

# Harmonized European standards for construction in Egypt

## Introduction to Eurocodes

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Organised with the support of the Egyptian Organization for Standardization and Quality

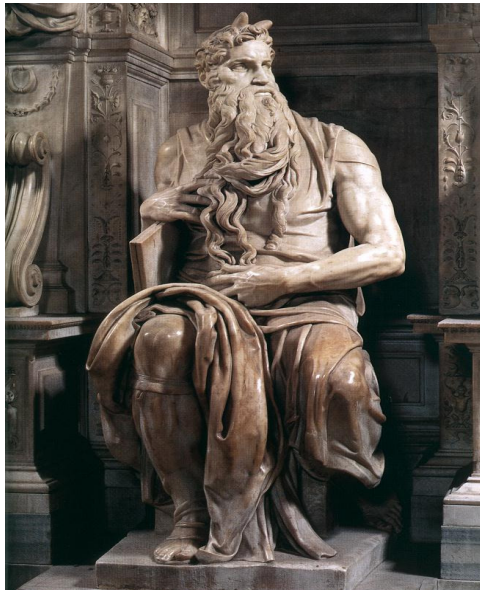


Egyptian Organization for Standardization and Quality  
الهيئة المصرية العامة للمواصفات والجودة

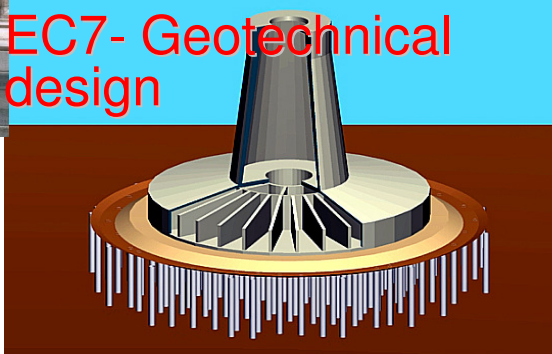
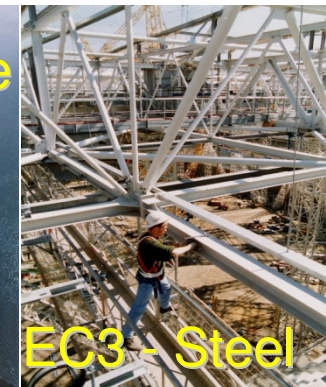


# Introduction to Eurocodes

## THE EUROCODE FAMILY



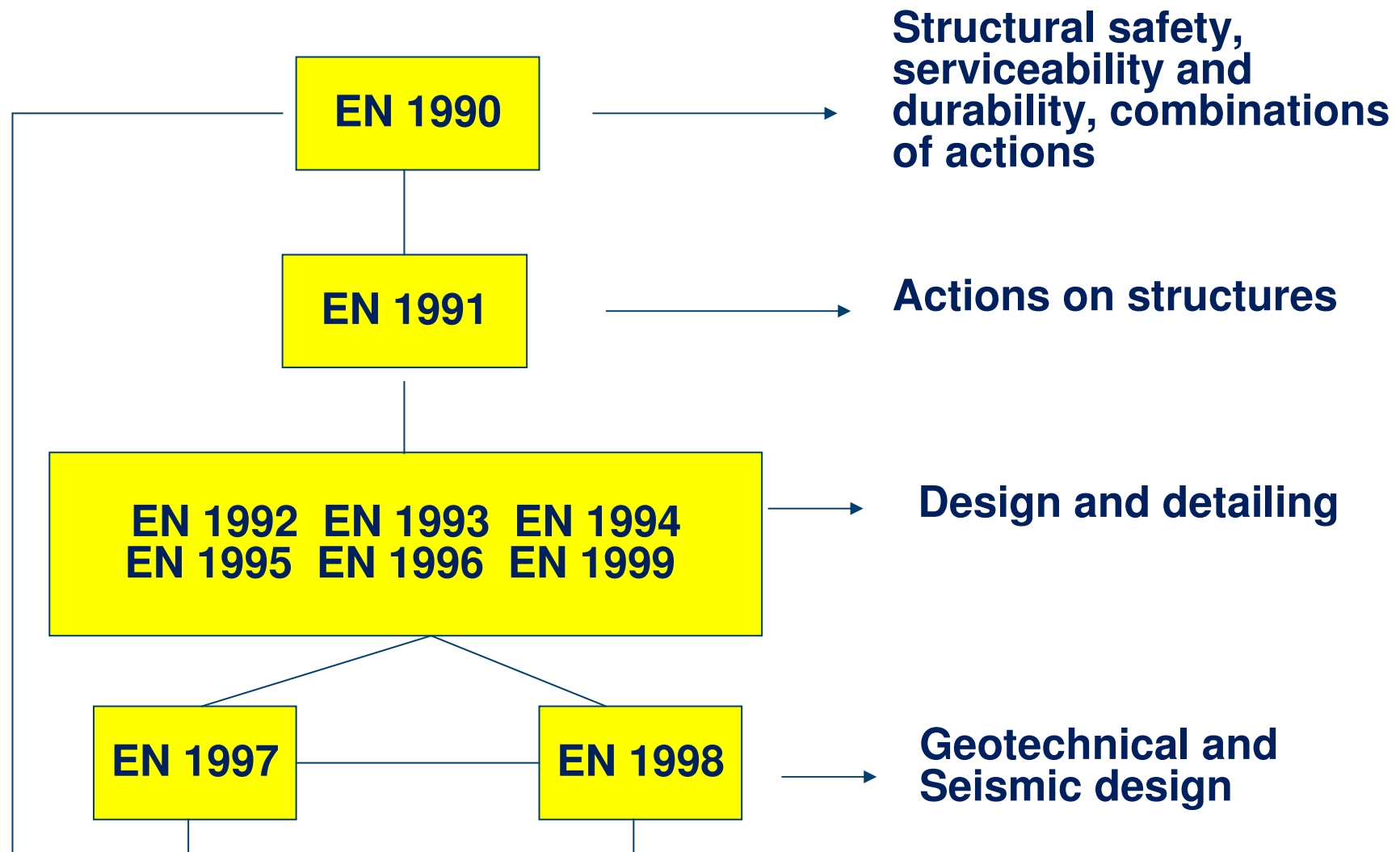
EN 1990 Basis  
of Structural  
design



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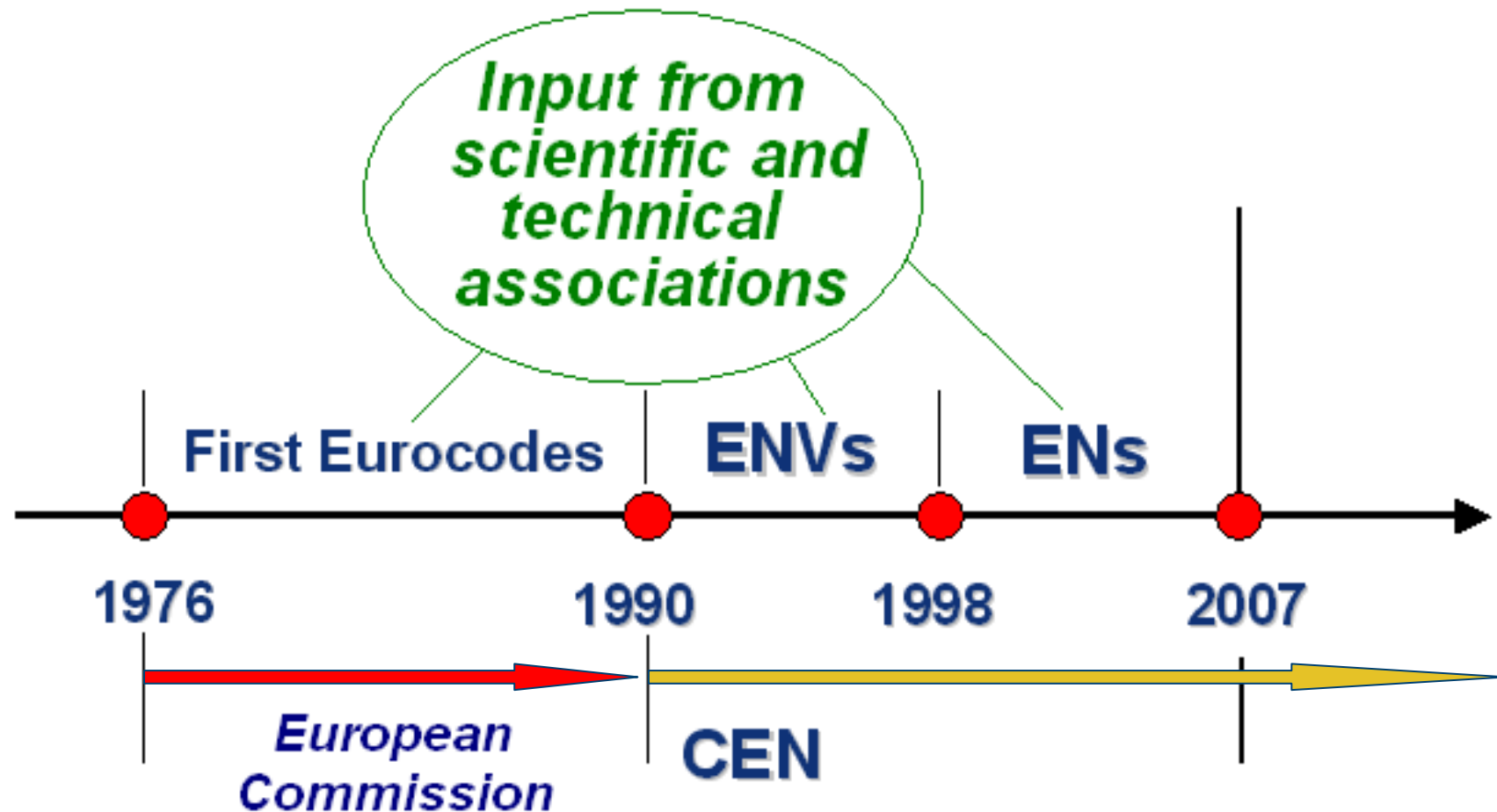


## Introduction to Eurocodes



## Introduction to Eurocodes

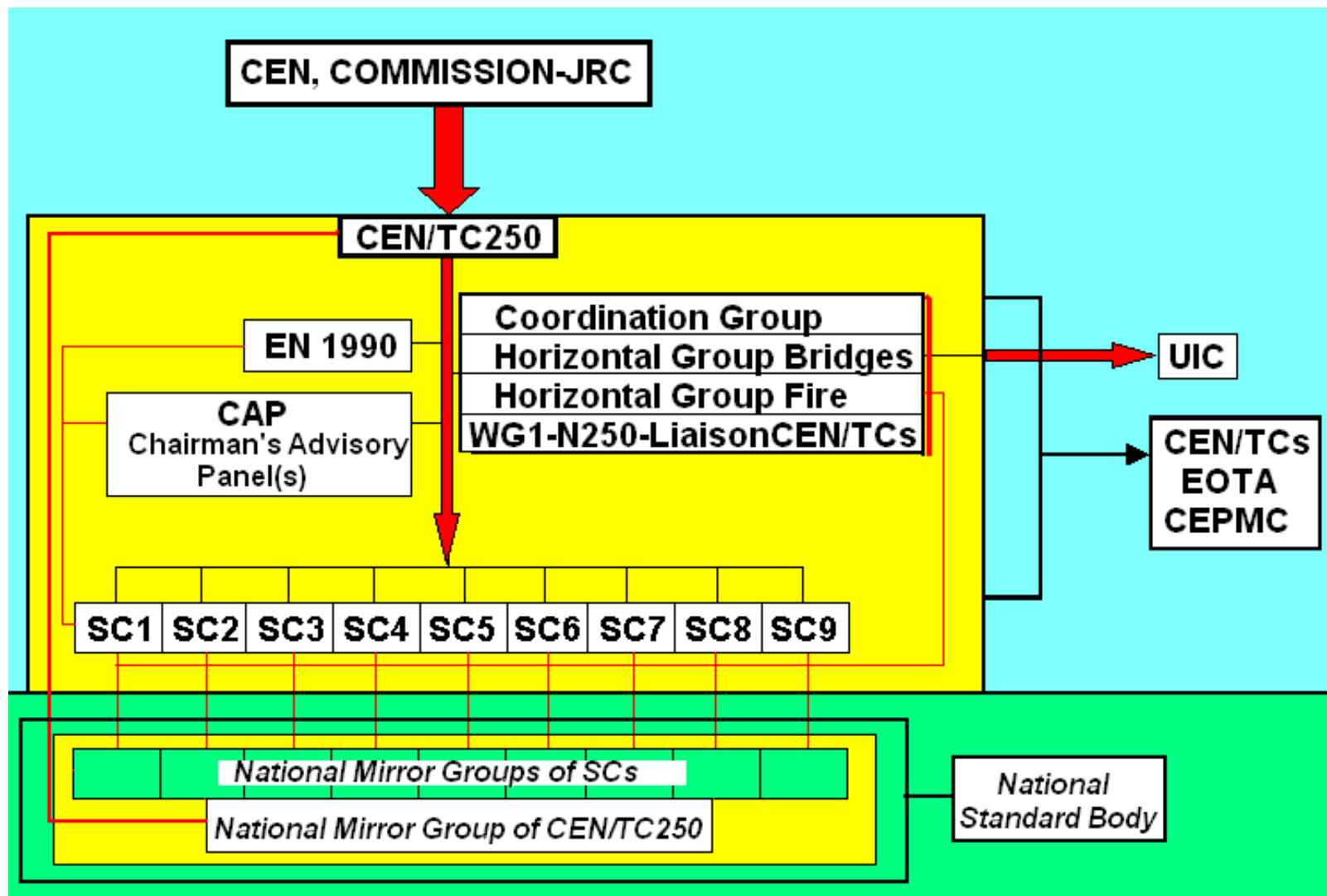
### Development of the present generation of Eurocodes



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## Introduction to Eurocodes

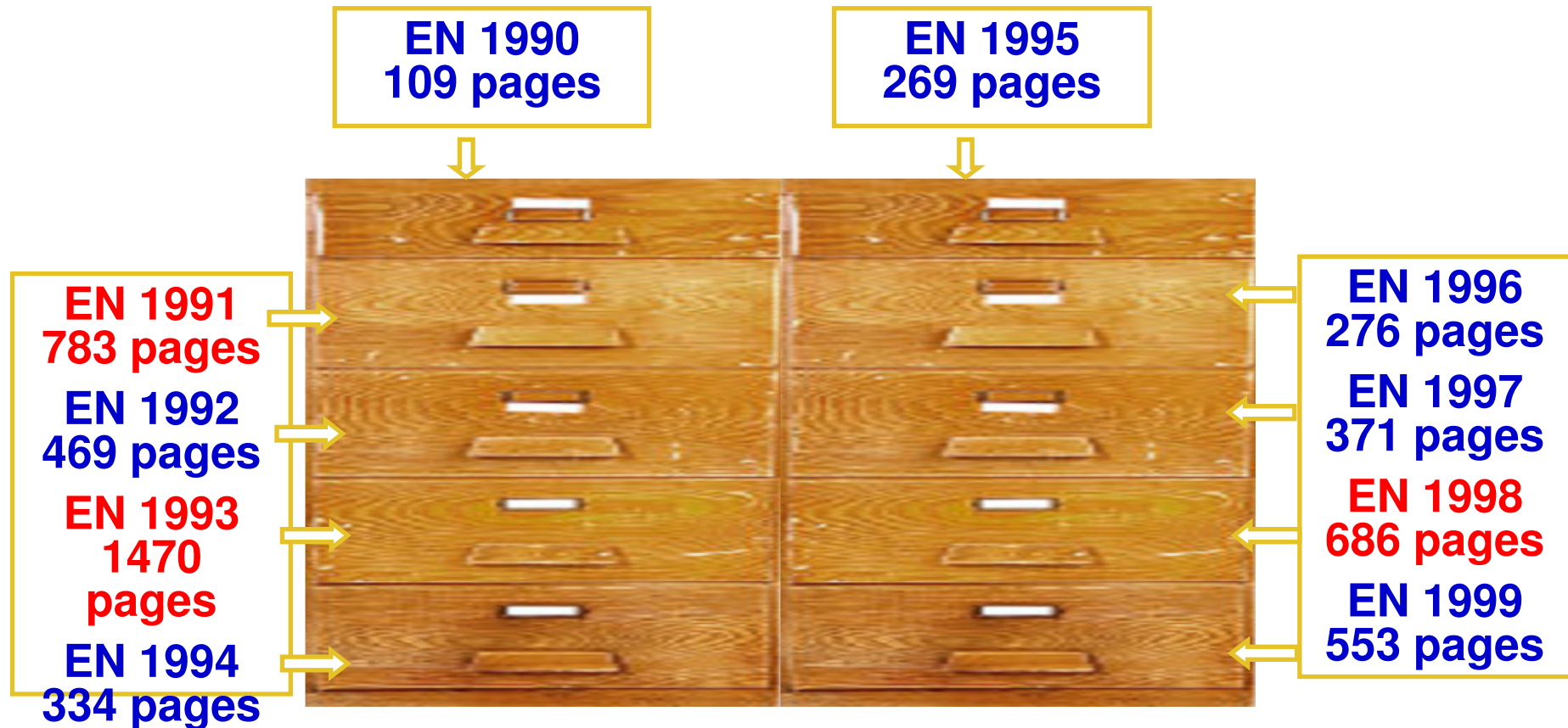


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## 10 Eurocodes – 58 Parts – 5320 pages



Introduction to Eurocodes

# Execution, material, product, test Standards

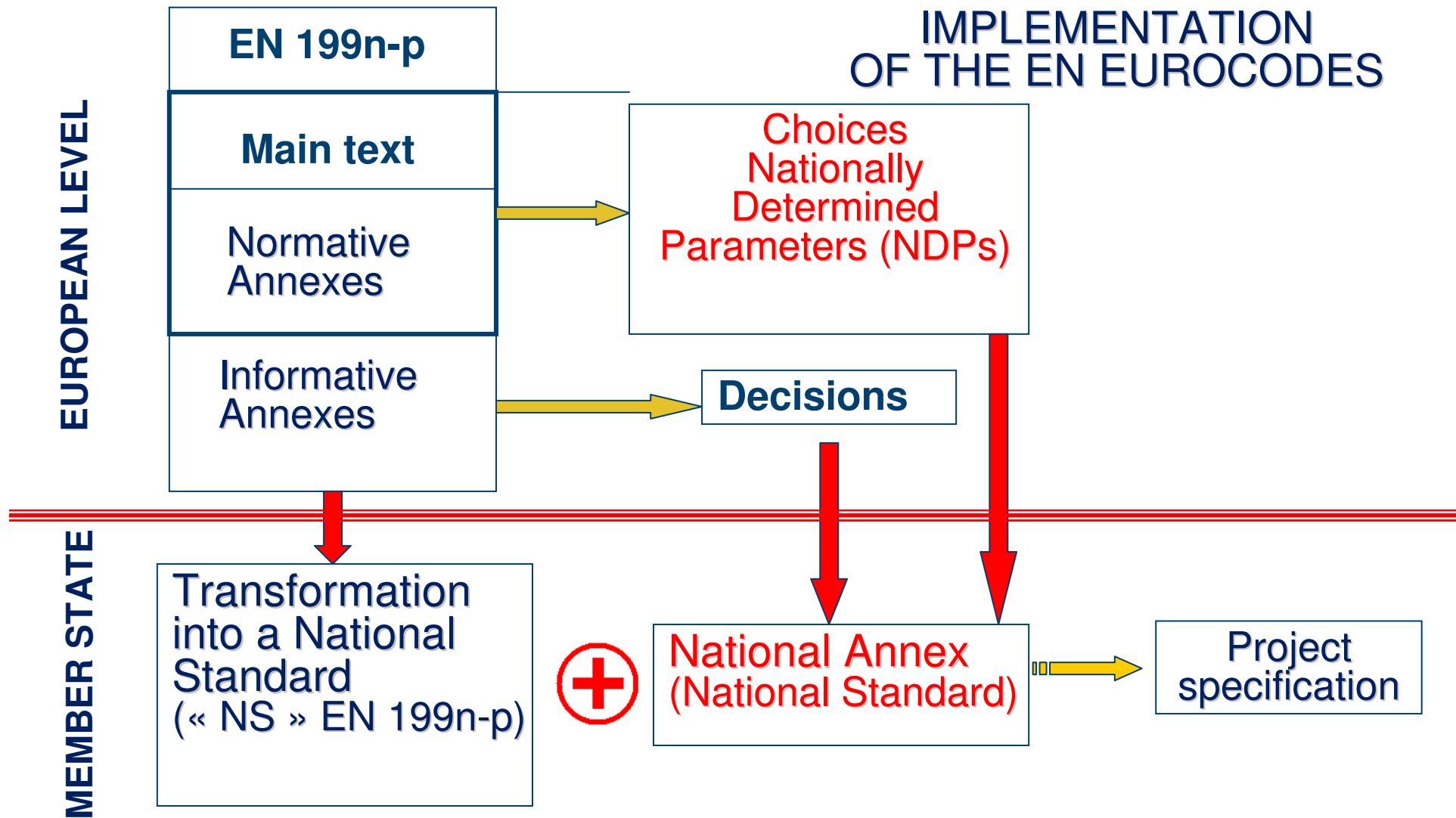


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## Introduction to Eurocodes

### IMPLEMENTATION OF THE EN EUROCODES



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## The Eurocodes in 2010 and beyond : the main strands

<b>PROMOTION / EDUCATION</b>	
<b>MAINTENANCE</b>	
<b>HARMONIZATION (NDPs)</b>	
<b>FURTHER DEVELOPMENT</b>	<b>Evolution of the Eurocodes : Preparation of the new generation of Eurocodes</b>
	<b>Preparation of :</b> <ul style="list-style-type: none"><li>- <b>New Eurocode Parts,</b></li><li>- <b>New Eurocodes ENs</b></li></ul>



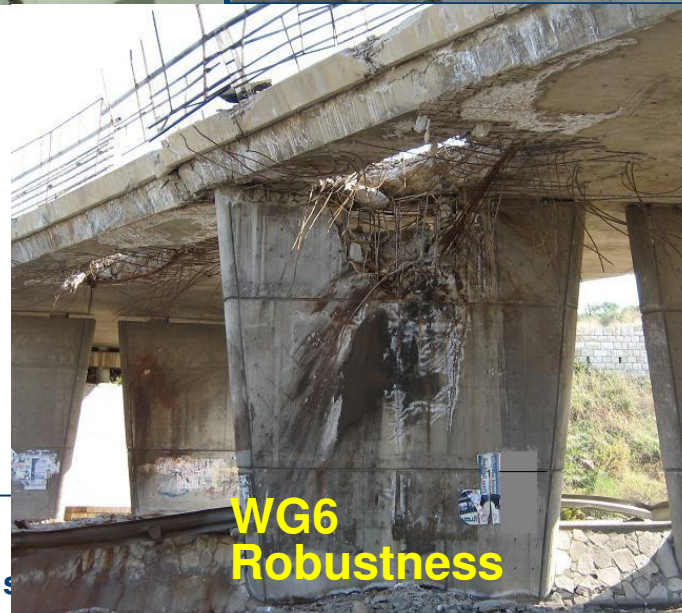
## **FURTHER DEVELOPMENTS OF EUROCODES**

- **New materials**
- **New concepts and/or requirements**
- **New societal needs**

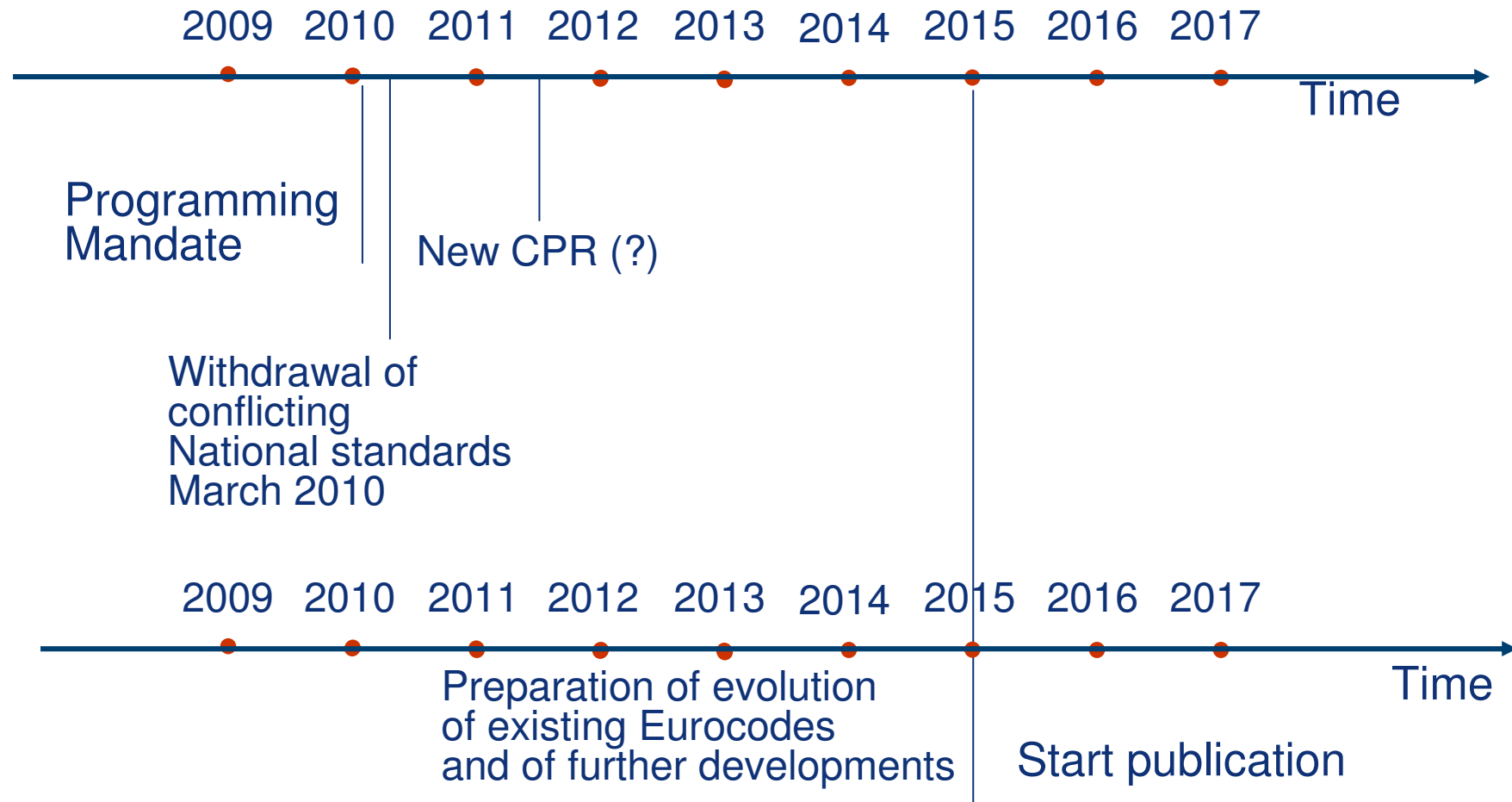


## Introduction to Eurocodes

**WG3 : Glass**



## Introduction to Eurocodes



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# THE FUTURE CONSTRUCTION PRODUCTS REGULATION

## ANNEX I

### Basic works requirements

**Construction works as a whole and in their separate parts must be fit for their intended use.**

**Subject to normal maintenance, basic works requirements must be satisfied for an economically reasonable working life.**





## Basic works requirements

1. Mechanical resistance and stability
2. Safety in case of fire
3. Hygiene, health and the environment
4. Safety in use
5. Protection against noise
6. Energy economy and heat retention
7. Sustainable use of natural resources



## **7. Sustainable use of natural resources**

**The construction works must be designed, built and demolished in such a way that the use of natural resources is sustainable and ensure the following:**

- (a) recyclability of the construction works, their materials and parts after demolition;**
- (b) durability of the construction works;**
- (c) use of environmentally compatible raw and secondary materials in the construction works.**



# Our objectives in a few words



# Introduction to Eurocodes

- Extension of the use of the Eurocodes to :  
Give better answers to societal needs, in particular safety, security, comfort and sustainability;
- Simplify the dialogue between actors of the construction industry
- Evolution of the existing Eurocodes
  - more performance-based codes
  - even more transparency to reach or to differentiate the desired reliability levels
  - tightened links with research.
- Tools to stimulate innovation
- Towards a « harmonized » European regulatory system





Thank you for  
your attention



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