

R&D phase standardization fostering security technology and services

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Director Innovation

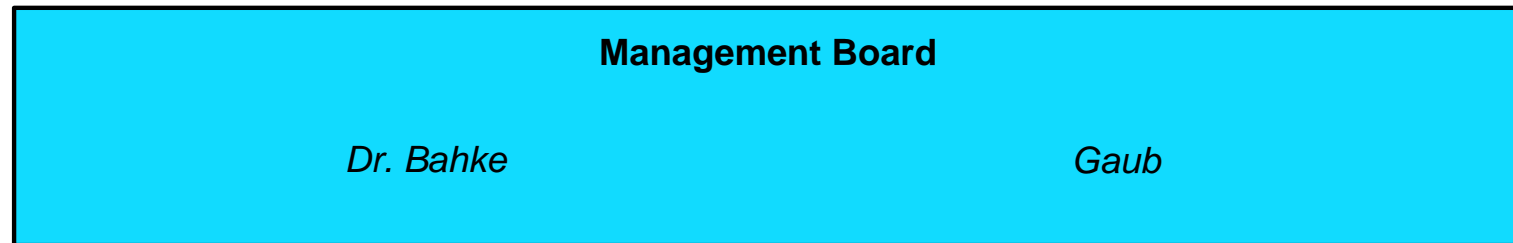
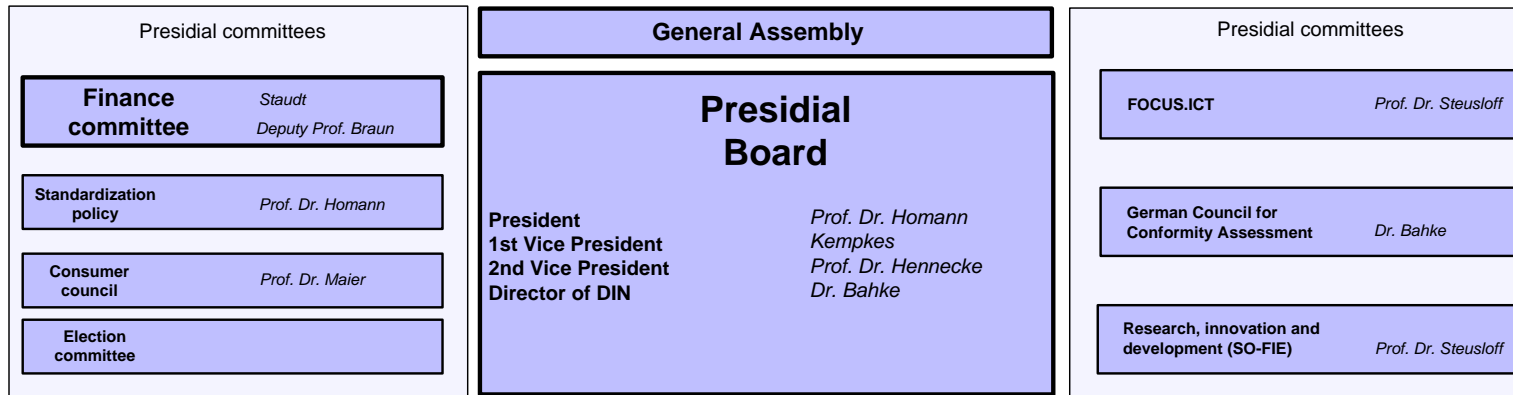


DIN is a registered non-profit association supported by the private sector.

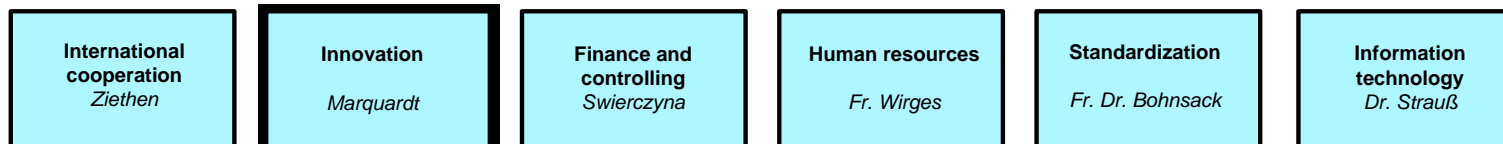
On the basis of a contractual agreement with the Federal Republic of Germany, DIN is the responsible German standards body in European and international standards work.

DIN employees	379
DIN members	1.796
External experts	28.628
DIN Standards (total)	32.189
Standards committees	71
Working committees	3.244
Budget	66 mil EUR

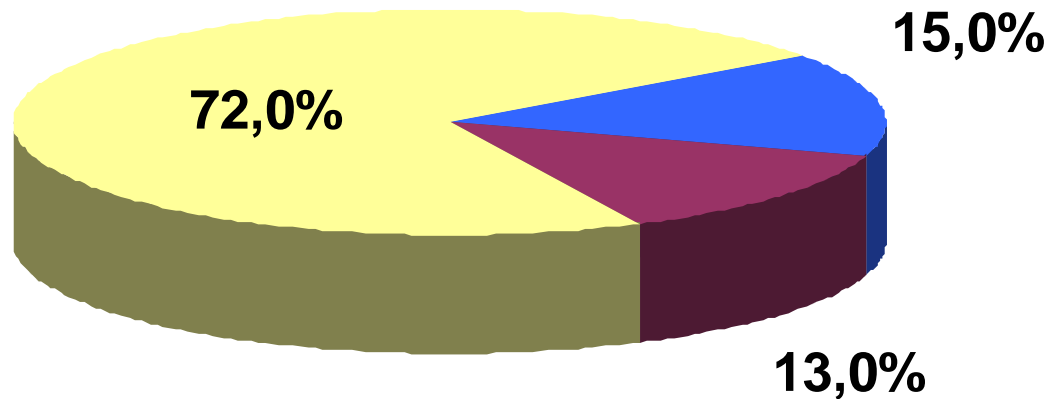
DIN e. V.



Divisions



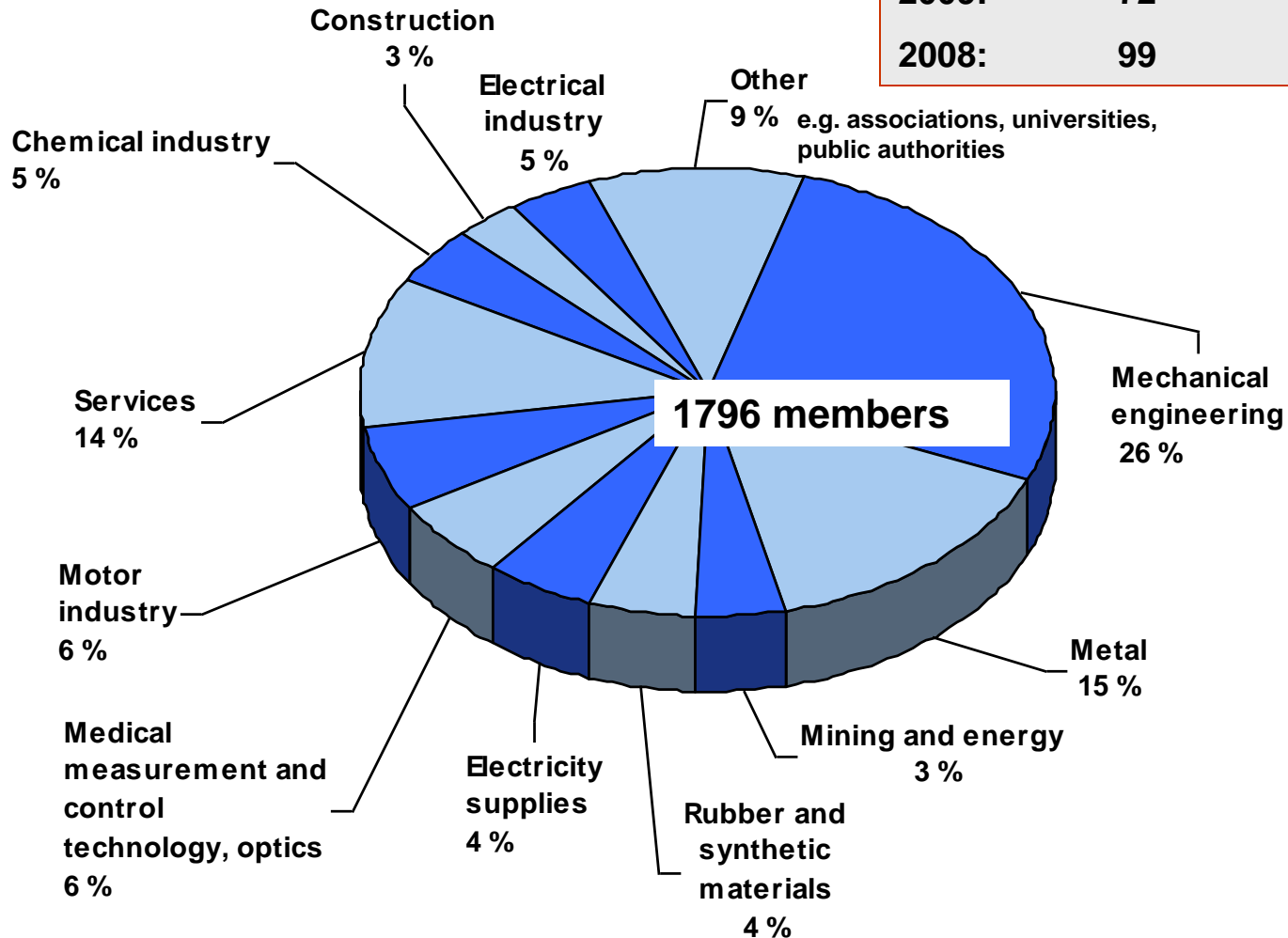
Breakdown of revenue sources (2009 in %)



DIN members

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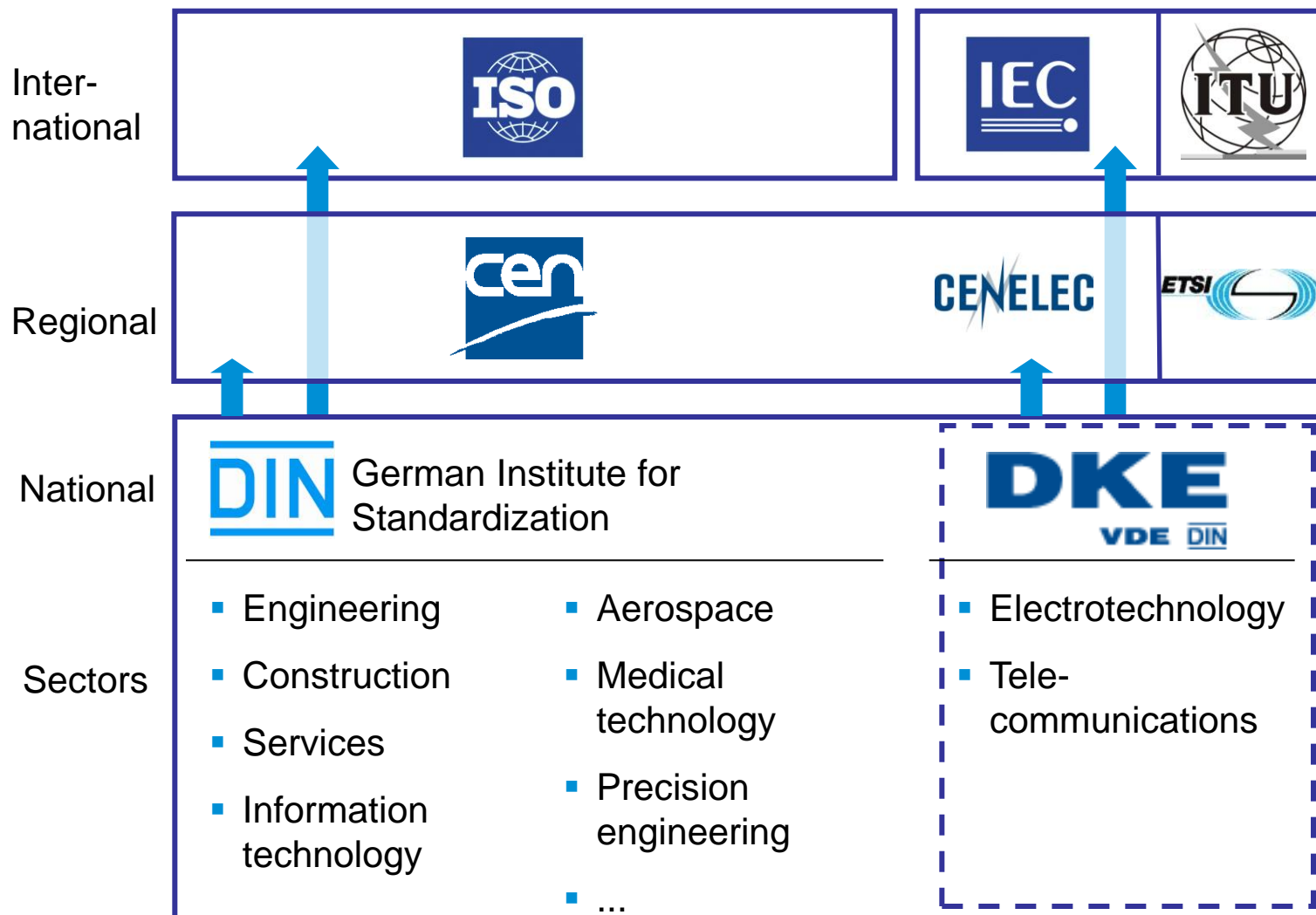
	New	Cancelled
2009:	72	48
2008:	99	38



- Involvement of all stakeholders, regardless of their economic strength or foreign language skills
- Promotion of free trade through active involvement in international and European standards work
- National adoption of international standards
- Uniform and consistent standards
- Avoiding duplication in standards work
- Compliance with legislation
- Active role in consensus-building

DIN represents German interests in international standards work

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- Traditional Role of Standards:
 - Source of technical know-how
 - Trade facilitation and technology transfer
 - Providing a scientific basis for legislation in the health, safety and environment sectors

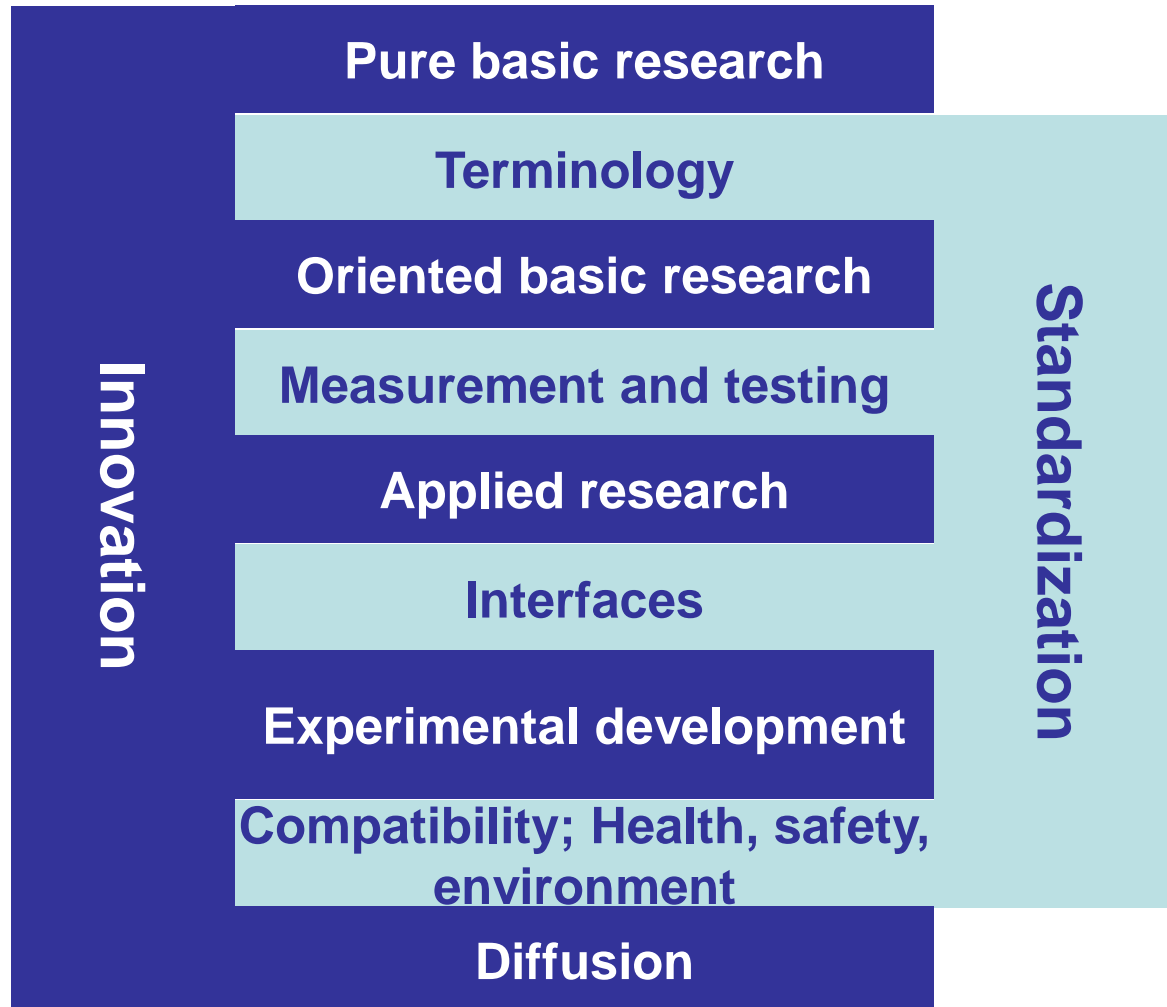
- Valued-added role for research and innovation:
 - Standards as the starting point for innovation
 - Speeding up innovation by providing the requisite knowledge base
 - Inclusion and exploitation of standardization in R&D processes as indicator of innovation
- ➔ New ideas, technologies and products need standardization to get into the marketplace and to be successful

Impact of standardization on the innovation process



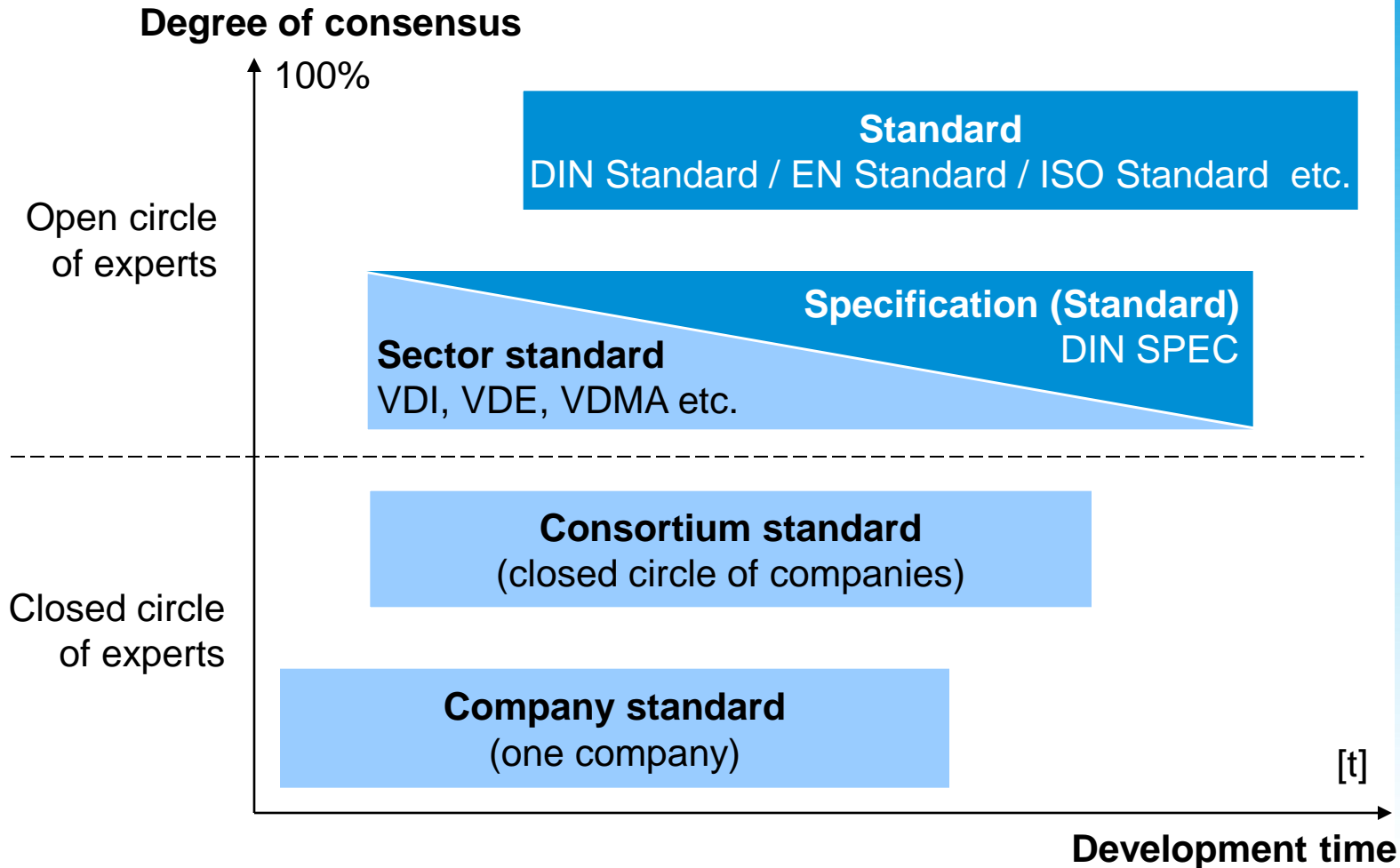
- Promotes **knowledge and technology transfer** of research findings into practice and on the market
- Helps disseminate and implement **innovative knowledge**
- Helps identify new areas of standardization early on and secures Germany's **pioneering role** in future technologies
- **Networks** relevant actors
- **Strengthens** and enhances the **global competitiveness** of the German economy

Different types of standard in the research and innovation process



Standards and specifications

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- Published by standards organizations
- Published by companies, associations, consortia etc.

- Addresses different standardization committees at international, European and national level
 - ISO and IEC, e. g. ISO Strategic Advisory Group “Security”
 - CEN, CENELEC and ETSI, e. g. CEN/TC 391 “Security of Citizens”; CEN/TC 379 “Supply Chain Security”
 - DIN, e. g.
 - Firefighting and Fire Protection Standards Committee
 - German Commission for Electrical, Electronic and Information Technologies of DIN and VDE
 - Medical Standards Committee
 - Food and Agricultural Products Standards Committee
- Publishing of guidance documents, standards and specifications primarily for products, measurement and testing

→ Harmonization of requirements needed

Committees:

IEC/SC 45b	“Radiation protection instrumentation”
ISO/TC 85	“Nuclear energy”
CENELEC/TC 45B	“Radiation protection instrumentation”

Standards:

- Monitoring for inadvertent movement and illicit trafficking of radioactive material (DIN ISO 22188)
- Radiation protection instrumentation (DIN EN 60325; DIN EN 61098; DIN EN 62022; DIN IEC 62402; DIN EN 62244; DIN EN 62327; DIN EN 60846; DIN IEC 61066; DIN EN 61526; DIN IEC 62387)

→ Mirroring of international work in national standardization bodies

CWA 16106 “PPE for Chemical, Biological, Radiological and Nuclear, (CBRN) Hazards”

- Protection of those initially and primarily involved with any CBRN incident, general guidance and codes of practice and requirements, testing, marking and certification of PPE

CWA 16107 “Emergency Services Capability Framework”

- Guidance for Emergency Service Management
 - Co-ordinated, effective and sustained response to major emergencies, providing acceptable levels of protection for both emergency responders and the citizen
-
- ➔ Already adopted in France, GB, Belgium, Norway, NL, Turkey
 - ➔ Minor awareness in Germany
 - ➔ Organization of active involvement in European and international standardization

- Certification and Standardization was underlined in the ESRIF report for security products
- ESRIA (European Security Research and Innovation Agenda) rises the demand for a **European Security Label**
 - common “seal of quality” for security equipment, capabilities and solutions
- **COM(2009)691** “A European Security Research and Innovation Agenda - Commission's initial position on ESRIF's key findings and recommendations“
 - Validation, standardization and certification of research results
 - Evaluating the applicability of a European Security Label



- Certification of detection, protection, and decontamination equipment, and medical countermeasures marketed for use against CBRNE
- Standardized calibration of equipment, shelf-life extensions and training
- Validation of identification of CBRNE
- Countermeasures (education, communication, recovery)
 - Early engagement of all stakeholders and transparency using standardization
 - Challenge of standardization processes and standards to organize the market
 - Opening political culture towards Europeanization

Thank you for your attention!

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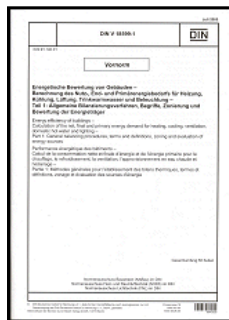
e-mail: ruediger.marquardt@din.de

The DIN SPEC standardization concept

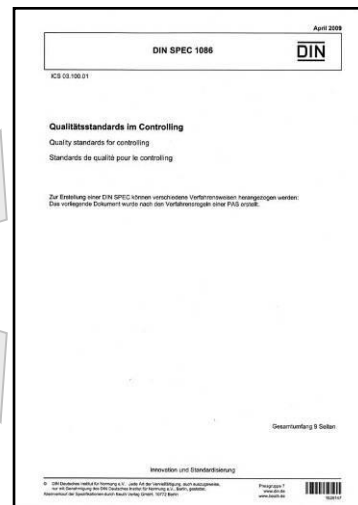
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As of April 2009 all documents which have not been developed on the basis of full consensus are designated and marketed as **"DIN SPEC"** (DIN Specifications). There are 4 different procedures for developing DIN SPECs.

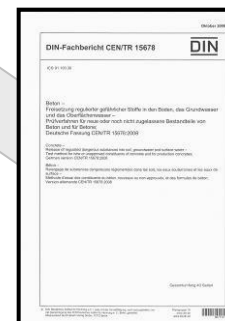
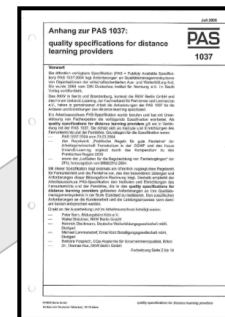
Pre-standard



DIN CWA



PAS



DIN Technical Report

www.spec.din.de