



Ministerie van Volkshuisvesting en
Ruimtelijke Ordening

MPG en Europese ontwikkelingen op het gebied van Milieubewust Bouwen

Symposium NMD

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Afdeling Bouwen en Energie

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MPG en Europese ontwikkelingen op het gebied van Milieubewust Bouwen



1. Nationaal -> MPG (Gebouwen) en MKI (GWW-sector)
2. EU Regulatory Framework
3. Duurzaamheid in herziene CPR
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5. Inwerkingtreding herziene CPR
6. EPBD-IV en Whole Life Carbon berekening (WLC)
7. Overeenkomsten en verschillen MPG en WLC
8. Tijdlijnen EPD's nationaal versus Europees



Instrumenten voor verduurzaming in de bouw

1. Nationaal -> MPG (Gebouwen) en MKI (GWW-sector)

LCA - methodiek



19 milieu-indicatoren

Milieu-impactcategorie	Indicator	Eenheid
Klimaatverandering - totaal	GWP-totaal	kg CO2-eq.
Klimaatverandering - fossiel	GWP-fossiel	kg CO2-eq.
Klimaatverandering - biogeen	GWP-biogeen	kg CO2-eq.
Klimaatverandering - landgebruik en verandering in landgebruik	GWP-luluc	kg CO2-eq.
Ozonlaagaantasting	ODP	kg CFC11-eq.
Verzuring	AP	mol H+-eq.
Vermesting zoetwater	EP-zoetwater	Kg P-eq.
Vermesting zeewater	EP-zeewater	kg N-eq.
Vermesting land	EP-land	mol N-eq.
Smogvorming	POCP	kg NMVOC-eq.
Uitputting van abiotische grondstoffen mineralen en metalen	ADP-mineralen&metalen	kg Sb-eq.
Uitputting van abiotische grondstoffen fossiele brandstoffen	ADP-fossiel	MJ, net cal. val.
Watergebruik	WDP	m3 world eq. deprived
Fijnstof emissie	Ziekte door PM	Ziekte-incidentie
Ioniserende straling	Humane blootstelling	kBq U235-eq.
Ecotoxiciteit (zoetwater)	CTU ecosysteem	CTUe
Humane toxiciteit, carcinogeen	CTU humaan	CTUh
Humane toxiciteit, non-carcinogeen	CTU humaan	CTUh
Landgebruik gerelateerde impact / bodemkwaliteit	Bodemkwaliteitsindex	Dimensieloos

+ weegfactoren t.b.v. 1-puntscore

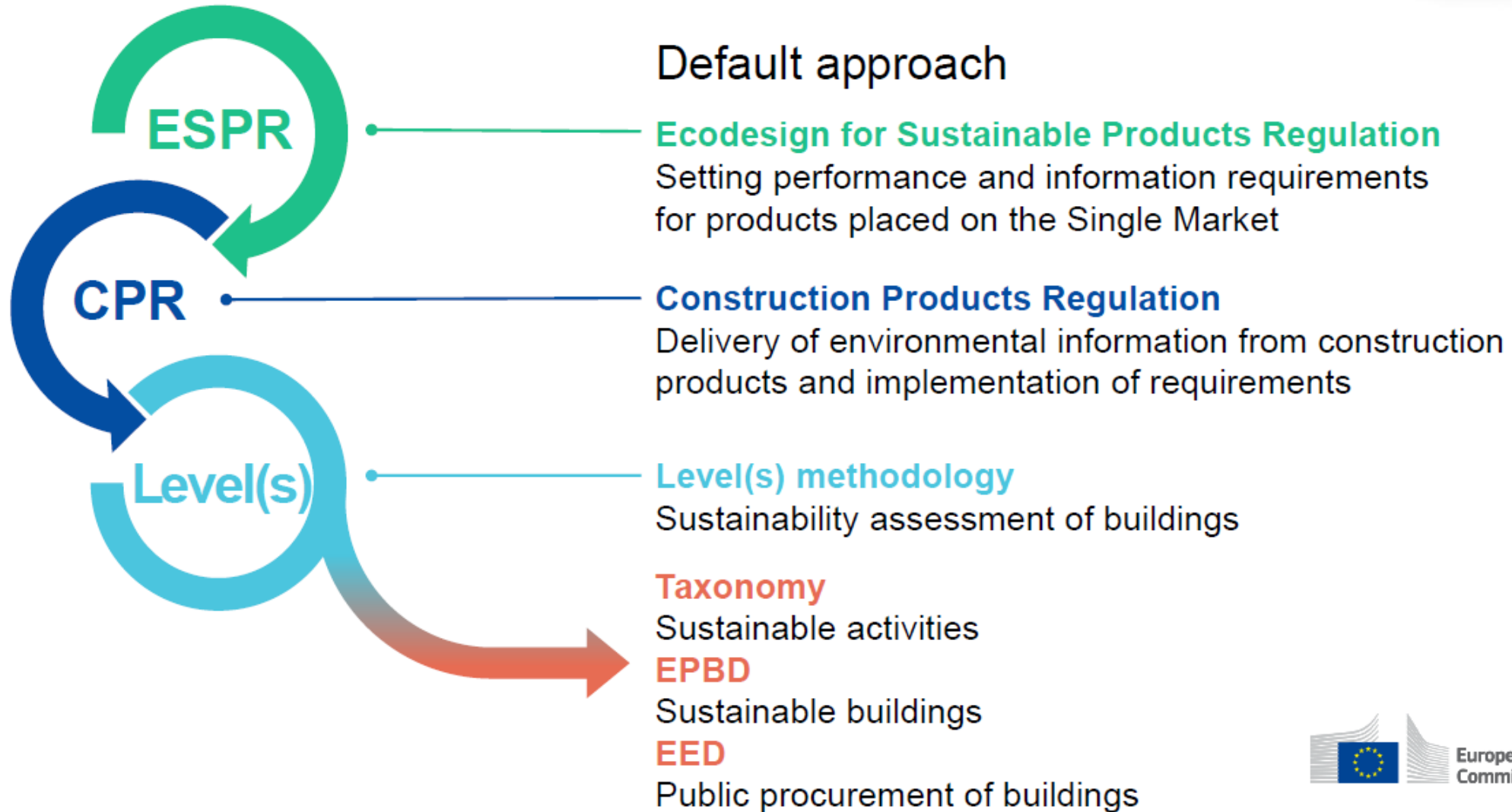
EN15804(+A2)

Bepalingsmethode





2. EU Regulatory Framework





3. Duurzaamheid in herziene CPR

- ✓ Interne markt, doelstelling -> geen handelsbelemmeringen (circa 500 miljard Euro)
- ✓ CE-markering en Prestatieverklaring (DoP) o.b.v. geharmoniseerde testmethoden (hEN's)
- ✓ Informerend, geen producteisen (eisen nationaal op bouwwerk niveau: BBL)
- Annex I -> 8 Fundamentele eisen voor bouwwerken:
 1. Structurele integriteit van bouwwerken
 2. Brandveiligheid van bouwwerken
 3. Bescherming tegen nadelige gevolgen voor de hygiëne en de gezondheid in verband met de bouwwerken
 4. Veiligheid en toegankelijkheid van bouwwerken
 5. Weerstand tegen de doorgang van geluid en akoestische eigenschappen van bouwwerken
 6. Energie-efficiëntie en thermische prestaties van bouwwerken
 7. Emissies in de buitenomgeving van bouwwerken
 8. Duurzaam gebruik van natuurlijke hulpbronnen van bouwwerken (Bijlage II – vooraf bepaalde essentiële milieukenmerken)



4. CPR-Acquis proces

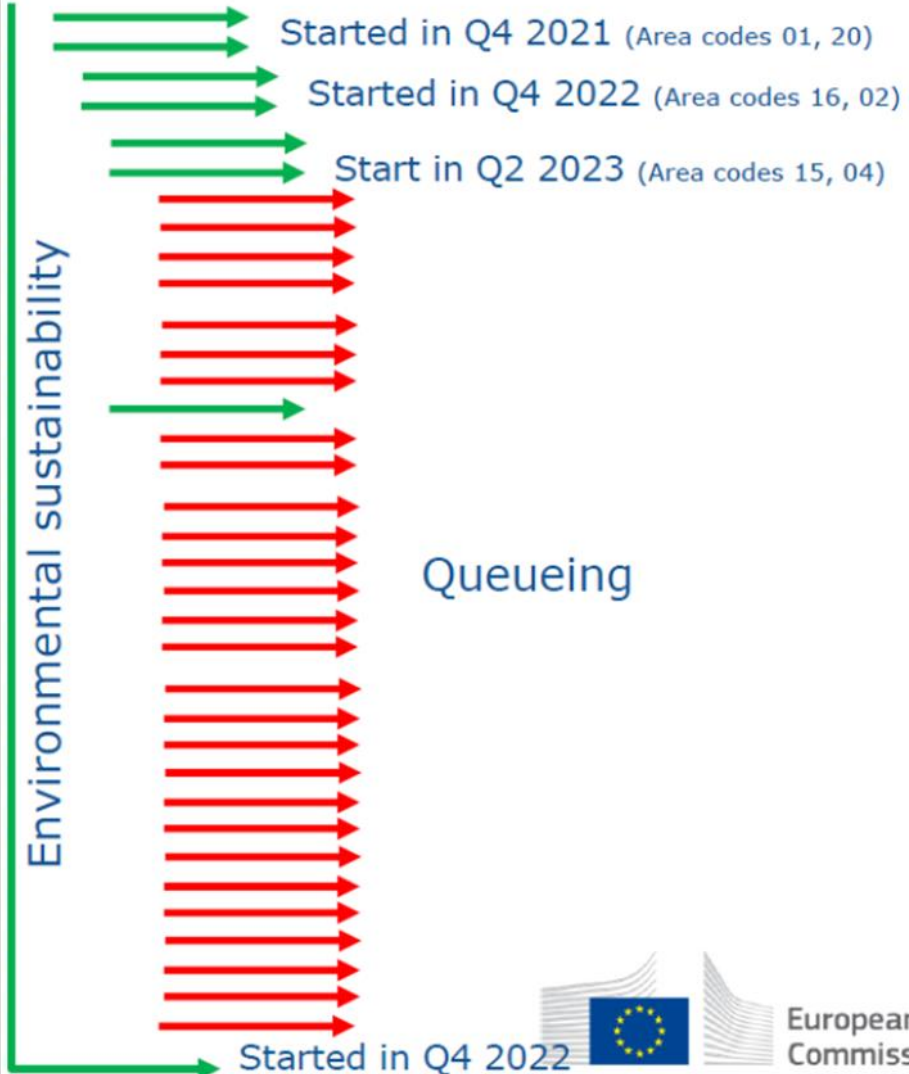


- Opstellen SRQ's door lidstaten onder regie van COM
- 2 jaar voor CEN om tot hEN te komen



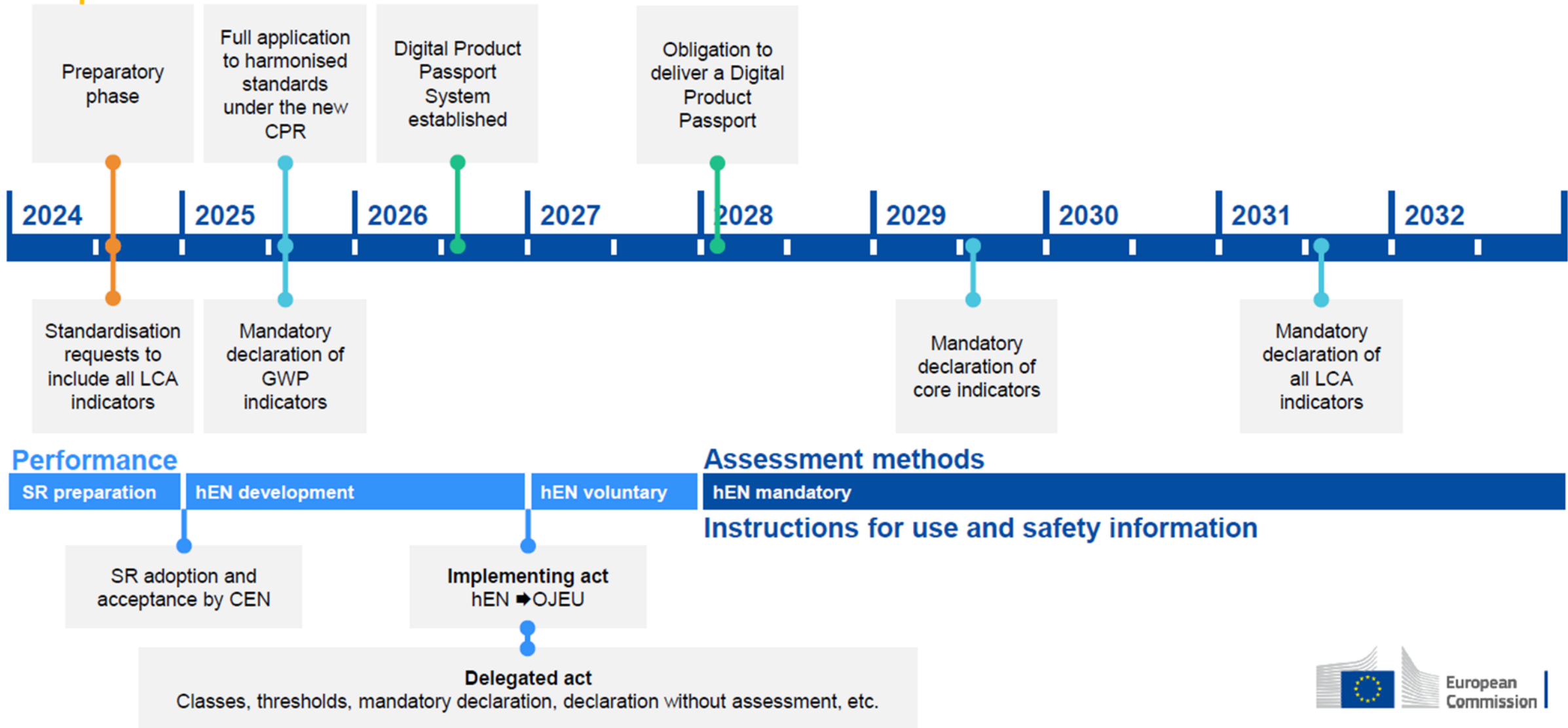
4. CPR-Acquis proces

Rank	Product families	weighted points	share
1	M100 Precast concrete	47.28	6.85%
2	M120 Structural metallic	44.39	6.43%
3	M115 Reinforcing steel	40.67	5.89%
4	M101 Doors, windows	40.41	5.86%
5	M114 Cement	36.78	5.33%
6	M103 Thermal insulating	31.93	4.63%
7	M112 Structural timber	31.71	4.60%
8	M128 Concrete, mortar &	30.95	4.49%
9	M116 Masonry	28.88	4.19%
10	M125 Aggregates	25.88	3.75%
11	M109 Fixed fire fighting	22.61	3.28%
12	M124 Road construction	22.58	3.27%
13	M119 Floorings	22.55	3.27%
14	M489 ETICS	18.43	2.67%
15	M108 Curtain walling	18.10	2.62%
16	M113 Wood based panels	17.81	2.58%
17	M104 Structural bearings	15.99	2.32%
18	Kits and assembled products	15.75	2.28%
19	M121 Wall and ceiling finishes	14.95	2.17%
20	M129 Space heating	14.43	2.09%
21	M122 Roof coverings	13.65	1.98%
22	M111 Circulation fixtures	13.40	1.94%
23	M118 Waste water disposal	12.70	1.84%
24	M127 Adhesive	12.50	1.81%
25	M106 Gypsum	12.01	1.74%
26	Anchors and fasteners	11.77	1.71%
27	M102 Membranes	11.44	1.66%
28	M135 Glass	11.42	1.65%
29	M107 Geotextiles	10.15	1.47%
30	M110 Sanitary appliances	9.41	1.36%
31	M131 Pipes, tanks not in	9.01	1.31%
32	M443 power, control and	8.98	1.30%
33	M105 Chimney	7.55	1.09%
34	M474 Sealants for non-	3.90	0.57%
	TOT points	689.97	





5. Inwerkingtreding herziene CPR





6. EPBD-IV en Whole Life Carbon berekening (WLC)

Several articles in the EPBD recast relates to LC-GWP

Article 7(2)

Member States shall ensure that the life-cycle GWP is calculated in accordance with Annex III and disclosed in the energy performance certificate of the building:

- (a) from 1 January 2028, for all new buildings with a useful floor area larger than 1000 m²;
- (b) from 1 January 2030, for all new buildings.

Article 7(3)

The Commission is empowered to adopt delegated acts in accordance with Article 32 to amend Annex III to set out a Union framework for the national calculation of life-cycle GWP with a view to achieving climate neutrality. The first such delegated act shall be adopted by 31 December 2025.

Annex III (shortened)

For the calculation of the life-cycle GWP of new buildings [...], the total life-cycle GWP is [...] for each life-cycle stage expressed as kgCO₂eq/(m²) (of useful floor area) calculated over a reference study period of 50 years. The data selection, scenario definition and calculations shall be carried out in accordance with EN 15978 (EN 15978:2011 [...]). The scope of building elements and technical equipment is as defined in the Level(s) common EU framework for indicator 1.2. Where a national calculation tool or method exists, [...], that tool or method may be used to provide the required disclosure. Other calculation tools or methods may be used if they fulfil the minimum criteria established by the Level(s) common EU framework. Data regarding specific construction products calculated in accordance with Regulation (EU) No 305/2011 [...] shall be used when available.

Part I on LCGWP
methodology

Article 7(5)

By 1 January 2027 Member States shall publish and notify to the Commission a roadmap detailing the introduction of limit values on the total cumulative life-cycle GWP of all new buildings and set targets for new buildings from 2030, considering a progressive downward trend, as well as maximum limit values, detailed for different climatic zones and building typologies. Those maximum limit values shall be in line with the Union's objective of achieving climate neutrality. The Commission shall issue guidance, share evidence on existing national policies and offer technical support to Member States, at their request.

Part II on
roadmap



6. EPBD-IV en Whole Life Carbon berekening (WLC)



Concept level	User and Regulatory Requirements				
	Integrated Building Performance				
	Environmental Performance	Social Performance	Economic Performance	Technical Performance	Functional Performance
Framework level	EN 15643-1 Sustainability Assessment of Buildings – General Framework				
	EN 15643-2 Framework for Environmental Performance	EN 15643-3 Framework for Social Performance	EN 15643-4 Framework for Economic Performance	Technical Characteristics	Functionality
Building level	EN 15978 Assessment of Environmental Performance	prEN 16309 Assessment of Social Performance	WI 017 Assessment of Economic Performance		
Product level	EN 15804 Environmental Product Declarations	(see Note below)	(see Note below)		
	EN 15942 Comm. Format B-to-B CEN/TR 15941	<p>NOTE At present, technical information related to some aspects of social and economic performance are included under the provisions of EN 15804 to form part of EPBD.</p>			

EPBD-IV

CPR





6. EPBD-IV en Whole Life Carbon berekening (WLC)

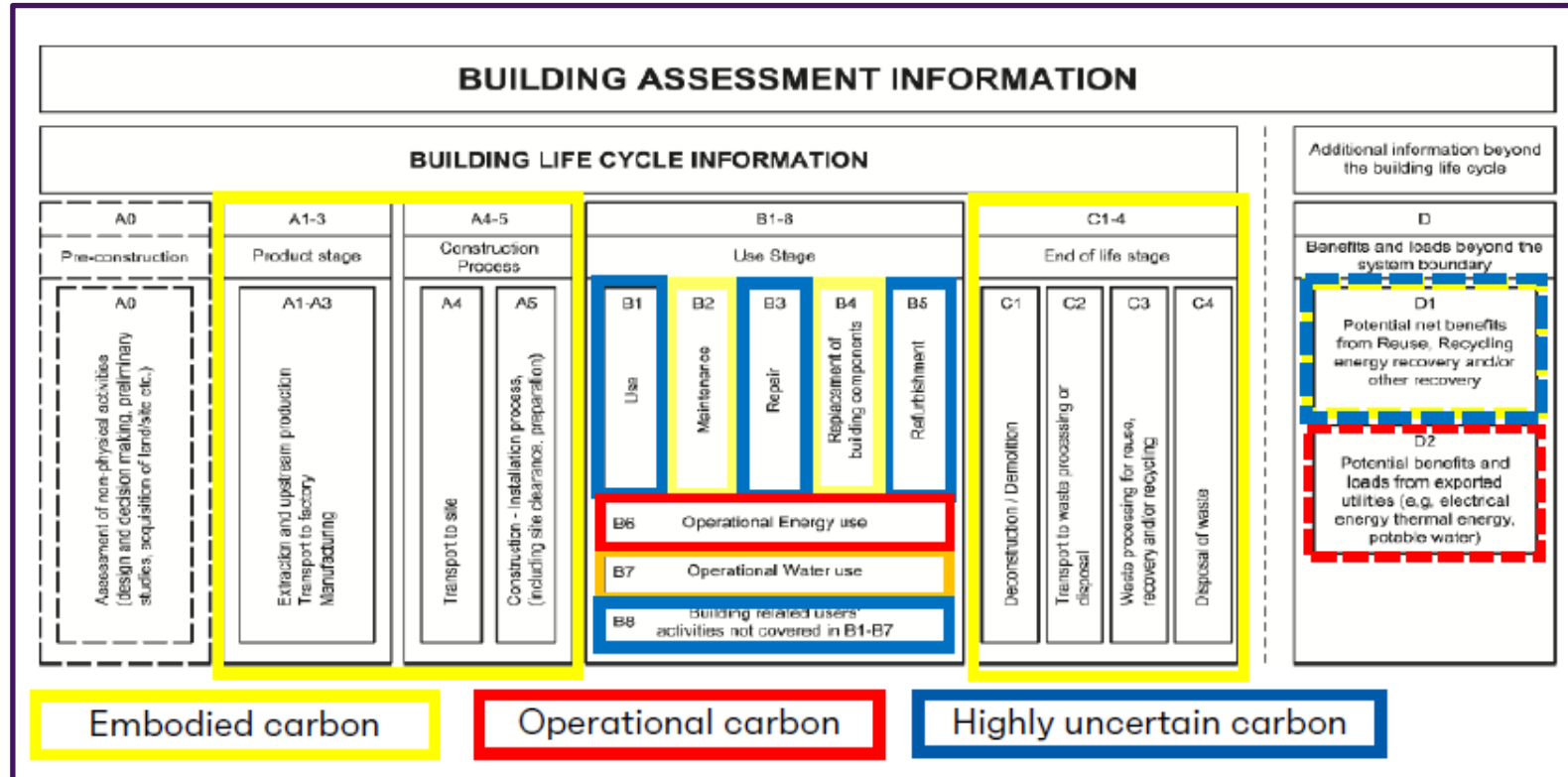
Tentative timeline

Overview of the WLC elements in the EPBD Recast





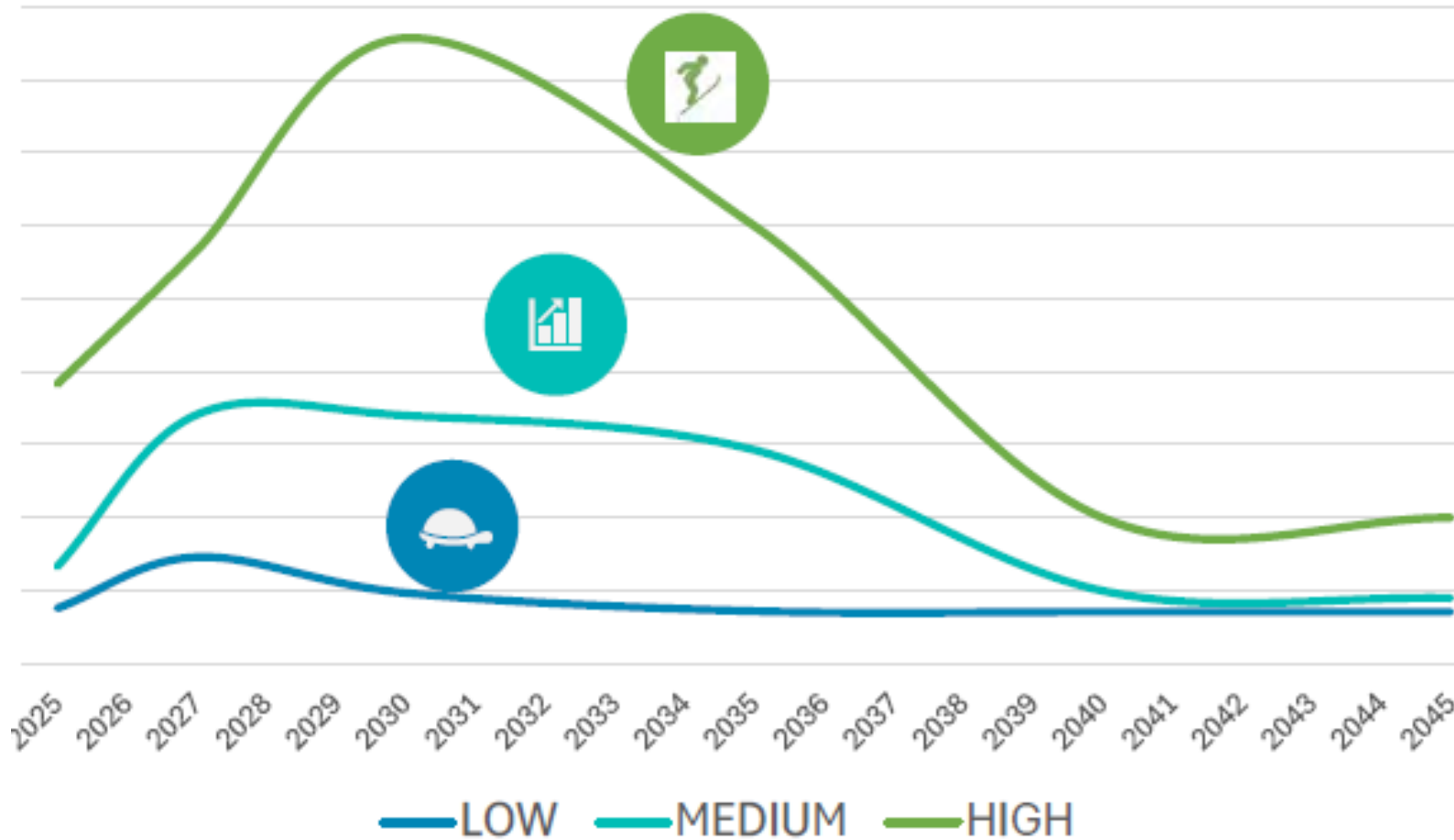
7. Overeenkomsten en verschillen MPG en WLC



Kolom1	WLC	MPG
Modules:	A t/m C (D-apart)	A t/m D
Module B6(gebruikfase):	Ja	Nee
Levensduur:	50 jaar	75 jaar
Milieu-indicatoren:	CO2eq	19 indicatoren
Weegset:	Nee	Ja (nationaal bepaald)
1-puntscore	Nee (CO2eq/m2.jr)	Ja



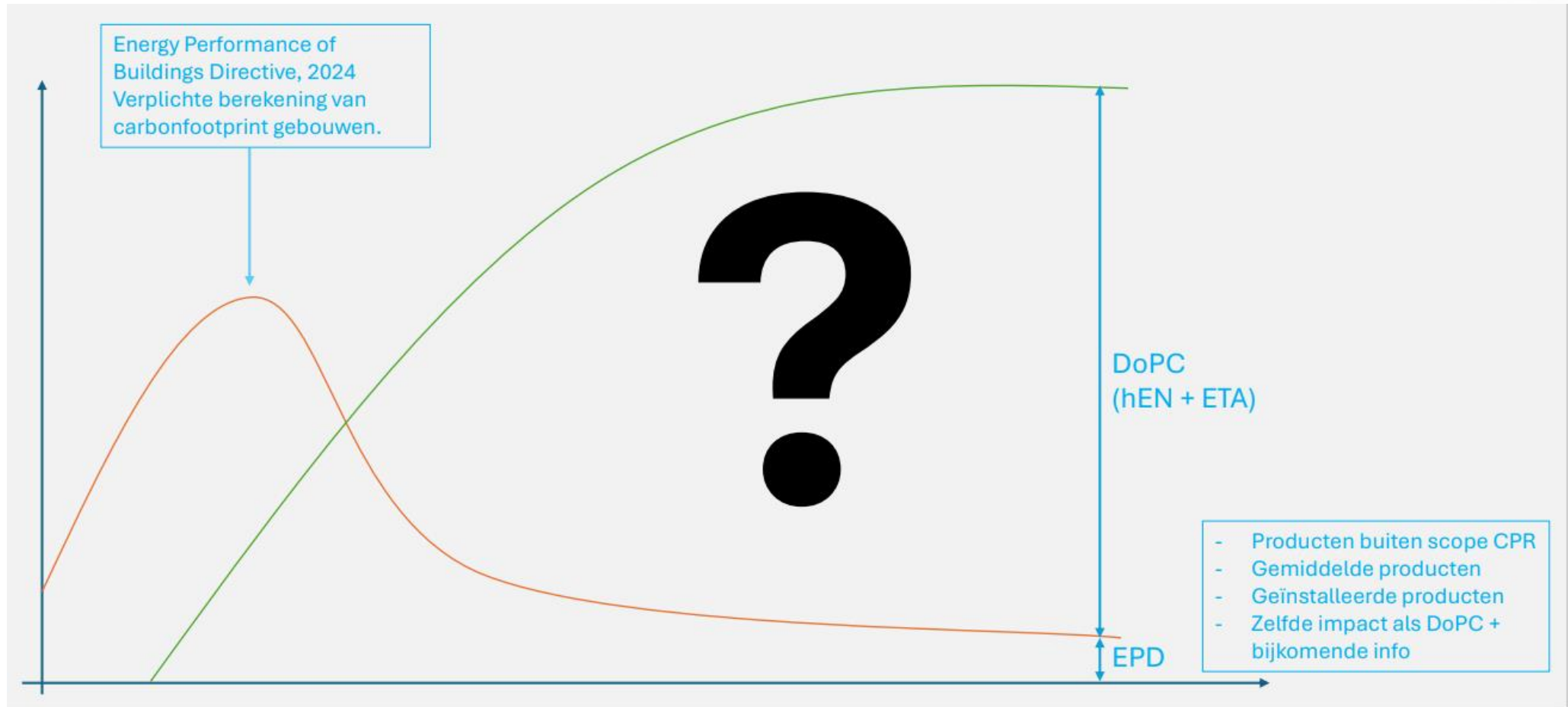
8. Tijdlijnen EPD's nationaal versus Europees



Mogelijke scenario's nationale EPD's (bron: Buildwise m.b.t. Belgische situatie)



8. Tijdlijnen EPD's nationaal versus Europees



Mogelijke scenario's nationale EPD's (bron: presentatie Dieter de Lathauwer – nov 2024)



Vragen?

<https://www.contactpuntbouwproducten.nl/>