



Eurocodes in Europa
11 juni 2026 - Dag van de constructeur

Even voorstellen



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Secretaris van CEN/TC 250/WG 6 *Robustness*

Convenor van CEN/TC 250/WG 1 *Policy, procedures and links with other standards*

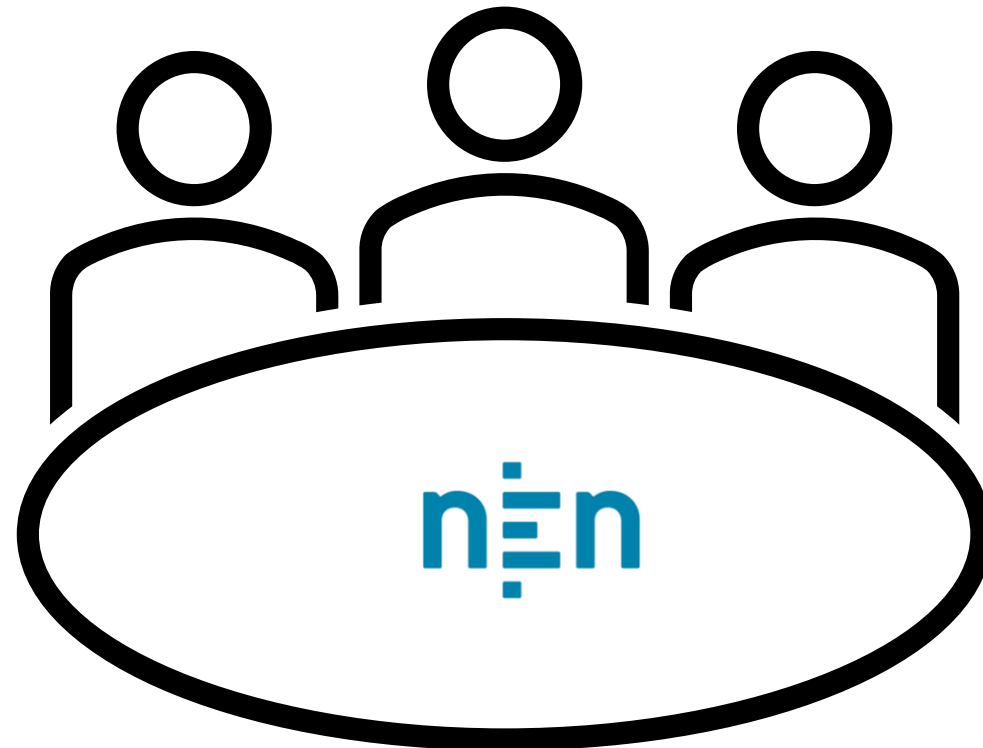
Secretaris *kerncommissie constructieve veiligheid*

Over NEN

- NEN faciliteert zowel het maken als de publicatie van normen en richtlijnen voor en door stakeholders
- Onafhankelijk
- Non-profit
- Bestaat 110 jaar

NEN is zowel het:

- product (norm, NEN [nummer:jaar])
- organisatie



3 principes normontwikkeling

1



Alle betrokken partijen

2



Consensus

3



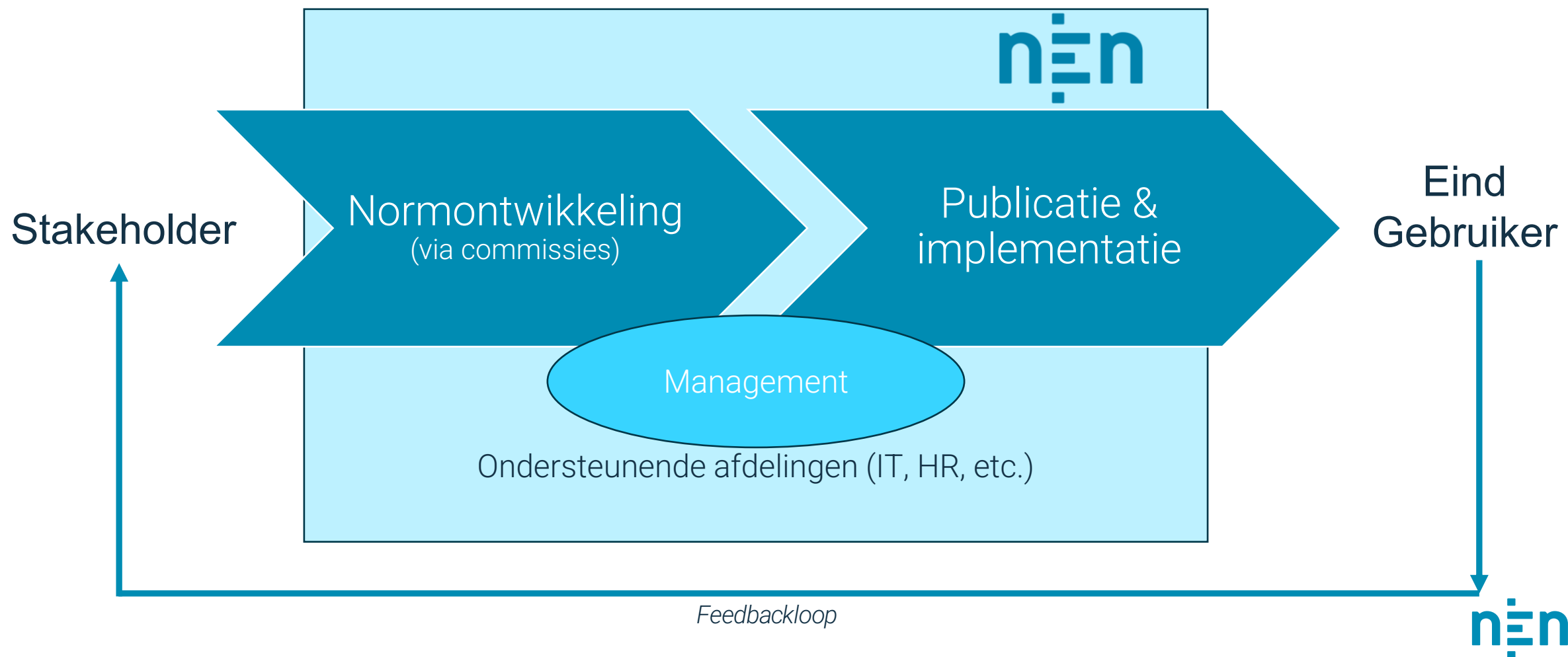
Transparantie

Over NEN

Voordelen en redenen voor (nieuwe) normen

- Breed gedragen
- Impact
- (Internationale) handel
- Verificatie van adequaatheid
- Feedback
- Nieuwe maatschappelijke behoeften
- Onderzoek naar toepassing

Over NEN organisatie (bureau)



Over NEN

Gebruik van een norm is vrijwillig, tenzij:

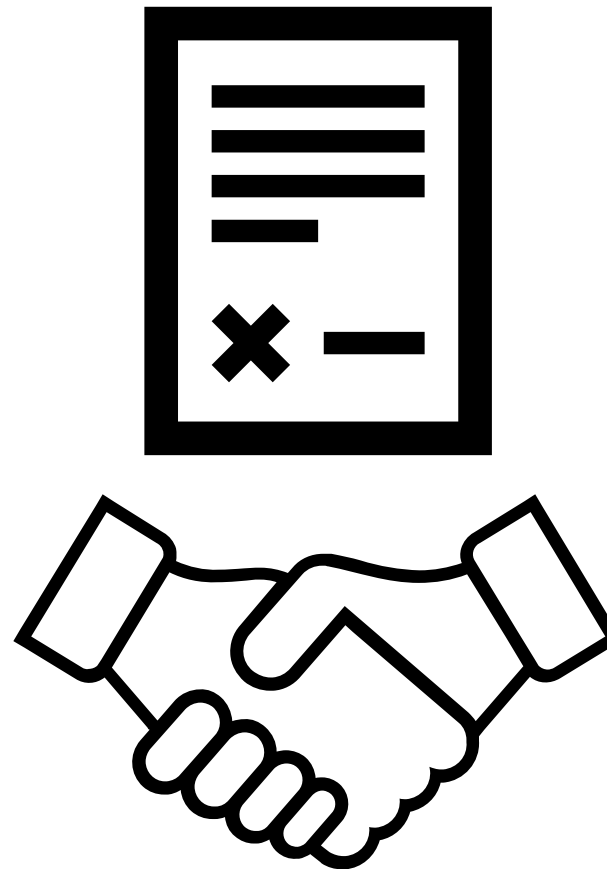
- de norm onderdeel is van een contract;
- gebruik volgt uit wettelijke verplichtingen *

Alle door CEN en CENELEC gepubliceerde normen zijn automatisch Nederlandse NEN normen. NEN trekt tegenstrijdige normen in.

EN 1990-1+A1 → NEN-EN 1990-1+A1

* De in de Nederlandse wet aangewezen bouwnormen zijn vrij toegankelijk:

<https://www.nen.nl/bbl-normen-vrij-toegankelijk>



Over NEN

NEN is lid van CEN samen met:

- de National Standardization Bodies (NSBs) van de 27 landen van de EU,
- Verenigd Koninkrijk
- Republiek van Noord Macedonië, Servië en Turkije
- IJsland, Noorwegen and Switzerland (European Free Trade Association).



■ Members

■ Affiliates

make war not only unthinkable but materially impossible

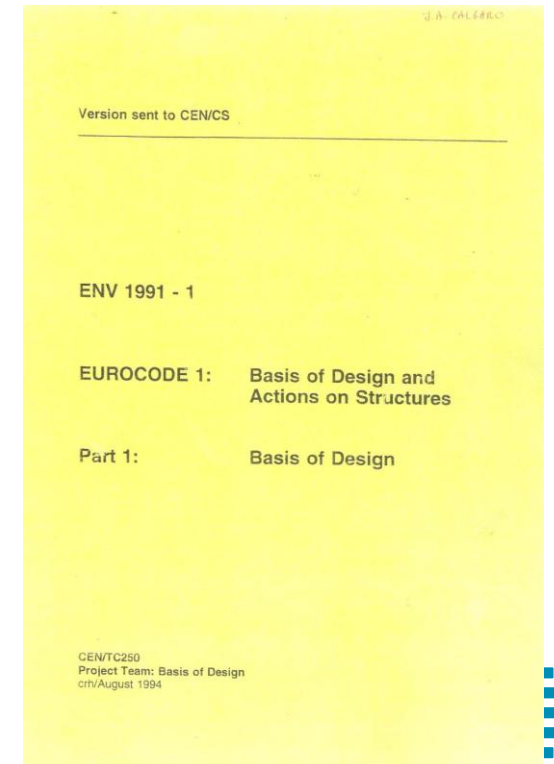
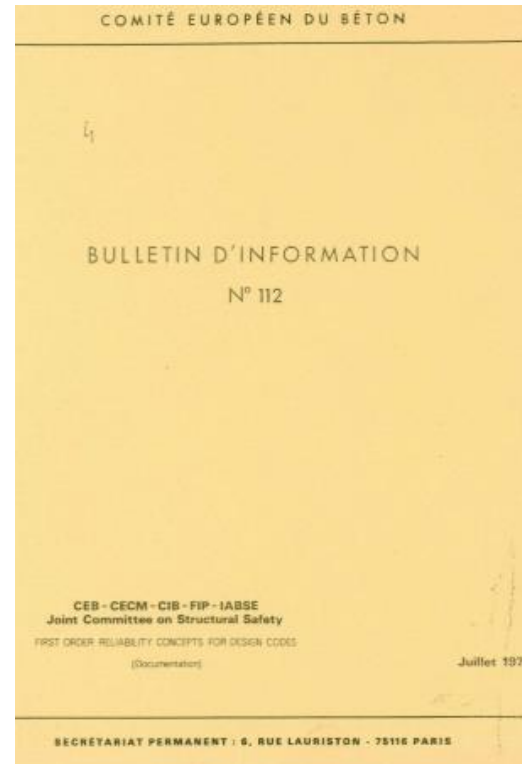
1951: Europese Gemeenschap voor Kolen en Staal (doel: uitwisselen goederen en diensten)

1976: Oprichting Steering Committee Eurocodes

1989: Eurocodes overgedragen aan CEN

1994: Publicatie ENV Eurocodes

2012: Gebruik in Nederland



Herziening Eurocodes naar 2^e generatie

Doelstellingen:

- Verbeterd gebruiksgemak
- Vermindering van NDPs
- Actualisatie technische inzichten
- Opname nieuwe kennis en technologie
- Adresseren van behoeften van eindgebruikers (CEN Systematic Review)

Herziening Eurocodes naar 2^e generatie

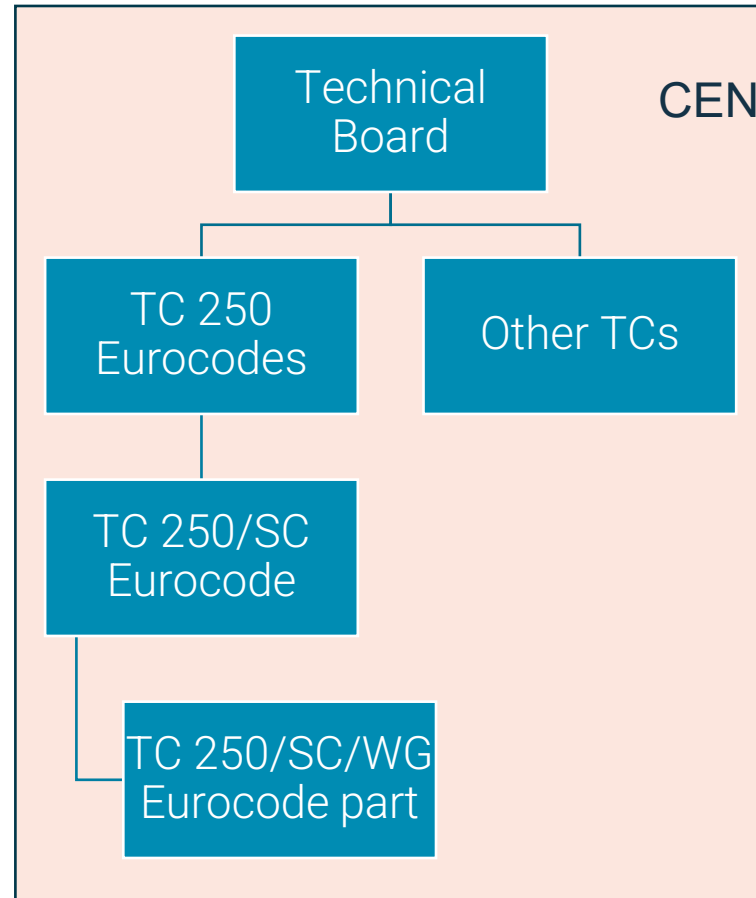
Toevoeging nieuwe ontwikkelingen, zoals:

- Grote overspanningen (bruggen) in aluminium
- Nieuwe soorten hoge sterkte staal
- Nieuwe wapenings- en toeslagmaterialen beton
- Nieuwe geotechnische constructies
- Constructief glas (EN 19100-serie)
- FRP (EN 19101-serie)

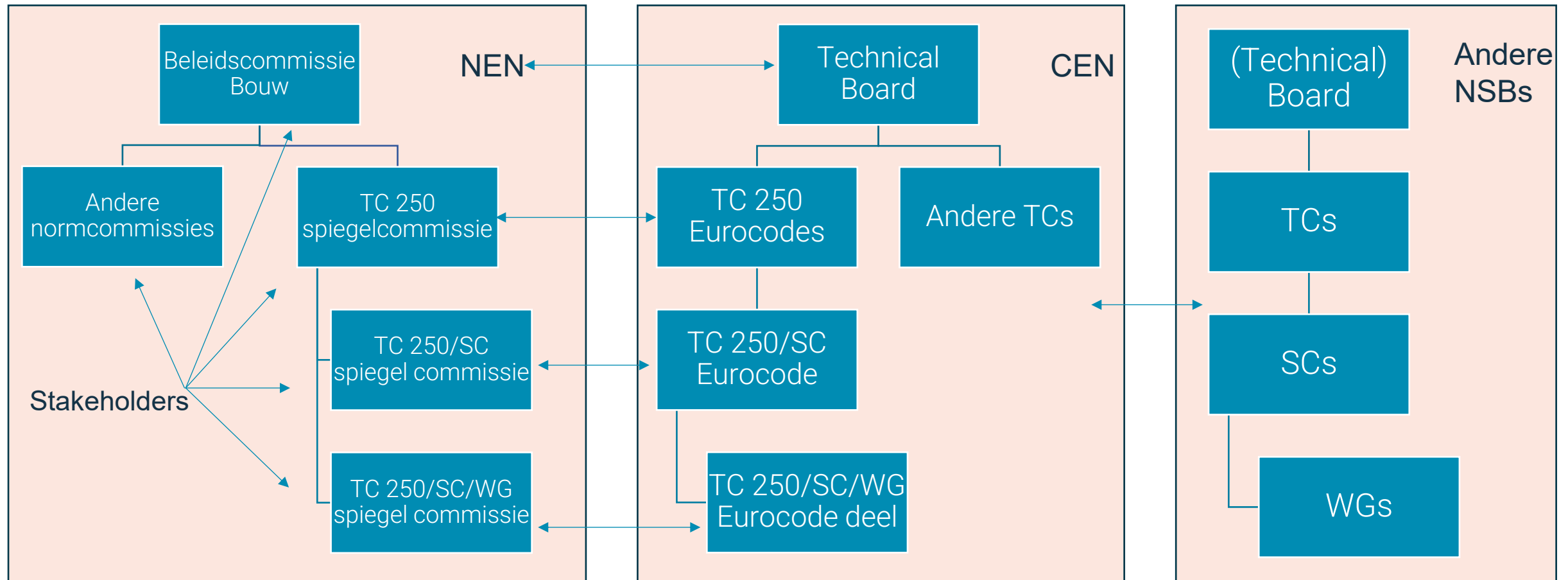
Voor wie?

CATEGORIES OF EUROCODES' USERS	CEN/TC 250 STATEMENTS OF INTENT
Practitioners – Competent engineers [Primary target audience]	We will aim to produce Standards that are suitable and clear for all common design cases without demanding disproportionate levels of effort to apply them
Practitioners – Graduates	We will aim to produce Eurocodes that can be used by Graduates where necessary supplemented by suitable guidance documents and textbooks and under the supervision of an experienced practitioner when appropriate
Expert specialists	We will aim not to restrict innovation by providing freedom to experts to apply their specialist knowledge and expertise
Product Manufacturers	Working with other CEN/TCs we will aim to eliminate incompatibilities or ambiguities between the Eurocodes and Product Standards
Software developers	We will aim to provide unambiguous and complete design procedures. Accompanying formulae will be provided for charts and tables where possible
Educators	We will aim to use consistent underlying technical principles irrespective of the intended use of a structure (e.g. bridge, building, etc.) and that facilitate the linkage between physical behaviour and design rules
National regulator	We will endeavour to produce standards that can be referenced or quoted by National Regulations
Private sectors businesses	We will continue to promote technical harmonization across European markets in order to reduce barriers to trade
Clients	We will produce Eurocodes that enable the design of safe, serviceable, robust and durable structures, aiming to promoting cost effectiveness throughout their whole life cycle, including design, construction and maintenance
Other CEN/TCs	We will engage proactively to promote effective collaboration with those other CEN/TCs that have shared interests

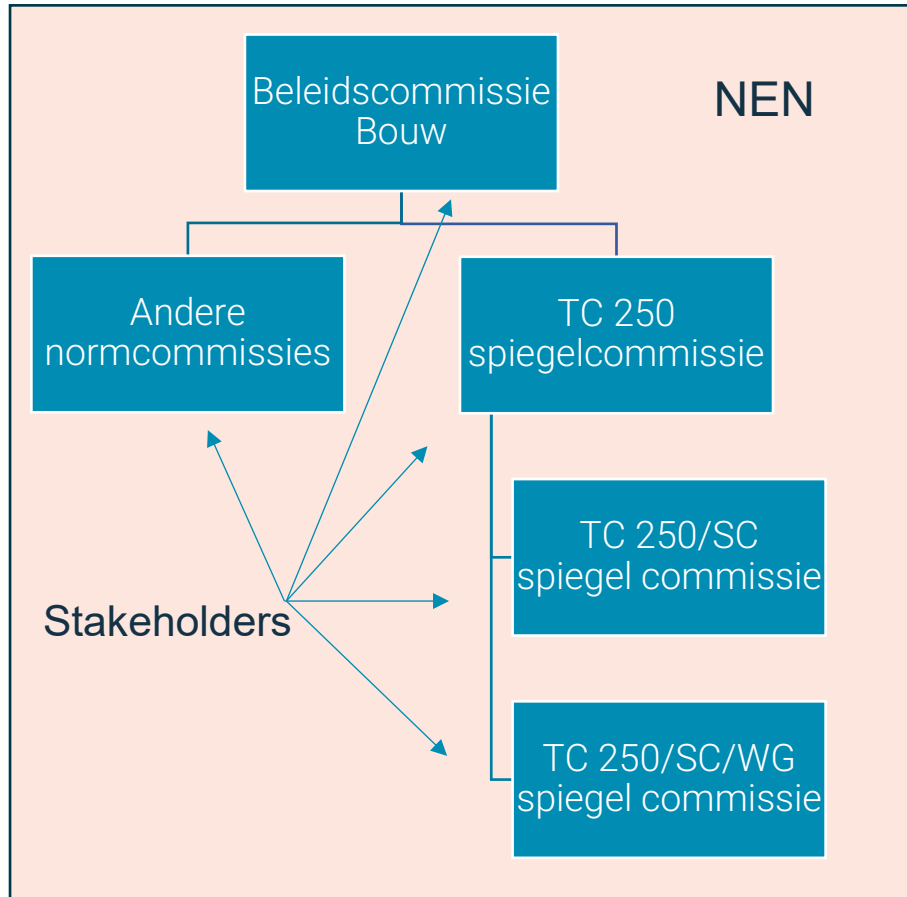
Organogram



Relatie



Stakeholders



Mogelijke Nationale Stakeholders voor Eurocodes:

Constructeurs

Universiteiten, laboratoria (specifieke expertise), overig onderwijs

Wegenbeheerders en spoorwegen

Bouwwerkeigenaren, ontwikkelaars en andere klanten

Aannemerij

Fabrikanten van bouwproducten

Bevoegd gezag

...

Decision CEN Technical Board C36/2014

Subject: Structural and geotechnical design rules: CEN/TC 250 'Structural Eurocodes' and other CEN/TCs

BT

Noting - [...]

- the need for coordination and consistency between product TCs and CEN/TC 250 'Structural Eurocodes'

Decides

- to confirm to CEN/TC 250 the overall responsibility for structural and geotechnical design rules for building and civil engineering;
- that CEN/TCs (products, execution) should refer in their standards (when possible) to the relevant Eurocodes parts, when reference to structural and geotechnical design rules are needed;
- that rules relating to structural and geotechnical design should only be included in standards under other CEN/TCs' responsibility following agreement with CEN/TC 250;
- that, in cases where rules relating to structural and geotechnical design have been included in standards by other CEN/TCs, a mode of cooperation should be established with CEN/TC 250 to transpose design rules to the relevant Eurocode part where agreed or, as a minimum, eliminate any incompatibilities or ambiguities,

Invites - [...]

- CEN/TC 250 and other TCs (products, execution) to liaise closely [brief].

Besluitvorming

The Chair shall do everything possible to obtain a **unanimous decision** of the Technical Committee. If unanimity on a subject is not obtainable, the Chair shall try to seek **consensus**. If consensus cannot be achieved despite all efforts and in case of doubt, a decision can be made in the Technical Committee by **majority** of the CEN and/or CENELEC members, whilst duly recording any possible sustained opposition from CEN and/or CENELEC Members and/or participating partner organizations.



RESOLUTION 280 (CEN/TC 250, Helsinki, 18th June 2010)

Subject: CEN/TC 250 – simplification of Eurocodes

CEN/TC 250 acknowledges the challenge established in the Programming Mandate M/466 addressed to CEN in the field of the Structural Eurocodes to examine the potential for simplification of rules in the further development of the Eurocodes. CEN/TC 250 agrees to work towards achieving such simplification in the further development of the Eurocodes to support the ease of their use by designers through:

- (i) improving the clarity;*
- (ii) simplifying routes through the Eurocodes;*
- (iii) limiting, where possible, the inclusion of alternative application rules;*
- (iv) avoiding or removing rules of little practical use in design;*

CEN/TC 250 agrees that such simplification should be limited to the extent that it is technically justified and should seek to avoid additional and/or empirical rules for particular structure or structural-element types.

The resolution was agreed by unanimity.

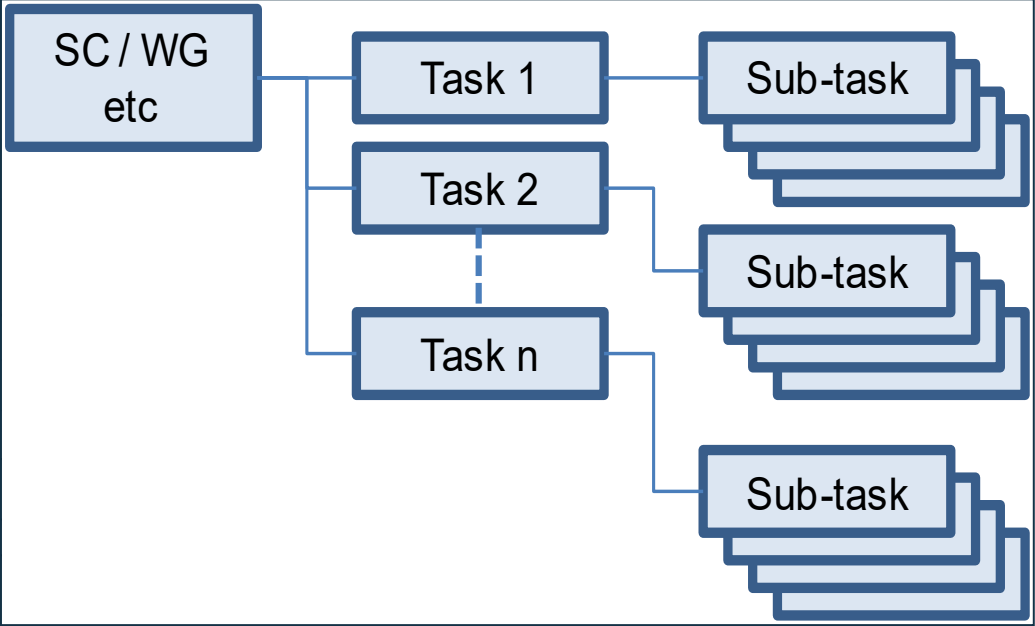


TCEN1990		Response to Mandate M/515 EN: Structural Eurocodes				
Task Ref:	TCEN1990.T1	Task Name:	Evolution of EN1990 – General			
Proposed Task Phase:	P1	Deliverable:	A new version of EN 1990 with an increased scope reflecting needs identified by National Standard Bodies and the other Eurocodes, together with background information for all changes and new material, excluding new version of Annex A2 for bridges and new Annex Es relating to bearings and expansion joints.			
Outline Task Scope:	Revision of EN 1990 to incorporate comments from the EN 1990, 5 year review and requirements from other Eurocodes for principle guidance on fatigue, non-linear analysis etc with the Specific Mandate Section 5 from Mandate for amending existing Eurocodes and extending the scope of structural Eurocodes (Document Doc.28/2012 – EN, Brussels, 13th July 2012). Scope does not include specific work relating to Bridges which is included in Task TCEN1990.T2.					
Starting documents:	EN 1990: Basis of Structural Design					
Justification for inclusion in Phase 1:	EN 1990 is the head Eurocode, setting the rules for achieving safety, serviceability, robustness and durability as well as Reliability and Quality Management for the other 57 parts of the Structural Eurocode suite and CEN structural product standards. It is the cornerstone for all other Structural Eurocodes and serves as a template for the development of new parts as well as revision of existing standards. The items identified by the CEN/TC250/Expert Group for the revision of EN 1990 described in this proposal have been developed collaboratively with a representative cross section of stakeholders and need to be given priority. The selected tasks will further support and strengthen harmonisation, the development of an EU Internal Market in the design and construction sector. The work takes into account market and research developments in materials, products, construction techniques and design methods in the sector. It also reflects new societal needs and demands as linked to structural design of buildings and other construction works. Therefore EN 1990 as the head code needs to be updated at the earliest convenience so as to form a basis for the work of the other sub-committees. As full a draft as possible must be made available at end of Phase 1.					

Sub-task Ref.	Sub-task name	Brief description, background and reasons for the work (including any additional comments / notes)	Interdependencies Identify known Task (sub-tasks) that must be substantially completed before this sub-task can commence. (Interdependencies within individual Tasks do not need to be identified)	Key benefits	Output (e.g. new Eurocode part; new or modified clauses in existing Eurocode part)	Priority item for EC contract
1	Reduction in number of National Choices (NDPs)	Review the contents of all Countries' National Annexes and supporting documents, where they provide information needed to implement the Eurocode Part. Compare the values or choices made by all Countries in their relevant National Annex, using if possible, the JRC database of collected National values and choices. Where little or no variation exists between Countries, eliminate the NDP; where there is good consensus, but not unanimity, seek to persuade those not using that value or choice to adopt it. In cases of wide variation between Countries, seek the reasons for them and try to eliminate them so that consensus can be achieved, for example by use of international studies and research.				✓
2	Enhanced ease of use	Enhance ease of use by improving clarity, simplifying routes through the Eurocode, avoiding or removing rules of little practical use in design and avoiding additional and/or empirical rules for particular structure or structural-element types, all to the extent that it can be technically justified whilst safeguarding the core of essential technical requirements. Take into account feedback from users of the Eurocode.				
3	Transfer of Basis of Design rules from EN 1991-1-6, EN 1991-3, EN 1991-4, EN 1993-3-1, EN 1993-3-2 and EN 1991-7.	There are a number of Basis of Design clauses at present included in EN 1991, such as EN 1991-1-6, EN 1991-3 and EN 1991-4, and EN 1993-3-1 and EN 1993-3-2 on Towers and Masts and EN 1991-1-7. These parts, including γ factors will be moved to EN 1990, to guarantee consistency with general rules and harmonisation. (N.B. as this is a maintenance activity no resources have been allowed for it).	All work to provide information completed	All Basis of Design information will be in EN 1990 thus avoiding mixed responsibilities that can lead to inconsistency.	New Annexes A3, A4 and A5 in EN 1990.	
4	Evolution of management of structural reliability of construction works (Annex B)	Adapt EN 1990 by establishing and implementing control procedures for design and execution in agreement with the principles of the standard, on a national level recognizing differences between the various countries. Making Annex B of EN 1990 more comprehensive by increasing its scope to construction works with higher consequences of failure than Consequence Class 3 and recognizing complexity of design. Improving alignment with Execution Standards (EN 1090 and EN 13670) and appropriate material Eurocodes.	EN 1990 as the head code needs to be updated first so as to form a basis for the work on reliability differentiation of the other SCs and WGs and CEN Committees developing Execution Standards	The evolution of Annex B, which is expected to be kept informative, will assist NSBs in helping ensure that the assumptions in the Eurocodes relating to quality management during design and execution are fulfilled and thus leading to increased levels of safety. EN 1990 as the Head code will ensure alignment with related annexes in material parts together with consistent approach.	Revised Annex B and revisions to Section 2.	
5	Robustness	Review and update as necessary the requirements for Robustness in Section 2 of EN 1990 in the light of recent published cost action (COST Action TU0601, 2011) report. It is expected that work will also include moving some information from EN 1991-1-7 to EN 1990 and further developing these rules. This will be in liaison with WG6: Robustness.	In liaison with WG6: Robustness	Ensure that the requirements for robustness reflect the latest state of the art.	Updated Section 2 of EN 1990. Based on the recommendations of WG6 the inclusion of new clauses into EN 1990, based on content currently included in other Eurocodes.	
6	Sustainability	Update EN 1990 to include aspects of sustainability relevant to the scope of the Eurocodes, responding to the relevant requirements for Sustainability developed by e.g. TC 350. At the present time any amendment will be Section 2 Requirements.	EN 1990 as the head code needs to be updated first so as to form a basis for the work of the other SCs and WGs.	EN 1990 will address the new Requirement the "Sustainable use of natural resources" in particular as it addresses durability in the CPR.	New and modified clauses in EN 1990.	

SC / WG
etc

File name: EN1990 Template 3 draft 4.0		Draft/Final version of: 26/04/2013		TC EN 1
File name: EN1990 Template 3 draft 4.0		Draft/Final version of: 26/04/2013		
File name: EN1990 Template 3 draft 4.0		Draft/Final version of: 26/04/2013		



75 taken met gedetailleerde sub-taken

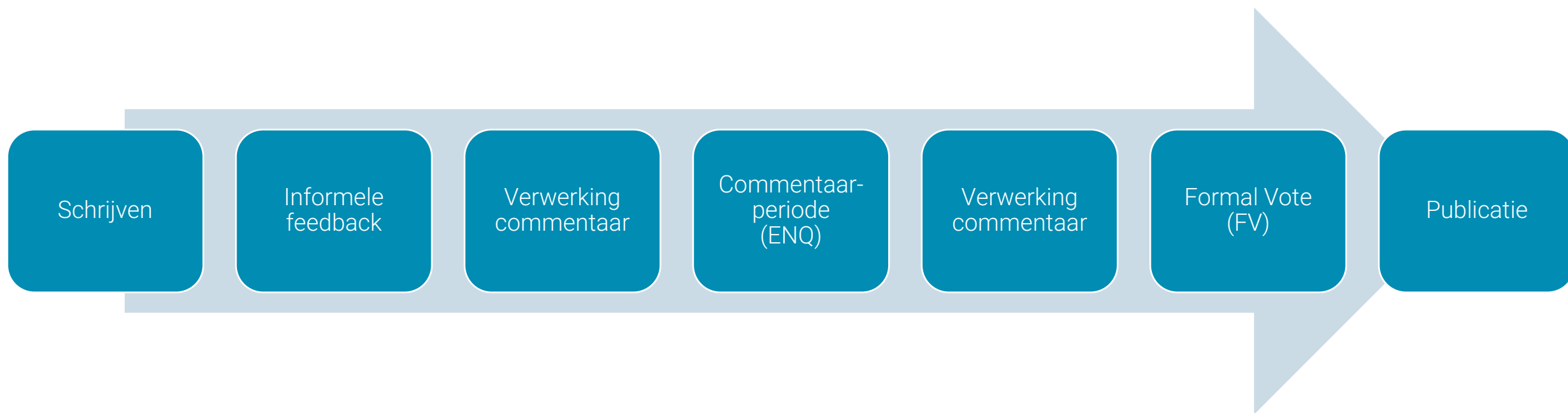
10.3. Six tests for good drafting of Eurocode clauses

- (1) The six tests indicated in Figure 1 should be considered in drafting Eurocode clauses.
- (2) In applying these tests, the context within which the clause will be read should be taken into account. They should also be applied considering the target audience for the Eurocodes, namely, 'Practitioners – Competent Engineers', defined as 'Competent civil, structural and geotechnical engineers, typically qualified Professionals able to work independently in relevant fields'.

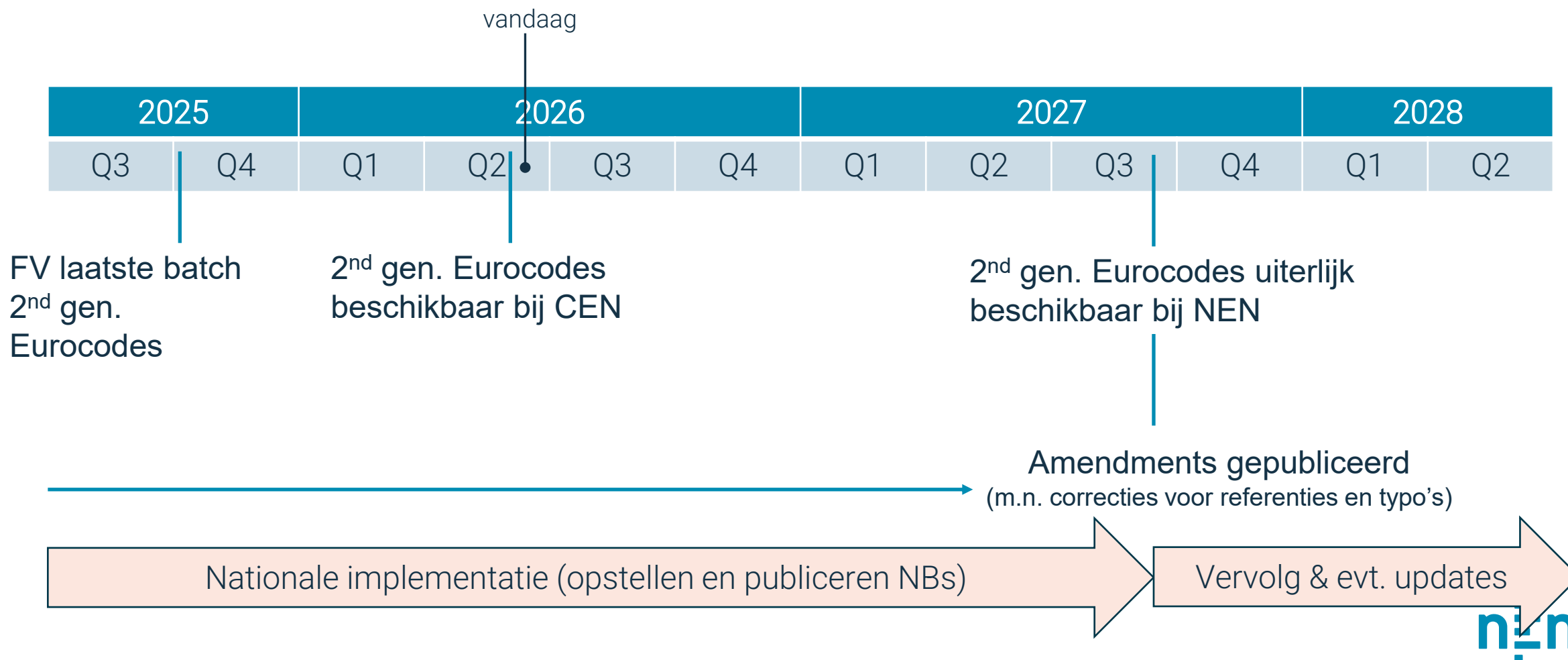
Test 1: Is the clause understandable?	Test 2: Will the user understand what needs to be done to satisfy the clause?	Test 3: Are the acceptance criteria clear?
Test 4: Is the scope of application of the clause clear?	Test 5: Is the clause univocal?	Test 6: Is the clause in the right place and easy to find?

Figure 1 Six tests for good drafting of Eurocode clauses

Stappen



Planning



Werkprogramma - resultaten

129 Subcommissies,
werkgroepen en
taakgroepen

75 Internationale
project teams van ca.
5 personen

Duizenden experts uit
heel Europa
betrokken

Tienduizenden
verbetersuggesties
doorgevoerd

2e Generatie
Eurocodes zijn
beschikbaar voor
normalisatie
instituten

98 % van 570
CEN/TC 250
besluiten met
unanimiteit genomen

Grote consensus,
slecht 0,3 %
negatieve stemmen
op Formal Votes

30 % like-for-like
reductie in NDPs

13 % like-for-like
vermindering van het
aantal Engelstalige
pagina's

Eurocodes – toekomst (?)

- Early amendments (gereed sep. 2027)
- Numerical methods (o.a. bijlage in EN 1990-1 en CEN/TR, in ontwikkeling)
- Assessment of existing structures (EN 1990-2 en in materiaaldelen)
- Re-use of structural elements
- ...?

Commission Recommendation of 11 December 2003 on the implementation and use of Eurocodes for construction works and structural construction products (notified under document number C(2003) 4639)

Whereas:

[...]

(8) Member States should adopt Eurocodes for structural products and construction works and recognise that the use of those Eurocodes raises a presumption of conformity with the essential requirements referred to in Directive 89/106/EEC.

(9) In order to take into account **specific geographical, geological or climatic conditions** as well as **specific levels of protection** applicable in their territory, Member States may need specific parameters and the Eurocodes therefore contain "**nationally determined parameters**". For each nationally determined parameter, the Eurocodes give a recommended value. However, Member States may choose a different specific value as the nationally determined parameter, if they consider it necessary in order to ensure that building and civil engineering works are designed and executed in a way that does not endanger the safety of persons, domestic animals or property.

[...]



Implementeren van de Eurocodes

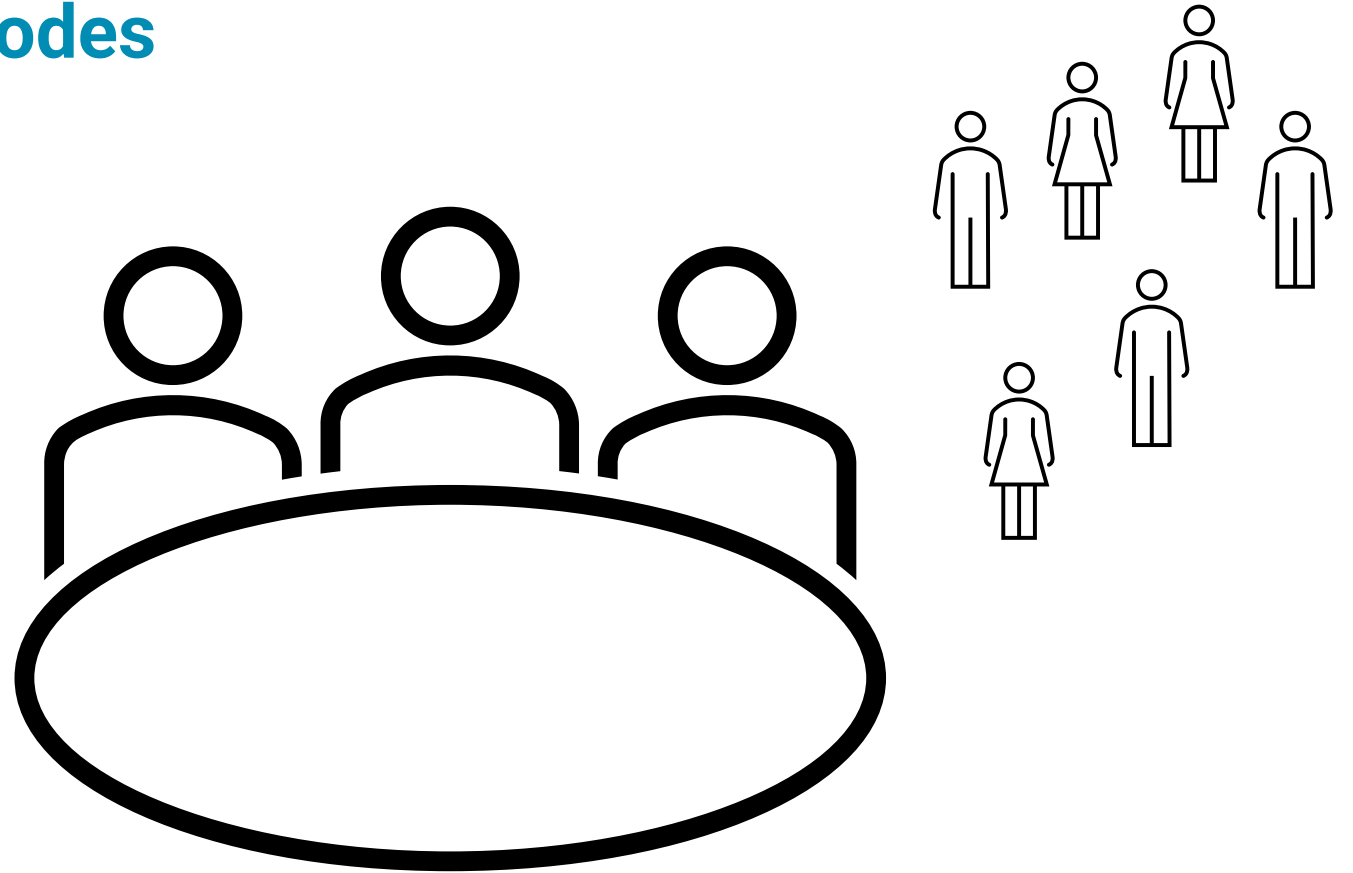
Publicatie van de serie

Vertalen (optioneel)

Nationale bijlagen (optioneel)

Gebruiken van de normen

Met stakeholders



NDP's – De achtergrond

Europese lidstaten zijn zelf verantwoordelijk voor de wettelijke (minimum) eisen aan bouwwerken:

- Veiligheidsniveaus;
- Duurzaamheid (durability & sustainability);
- Energieprestatie;
- Etc.



Verpflicht?

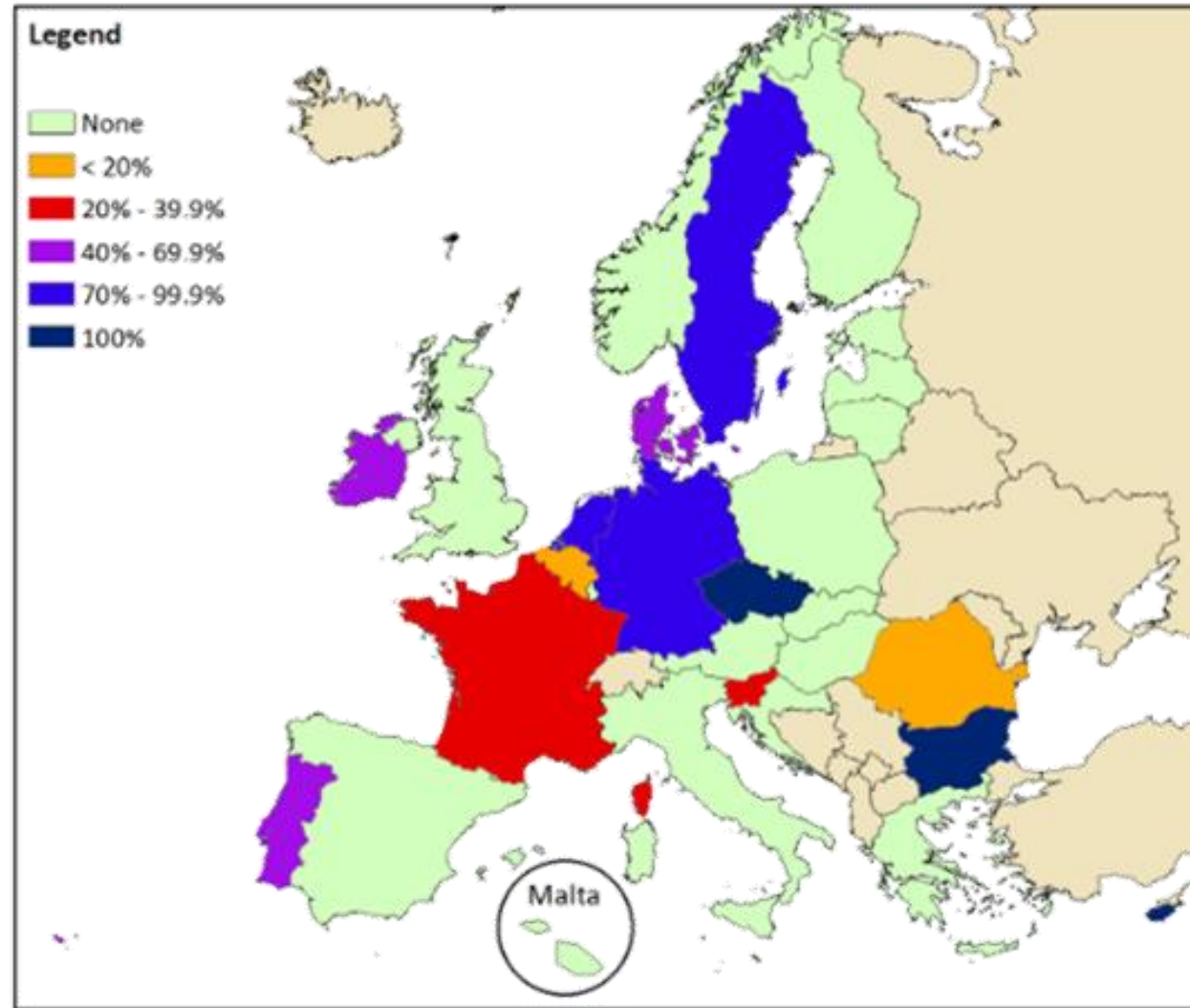
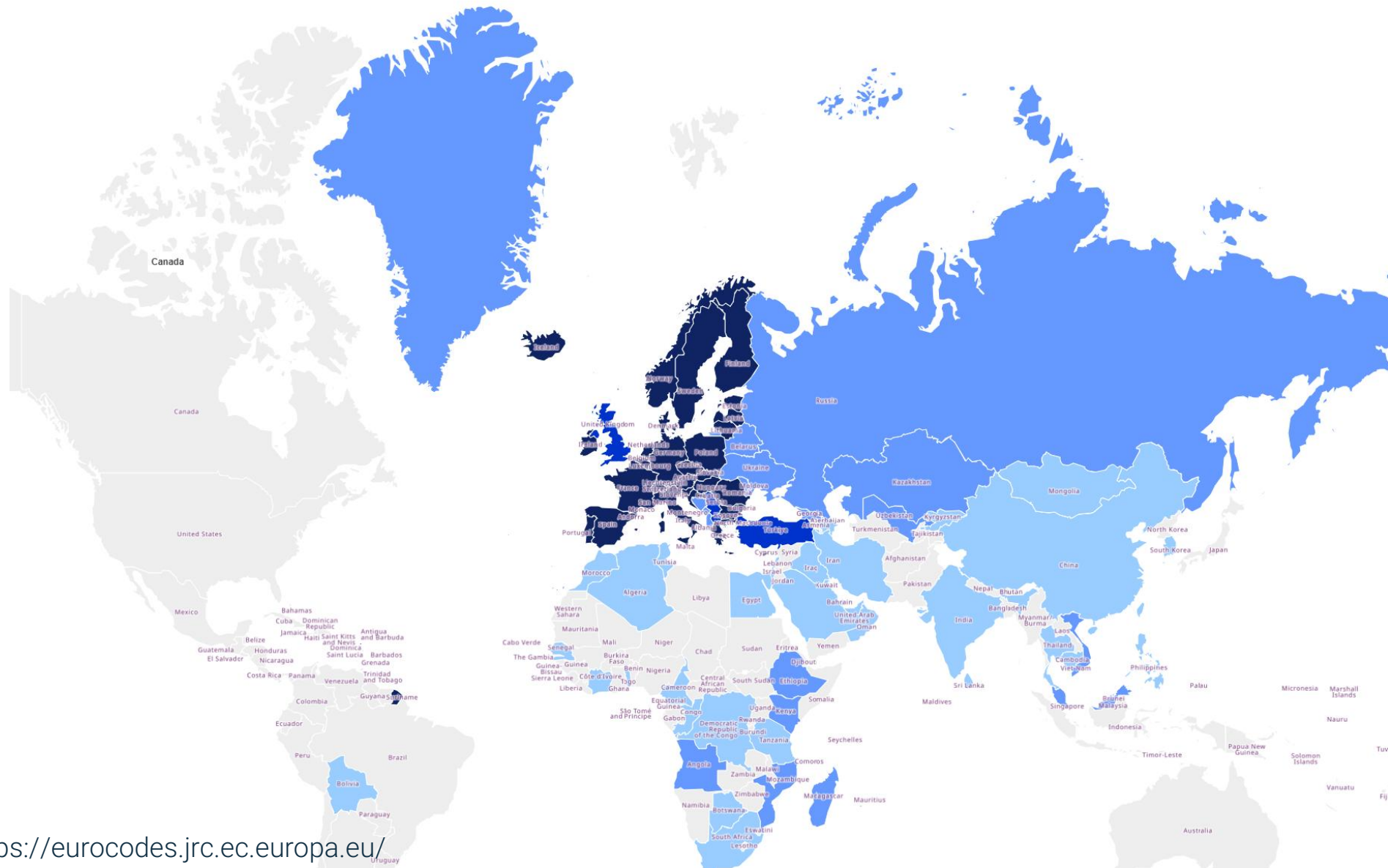


Figure 3.9. Rate of obligatory Eurocodes Parts as percentage of all Parts

Bron JRC - Status 2015.

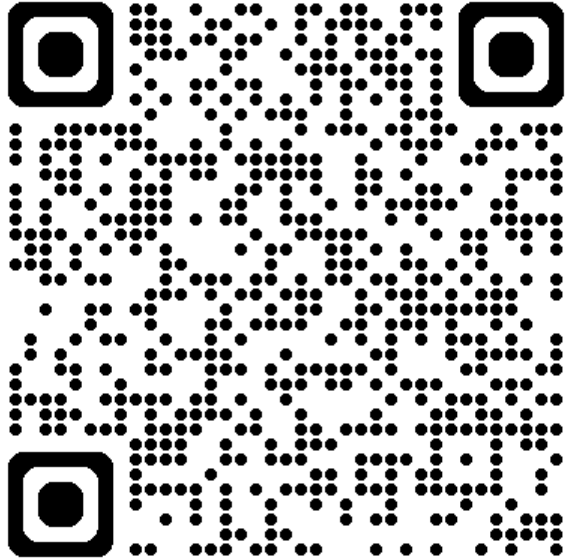
https://eurocodes.jrc.ec.europa.eu/sites/default/files/2021-12/JRC97893_State_of_Eurocodes_implementation_version_online.pdf

Gebruik wereldwijd



Bron JRC <https://eurocodes.jrc.ec.europa.eu/>

Speciaal voor u



www.nen.nl/eurocodes
eurocodes@nen.nl



[www.nen.nl/e-learning-
eurocodes-constructeurs](http://www.nen.nl/e-learning-eurocodes-constructeurs)



**De waarde
van normen**



> Planning publicatie Eurocodes

- Eurocode-delen 2^e generatie - Engels
Inmiddels vrijwel allemaal gepubliceerd door NEN
- Eurocode-delen 2^e generatie – Nederlandse vertaling
Verwacht: Q3 – Q4 2026
- Nationale Bijlagen 2^e generatie
Verwacht normontwerp: Q4 2026 - Q2 2027
Verwacht definitieve Nationale Bijlage: Q2 2027 - Q3 2027

> Planning wettelijke aanwijzing

Brief minister van VRO, Nadere uitwerking van de beleidsagenda bouwregelgeving, 22 mei 2026

“Tweede generatie Eurocodes

Voor de eisen voor constructieve veiligheid van bouwwerken maakt het Bbl gebruik van de Europese constructienormen, de zogenaamde Eurocodes die stammen uit de jaren 90. [.....]. De nieuwe Eurocodes en Nationale bijlagen treden in Nederland naar verwachting op 1 januari 2029 in werking”.

https://www.tweedekamer.nl/kamerstukken/brieven_regering/detail?id=2026Z10787&did=2026D24452

CEN/TC 250
'Structural Eurocodes'

Beleidscommissie
'Bouw'

Kerncommissie

Normcommissie
'Technische Grondslagen
Bouwconstructies (TGB) Plenair'

Stuurgroep
Vertalingen

Vertaalcommissie

**NEN-bureau
Projectmanagement Eurocodes:**

- Bewaken planning en financiën
- Acties m.b.t. consistentie
- Afstemming ministeries VRO en IenW
- Verstrekken opdrachten inhuur derden
- Afstemming NBN over vertalingen

Normsubcommissie
'Basiseisen en belastingen'

Normsubcommissie
'Betonconstructies'

Normsubcommissie
'Staalconstructies'

Etc.

Normcommissie
'Glas voor bouwwerken'

Normcommissie
'Geotechniek'

Werkgroep
Nationale
Bijlage X¹

Werkgroep
Nationale
Bijlage X¹

Werkgroep
Nationale
Bijlage X¹

Werkgroep
Nationale
Bijlage
'Beton'

Werkgroep
Nationale
Bijlage
'Staalbeton'

Werkgroep
Nationale
Bijlage
'Staal'

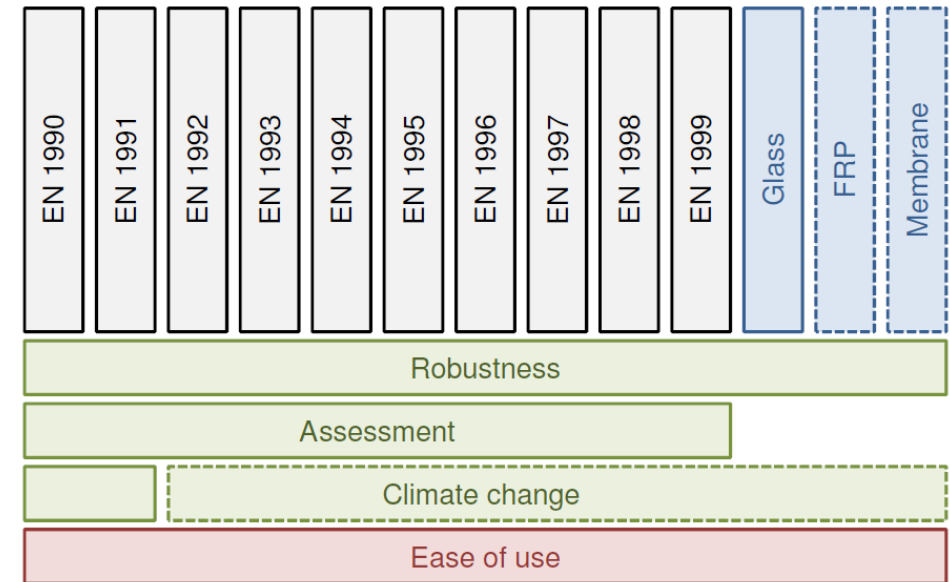
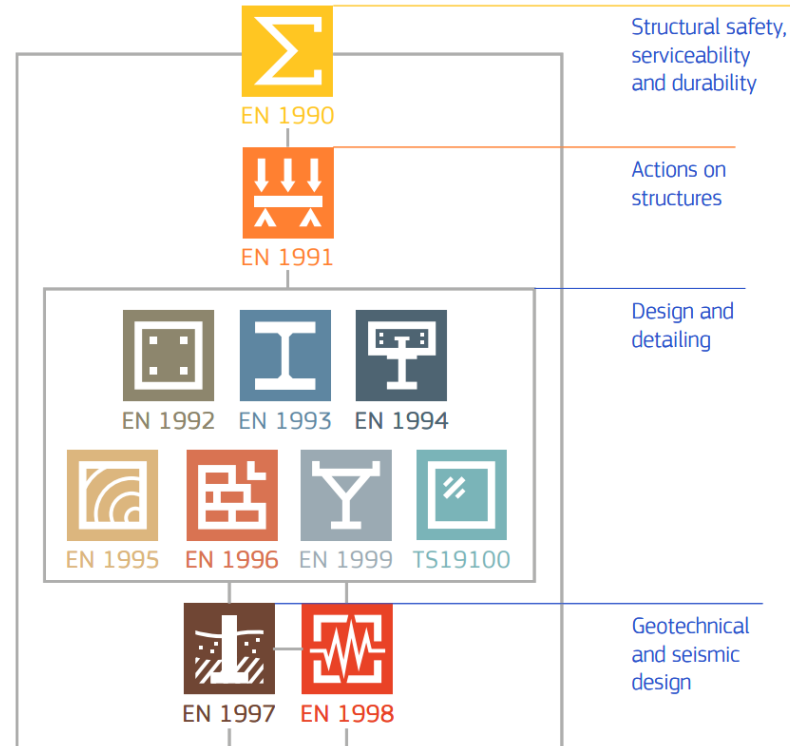
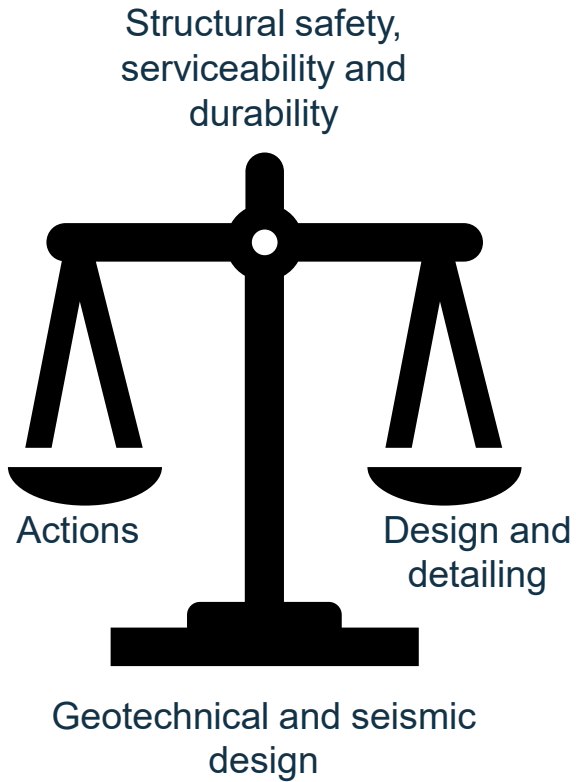
Werkgroep
Nationale
Bijlage
'Aluminium'

Werkgroep
Nationale
Bijlagen
'Glas'

Werkgroep
Nationale
Bijlage
'Geotechniek'

¹ Indeling werkgroepen nader te bepalen

What are the Eurocodes?



Acknowledgement

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Source: <https://eurocodes.jrc.ec.europa.eu/resources/eurocodes-visuals>