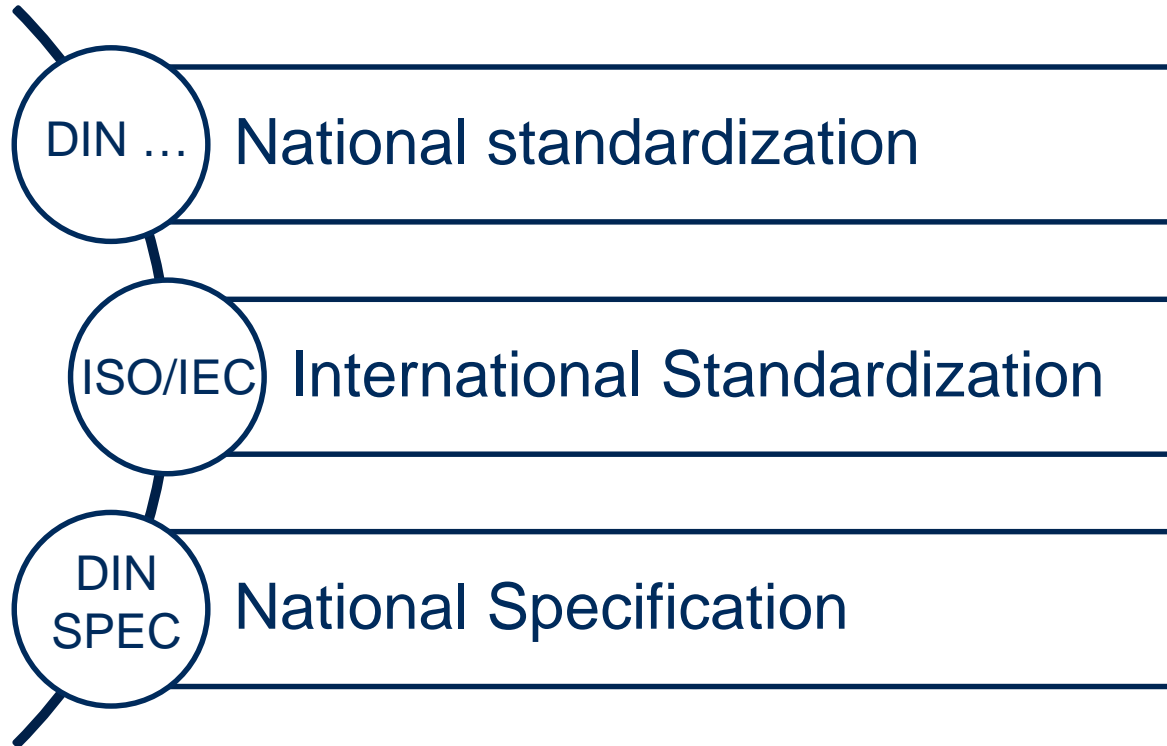




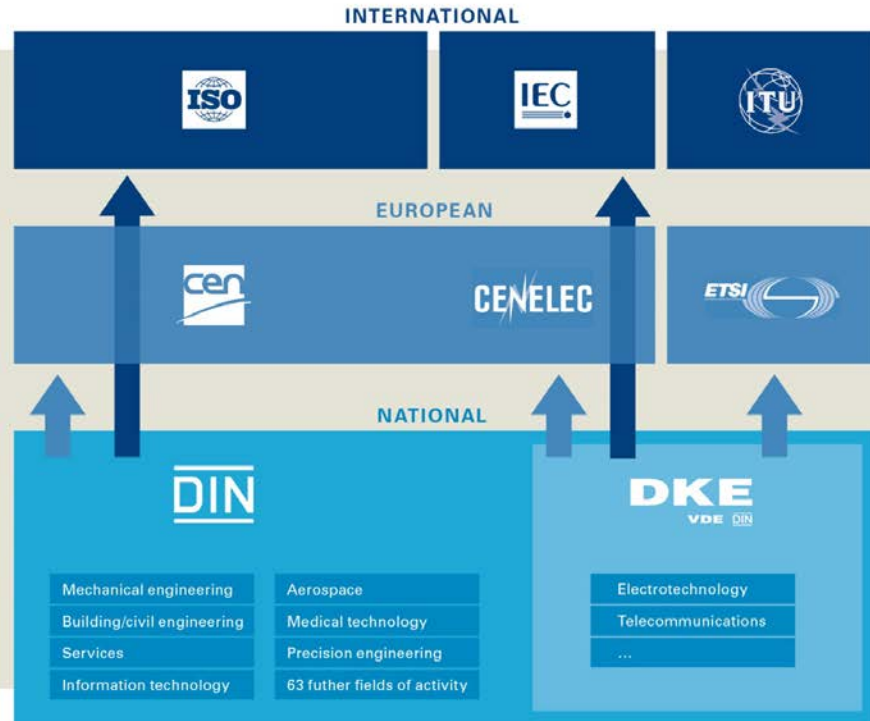
Artificial Intelligence at DIN e.V.

Katharina Sehnert

Agenda



DIN represents German interests in international standards work



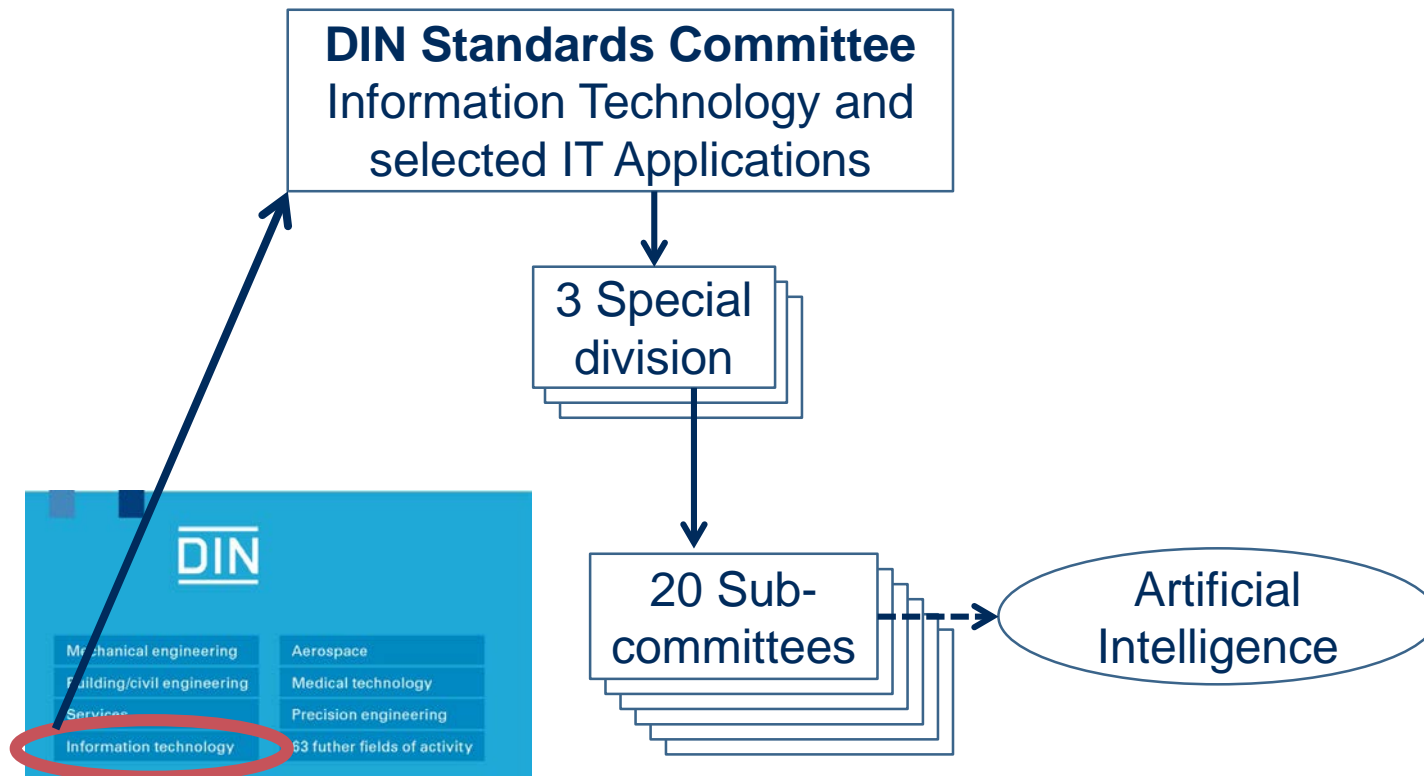
- ISO:** International Organization for Standardization
- IEC:** International Electrotechnical Commission
- ITU:** International Telecommunication Union
- CEN:** European Committee for Standardization
- CENELEC:** European Committee for Electrotechnical Standardization
- ETSI:** European Telecommunications Standards Institute
- DIN:** German Institute for Standardization
- DKE:** German Commission for Electrical, Electronic & Information Technologies of DIN and VDE

DIN and DKE represent German interests in European and international standardization.





DIN Standards Committee



Characteristics of the national Sub-committee AI



- Founded January 2018
- Work from scratch



- 27 mostly “new” experts (06/2018)
- Open for more



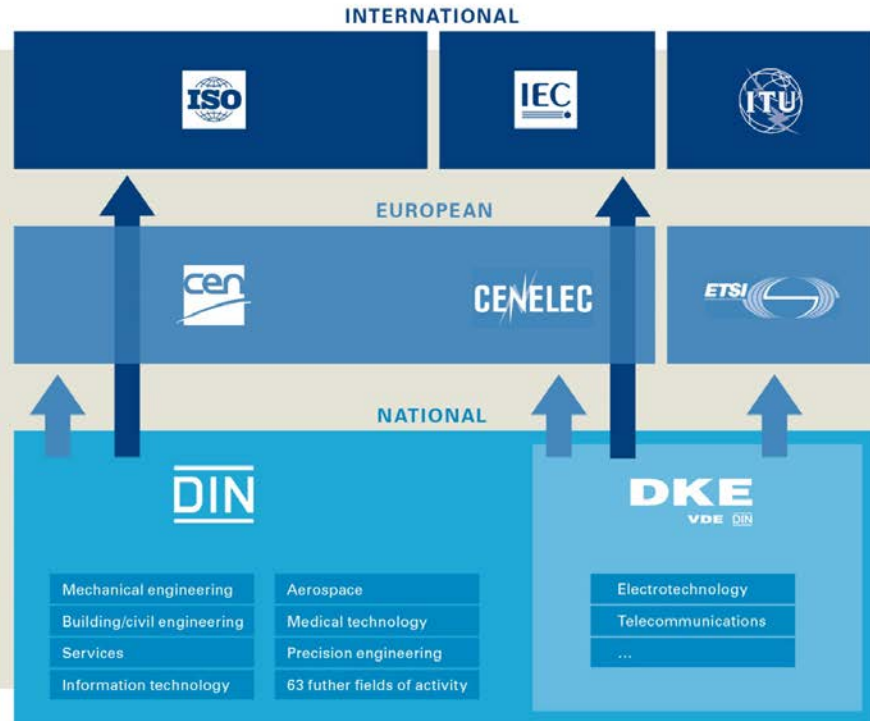
- Work in different groups around a specific AI topic



Scope of the national Sub-committee AI

- Development of standards
- Development of practices for tools, processes and fields of application of artificial intelligence
- Taking into account social opportunities and risks
- Mirror work of the ISO/IEC/JTC 1/SC 42 Artificial Intelligence

DIN represents German interests in international standards work



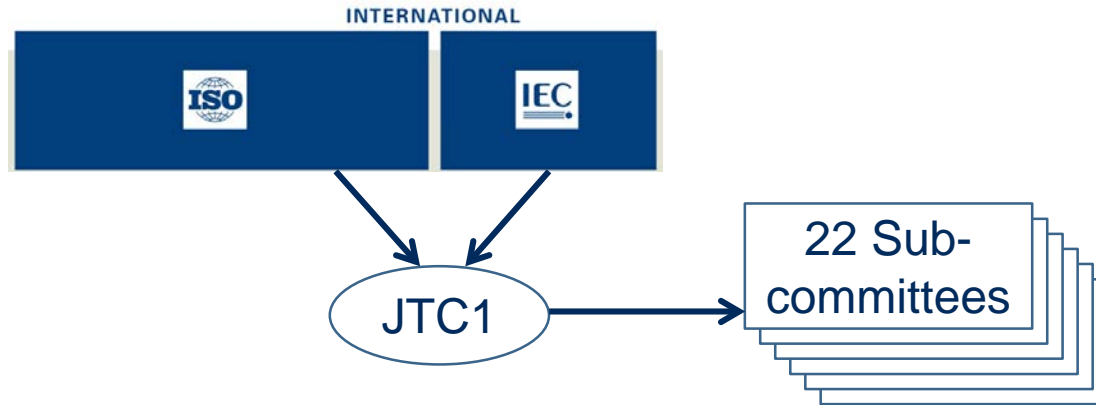
- ISO:** International Organization for Standardization
- IEC:** International Electrotechnical Commission
- ITU:** International Telecommunication Union
- CEN:** European Committee for Standardization
- CENELEC:** European Committee for Electrotechnical Standardization
- ETSI:** European Telecommunications Standards Institute
- DIN:** German Institute for Standardization
- DKE:** German Commission for Electrical, Electronic & Information Technologies of DIN and VDE

DIN and DKE represent German interests in European and international standardization.

DIN



Joint technical committee 1



- **Field of work:** Information and Communication Technology (ICT) standards for business and consumer applications

Members of SC42

Participating Members (19):

Austria (ASI)

Canada (SCC)

China (SAC)

Denmark (DS)

Finland (SFS)

France (AFNOR)

Germany (DIN)

India (BIS)

Ireland (NSAI)

Israel (SII)

Italy (UNI)

Japan (JISC)

Korea, Republic of (KATS)

Luxembourg (ILNAS)

Portugal (IPQ)

Russian Federation (GOST

R)

Switzerland (SNV)

United Kingdom (BSI)

United States (ANSI)

Observing Members (6):

Australia (SA)

Belgium (NBN)

Mexico (DGN)

Netherlands (NEN)

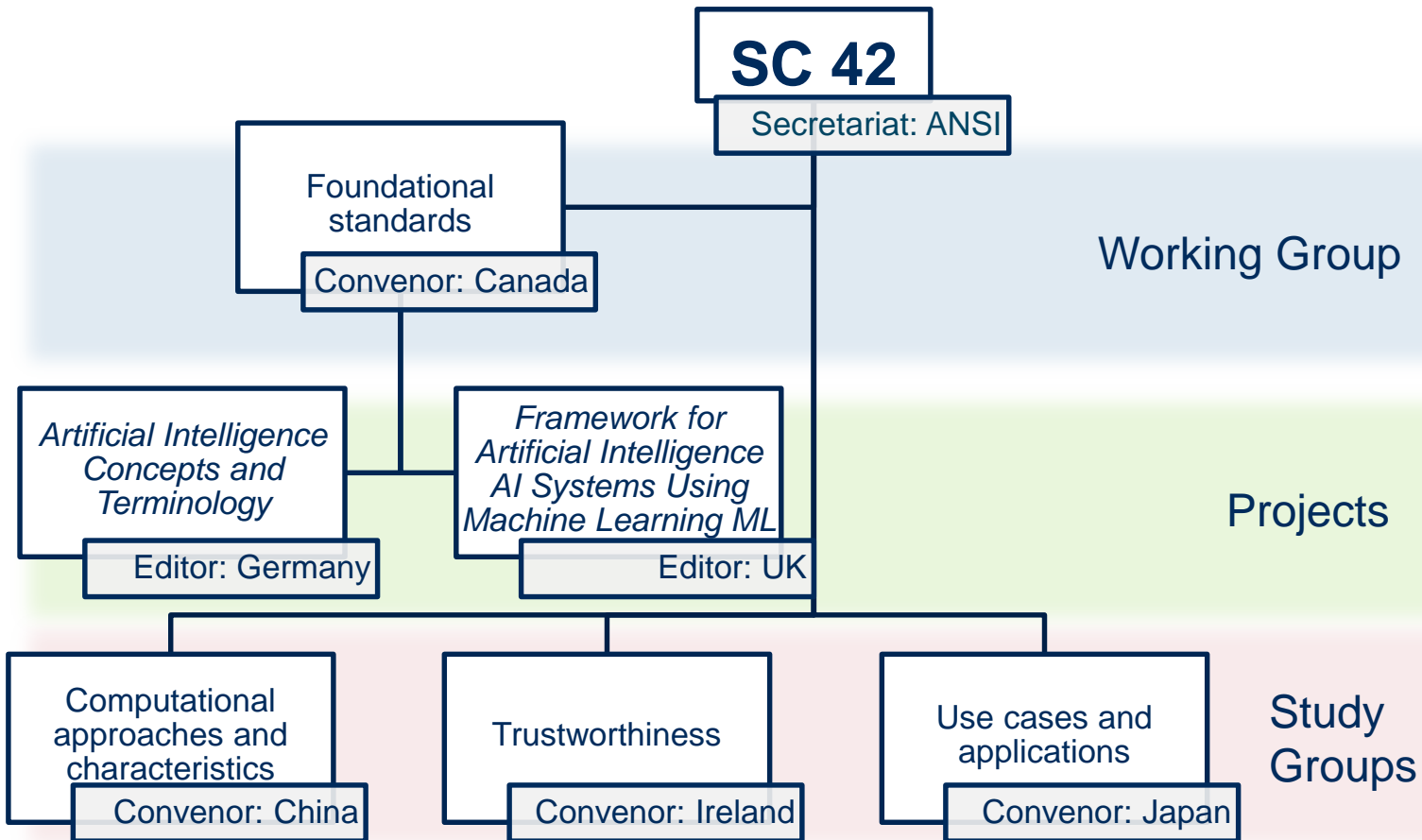
New Zealand (NZSO)

Sweden (SIS)

Inaugural ISO/IEC JTC 1/SC 42 Meeting Beijing, China 18 – 20 April 2018

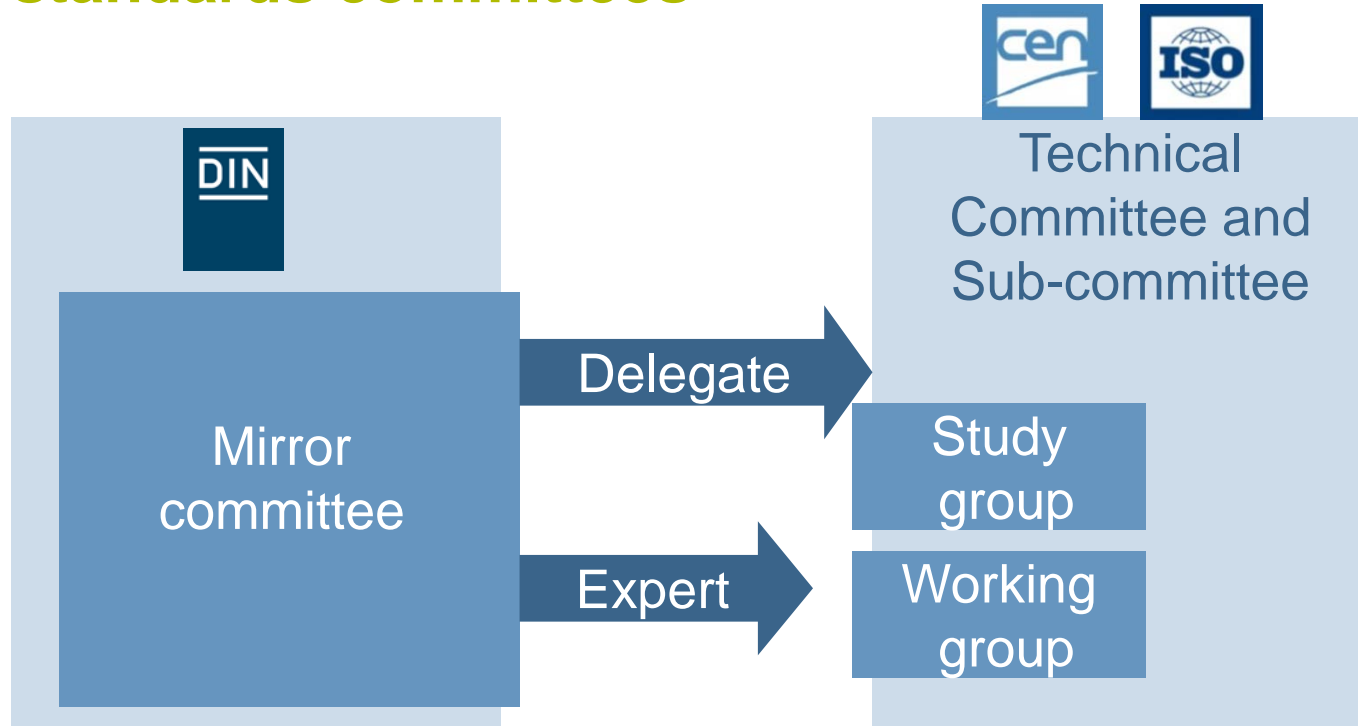
- 14 Resolutions
- Transfer of Big Data to SC42 Artificial Intelligence
- Inclusion of societal concern in SC 42 work program
- SC 42 structure
- Liaisons with other SCs and organizations
- Future meetings
 - Next meeting in California, USA, October 2018

SC 42 Artificial Intelligence





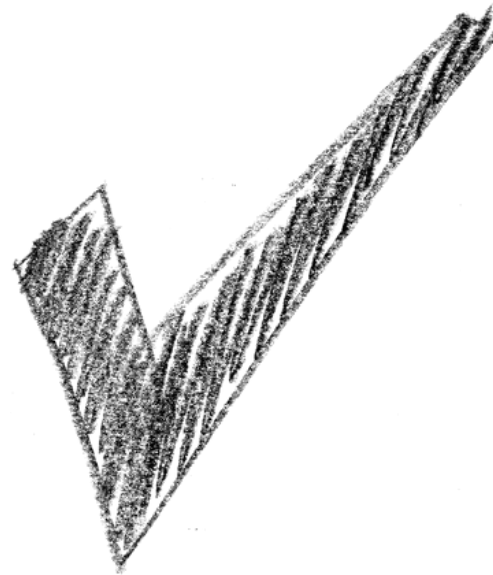
Activity in European and international standards committees





Principles

- Voluntary implementation
- Market relevance
- Consensus-based
- Involvement of all stakeholders from industry, academia and the community
- One vote per country
- Worldwide acceptance



DIN SPEC 92001 - Artificial intelligence - requirements for product quality and life cycle processes

- Developed in a DIN workshop not in a working committee
- Development and publication within just a few months
- Authors (person and organization) are mentioned in the document
- Transformation into another deliverable possible

www.din.de



Katharina Sehnert
Digital Technologies
Katharina.sehnert@din.de
T +49 30 2601-2507

DIN e. V.
Am DIN-Platz
Burggrafenstraße 6
10787 Berlin

Back-up

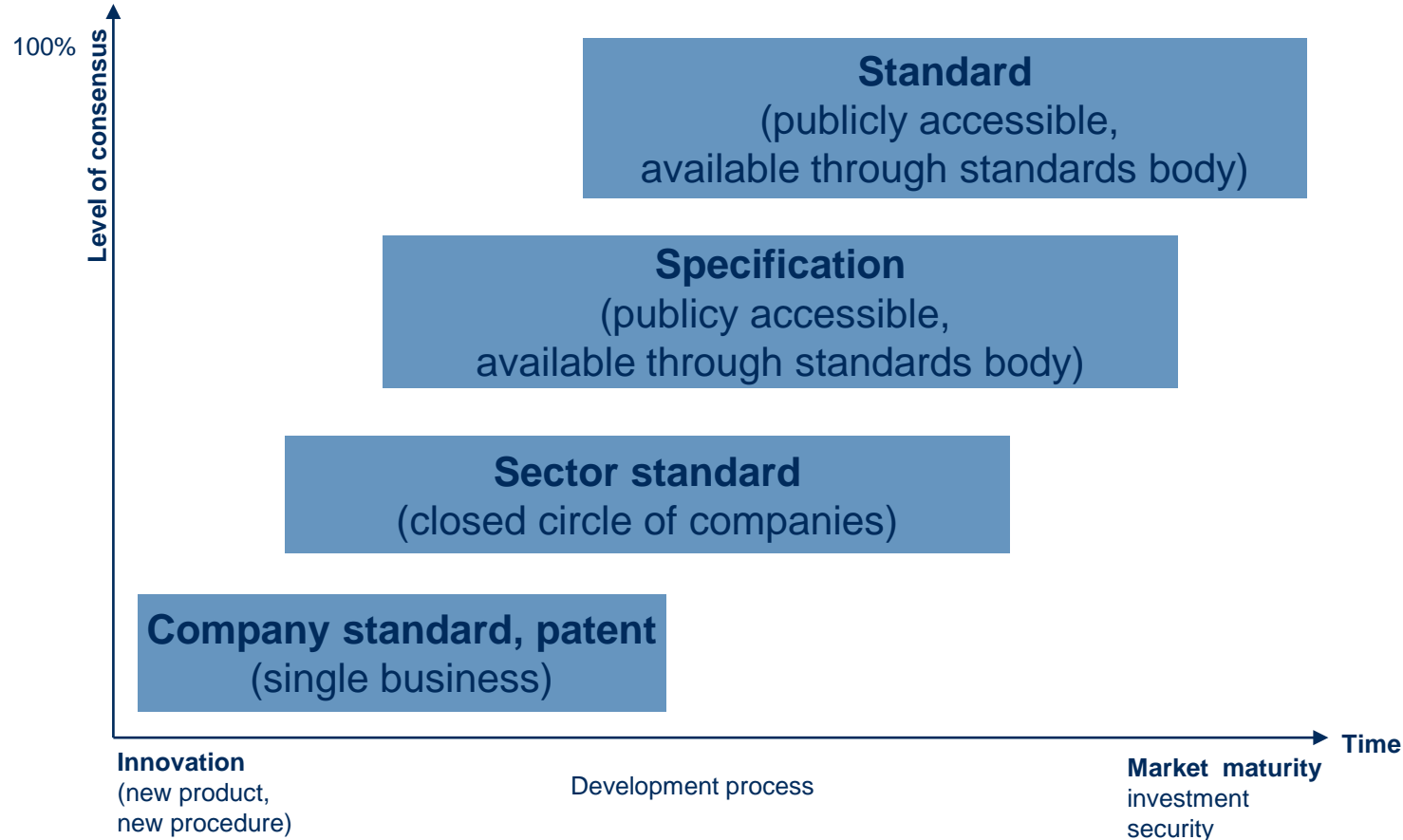
DIN

International Standardization Organizations

- Each country has one representative (usually the national standards body) in the relevant standards organization
- All statutory organs – such as general assembly, political and technical steering committees, and Technical Committees – are open to all members
- In the Technical Committees there are full members (P-members) and observer members (O-members)



Standards and technical rules



Objectives: International Standards for the global market ...

- ... provide a reference framework and a universal language for suppliers and customers
- ... facilitate trade and technology transfer
- ... ensure technical compatibility
- ... provide a scientific basis for legislation in the health, safety and environment sectors
- ... ensure that trade agreements can be successfully implemented
- ... are a source of technical know-how

Benefits of International Standards for businesses

- Access to global markets
- Access to strategic information on market development and technological innovations
- Access to strategic partnerships
- Access to important ways of
 - Cutting costs
 - Improving performance
 - Extending regional and international markets
 - Meeting certification and conformity assessment requirements

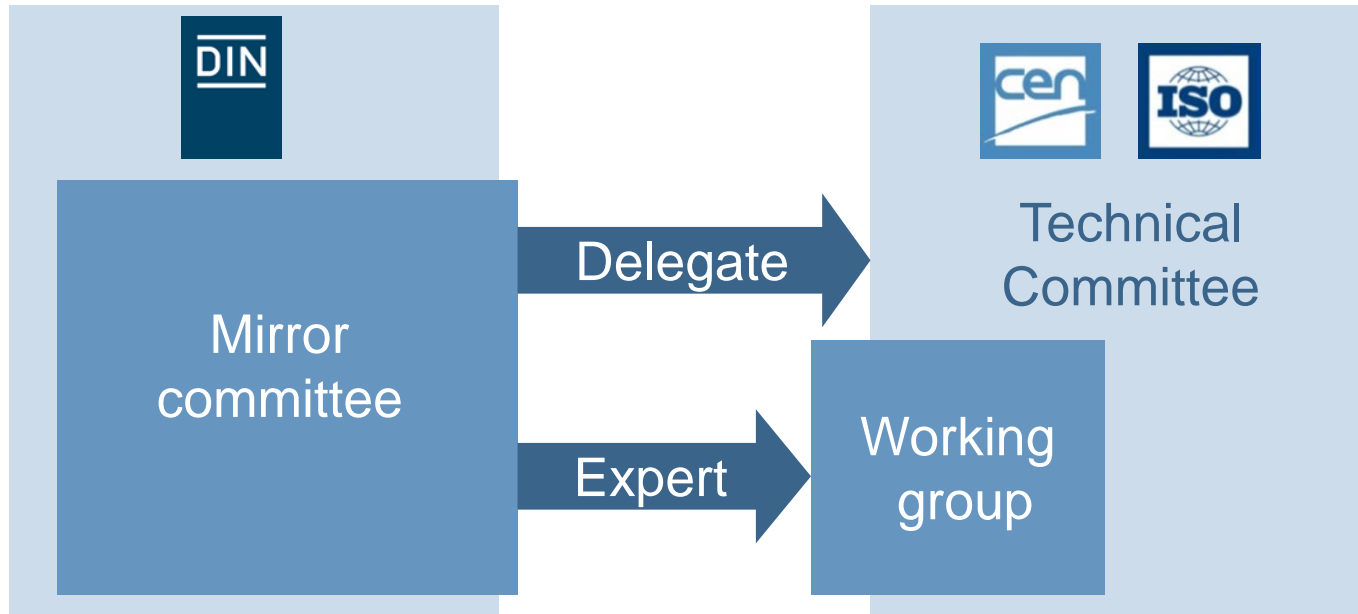


Principles

- Voluntary implementation
- Market relevance
- Consensus-based
- Involvement of all stakeholders from industry, academia and the community
- One vote per country
- Worldwide acceptance



Activity in European and international standards committees



International Standardization Organizations

ISO/IEC

- Each country has one representative (usually the national standards body) in the relevant standards organization
- All statutory organs – such as general assembly, political and technical steering committees, and Technical Committees – are open to all members
- In the Technical Committees there are full members (P-members) and observer members (O-members)

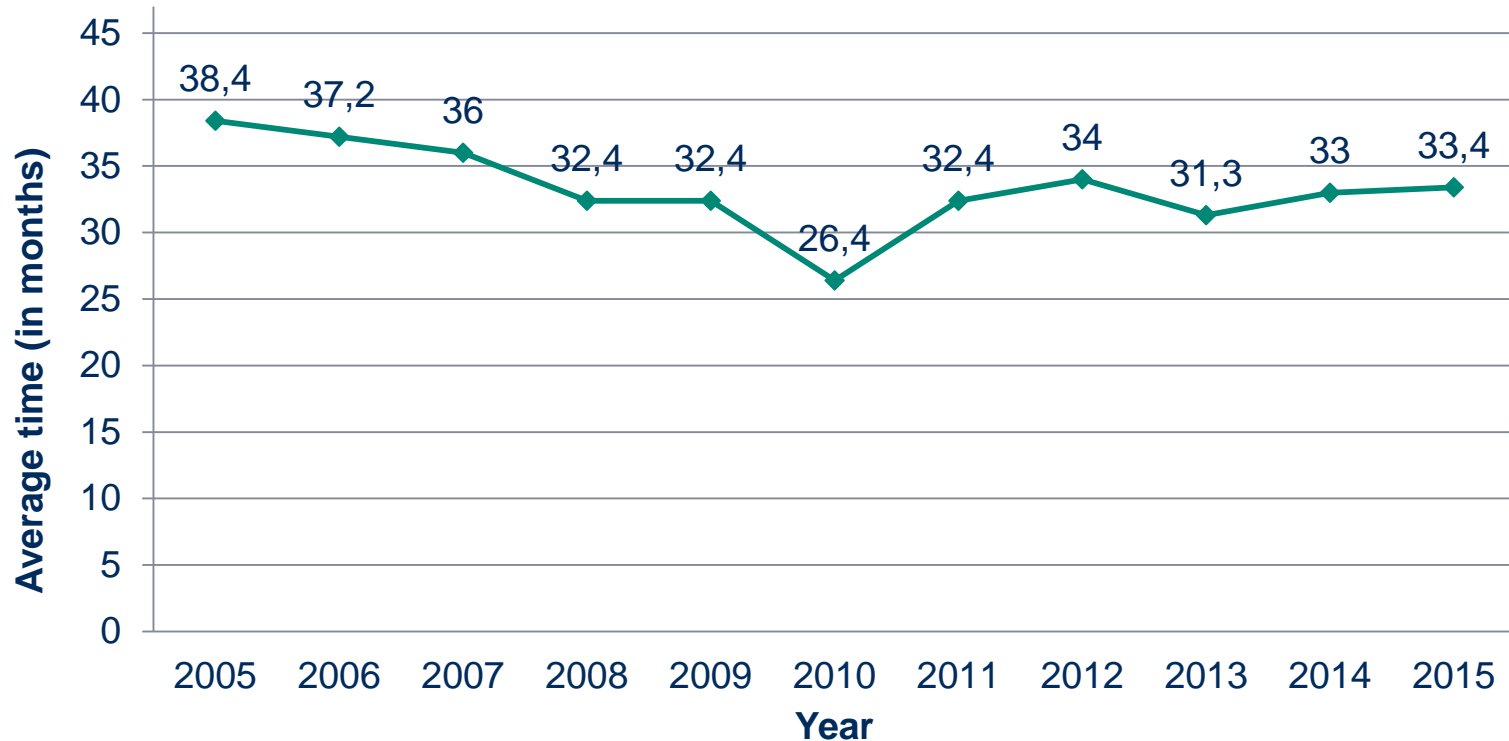


Development of an International Standard

Proposal Stage	From proposal (NP) to approval of a new standards project
Preparatory Stage	From approval of a standards project to adoption for registration as a committee draft
Committee Stage	From committee draft (CD, possibly several) to adoption for enquiry (draft international standard)
Enquiry Stage	From adoption for enquiry (Draft International Standard (DIS or CDV)) to approval of final draft
Approval Stage	From approval of final draft (FDIS) to adoption as International Standard
Publication Stage	From adoption as International Standard to publication as ISO, IEC oder ISO/IEC Standard

Development of an International Standard

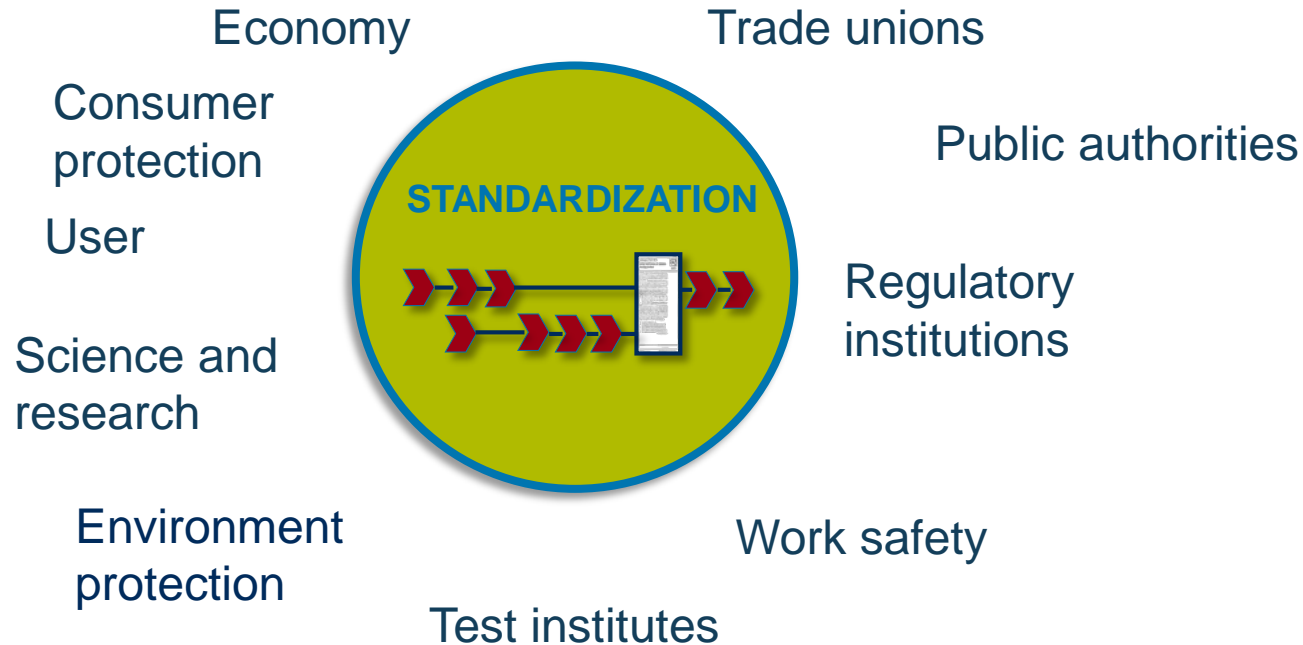
Average development time for International Standards 2005 - 2015





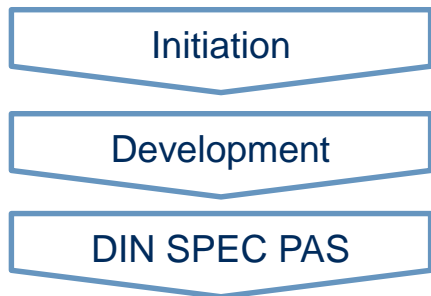
Standardization in joint responsibility

Democratic legitimation of standardization depends on the involvement of all stakeholders



Developing a DIN standard: Additional requirements

DIN SPEC (PAS)



systematic review after 3 years

Additional requirements for formal standards

- all stakeholders involved
- consensus
- publication of a draft

DIN standard



systematic review after 5 years