

# **“Standardization in the Construction Sector – Sustainability assessment and Environmental Product Declarations”**

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*ECO Platform EPD*

# European Standardization Organizations (ESOs) & Sectors



→ Electricity – Electrotechnical



European Committee  
for Electrotechnical  
Standardization

→ Electronic Communications



European Telecommunications  
Standards Institute

Gonçalo Ascensão, ECO Platform EPD

→ Chemistry

→ Material

→ Food

→ Energy

→ Services

→ Transport

→ Metrology

→ Healthcare

→ **Construction**

→ Environment

→ Security and  
defence

→ Information  
society

→ Mechanical  
engineering

→ HVAC



European Committee  
for Standardization



# CEN & CENELEC World



## CEN & CENELEC

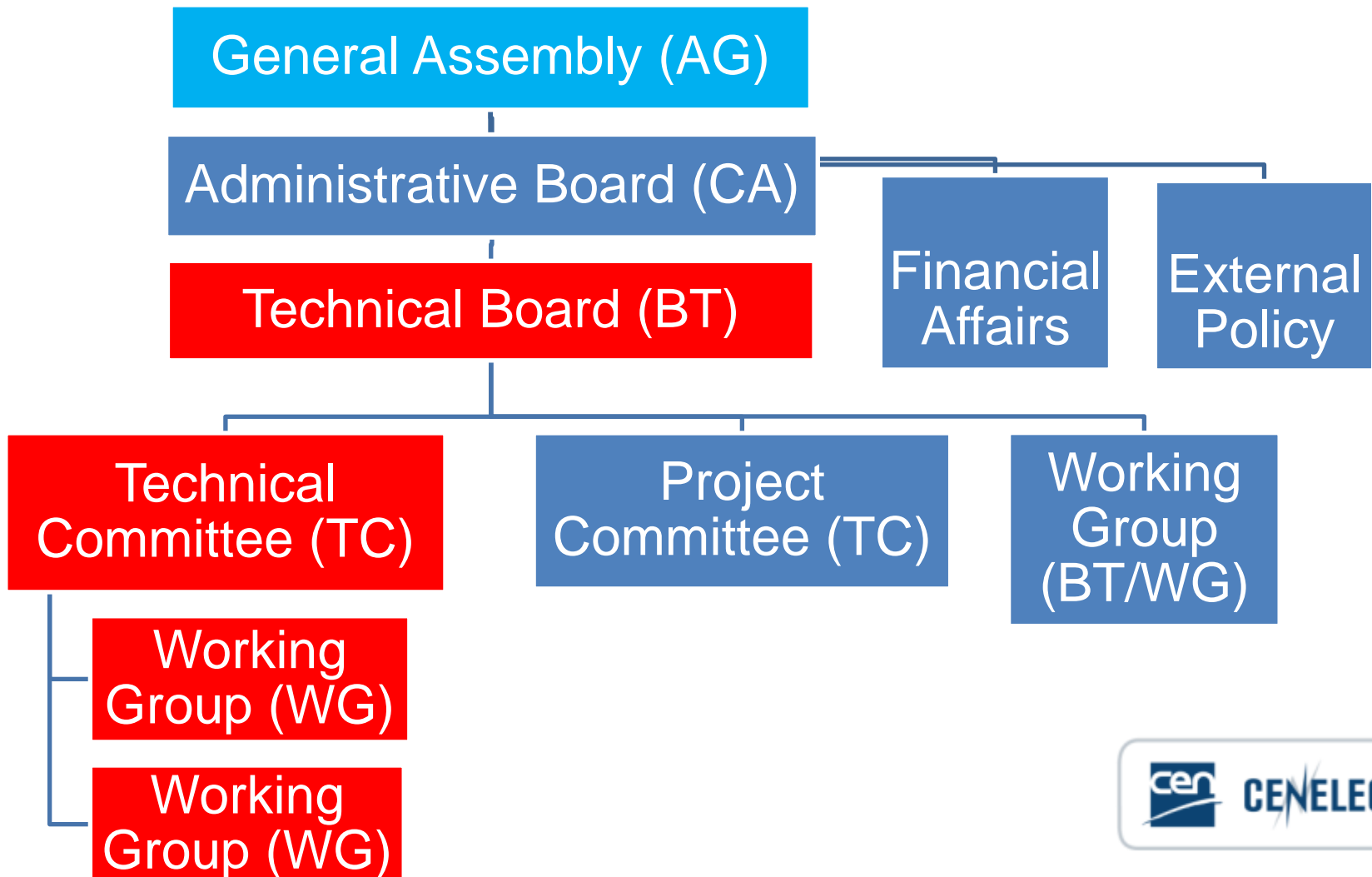
- 33 Members  
(NSB/NC of 28 EU Members +  
3 EFTA countries +  
2 candidate countries)
- Affiliates (17 CEN, 14 CLC)
- 3 CEN Partner  
Standardization Bodies  
(PSBs)
- More than 400 TCs
- 20.000 published documents



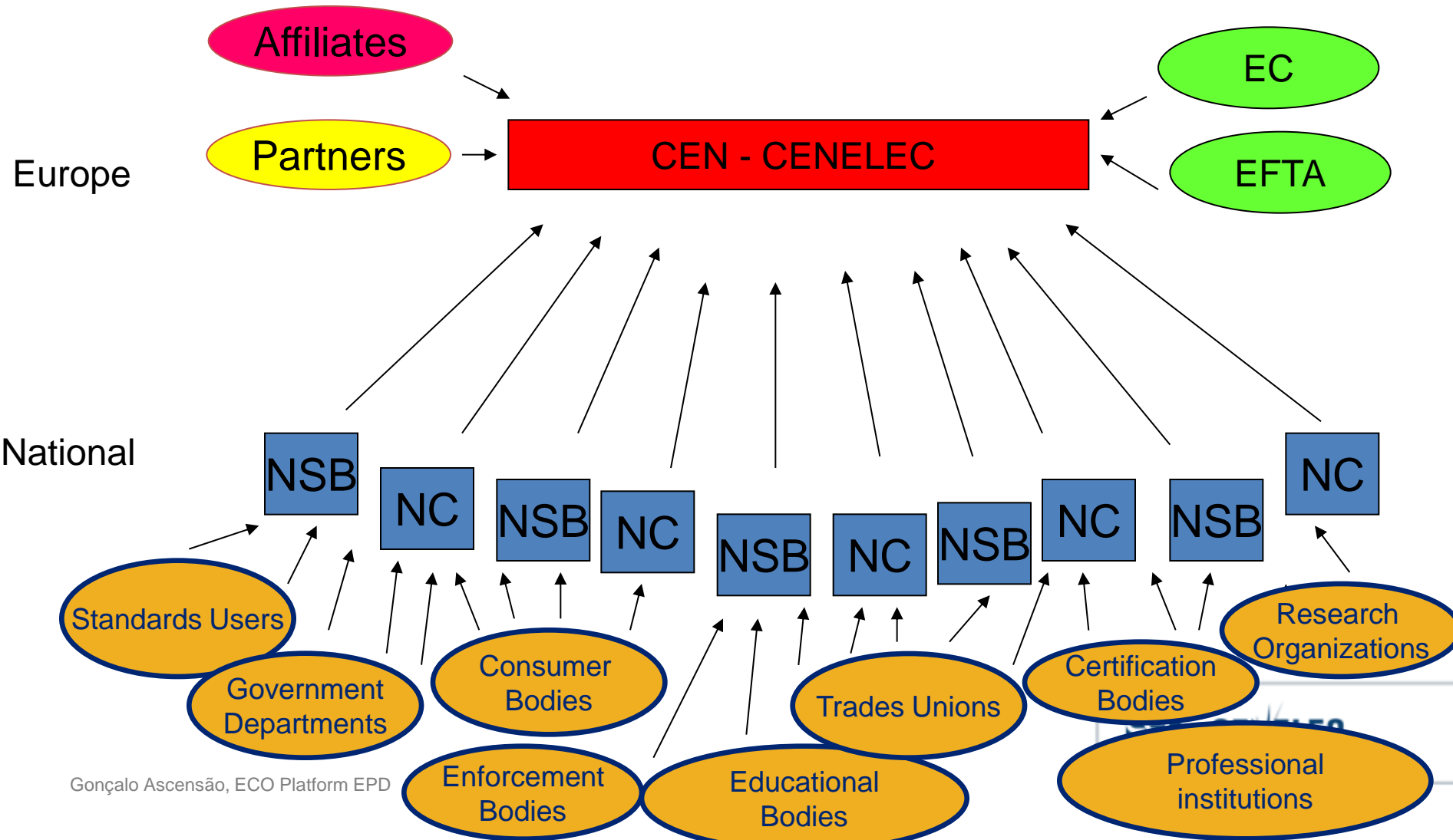
- Members
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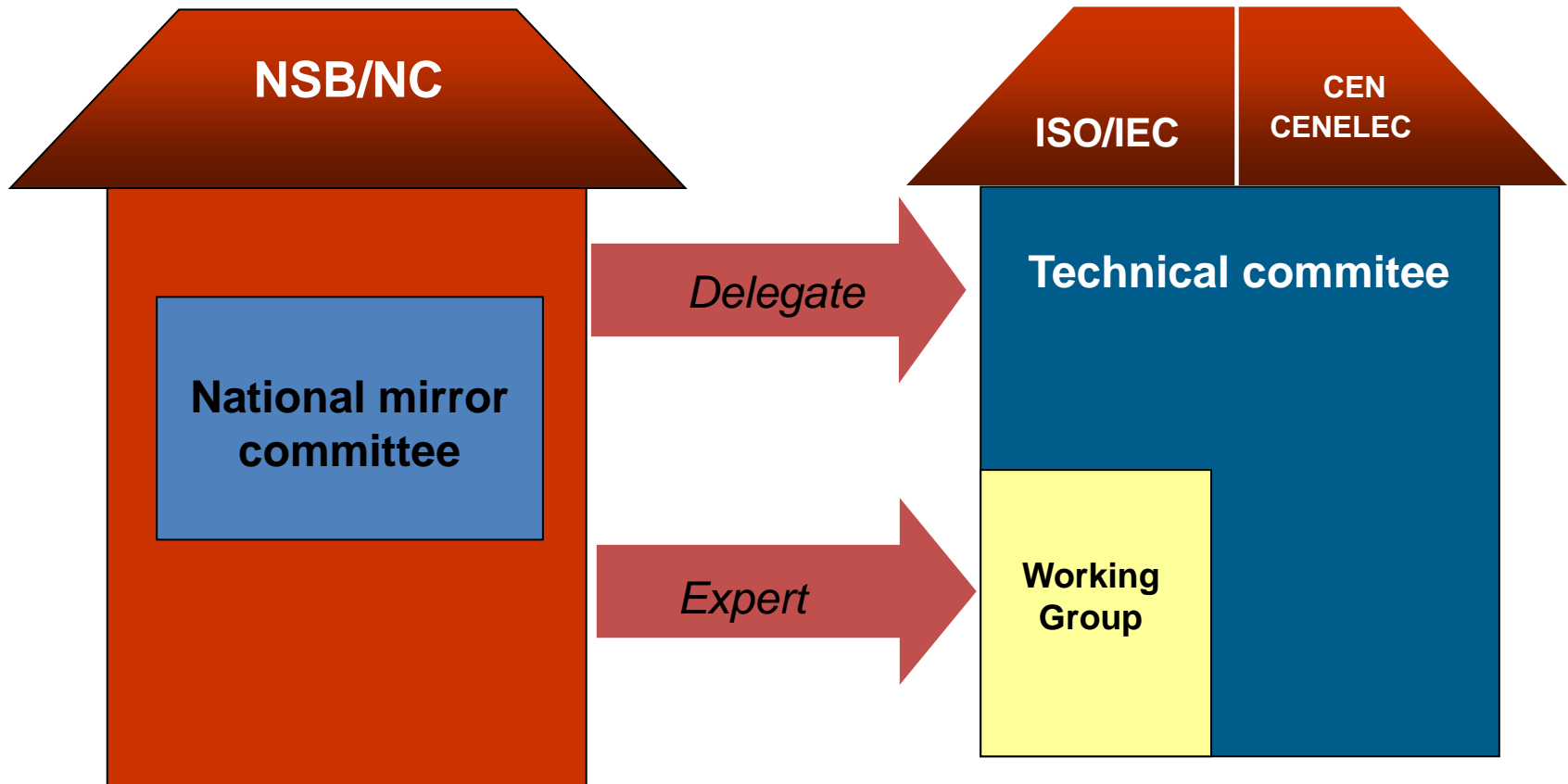


# System – main structure



# System – main interactions





# CEN & CENELEC



## All National Members are members of all TCs

- Official languages are English, French and German
- Development through discussion leading to consensus
- Final decisions reached by weighted vote
- Standards shall be adopted as National Standards even if the country voted against the draft

# CEN/CENELEC Deliverables

## Standards

- European Standard – EN

## Pre-Standards

- Technical Specification - TS

## Informative

- Technical Report - TR
- CEN/CENELEC Guide

## Workshop Agreement

- CEN/CENELEC Workshop Agreement (CWA)





# Main principles of European Standardization



**Voluntary:** standards are voluntary in application

**Openness and transparency:** open to participation of all interested parties and broad consultation

**Consensus:** we build European consensus among all stakeholders

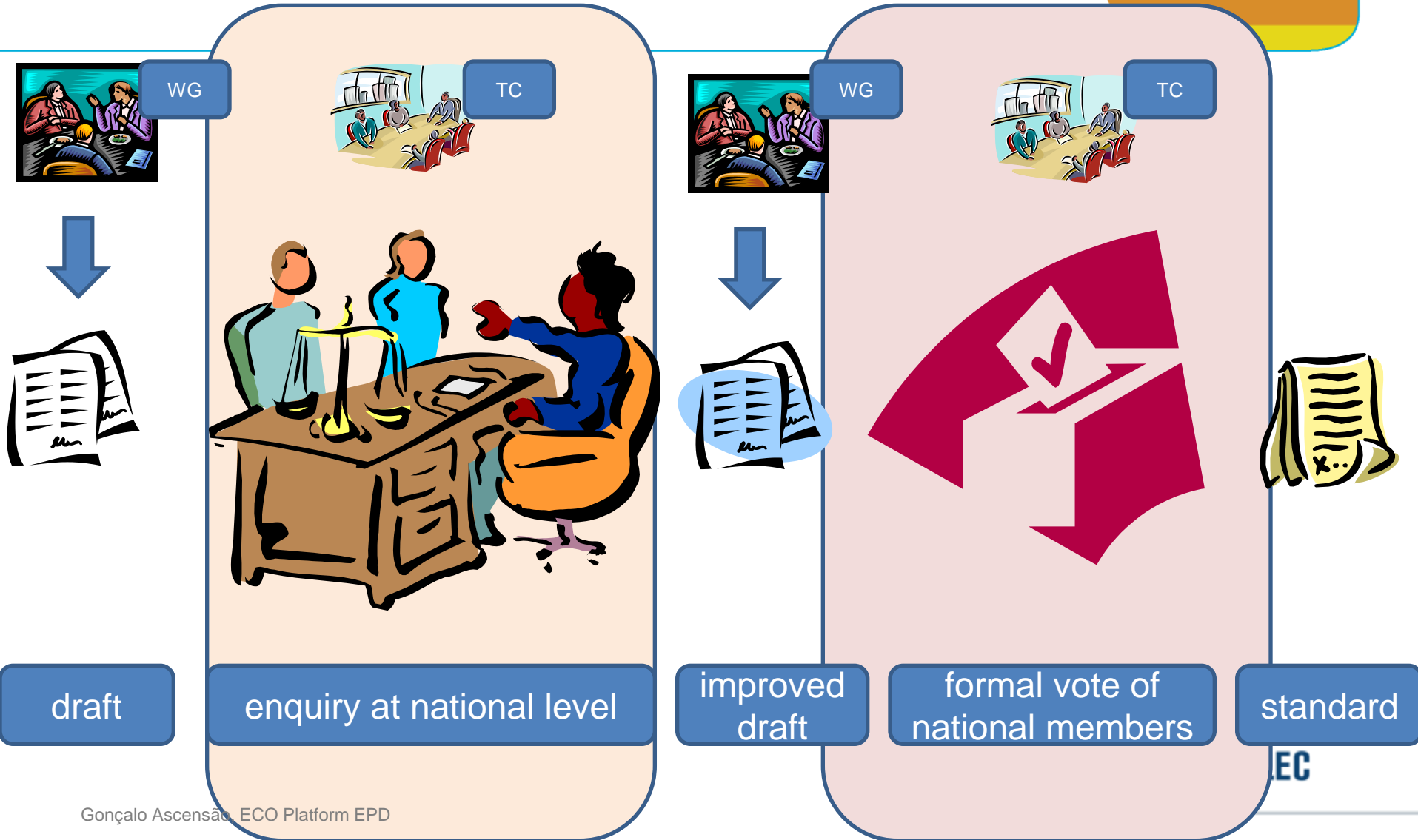
**National commitment:** to implement European standards as identical national standards and withdraw conflicting national standards

**Market relevance:** reflect market needs

**Correct integration with international work:** cooperation with ISO (Vienna agreement); Cooperation with CENELEC (Dresden Agreement)



# Finding and measuring consensus



# Mandate M/350

## Standardization request for:

- Methods for the assessment of the integrated environmental performance of buildings
- Standards to be delivered in 2007

Accepted by CEN BT in 2004-06-17

First deliverable available in 2010

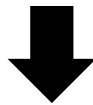
# CEN TC 350 'Sustainability of construction works'

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
	<i>Framework for Assessment of Environmental Performance (ISO 21931-1)</i>			<i>Service Life Planning – General Principles (ISO 15686-1)</i>	
Building level	EN 15978 Assessment of Environmental Performance	EN 16309 Assessment of Social Performance	FprEN 16627 Assessment of Economic Performance	<i>CEN Standards on Energy Performance of Buildings Directive (EPBD)</i>	
Product level	EN 15804 Environmental Product Declarations	(see Note below)	(see Note below)	<i>Service Life Prediction (ISO 15686-2), Feedback from Practice (ISO 15686-7), Reference Service Life (ISO 15686-8)</i>	
	<i>EPD of Build. Products (ISO 21930)</i>	<b>Note:</b> 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 EPD			
	EN 15942 Comm. Form. B-to-B				
	CEN TR Guidance				

# Implementation of EN 15804

## Product TCs (in voluntary basis):

- Can refer to EN 15804 in product standards
- Can create specific scenarios applicable to each specific product (specific PCRs)



Following the principles of EN 15804  
(decision BT 3/2013)

# Implementation of EN 15804



## Available product specific PCRs

- EN 16485:2014 'Product category rules for wood and wood-based products for use in construction'

## Other TCs have work in progress (e.g.)

- CEN/TC 88 'Thermal insulation products'
- CEN/TC 229 'Precast concrete products'
- CEN/TC 155 'Plastics piping systems and ducting system'

# Implementation of EN 15804



## Some challenges (e.g. clay products)

- CEN/TC 67 'Ceramic Tiles'
- CEN/TC 128 'Roof covering products for discontinuous laying and products for wall cladding'
- CEN/TC 163 'Sanitary Appliances'
- CEN/TC 165 'Wastewater engineering'
- CEN/TC 178 'Paving Units and Kerbs'

# Basic Work Requirement 7

## Current situation

- EC is evaluating what can be done in the framework of BWR 7
- EC requested an update of PCRs development
- Standardization in CEN/TC 350 (EN 15804) can be the basis for any future request in the framework of BWR 7
- At present no link to CE marking (only through a standardization request)





# Other initiatives addressing Standardization



M/526 or C(2014) 3451 final - in support of implementation of the EU Strategy on Adaptation to Climate Change [COM(2013) 216 final]

Resource Efficient Europe' COM(2011) 571

Draft Standardization request for material efficiency aspects in support of the implementation of Directive 2009/125/EC

# Sources of information I



- CEN website, [CENELEC website](#) and [CEN-CENELEC website](#)
- CEN [Construction page](#)
- Websites of the National Members [of CEN](#) and [of CENELEC](#)
- [CEN/BOSS](#)
- [Internal Regulations](#)

# Sources of information II



- Latest publications [in CEN](#) and [in CENELEC](#)
- Search Standards [in CEN](#) and [in CENELEC](#)
- CEN-CENELEC Newsletter "[Connect](#)"
- Technical Committees [of CEN](#) and [of CENELEC](#)
- [CEN-CENELEC Guides](#)



*Thank you very much for your attention*

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