

CEN CSN Conference

'Construction Standards: 2010 – 2015'

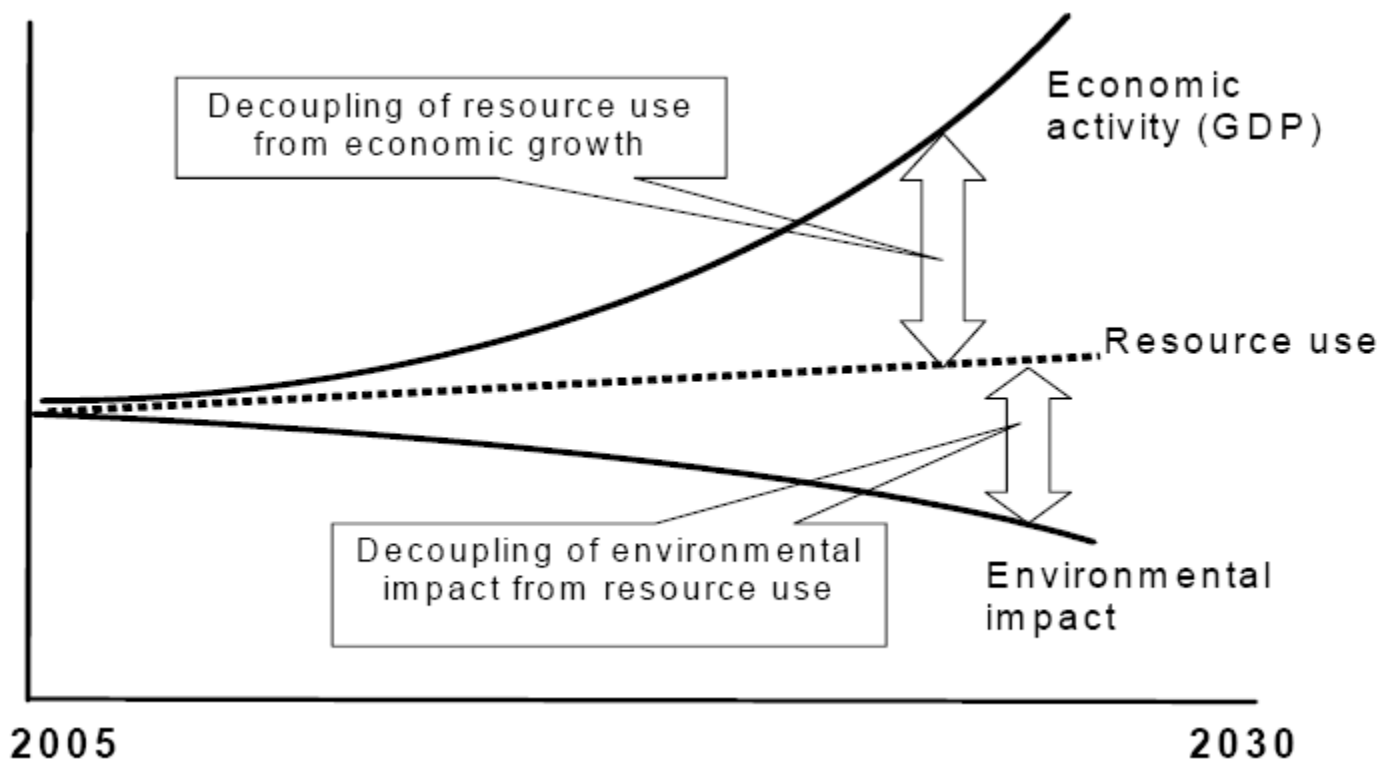


→ 'Break-out sessions on Basic Work Requirements (BWR) of proposed Construction Products Regulation' – BWR7

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EU Thematic Strategy on the "Sustainable Use of Natural Resources": Decoupling environmental impacts from the use of natural resources as EU is targeting for a growing economy



The concept of CPR BWR7 and the needs for horizontal approach in its fulfilment



CEPMC:
this only
ENV !

SOC?
ECON?

BWR = Basic Works Requirements
#7: sustainable use of natural resources:

#7a: recyclability of works

#7b: durability of works

#7c: use of environmentally compatible raw and secondary materials in works

Member states set performance requirements for works on 7a, 7b and 7c

CEPMC:
no
performance
requirements
to products



assessment methodology ?
indicator?

➤ **Assessment methodology?**
➤ **indicators?**
➤ **communication format?**

Standards of CEN/TC350 and related horizontal ISO and CEN standards



Framework level	prEN 15643-1 Sustainability Assessment of Buildings - General Framework (TG)				
	prEN 15643-2 Framework for Environmental Performance (TG)	prEN 15643-3 Framework for Social Performance (WG5)	prEN 15643-4 Framework for Economic Performance (WG4)	Technical Characteristics	Functionality
	Framework for Methods of Assessment of Environmental Performance (ISO/FDIS 21931-1)			Service Life Planning – General Principles (ISO 15686-1)	
Calculation methods for Building level	WI 002 Assessment of Environmental Performance (WG1)	Assessment of Social Performance (WG5)	Assessment of Economic Performance (WG4)	CEN Standards on Energy Performance of Buildings Directive (EPBD)	
	WI 003 Use of EPDs (WG1)		Life Cycle Costing (ISO 15686-5)		
Rules for Product level	prEN 15804 Environmental Product Declarations (WG3)	(?)	(?)	Service Life Prediction (ISO 15686-2), Feedback from Practice (ISO 15686-7), Reference Service Life (ISO 15686-8)	
	EPD of Build. Products (ISO 21930)				
	prEN 15942 Comm. Format B-to-B (WG3)				
	prCEN/TR 15941				

Fulfilment of the CPR BWR7 – “Sustainable Use of Natural Resources”



a) “Recyclability of the construction works, their materials and parts after demolition”

- Fulfilment of the recyclability aspect: To set requirements for Environmental Indicators: “Materials for Recycling” and “Materials for Energy Recovery” (relevant recycling operations according to the Waste Framework Directive)

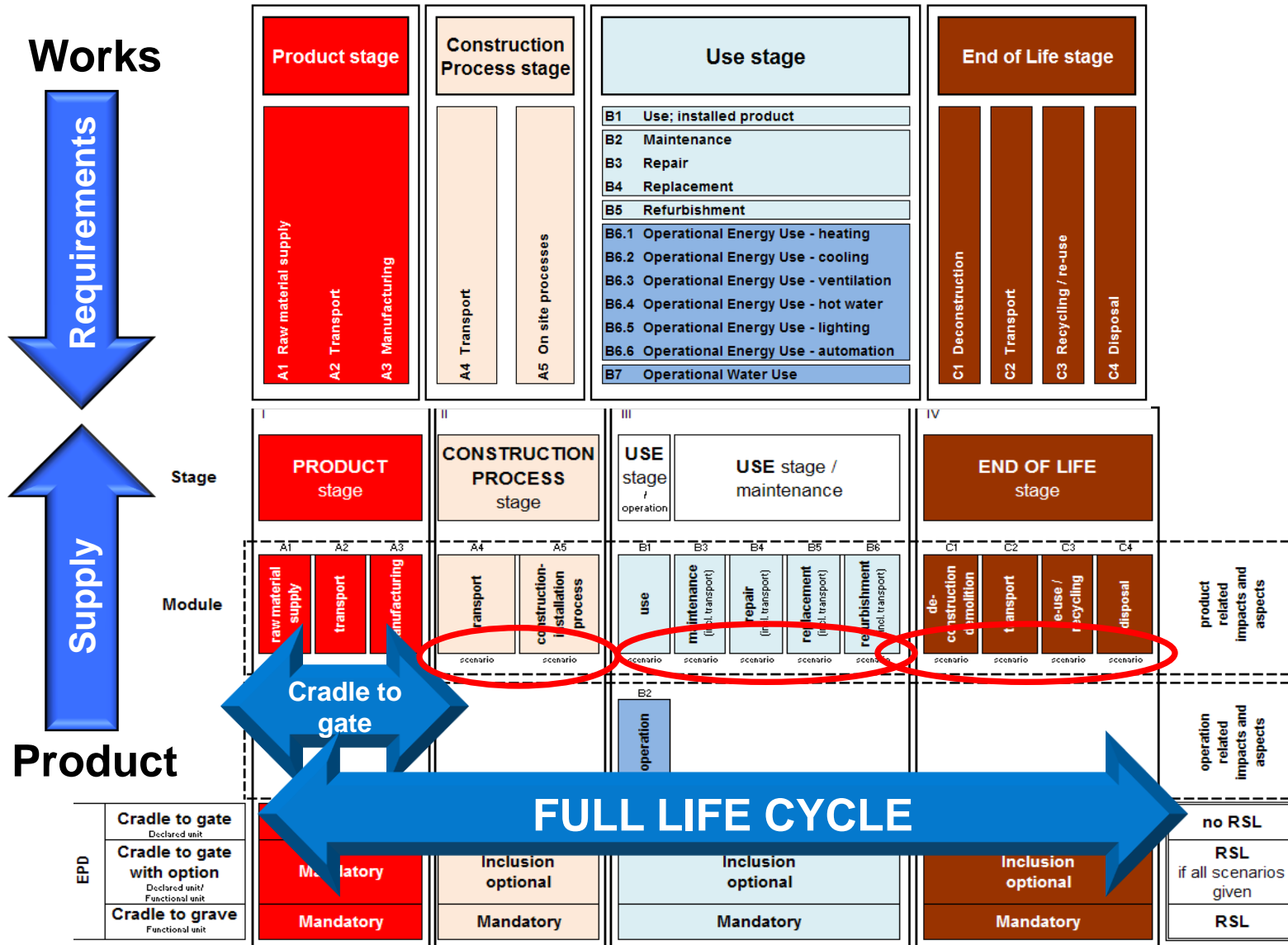
b) “Durability of the construction works”

- Not an environmental indicator, but a technical characteristic of the building with environmental and economic consequences
- In order to cover the whole life cycle, durability information is already required in the assessment of environmental performance
- Fulfilment of the durability aspect: To set requirement for “Design Life” of the building and its fulfilment by Service Life Planning

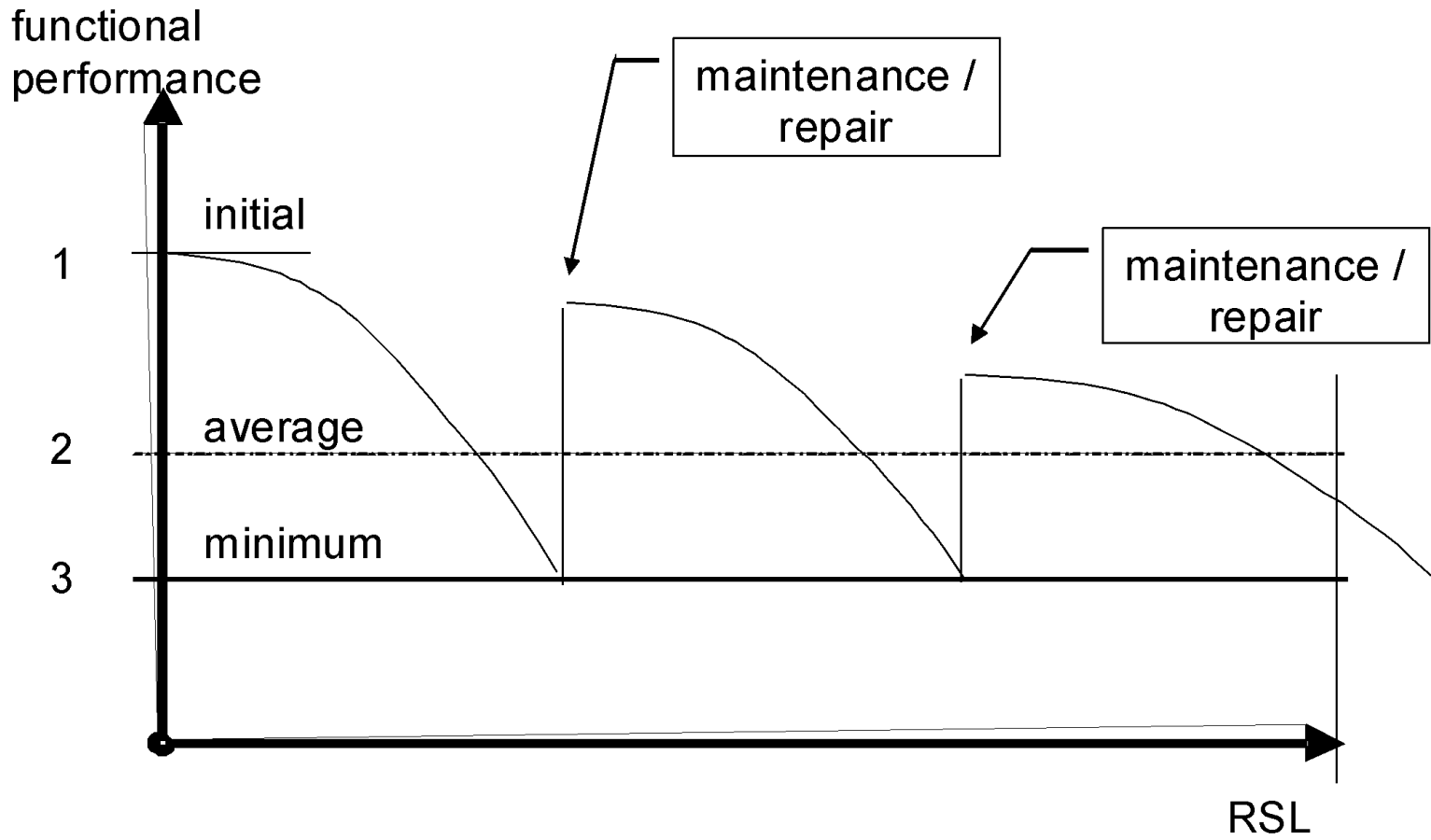
c) “Use of environmentally compatible raw and secondary materials in the construction works”

- The quantity of used raw and secondary materials (input) and the resulted environmental impacts (output: emissions and waste)
- Fulfilment of this requirement: To set requirements for the level of decoupling between the used natural resources (input) and the resulted environmental impacts (output) during the life cycle

Modular information on the products during the works life cycle



Type of declared performance characteristics, repair/maintenance during the declared Reference Service Life (RSL)



1) Output indicators for environmental impacts:

- Climate change
 - Destruction of the stratospheric ozone layer
 - Acidification of land and water resources
 - Eutrophication
 - Formation of ground level ozone
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2) Input indicators for material and energy flows:

- Use of non-renewable materials
 - Use of renewable materials
 - Use of non-renewable primary energy
 - Use of renewable primary energy
 - Use of freshwater resources
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3) Output indicators for material and energy flows:

- Materials for recycling
- Materials for energy recovery
- Non-hazardous waste to disposal
- Hazardous waste to disposal
- Radioactive waste to disposal

Road map to cover BWR7 in the harmonized product standards with the horizontal and performance based approach

