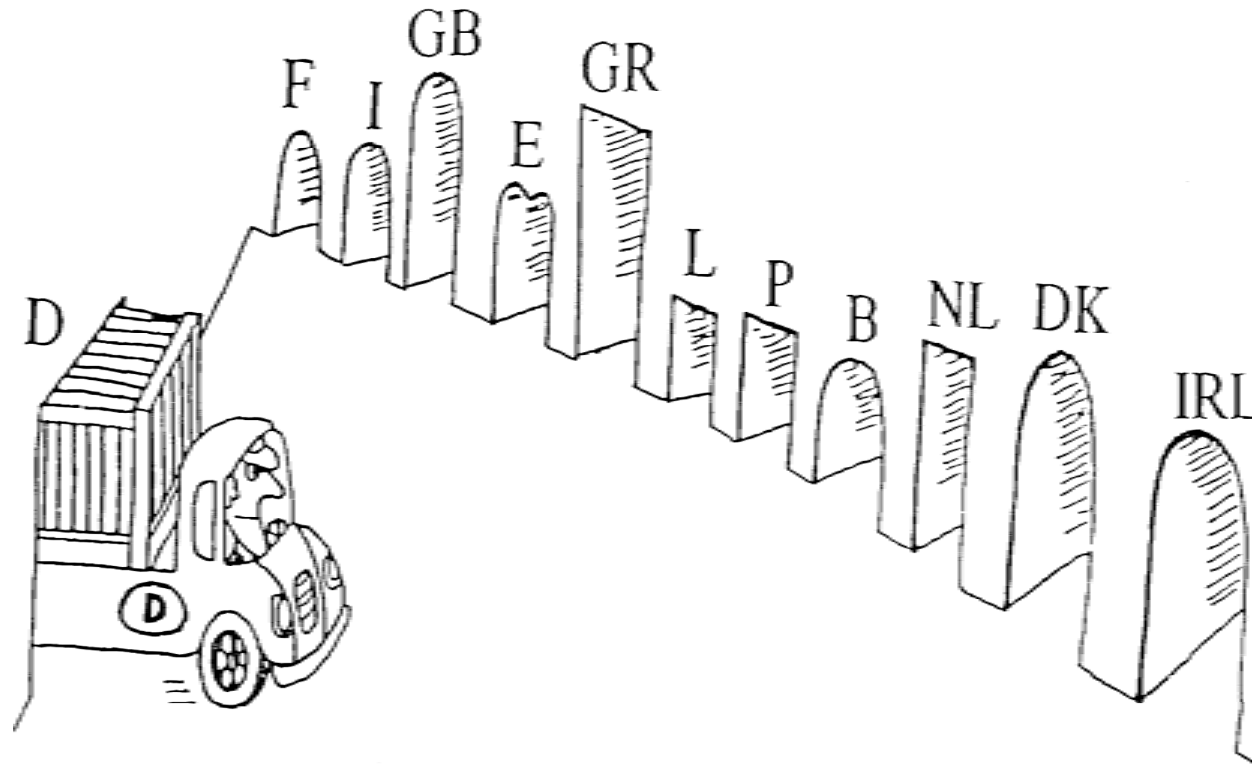


- Principles
- Development of a standard (general)
- Testing of cooling appliances for insulated means of transportation

# The old days: Trade barriers hindered the European economy



- European Directives set out basic requirements for specific sectors
- European Standards give substance to these basic requirements and provide technical solutions
- Implementation of European Standards implies conformity with European Directives.



- "Communautés Européennes"
- The mark is addressed to public authorities, not to consumers
- The mark indicates conformity with the "basic safety requirements" set out in EU Directives
- Manufacturers are responsible for testing and declaring conformity

# European standards bodies



DIN Deutsches Institut für Normung e. V.

German interests  
represented by:



European Committee  
for Standardization



European Committee  
für Electrotechnical  
Standardization



European Institute  
for Telecommunications  
Standards

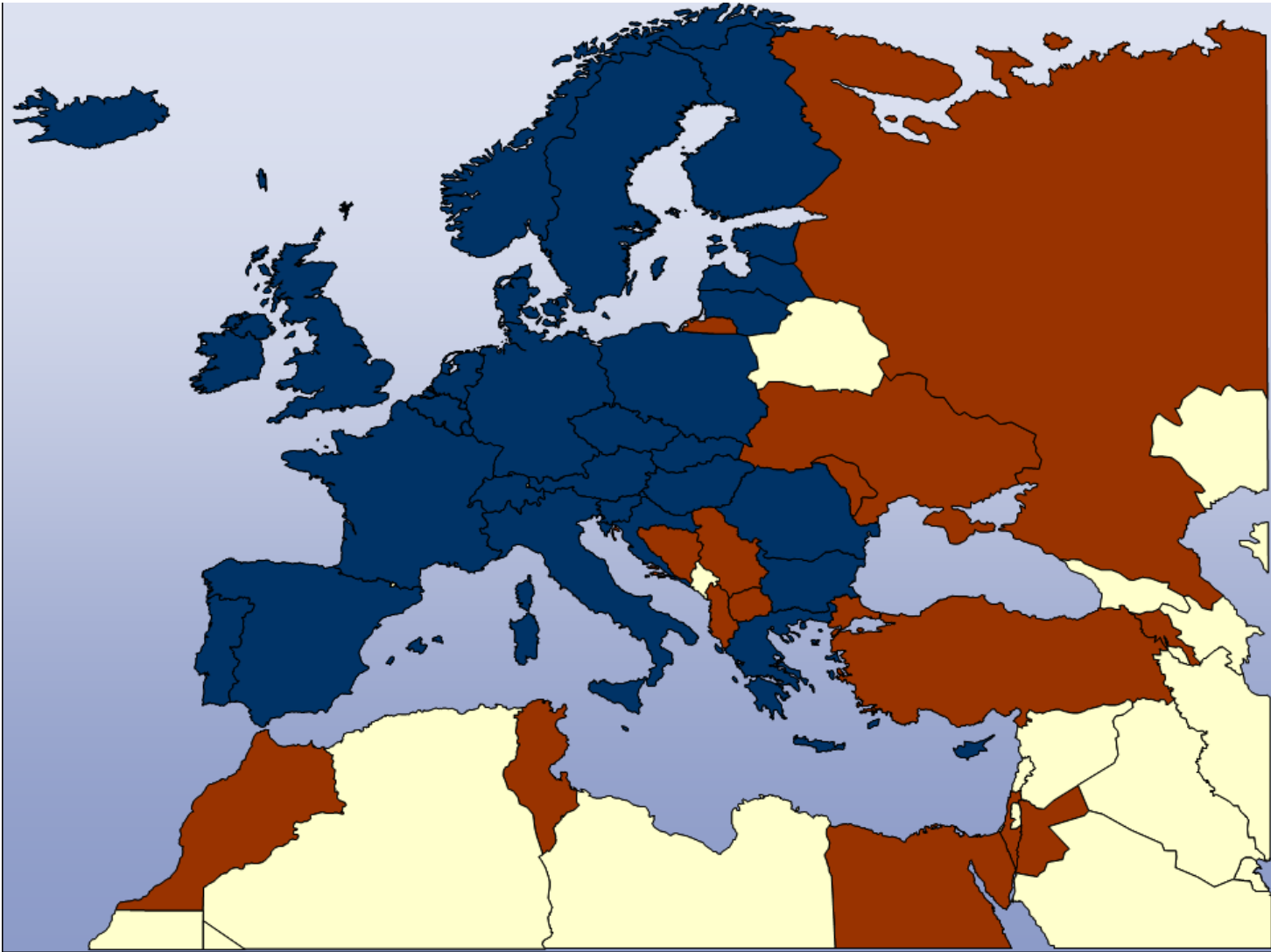
Direct  
membership<sup>1</sup>

<sup>1</sup>The responsible National  
Standardization Organization is the  
DKE.

# Member countries in European standards bodies



DIN Deutsches Institut für Normung e. V.



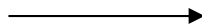
■ CEN/CENELEC Full Members (31) ■ CEN/CENELEC Affiliates

as of 1/2010  
[www.data2map.de](http://www.data2map.de)

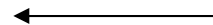
# Vienna and Dresden Agreements

## **Objective:**

*where possible, carry out specialist work at one level of standardization, and use parallel voting procedures to achieve simultaneous adoption as ISO/IEC and EN Standards*



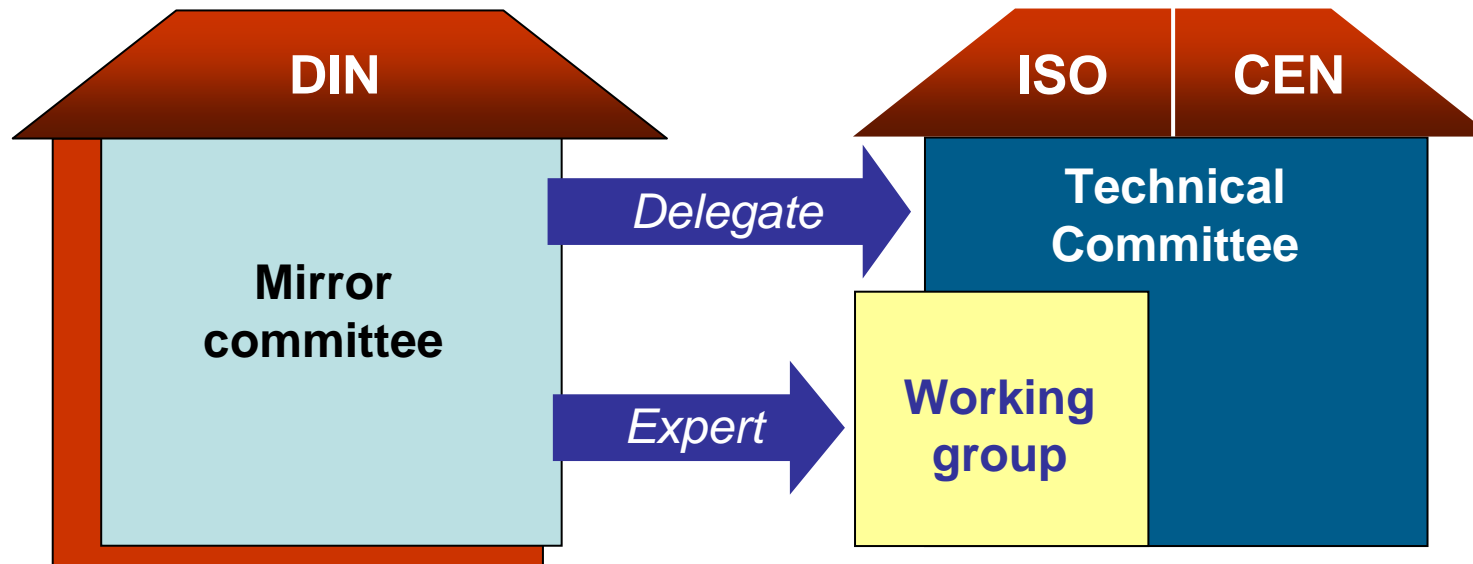
Vienna  
Agreement



Dresden  
Agreement

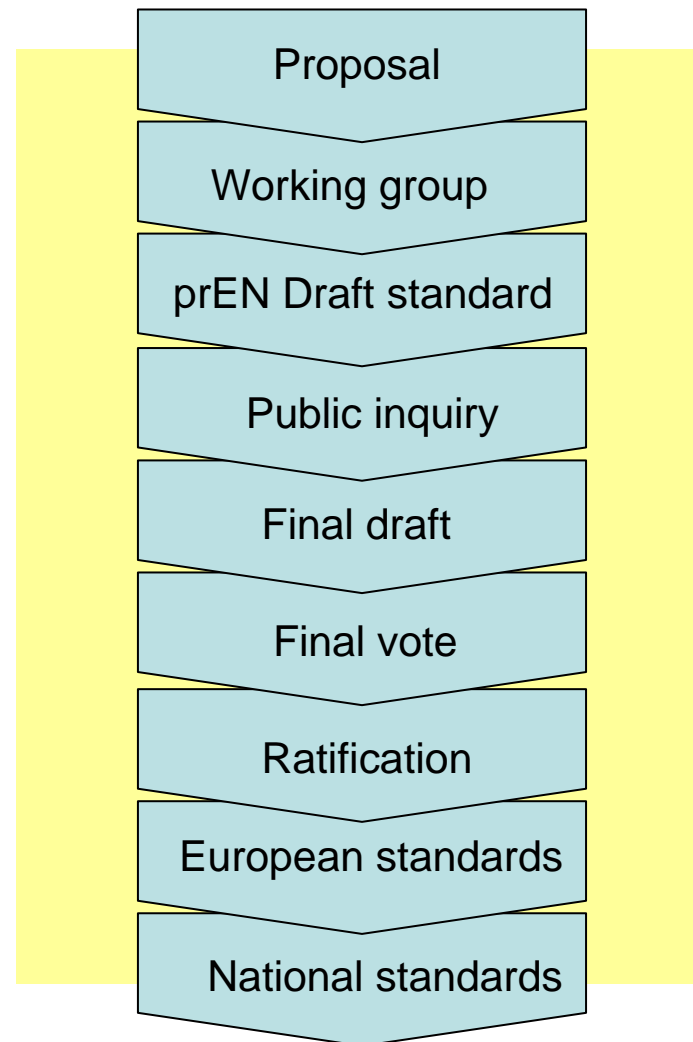


# Activity in European and international standards committees

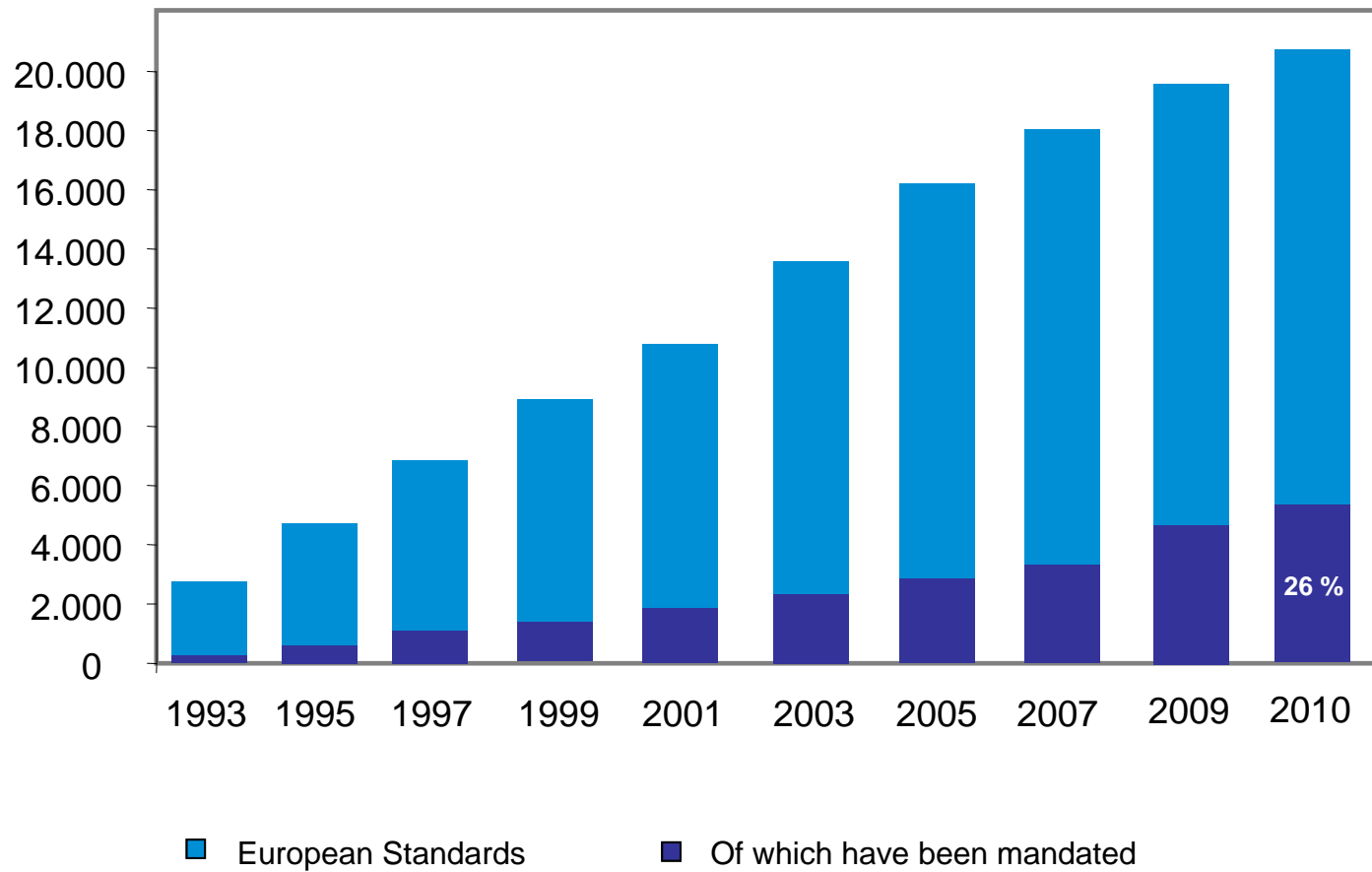




# Stages of European standards work



# European Standards



- **CEN/TC 113/WG 13**

*Testing of cooling appliances for insulated means of transportation*

Testing methodologies for cooling equipment for insulated means of transportation:

- Part 1: Mechanical refrigerating systems with forced air circulation evaporator or convection
- Part 2: Eutectic systems
- Part 3: Indirect gas refrigerant systems
- Part 4: Direct gas refrigerating systems
- Part 5: Dry ice systems
- Part 6: Special requirements for multitemp systems

- **CEN/TC 413**

*Project Committee - Testing methodologies and requirements for insulated means of transportation*

Thank you

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