

*"The way forward for the Eurocodes implementation in the Balkans"*

*10-11 October 2018, Tirana*

# **THE ROLE OF CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS IN EUROCODES IMPLEMENTATION, ACTIVITIES AND EXPECTATIONS**

**Dr Petar Cvetanovski**

**KOAI of R.Macedonia**

# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA



## **CURRENT LEADERSHIP OF THE CHAMBER:**

**President of the Chamber Assembly:** Prof.  
PhD Mile Stankovski

**Vice President of the Chamber Assembly:**  
MSc Bashkim Alili

**President of the Chamber:** Prof. PhD Mile  
Dimitrovski

**Vice President of the Chamber:** Rade  
Lazarevski



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

**FOUNDED 2007**





# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

**More than 3000 ACTIVE MEMBERS and  
12 ENGINEERING DEPARTMENTS**

**Department of Civil engineers**

**Department of Architects**

**Department of Electrical engineers**

**Department of Mechanical engineers**

**Department of urbanists and planners**

Department of Traffic engineers

Department of engineers of geology and geotechnics

Department of Environmental engineers

Department of Geodetic engineers

Department of engineers in occupational safety and fire  
protection

Department for Energy Efficiency

Department of technologists and metallurgists



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

**The Chamber is member of:**



**International Balkan  
Engineering Council**



**Full member of European family**



World Federation of Engineering Organizations  
Fédération Mondiale des Organisations d'Ingénieurs

**From 2014 member of WFEO**



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## **VISION**

**Positioning the Chamber of Certified Architects and Certified Engineers as an equal and relevant member of the international engineering community, active stakeholder in the development of the engineering profession and factor in strengthening the role of engineers in society.**



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## **MISSION**

**Use the influence and authority of the Chamber and through cooperation with relevant institutions advance and improve certain provisions in laws and regulations in the interest of architects, engineers and the engineering profession as a whole.**



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## **ACTIVITIES**

**Continuous professional development of its members  
through organization of trainings**

**Issue and continuation of certificates of domestic and  
foreign engineers and architects**

**Publication of the professional journal PRESING**

**Nostrification of foreign projects**

**Support to professional engineering associations in  
the state**

**Organization of seminars, conferences and other  
professional events**





# **CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA**

**The Chamber has very active role in process of:**

**Continued Professional Development (CPD) of  
the engineers in Republic of Macedonia**

**The Chamber organizes between 20-30  
educational seminars per year across the country**



## **CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA**

**The Chamber financially and logistically supports  
5-10 engineering symposiums/other events  
organized by other engineering organizations in  
Republic of Macedonia**

**Every year, the Chamber awards the best  
engineering students with an engineering ring,  
under the auspices of the President of Republic  
of Macedonia**



# **CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA**

**The only engineering chamber in Republic of  
Macedonia, empowered by the national legislation  
to issue certificates to Macedonian engineers and  
architects in terms of their professional eligibility**

**The only entitled institution in Republic of Macedonia  
to issue certificates for foreign engineers / architects  
wanting to work in our country**



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

Type of certificates (A or B level):

**1/ DESIGN**

**2/ REVISION**

**3/ SUPERVISION**

**4/ CONSTRUCTION**



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

**Publication of the professional  
journal PRESING**





# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

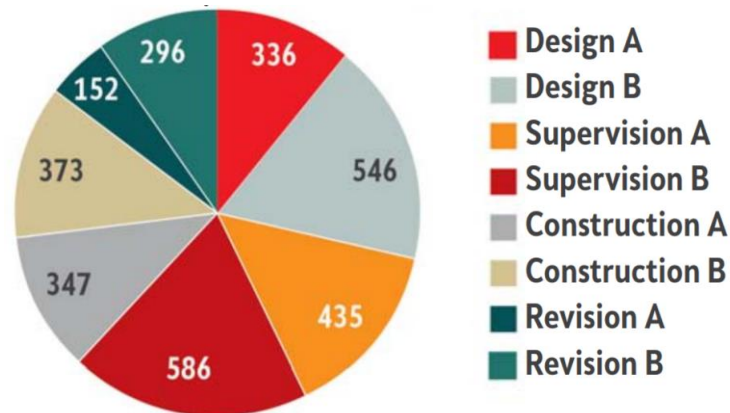
## PROFESSIONAL DEPARTMENT OF CIVIL ENGINEERS

**Founded:** 2008

**Number of active members:** 1 073

**Head of the Department:** Prof. PhD Petar Cvetanovski,  
graduated civil engineer

### Certification analysis:





# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### Goals and achievements of implementation:

- To improve opportunities of our engineers on EU market
- Development and international affirmation of our construction firms
- Part of Euro-integration process



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### Activities of the Chamber, 2012-2013:

- Professional revision of Eurocodes translations

Experts from Faculty of civil engineering, IZIIS, Faculty of mechanical engineering and some others

All Eurocodes, around 5000 pages

Supported by Chamber and Faculty of civil engineering

Financial support of Chamber – 60.000 eur.





# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### Activities of the Chamber, 2014:

- 27 seminars for Eurocodes implementation

Subjects were EC1, EC2, EC3, EC7 and EC8

One day (8h) informative seminars for the members  
of the Chamber

More than 1000 members attendance, or 37  
members per seminar

Experts from Faculty of civil engineering

Financial support of Chamber – 30.000 eur.



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### Activities of the Chamber, 2015:

#### Report letter send to Government of R.Macedonia

- Information about finished activities regarding to process of Eurocodes implementation
- Proposal for further measures and activities



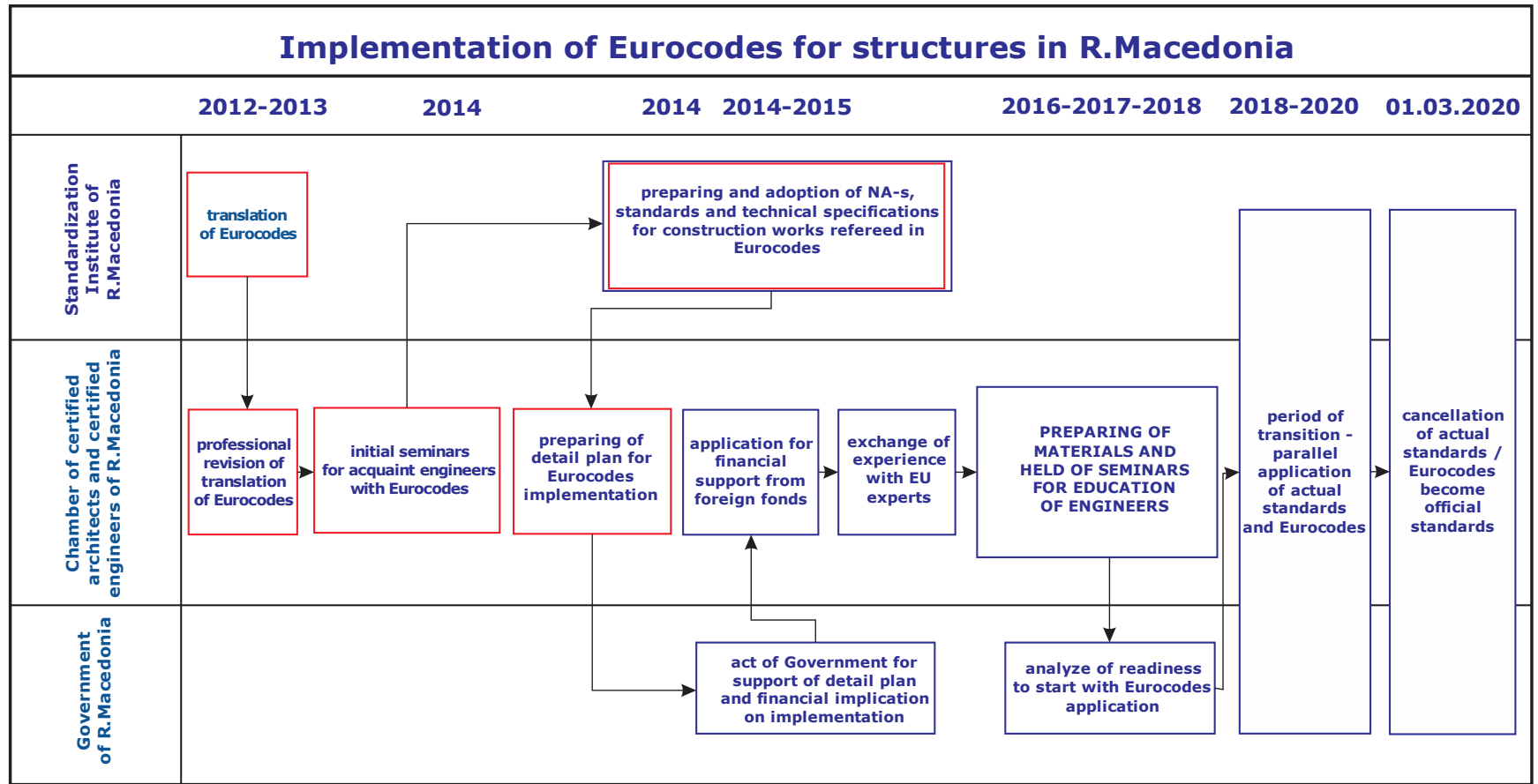
# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

Main objectives of the proposal  
for further measures and activities were:

- Preparing and adoption of National Annexes (ISRM)
- Education of engineering staff (Chamber, Faculty of civil engineering - Skopje)

# Table of fulfilled activities and proposal for fully implementation of Eurocodes





# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### Plan for education of engineering staff (2016-2018):

- Preparing of materials for all 9 Eurocodes

Faculty of civil eng. – Skopje, 36 experts

9 books, about 1800 pages

Financial support (170.000 eur),  
generally from budget of Government



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### Plan for education of engineering staff (2016-2018):

- 489 one-day seminars, 36 experts

Held at 4 cities (Skopje, Bitola, Tetovo and Stip)

Organized by the Chamber and Faculty of civil eng. - Skopje

Financial support (128.000 eur),  
generally from budget of Government



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### Plan for education of engineering staff (2016-2018):

#### - Other activities

Engagement of EU experts

Printing of materials

Space and equipment for seminars

Organized by the Chamber

Financial support (50.000 eur),  
from budget of Government, or EU funds



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### CONCLUSIONS:

- 1/ Process of Eurocodes implementation is on stand-by from 2015
- 2/ The act of Government for support of detail plan with adequate financial support should be brought
- 3/ The finalization of National annexes (ISRM), geography depending parameters, should be done in short time
- 4/ Period of transition should start no later than June 2019





# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### CONCLUSIONS:

- 5/ Improvement of NDPs should be done during transition period. To adopt all recommended values for NDPs in NAs is not proper method, and it does not lead to adequate safety level of particular country.
- 6/ Eurocodes principles and rules have to be implemented in higher education subjects at Faculties of civil engineering and other faculties



# CHAMBER OF CERTIFIED ARCHITECTS AND CERTIFIED ENGINEERS OF R.MACEDONIA

## Implementation of EUROCODES, views from the CHAMBER

### CONCLUSIONS:

- 7/ Chamber of certified architect and certified engineers is a relevant stakeholder and most suitable institution to organize the implementation of Eurocodes in our country.

***"The way forward for the Eurocodes implementation in the Balkans"***

***10-11 October 2018, Tirana***

**Thank you for your attention!**



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