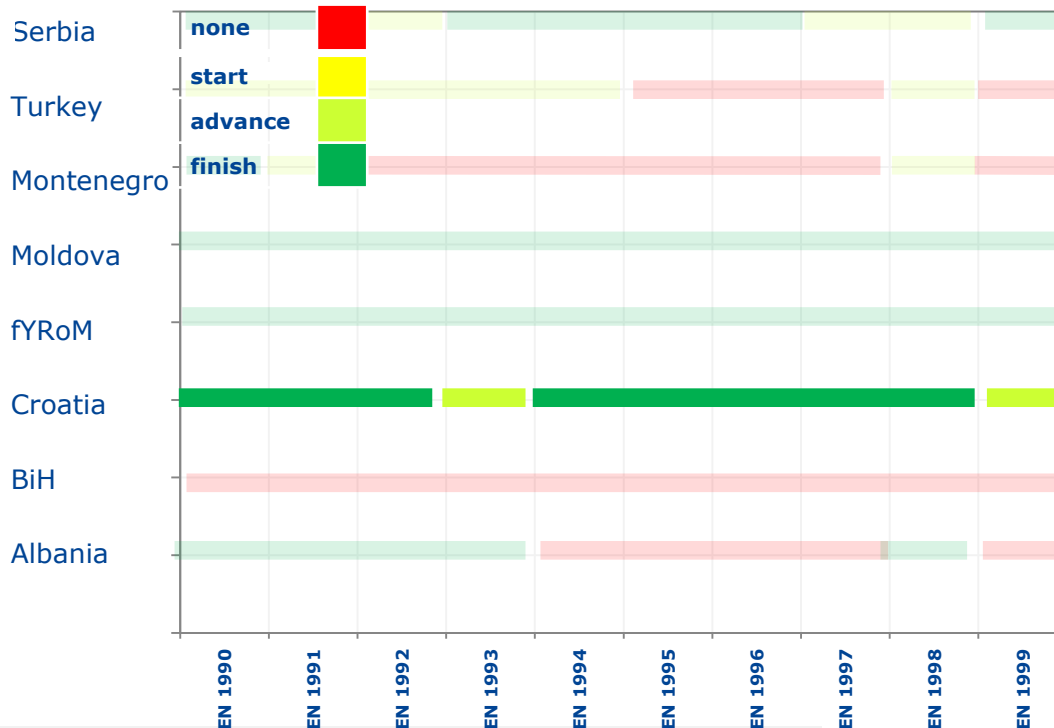
Bosnia and Herzegovina						
Code	Priorities					Lowest 1 Highest 5
	1	2	3	4	5	
EN 1990					5	
EN 1991					5	
EN 1992					5	
EN 1993					5	
EN 1994			3			
EN 1995			3			
EN 1996			3			
EN 1997				4		
EN 1998				4		
EN 1999	1					



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.2 Please assess the progress of translation of each Eurocode/priorities



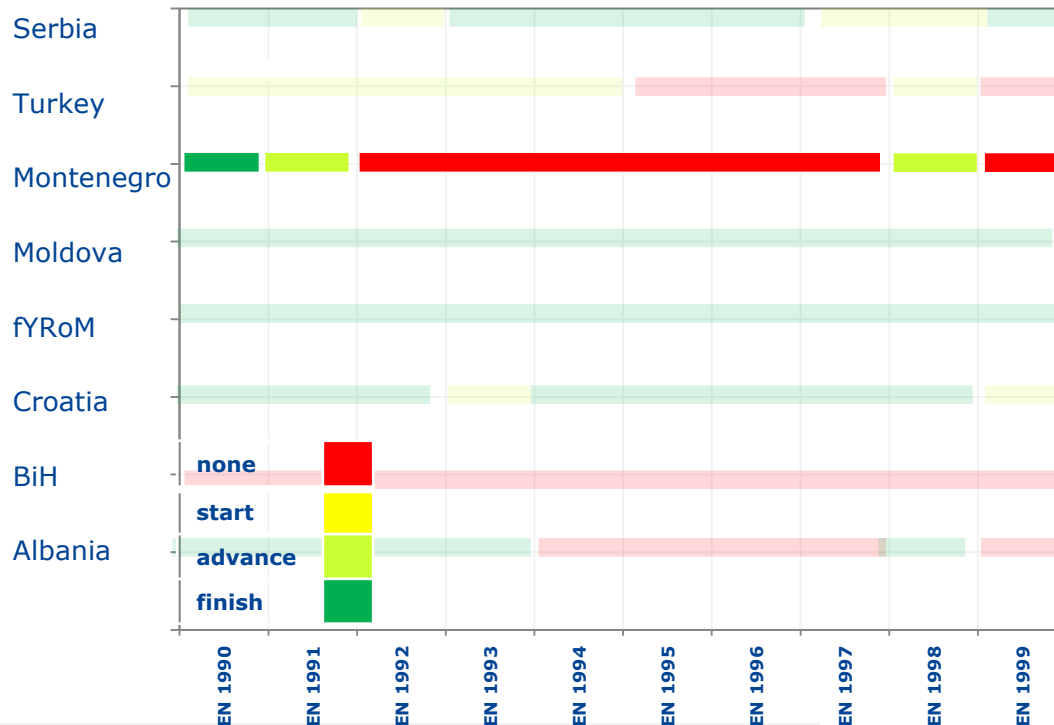
Croatia						
Code	Priorities					Lowest 1 Highest 5
	1	2	3	4	5	
EN 1990						
EN 1991						
EN 1992						
EN 1993						
EN 1994						
EN 1995						
EN 1996						
EN 1997						
EN 1998						
EN 1999						



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

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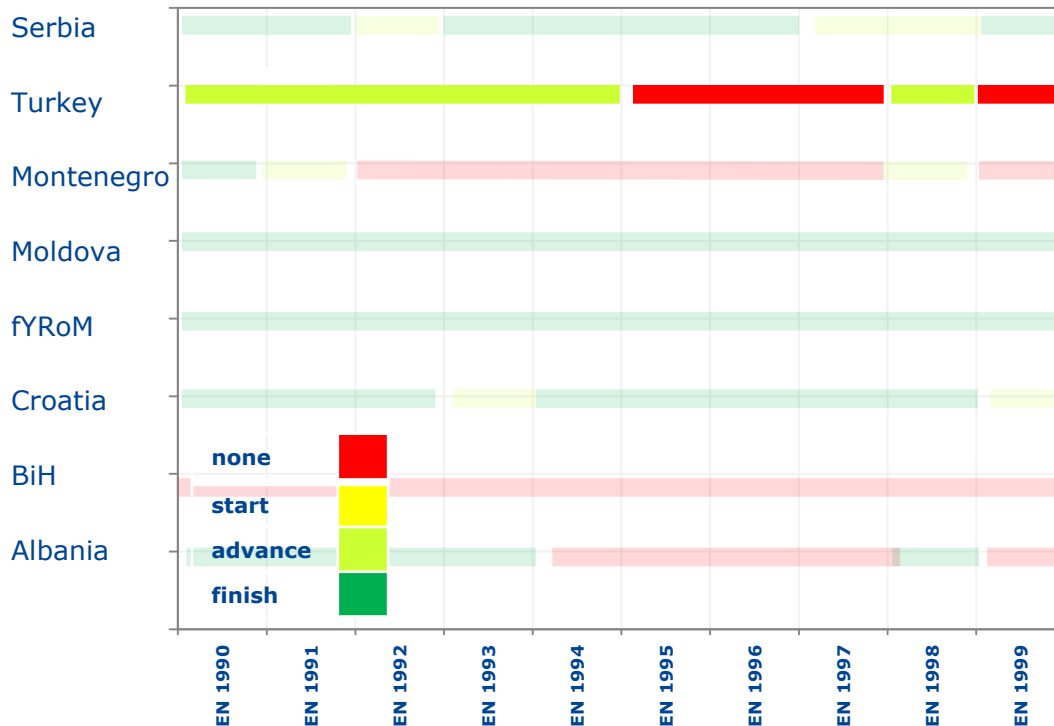
Montenegro						
Code	Priorities					Lowest 1 Highest 5
	1	2	3	4	5	
EN 1990						
EN 1991					Orange	
EN 1992				Orange		
EN 1993			Orange			
EN 1994			Orange			
EN 1995			Orange			
EN 1996				Orange		
EN 1997				Orange		
EN 1998					Orange	
EN 1999		Orange				



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.2 Please assess the progress of translation of each Eurocode/priorities



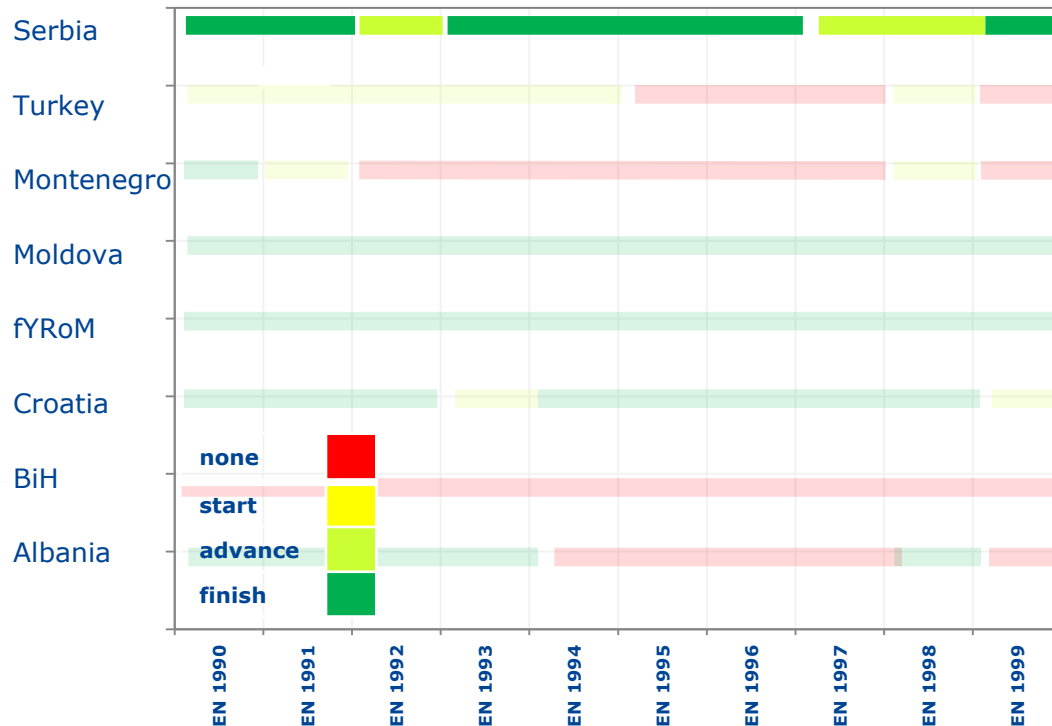
Turkey							
Code	Priorities					Lowest	1
	1	2	3	4	5	Highest	5
EN 1990							
EN 1991							
EN 1992							
EN 1993							
EN 1994							
EN 1995							
EN 1996							
EN 1997							
EN 1998							
EN 1999							



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.2 Please assess the progress of translation of each Eurocode/priorities



Serbia						
Code	Priorities					Lowest 1 Highest 5
	1	2	3	4	5	
EN 1990					5	
EN 1991					5	
EN 1992					5	
EN 1993					5	
EN 1994				4		
EN 1995		2				
EN 1996			3			
EN 1997				3		
EN 1998					4	
EN 1999	1					

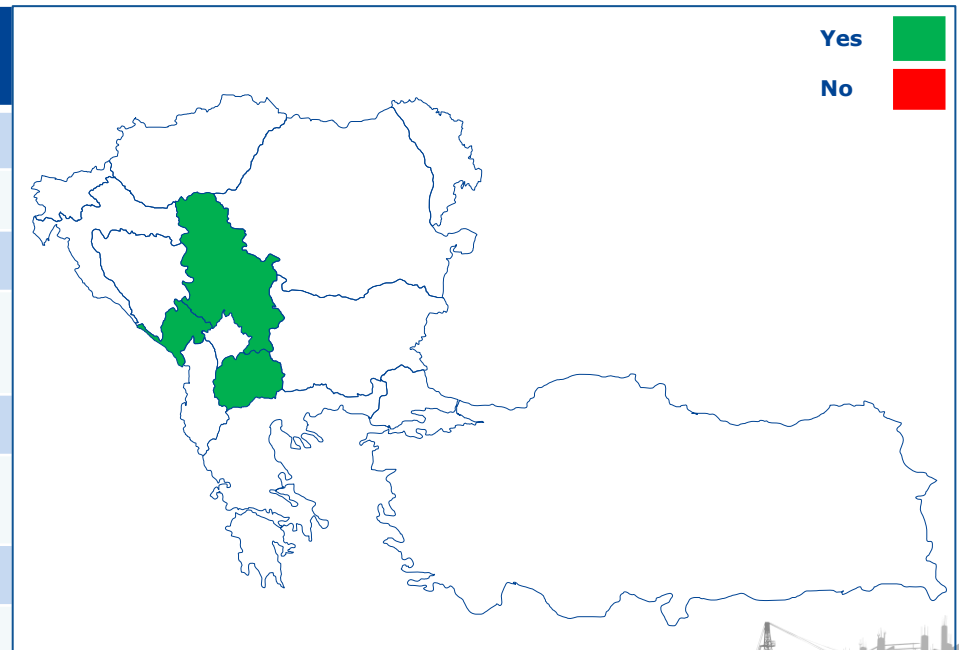


Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.3 Is there any existing regional cooperation in the process of translation of the Eurocodes?

Albania	No
Bosnia and Herzegovina	No
Croatia	No
the former Yugoslav Republic of Macedonia	Yes, with the Institute for standardization of Serbia
Moldova	No
Montenegro	Yes, with the Institute for standardization of Serbia
Turkey	No
Serbia	Yes, with Institutes for Standardization of fYRoM and Montenegro (Eurocodes translated in Serbian were delivered)

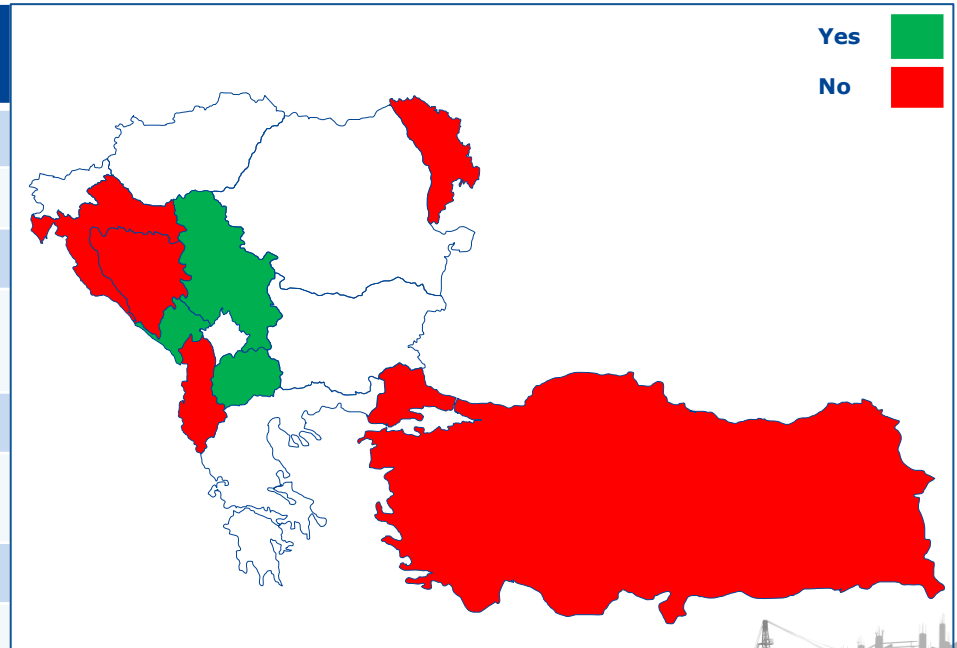


Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

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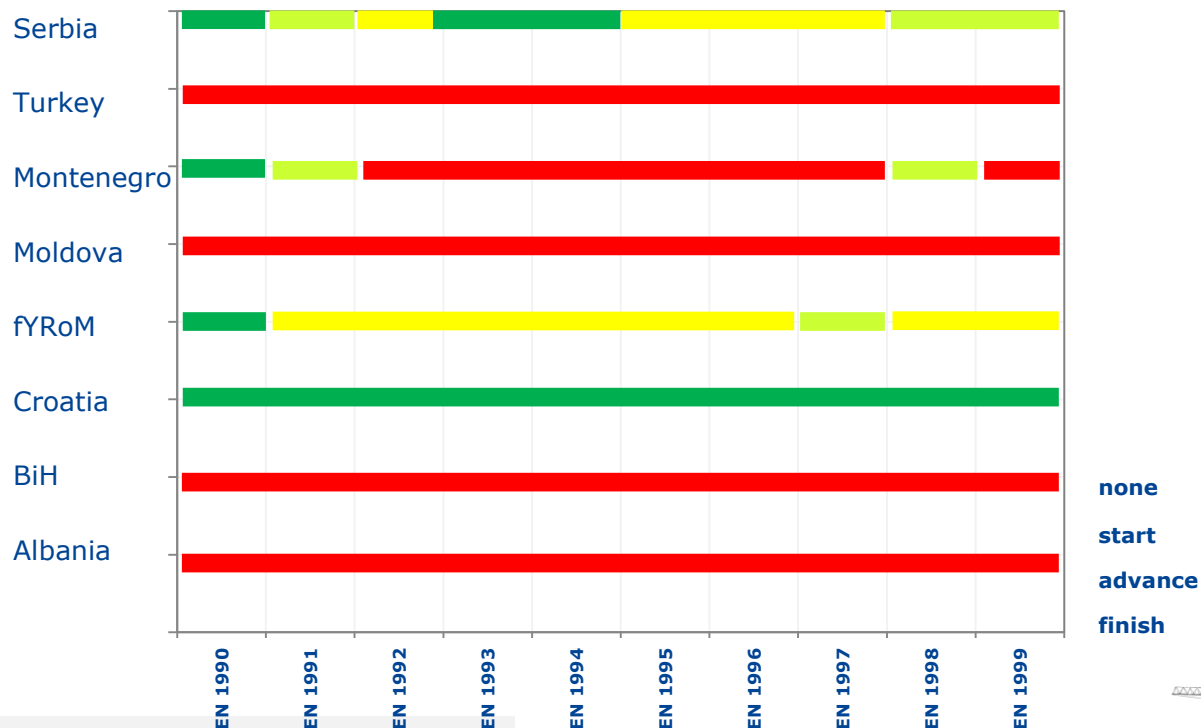
Albania	No
Bosnia and Herzegovina	No
Croatia	No
the former Yugoslav Republic of Macedonia	Yes, with the Institute for standardization of Serbia
Moldova	No
Montenegro	Yes, with the Institute for standardization of Serbia
Turkey	No
Serbia	Yes, with Institutes for Standardization of fYRoM and Montenegro (Eurocodes translated in Serbian were delivered)



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.4 Please assess the progress of definition of the NDPs of each Eurocode



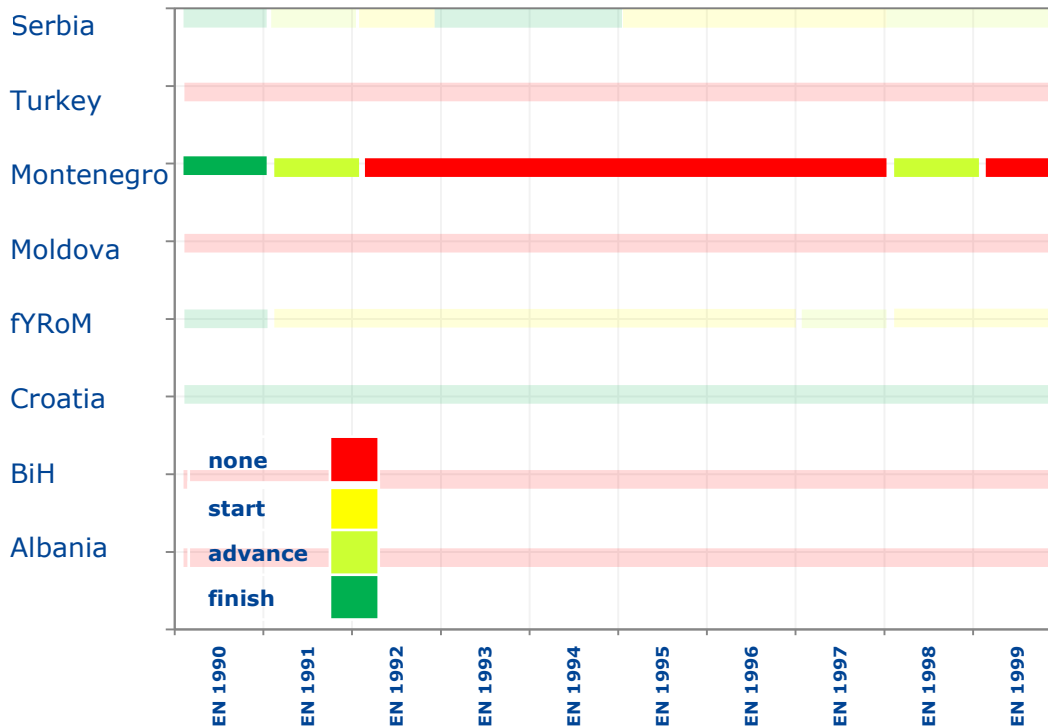
none
start
advance
finish



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.4 Please assess the progress of definition of the NDPs of each Eurocode/priorities



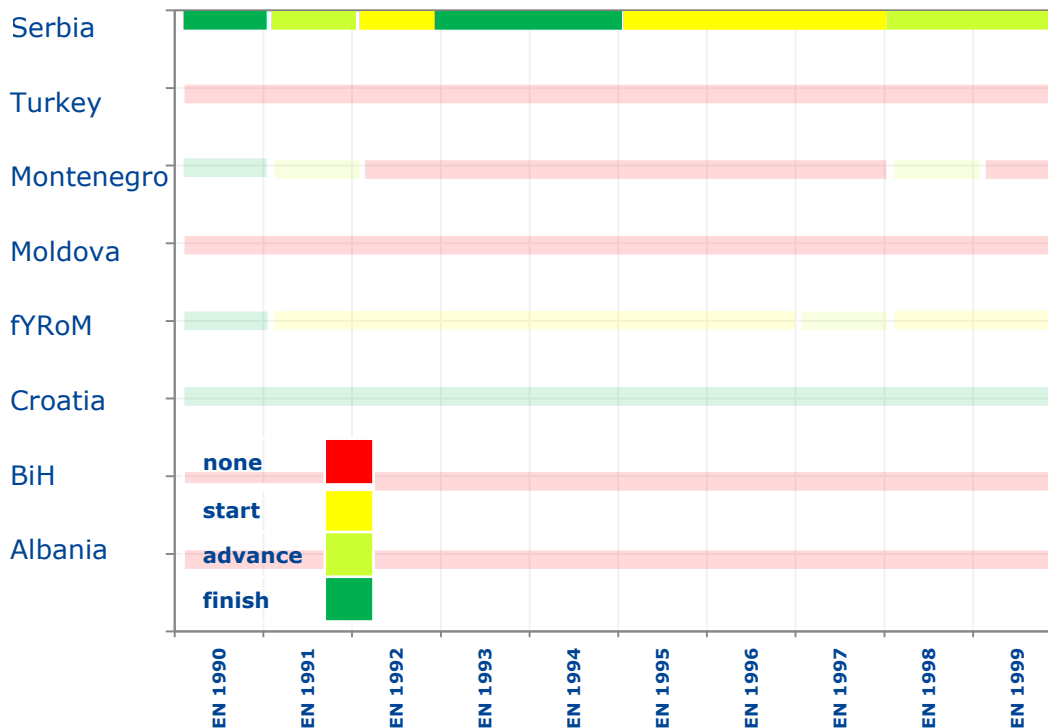
Montenegro						
Code	Priorities					Lowest 1 Highest 5
	1	2	3	4	5	
EN 1990						
EN 1991					Orange	
EN 1992				Orange		
EN 1993			Orange			
EN 1994			Orange			
EN 1995			Orange			
EN 1996				Orange		
EN 1997				Orange		
EN 1998					Orange	
EN 1999	Orange					



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.4 Please assess the progress of definition of the NDPs of each Eurocode/priorities



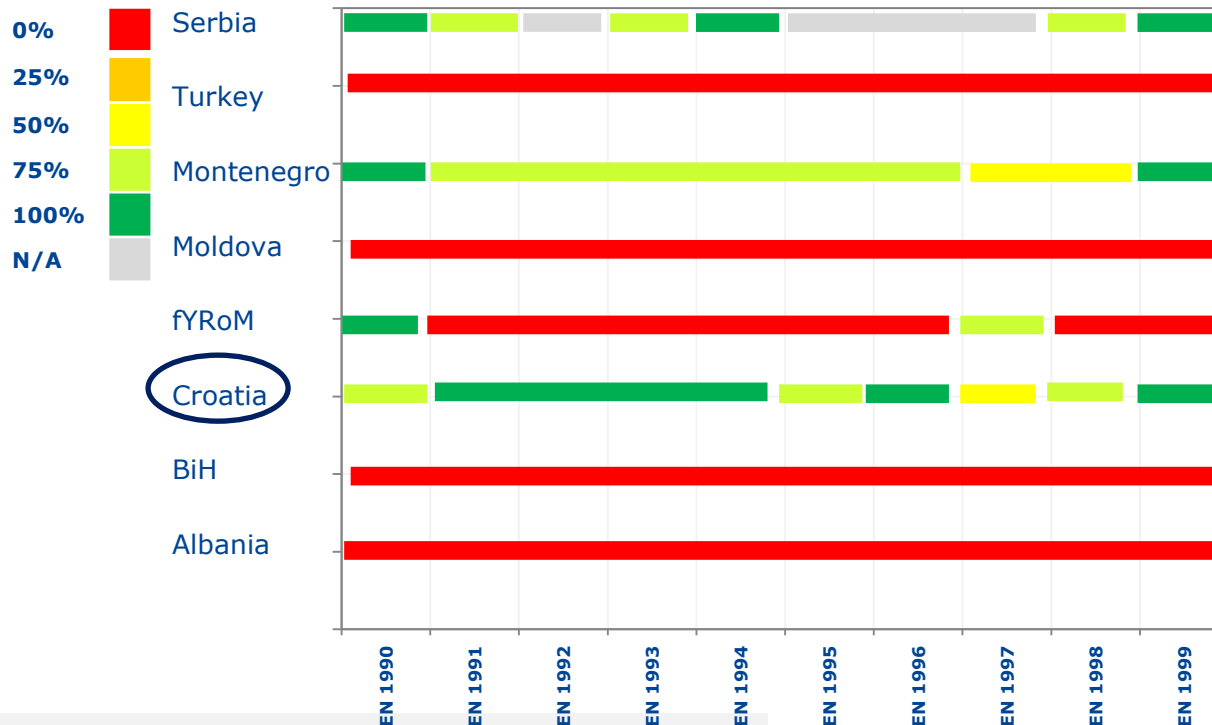
Serbia						
Code	Priorities					Lowest 1 Highest 5
	1	2	3	4	5	
EN 1990					5	
EN 1991				4		
EN 1992				4		
EN 1993				4		
EN 1994			3			
EN 1995		2				
EN 1996		2				
EN 1997				4		
EN 1998				4		
EN 1999	1					



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.5 Please assess the proportion of the recommended values of NDPs of each Eurocode that have been/will be accepted



Croatia	
Code	[%]
EN 1990	74
EN 1991	94
EN 1992	98
EN 1993	95
EN 1994	78
EN 1995	63
EN 1996	82
EN 1997	48
EN 1998	70
EN 1999	100



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.6 & 2.7 Regional cooperation and/or on-going projects for the definition of the NDPs

	EXISTING
Albania	No
Bosnia and Herzegovina	No
Croatia	No
the former Yugoslav Republic of Macedonia	No
Moldova	No
Montenegro	No
Turkey	No
Serbia	Yes (ISRM)



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.6 & 2.7 Regional cooperation and/or on-going projects for the definition of the NDPs

	EXISTING	FORESEEN
Albania	No	Kosovo and fYRoM
Bosnia and Herzegovina	No	NSBs in the region
Croatia	No	Neighbouring countries and fYRoM
the former Yugoslav Republic of Macedonia	No	NSBs in Serbia, Bulgaria and Slovenia
Moldova	No	NSB of Romania
Montenegro	No	NSBs in fYRoM, Serbia and BiH
Turkey	No	IZIIS (MK), UP (Greece), UTCB (Romania) and UACG (Bulgaria)
Serbia	Yes (ISRM)	NSBs, faculties, meteorological and seismological institutes



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.8 Identify barriers for the elaboration of the National Annexes

Albania

- Time limitation
- Technical knowledge
- Administrative barriers

Montenegro

- Lack of financial means for translation of Eurocodes, for elaboration of NA, for scientific research, meetings

BiH

- Legal framework
- Elaboration of the maps for: snow, wind, earthquake

Moldova

- Insufficient experience/specialists

Croatia

- N/A (possible barrier might be absence of national experience in some fields)

Turkey

- Lack of sufficient resources for research
- Lack of sufficient demand from practitioners

fYRoM

- Absence of necessary funds

Serbia

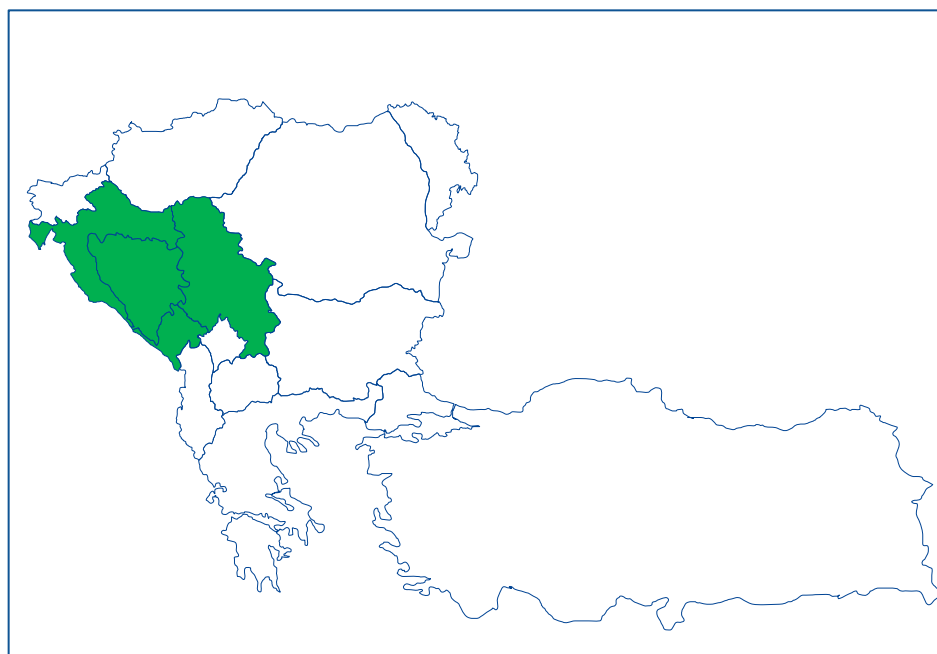
- Adjustment of elaborated snow, wind, temperature and seismic maps in digital format
- More active engage of national experts



Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.9 Please assess the progress of adoption of Eurocodes related harmonized EN standards



no info



none



start



advanced



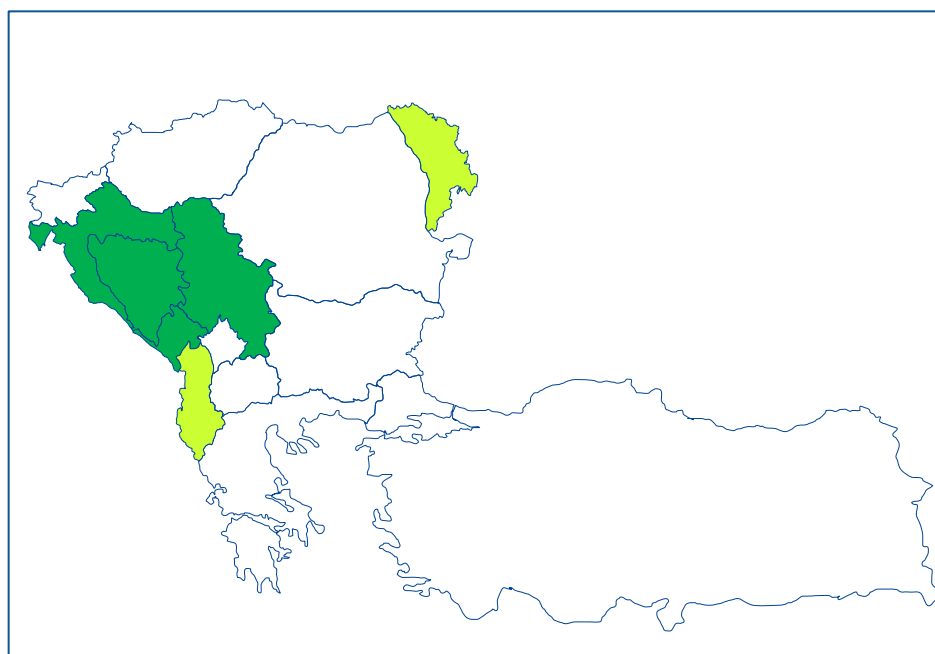
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Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.9 Please assess the progress of adoption of Eurocodes related harmonized EN standards



no info



none



start



advanced



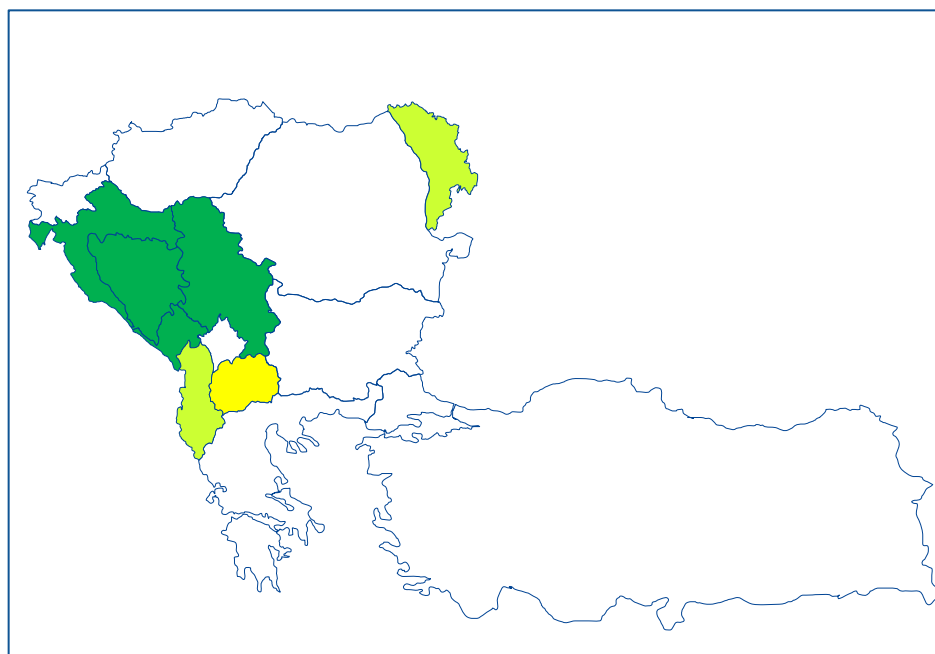
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Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

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no info

none

start

advanced

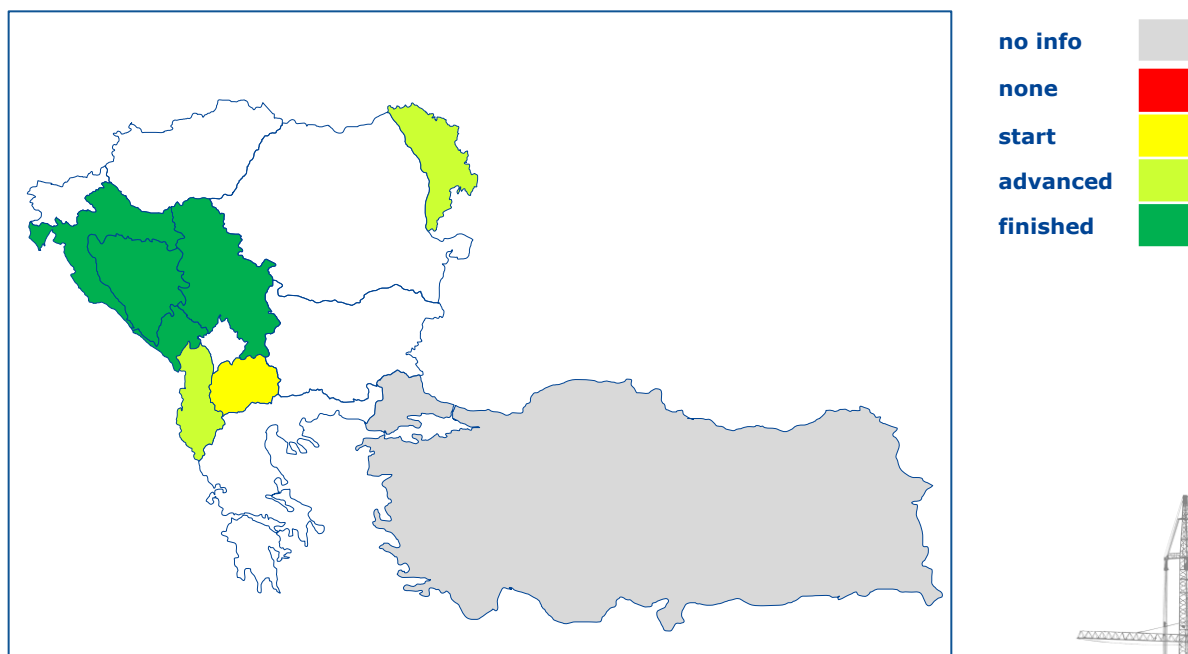
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Questionnaire – data analysis

NDPs and NATIONAL ANNEXES & HARMONIZATION

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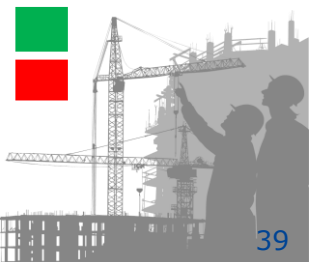
Questionnaire – data analysis

EDUCATION AND TRAINING

3.1 Are the Eurocodes included in the first cycle study (Bachelor) curriculum at the Universities?



Yes
No



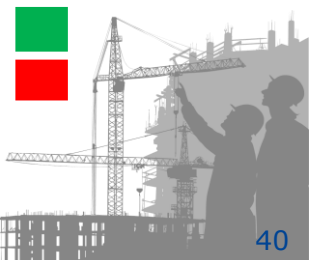
Questionnaire – data analysis

EDUCATION AND TRAINING

3.2 Are the Eurocodes included in the second cycle study (Master) curriculum at the Universities?



Yes
No



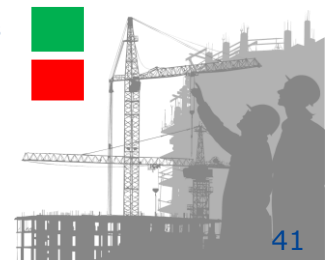
Questionnaire – data analysis

EDUCATION AND TRAINING

3.3 Are the Eurocodes included in the training courses offered by professional associations?



Yes
No



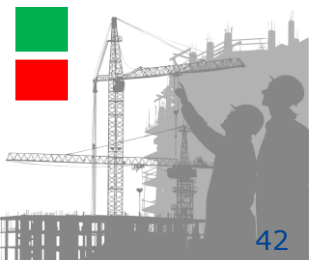
Questionnaire – data analysis

EDUCATION AND TRAINING

3.4 Are there any training material (booklets, leaflets, guidelines etc.) available on each country national language?



Yes
No



Questionnaire – data analysis

ADDITIONAL COMMENTS THAT ARE NOT COVER IN THE QUESTIONNAIRE

Albania

**Component 3:
Building Code Development**

**AL – DRMAP
Ministry of Interior & Ministry of
public works and transport**

**SEE – DRMAP
WB & UN ISDR**



Questionnaire – data analysis

ADDITIONAL COMMENTS THAT ARE NOT COVER IN THE QUESTIONNAIRE

FYROM

Experts participation in Evolution Groups of the CEN TC250/SC7

Participation on seminars and workshops

- * Eurocodes-Background and applications, 2008
- * MASE -2007,2011
- * MAG - 2008

Past cooperation with relevant national stakeholders



Questionnaire – data analysis

ADDITIONAL COMMENTS THAT ARE NOT COVER IN THE QUESTIONNAIRE

MOLDOVA

- Emphasises a strong need to harmonize Moldovan building regulations and standards with European standards.

MONTENEGRO

- The expected term for adoption and implementation process of the Eurocodes is the end of 2016. A better cooperation with the countries in the region is needed in order to define integral data base on the country borders etc.

SERBIA

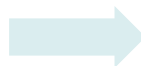
- ISS has established cooperation with the Hydro Meteorological and Seismological Institutes of Serbia for drafting NA. These institutes prepared maps of: snow, wind, temperature and seismic actions.



Questionnaire – conclusions (1)

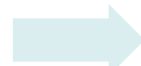
NATIONAL REGULATORY FRAMEWORK

1.1 Is there a National Action plan for adoption and implementation of the Eurocodes?



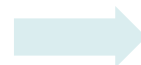
Yes, in fYRoM, Montenegro and Serbia. N/A for Croatia.

1.2 In the case that Eurocodes are adopted as national standards, are they going to be used as primary standards?



They will be used as primary standards in: Croatia, fYRoM Moldova, Montenegro, Serbia and Turkey, (EN 1990, EN 1991 and EN 1997).

1.3 Does any relevant national institution support projects for adoption and implementation of the Eurocodes?



Yes, there is national support for adoption and implementation in Albania, Croatia, fYRoM, Montenegro and Serbia.

1.4 Are there needs for harmonization of national legislation and standardization framework for construction?



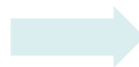
Yes.



Questionnaire – conclusions (2)

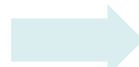
NDPs and NATIONAL ANNEXES & HARMONIZATION

2.1 Is there a Technical Committee for adoption of the Eurocodes already set?



Yes, in Albania, Croatia, fYRoM, Montenegro, Serbia and Turkey.

2.2 Please assess the progress of translation of each Eurocode?



Translation is finished in fYRoM, Moldova, Croatia (*except EN 1993 and EN 1999*) and Serbia (*except EN 1992, EN 1997 and EN 1998*).

2.3 Is there any existing regional cooperation in the process of translation of the Eurocodes?



Yes, fYRoM and Montenegro cooperate with the Institute for standardization from Serbia and Moldova with Romania.

2.4 Please assess the progress of definition of NDPs for each Eurocode?



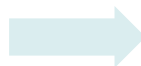
Croatia is the only country which has completed the process. In BiH, Moldova, Turkey and Albania (*except EN 1998*), the process has not starting yet.



Questionnaire – conclusions (3)

NDPs and NATIONAL ANNEXES & HARMONIZATION

2.5 Please assess the proportion of the recommended values of NDPs that have been/will be accepted?



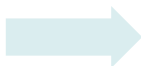
Croatia, Montenegro and Serbia have more than 75% of acceptance for more than 6 Eurocodes.

2.6& 2.7 Is there any existing/foreseen regional cooperation for the definition of NDPs?



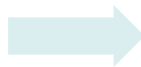
Not existing. Foreseen-in general all countries mainly refer to NSBs in their neighboring countries, as well as faculties and institutes.

2.8 Please identify the barriers for elaboration of the NA, if any?



Yes, there are. In general: lack of resources (e.g. for elaboration of maps); legal framework; insufficient experience and specialists etc.

2.9 Please assess the progress of adoption of Eurocodes related harmonized EN standards?



In the advanced phase adopted in Croatia, BiH, Montenegro and Serbia.



Questionnaire – conclusions (4)

EDUCATION AND TRAINING

3.1 Are the Eurocodes included in the first study cycle (Bachelor) curriculum at the Universities?



BiH and Croatia completely include the Eurocodes in the first study cycle. Albania and Moldova not include at all.

3.2 Are the Eurocodes included in the second study cycle (Master) curriculum at the Universities?



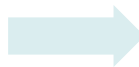
BiH, Croatia, fYRoM and Montenegro (except EN 1999) completely include the Eurocodes in the second study cycle.

3.3 Are the Eurocodes included in the training courses offered by professional associations?



Training courses are offered in Croatia, Montenegro (except EN 1999) and Albania (only EN 1990 and EN 1998).

3.4 Is there any training material available on each country national language?

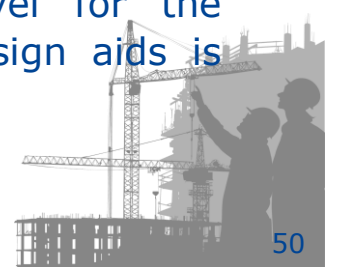


There is in Croatia, fYRoM, Montenegro (except EN 1994 and EN 1999) and Serbia.



General conclusions

- ❑ Most of the non-EU countries in the Balkan region are going to use Eurocodes as primary standards. They are aware about needs for harmonization of national legislation and standardization framework for construction with EU legislation. However, in most of the countries there is a lack of relevant institutional support for adoption and implementation of the Eurocodes.
- ❑ There is good progress on Eurocodes translations, especially on EN 1990, EN 1991 and EN 1992. This process is completed in fYRoM, Croatia and Moldova and in very advanced phase in Serbia. The process of elaboration of NDPs and NA has started in majority of countries (in Croatia it is already finished).
- ❑ Eurocodes are included in higher education; more extensively in the second cycle (Master courses). In general, training courses are not offered by professional associations (except in Croatia and Montenegro) and there is lack of comprehensive training material. The financing at National level for the elaboration of guidelines for application of EN Eurocodes and design aids is insufficient.



Thank you for your attention

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

