



Present status of Eurocodes in Albania

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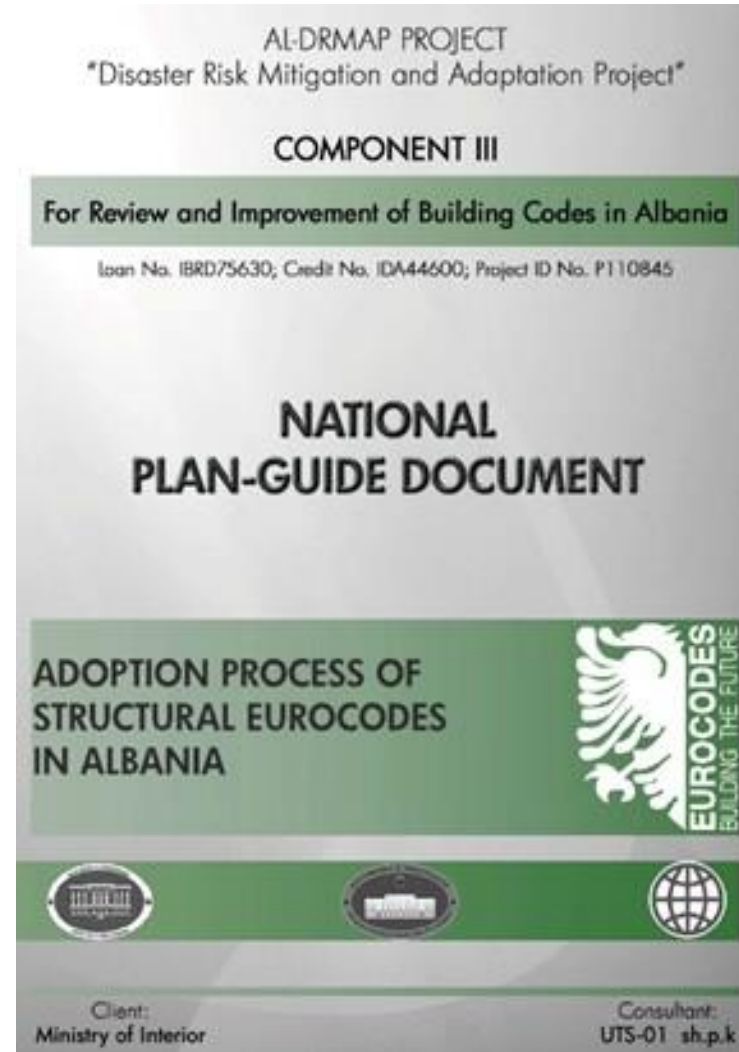
I What is done until now

- **National plan-guide document;**

The steps needed as well as institutions & stakeholders involved;

Time schedule for the adoption process;

Prepared following JRC recommendations



I What is done until now

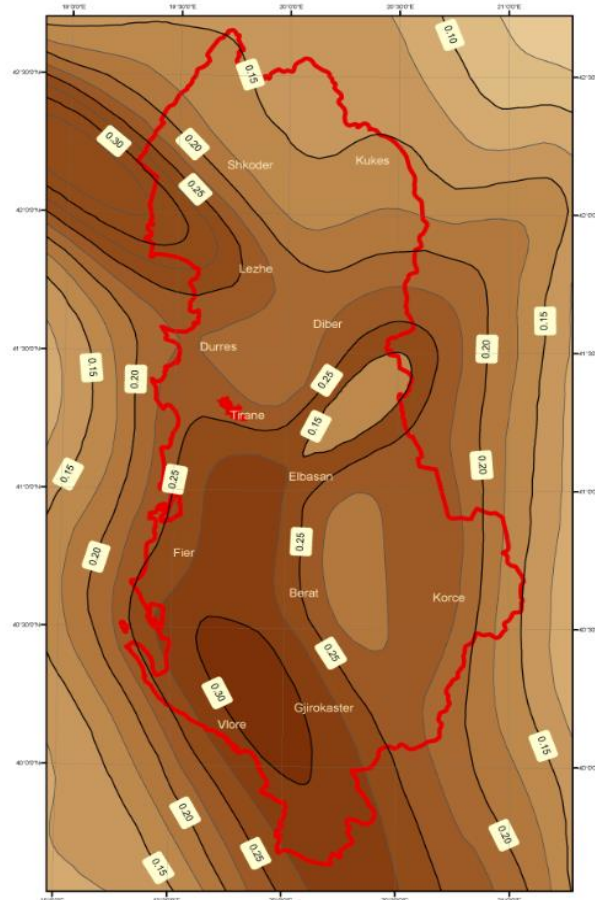
- *Translated and accepted as Albanian Standard*

1. **SSH EN 1990 + A1;**
2. **SSH EN 1991 all parts;**
3. **SSH EN 1992 all parts;**
4. **SSH EN 1993 all parts;**
5. **SSH EN 1998 Parts 1,2,3,5;**

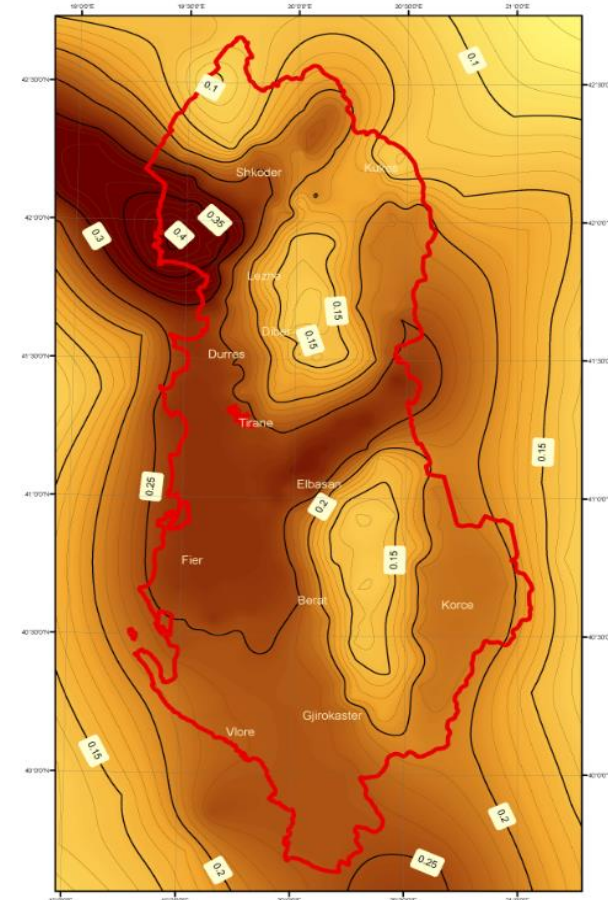


I What is done till now

- Parameters to be determined
- Studies for the NDPs that require national decision have been undertaken (e.g. studies for seismic PGA map);**



HARTA E SHPEJTIMEVE MAKSIMALE REFERENCE, NE TRUALL TE FORTE PER PERIUDHE RIKTHIMI 475 VJET ("Vlerësimi i Rrezikut në Shqipëri", PNUD 2003)



HARTA E SHPEJTIMIT MAKSIMAL PER SHQIPERINE, NE TRUALL SHKEMBOR PER 475 VJET PERIUDHE RIKTHIMI (SIZMOCITETI, SIZMOTEKTONIKA DHE VLERESIMI I RREZIKUT SIZMIK NE SHQIPERI - AKADEMIA E SHKENCAVE E SHQIPERISE)



I What is done until now

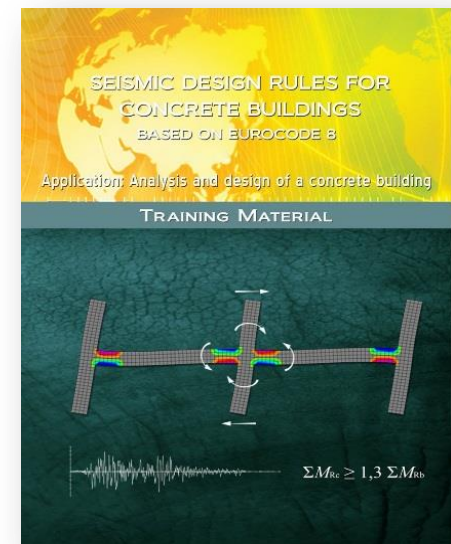
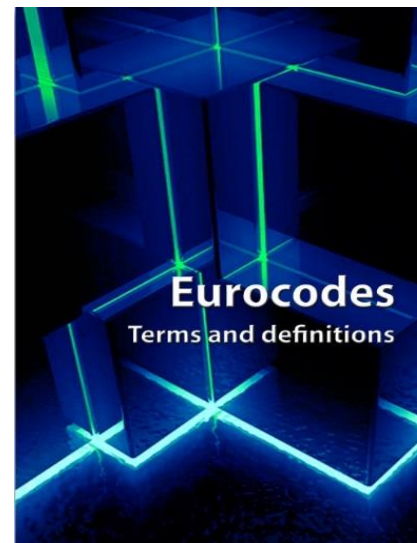
- *Training materials*

A glossary of terms and definitions for Eurocodes;

**Technical materials
Understanding EN 1990;**

**Design procedures for
concrete structures**

**Seismic design rules for
concrete buildings;**



I What is done until now

- *Conferences and Workshops*

Round-tables with institutions and stakeholders;

Several workshops and training seminars across Albania;


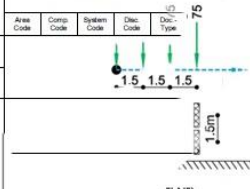
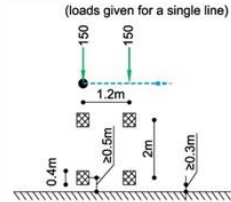


I What is done until now

- *Use of translated and non-translated Eurocodes;*
The English version of Eurocodes has been used for the design of structures in Albania since several years ago.

The design of construction works can't be completed using only the translated Eurocodes (e.g. EN 1997 is necessary).

Many consulting companies use the Eurocodes, especially in international projects and collaborations with European companies;

 Trans Adriatic Pipeline	Special V 600kN Page 1 (ven for a single line)	LM1- TS (loads given for a single line)											
	<table border="1"> <thead> <tr> <th>Area Code</th> <th>Comp. Code</th> <th>System Code</th> <th>Disc. Code</th> <th>Disc. Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Area Code	Comp. Code	System Code	Disc. Code	Disc. Type							
	Area Code	Comp. Code	System Code	Disc. Code	Disc. Type								
Ordering Unit: Trans Adriatic Pipeline AG													
Owner: Project Title: Trans Adriatic Pipeline – TAP Document Title: Design Report Bridge #													

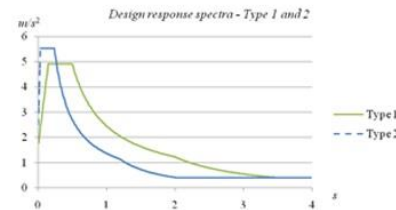


Figure 11 Design horizontal response spectra

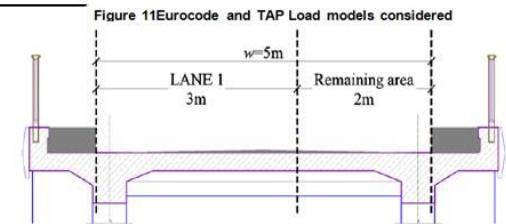


Figure 10 Definition of notional lanes



I What is done until now

- *Introduction of Eurocodes at universities;*
Eurocodes have been partially introduced within different study programs in Universities for many years;
- *Execution, product and testing standards*
Following CPD already incorporated in our legislation, many industries and companies operating in civil engineering have introduced ENs in their products and procedures;

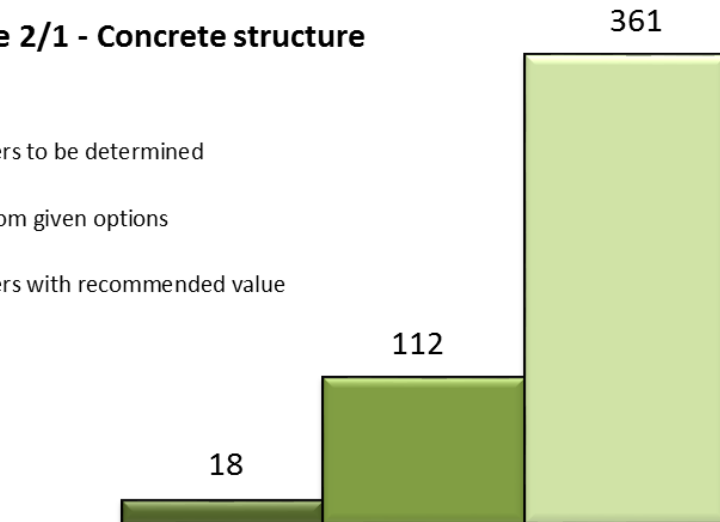


I What is done since last workshop

- *NAs and NDPs - Partially prepared;*
Preparation of a database containing NDP's of all Eurocodes, divided into Eurocode Packages;

Package 2/1 - Concrete structure

■ Parameters to be determined
 ■ Choice from given options
 ■ Parameters with recommended value



		Parameters to be determined	Choice from given options	Parameters with recommended
EN 1990	EN 1990 w/o A2	0	14	8
EN 1991	EN 1991-1-1	0	3	8
	EN 1991-1-2	2	7	1
	EN 1991-1-3	4	15	9
	EN 1991-1-4	6	20	56
	EN 1991-1-5	3	4	15
	EN 1991-1-6	0	11	16
	EN 1991-1-7	0	17	26
	EN 1991-3	0	1	6
EN 1992	EN 1992-1-1	0	1	118
	EN 1992-1-2	0	6	4
EN 1997	EN 1997-1	1	8	33
EN 1998	EN 1998-1	2	3	51
	EN 1998-3	0	2	6
	EN 1998-5	0	0	4
Totali	Package 2/1	18	112	361



I What is done since last workshop

- *NAs and NDPs - Partially prepared;*

Preparation of draft National Annexes, accepting all recommended parameters of 4 Eurocodes already translated;

Examples to understand and apply some NDP's of Package 2/1.

The list of old Technical Codes to be replaced by Eurocodes as well as the list of those remaining after Eurocode implementations

- *Use of Eurocodes at the universities;*

Faculty of Civil Engineering, set up a working group in order to fully incorporate the Eurocodes in study programs.

It is foreseen to be effective in academic year 2015-2016



II Difficulties

- *Insufficient coordination between different national authorities*
 1. **Adoption process requires collaboration between different government units (MEDTE through DPS, MTI, MUdT and MES through Universities);**
 2. **Also the legislation in construction sector requires interventions.**
- *Eurocode Steering Committee;*
 1. **The Eurocode Steering Committee that coordinate all activities leading to the replacement of the old Technical Codes with Eurocodes is not constituted yet;**
 2. **The KT-250 within GDS is a volunteer small group (with not enough technical experts and financial support) and in current status it does not have any legislative power to approve NAs with NDPs or other administrative and technical steps;**



II Difficulties

- *Eurocodes: both "Standards" and "Technical Codes";*

According to Albanian legislation in the field of construction, the design of structures must follow the KTPs – Technical Codes. Therefore, it is not sufficient to accept Eurocodes as National Standards. They should also be approved as "Albanian Technical Codes"

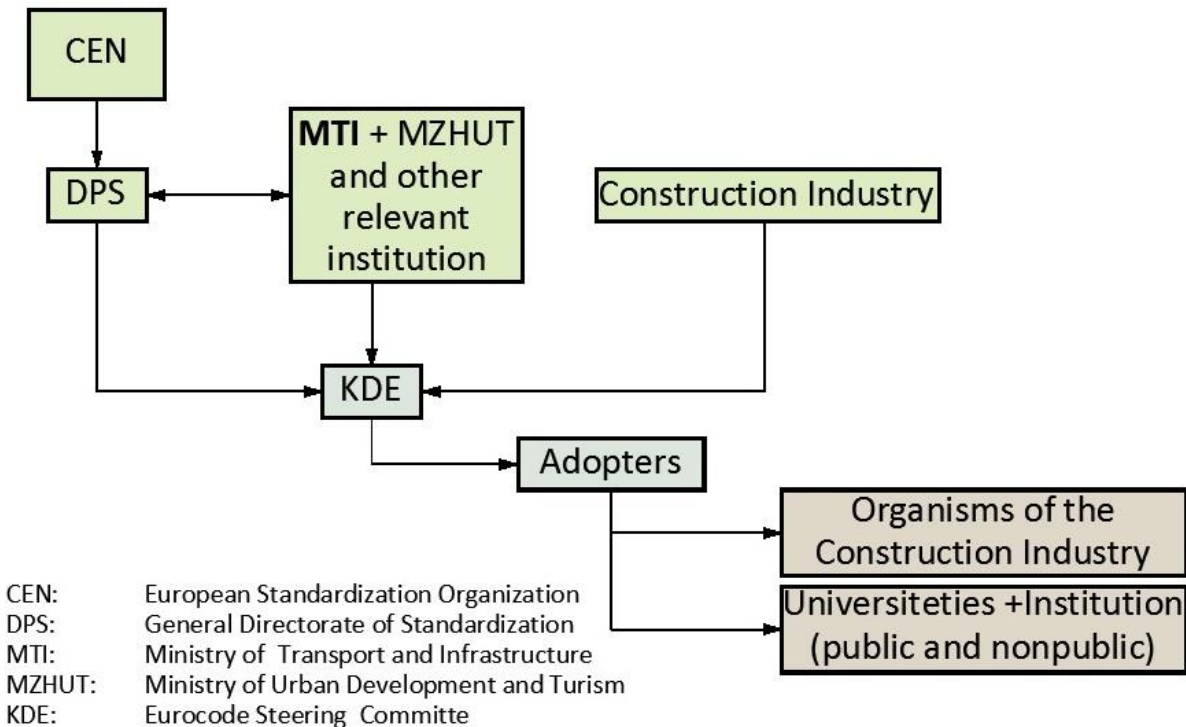
- *Unified terminology;*
 - 1. An unified terminology in Albanian is necessary in the field of Civil and Structural Engineering. Different Authorities use a non-unified terminology, leading to possible misunderstandings;**
 - 2. Usage of European Standards in their official languages might lead to confusion to the end users.**



III Needs

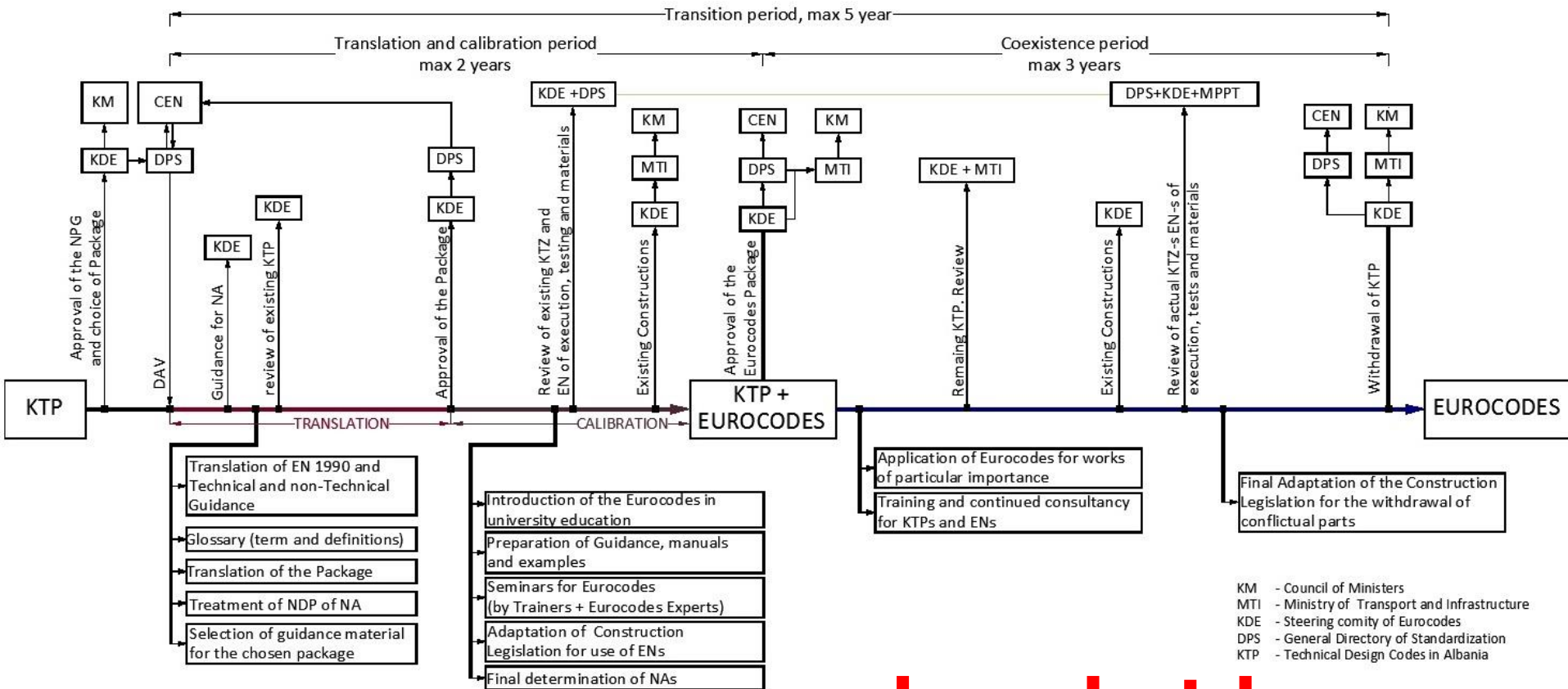
- *Set up of Eurocode Steering Committee - KDE*

1. It is urgent that the Government activate the KDE;
2. KDE can be a new inter-ministerial unit having the authority to implement the National Plan-Guide;
3. This can also be achieved by increasing the financial and human capacities of the existing KT-250 within GDS;



III Needs

• Set up of Eurocode Steering Committee



who what how



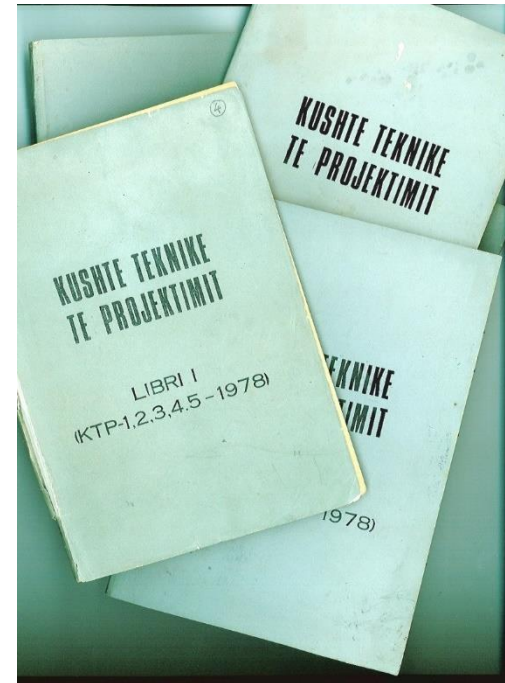
III Needs

- *Legislative steps*

Legislative steps should be taken to enable the co-existence of Eurocodes with the Albanian Technical Regulations until the full withdrawal of KTPs;

- *Financial support*

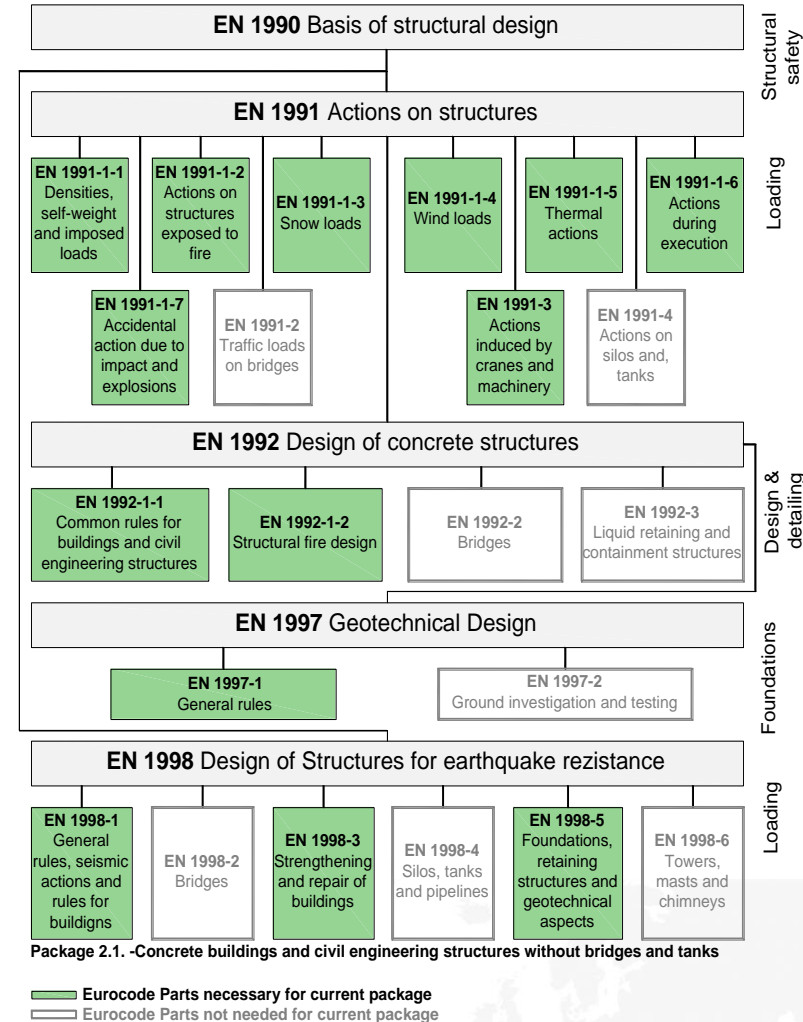
- 1. The government has to foresee a larger budget for KDE and Eurocode adopters;**
- 2. Alternative financial resources can speed up implementation process.**



III Needs and future steps

- Eurocode Packages implementation*

- 1. Based on present progress in Albania, implementation of Package 2/1, 2/2 and 3/1, besides NDPs, requires only translation of EN 1997;**
- 2. Using packages has the advantage that it accelerate the implementation and serves as experience for next packages.**



III Needs and future steps

- *Regional collaboration*
 - 1. Regional harmonization of NDPs would result beneficiary for all parties;**
 - 2. Collaboration in NDPs such as seismic PGA map, wind map, etc. would result more accurate, less time and financial costs;**
 - 3. International projects and workshops.**



THANKS FOR YOUR ATTENTION !

