

Updating the ECCE book “Civil Engineering Profession in Europe”

*A review of the profession in Europe today from education to
professional practice*

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Funchal, Madeira – ECCE 80th GA
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**2005 Civil Engineering Profession
in Europe**

*A review of the profession in Europe today
from education to professional practice*



European Council of Civil Engineers

Civil Engineering Profession in Europe (2005)

A review of the profession in Europe today from education to professional practice

- ➔ First edition in the early 1990s
- ➔ Second edition in 1998
- ➔ Third edition in 2005
- ➔ Fourth edition in 2025 (40 Years of ECCE)
- ➔ Regular online Update afterwards (e-version)

Scope of the project

- ➔ Exchange of Data and Enrichment of Knowledge between members.
- ➔ Regular update and review of the data (especially in Europe) regarding our Profession, in all aspects of Construction Industry.
- ➔ Record of the data per country, keep them in a common platform accessible to all, for easy information.
- ➔ Record the various activities per country in order to be beneficial for the Society and the Profession and Create easy Communication Channels.
- ➔ Share data and raise Awareness in various aspects of the profession.
- ➔ Protect and upgrade the Civil Engineering Profession.

Civil Engineering Profession in Europe (2025) Review and update of the book and creation of an e-book.

Working Group members:

- ➔ Platonas Stylianou – WG Co-Ordinator
- ➔ Andreas Brandner
- ➔ Jeanette Muñoz Abela
- ➔ Maria Karanasiou

Chapter review, re-organization and introduction of new chapters and elements.

Data collection.

Creation of the Deliverables format.

Consultation and special meeting with the curators of the 2005 edition:

- ➔ Yrjö Matikainen (President in 2005)
- ➔ Carsten Ahrens (Vice President in 2005)

Numerous virtual and in person meetings, discussion and brain storming of the working group.

Review of the data received... by the national representatives\volunteers?
(TBC) – mid 2025

Good response from many Countries.

Hard work from all members of the working group to create quality material and meet the deadlines.

Data collection and methodology

- ➡ Each country appointed a representative/coordinator to coordinate the data collection (firstly done 09.2023 and confirmed on 09.2024).
- ➡ Creation of specific guidelines for the type, length, and quality of data to be collected (done).
- ➡ Online questionnaires for each chapter / section (done).

Country Representatives

	Country	Name	Organization
1	Austria	Andreas Brandner*	Federal Chamber of Architects and Chartered Engineering Consultants
2	Bulgaria	Dimitar Natchev	Union of Civil Engineers in Bulgaria (UCEB)
3	Croatia	Nina Drazin Lovrec	Croatian Chamber of Civil Engineers
4	Cyprus	Kyriakos Tsioupanis*	Cyprus Association of Civil Engineers
5	Czech Republic	Karel Kabele	Czech Chamber of Chartered Engineers and Technicians
6	Estonia	Andres Piirsalu*	Estonian Association of Civil Engineers
7	Georgia	Iuri Svanidze	Georgian Society of Civil Engineers (GSCE)
8	Greece	Paris Charlaftis	Association of Civil Engineers of Greece
9	Hungary	Gabor Szollosy*	Hungarian Chamber of Engineers
10	Ireland	Murt Coleman	Civil Division, Engineers Ireland
11	Latvia	Raimonds Eizensmits*	Latvian Association of Civil Engineers (LACE)
12	Lithuania	Žymantas Rudžionis*	Lithuanian Association of Civil Engineers
13	Malta	Jeanette Muñoz Abela*	Kamra Tal-Periti (KTP)
14	Montenegro	Olga Radulovic*	Chamber of Engineers of Montenegro
15	North Macedonia	Meri Cvetkovska	Chamber of Certified Architects and Certified Engineers of North Macedonia
16	Poland	Andrzej Pawlowski*	Polish Chamber of Civil Engineers
17	Portugal	Humberto Varum	Ordem dos Engenheiros
18	Serbia	?	Serbian Chamber of Engineers
19	Slovakia	Ľuboš Moravčík	Slovak Chamber of Civil Engineers
20	Slovenia	Dejan Prebil	Slovenian Chamber of Engineers
21	Turkey	?	Turkish Chamber of Civil Engineers (TCCE)
22	Ukraine	Ivan Nazarenko*	Kyiv National University of Construction and Architecture
23	United Kingdom	John Laverty	Institution of Civil Engineers (ICE)

Action Plan

Description	Assigned to	Status / Deadline
Template for the introductory page (Chapter 1)	MK	Completed
Survey for Chapter 2	AB	Completed
Survey for Chapter 3	JMA	Completed
Survey for Chapter 4	PS	Completed
Survey for Chapter 5	MK	Completed
Survey for Chapter 6	PS	Completed
Survey for Chapter 7	JMA	Completed
Survey for Chapter 8	MK	Completed
Survey for Chapter 9	PS	Completed
Survey for Chapter 10	AB	TBD
Review and evaluation of the data (by 06.2025)	NR\V	TBC;
List of country representatives and volunteers for the WG	MK	Completed
Letter to the ECCE member organizations introducing the initiative (to be sent with the inquiry for the first chapter)	MK and AB	Done
Letter to a list of organizations which are not ECCE members yet	MK	Done
Letter to the all organizations to finalise the initiative	MK and PS	04.2025

LATEST CHAPTERS

Chapter 8. Civil Engineering Practice (M.K.)

8.1. Employment Sectors of Civil Engineers

8.1.1. In which sectors do civil engineers work in your country?

- ➡ Private Sector: Consulting
- ➡ Private Sector: Contracting
- ➡ Private Sector: Materials Industry
- ➡ Public Sector: Local Authorities
- ➡ Public Sector: National Authorities
- ➡ Government/Semi-Government Agencies
- ➡ Self-employed (Freelancer)
- ➡ Other (please specify) (100 characters)

LATEST CHAPTERS

Chapter 9 – Promotion of the Profession / Changing working practices (P.S.)

9.1. Eurocodes

- 9.1.1. Is the use of Eurocodes mandatory for the design of buildings and infrastructure in your country? Y/N
- 9.1.2. If No, please specify which design codes are used instead (2000 characters).
- 9.1.3. Is your country working towards implementing the new Eurocodes? Y/N
- 9.1.4. If Yes, please describe how the implementation is being approached (2000 characters).
- 9.1.5. Are Eurocodes EC1-9 taught to civil engineering students at universities in your country? Y/N
- 9.1.6. If No, please specify which codes are being taught instead (2000 characters).
- 9.1.7. Which organization in your country is responsible for selling and promoting Eurocodes or national codes? (1000 characters).

LATEST CHAPTERS

9.2. Environmental Impact Assessments

- 9.2.1. Is environmental pollution (e.g., carbon footprint, noise, dust, etc.) caused by the built environment a concern in your country? Y/N
- 9.2.2. If Yes, please outline the primary sources of environmental pollution (3000 characters).
- 9.2.3. What measures are in place in your country to prevent or control pollution caused by the built environment? (2000 characters).
- 9.2.4. Please provide details on how these measures address the following specific areas:
 - a) Water
 - b) Soil
 - c) Noise
 - d) Air

LATEST CHAPTERS

9.3. Use of Information and Communication Technology (ICT)

- 9.3.1. Do universities in your country incorporate ICT in education? Y/N
- 9.3.2. If Yes, please explain how ICT is used in education (2000 characters).
- 9.3.3. Does the construction industry in your country support the following technologies?
(Multiple Choice)
 - a. Artificial Intelligence (**AI**)
 - b. Building Information Modelling (**BIM**)
 - c. Geographic Information Systems (**GIS**)
 - d. Digital Construction?
- 9.3.4. If none of the above is supported, what future plans are in place to promote these technologies? (2000 characters)
- 9.3.5. Does the government support or fund the private sector in the digital transformation of the construction industry? Y/N

LATEST CHAPTERS

9.5. Green Policy, Resilience and Sustainability

- 9.5.1. Does your country follow the European Commission's **Green Policy** to reduce environmental pollution and promote sustainable development? (Y/N/Partly)
- 9.5.2. Please explain what measures are being implemented to reduce pollution and promote sustainability in your country (2000 characters).
- 9.5.3. Do you believe that your country will achieve **climate neutrality by 2050**? Y/N
- 9.5.4. Please explain your reasoning (2000 characters).
- 9.5.5. Is your country working towards integrated water resource management and ecosystem protection? Y/N
- 9.5.6. If Yes, please explain how (2000 characters).
- 9.5.7. Does your government implement a **low-carbon, socially inclusive green growth strategy**? Y/N
- 9.5.8. If Yes, please explain how this strategy is being implemented (2000 characters).

LATEST CHAPTERS

Chapter 10 – Additional questions

10.1.1. Are code freely available in your country? (Y\N)

10.1.2. Please define \ name the official organization \ institution responsible to provide or sell the Eurocodes or standards in your Country. (200 characters)

10.1.3. If answer is yes, is there a caveat for a particular profession – e.g. project manager, architect, civil engineer? (200 characters)

10.1.4. If the answer is No, is management and coordination of experts done by all professions which participate in the design of the building; (200 characters)

LATEST CHAPTERS

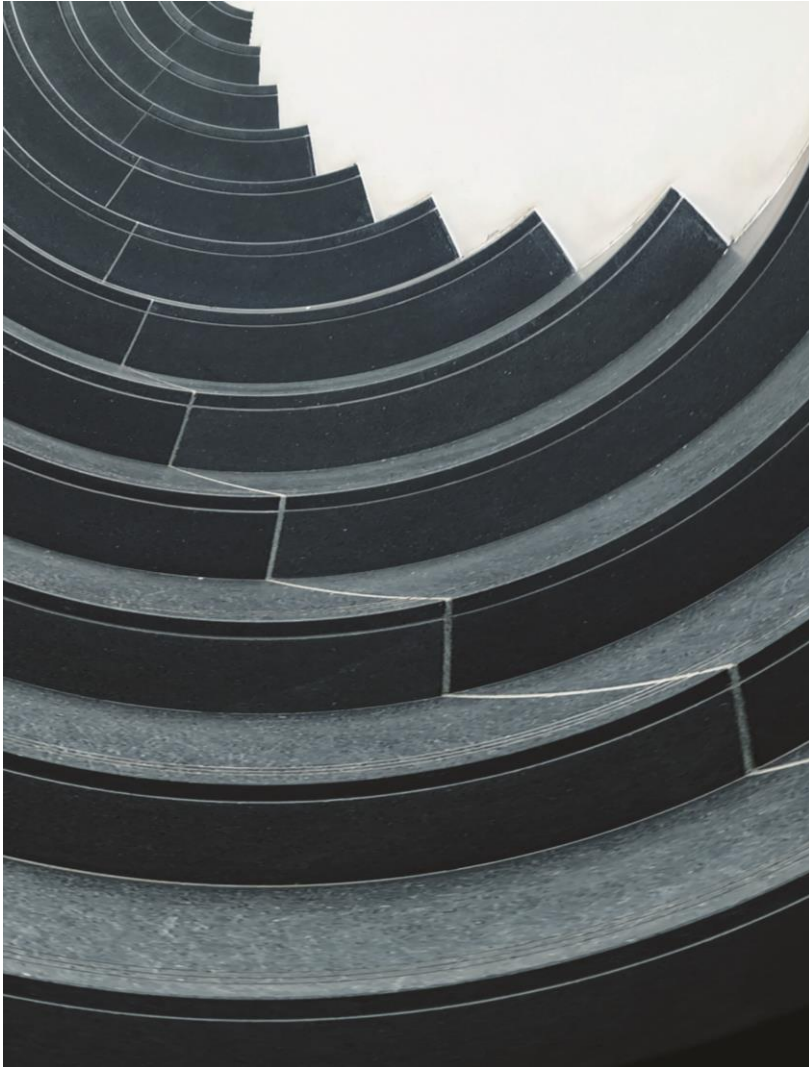
Chapter 10 – Additional questions

10.1.5. Who cares for the coordination of individual plans of the different professions and also who takes care of and is responsible for the integrity of project documentation in general? (300 characters).

10.1.6. Is design review / supervision done in accordance with EN 1990, annex B, table B4 (management of structural reliability) in your country (Y/N)?, and also is it mandatory in your country (Y/N)?

10.1.7. If yes, is checking\ design review done as Self-checking, intern checking or by different persons than those originally responsible, (i.e. Third-party checking)? (300 characters).

10.1.8. Who is responsible for the decision to carry out design review /supervision/checking in your country? (200 characters)



- ➔ **Any Difficulties preparing the answers?**
- ➔ **Feedback from the Countries??**
- ➔ **Any ideas for more chapters / sections?**
- ➔ **Please help us to improve!**

Format / Deliverables

- ➔ Online database (according to European regulation) to allow easy access to the information, easy storage and comparison between countries, and easy use for regular update of the data provided.
- ➔ Creation of an e-book or digital book by late 2025, to be disseminated to all Countries (with provision for limited number of printouts).
- ➔ Discussion with experts and graphic designer for final details, editorial issues
- ➔ **Delivered and disseminated in Split 2025;,, together with the celebration of 40 year of ECCE.**

Timeline of the project

- ➔ Appointment of countries representatives/coordinators by **September 2023 (done)**.
- ➔ Launching of the online surveys by early **November 2023** (first lot – four Chapters). DONE
- ➔ Data collection by the end of **December 2023 – January 2024** (first lot). DONE
- ➔ Launching of the online surveys by **March 2024** (second lot – three chapters). DONE IN APRIL 2024
- ➔ Data collection by the end of May – **July 2024** (second lot). DONE
- ➔ Launching of the online surveys by **October 2024** (third lot – two chapters). DONE
- ➔ Collection and evaluation of all data, by mid 2025
- ➔ Finalization of the database and e-book by the **third;; quarter of 2025;**

Year 2025 ➔ 40 years of ECCE

Responses received

Country	C1	C2	C3	C4	C5	C6	C7	C8	C9
Austria	Yes	Yes	Yes	Yes					
Bulgaria	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Croatia	Yes								
Cyprus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Czech Republic	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Estonia	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes
Georgia	Yes				Yes	Yes	Yes		
Greece	Yes					Yes	Yes		
Hungary	Yes		Yes						
Ireland	Yes								
Latvia	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Lithuania									
Malta	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Montenegro	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
North Macedonia	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Poland	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Portugal	Yes	Yes	Yes	Yes	Yes		Yes		
Serbia									
Slovakia	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Slovenia	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes
Turkey	Yes	Yes	Yes	Yes				Yes	Yes
Ukraine	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
United Kingdom	Yes	Yes	Yes	Yes					
Non-ECCE Full Members									
<i>Spain</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<i>Romania</i>	Yes	Yes	Yes	Yes					
Total responses received	23	18	19	18	15	15	16	6	8

Your active participation and collaboration are very crucial to the success of the project, and we have confidence that, together we can make this initiative successful.

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We warmly welcome your feedback, thoughts, and proposals to contribute to the fruitful development of this project.

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Thank you for your Attention!!