International Standardization

How standards support regulation

Christoph Winterhalter, DIN e.V.

Traveling the world: the ISO container

250 million

ISO standard freight containers travel the world each year.
ISO 668 is an excellent example of the impact of international standardization.
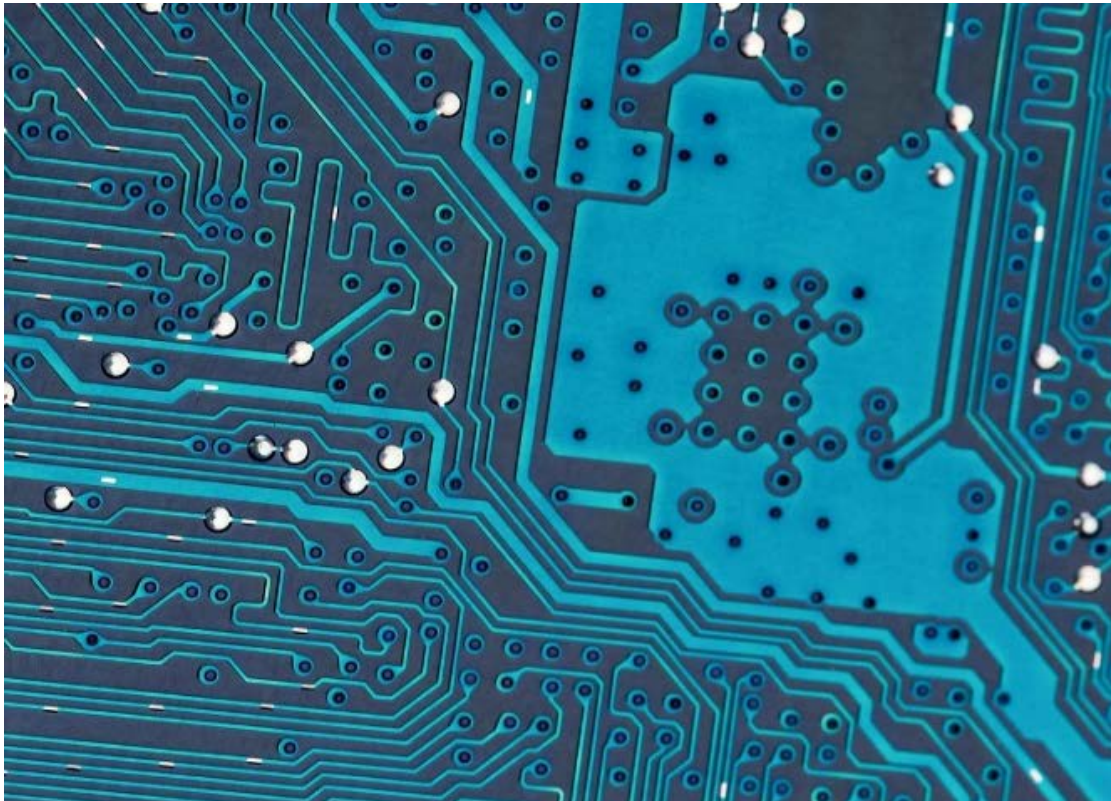
Made for business: DIN EN ISO 9001

The globally recognized standard for

Quality management

DIN EN ISO 9001 helps organizations improve their processes and ensures a high quality of products and services.

IT security for all
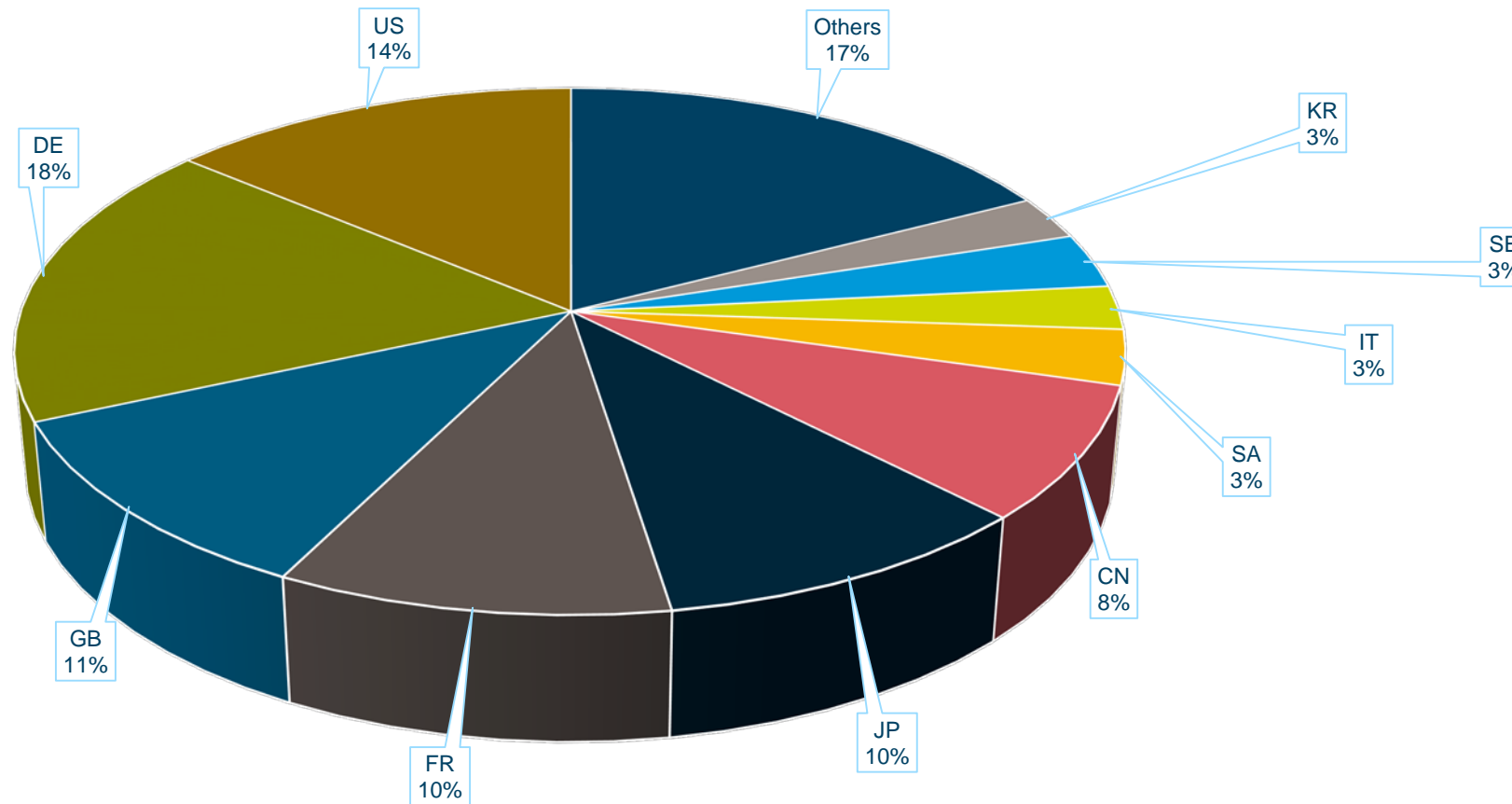

DIN EN ISO/IEC 27000

lays down standard terminology for IT security management systems and recommends security measures.

Principles of international standardization

- Market relevance
- Voluntary implementation
- Open to the public
- Broad participation
- Consensus-based
- One vote per country
- Worldwide acceptance

Distribution of responsibility in ISO Technical Committees/Sub Committees
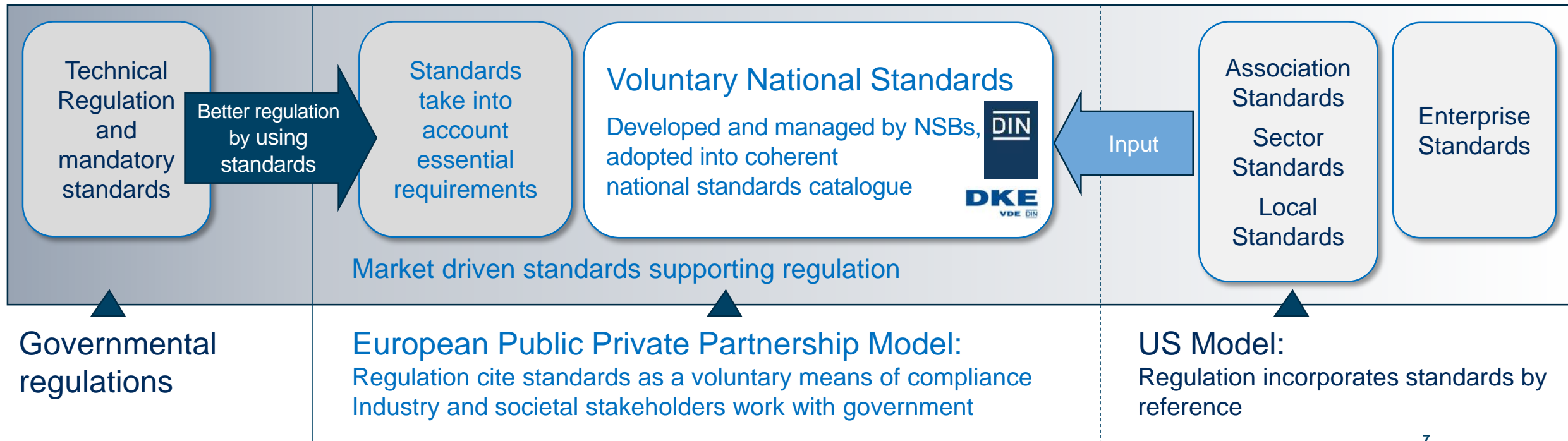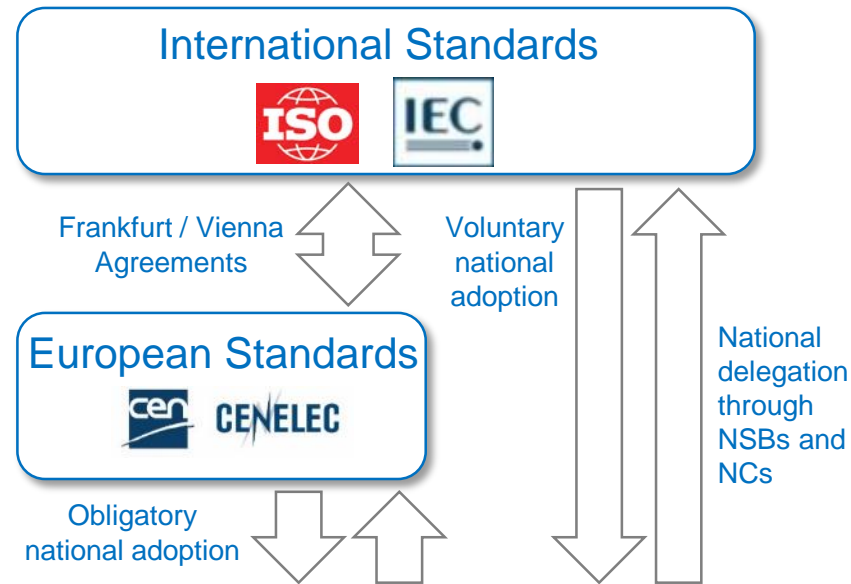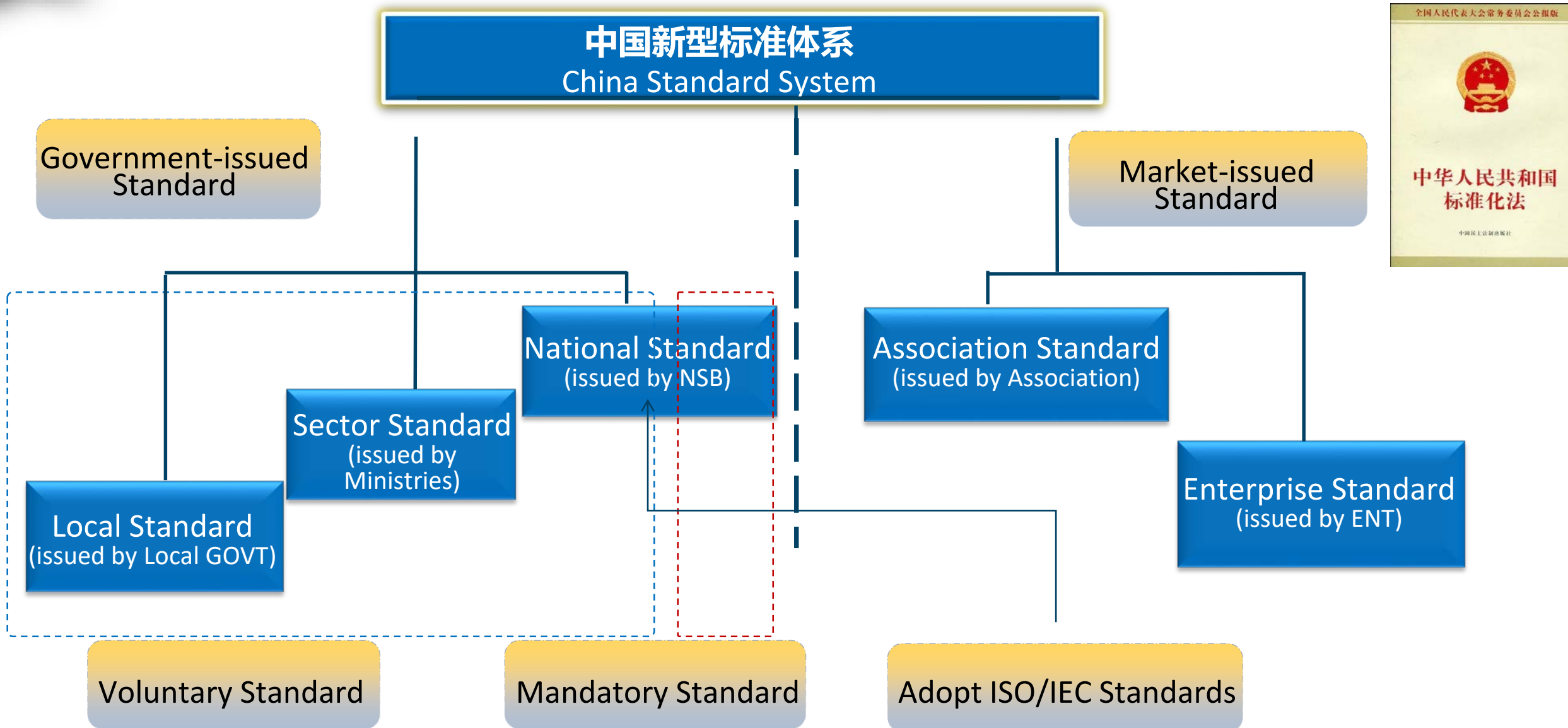

Ländercodes nach DIN EN ISO 3166-1

DE = Deutschland
US = Vereinigte Staaten
GB = Großbritannien
FR = Frankreich
JP = Japan
CN = China
AU = Australien
SE = Schweden
IT = Italien
KR = Korea

Stand: November 2018

Better regulation

Standards supporting regulation

International Standards
ISO IEC

Frankfurt / Vienna Agreements

Voluntary national adoption

National delegation through NSBs and NCs

European Standards
cen CENELEC

Obligatory national adoption

Technical Regulation and mandatory standards

Better regulation by using standards

Standards take into account essential requirements

Voluntary National Standards

Developed and managed by NSBs, adopted into coherent national standards catalogue

DIN

DKE VDE DIN

Input

Association Standards
Sector Standards
Local Standards

Enterprise Standards

Market driven standards supporting regulation

Governmental regulations

European Public Private Partnership Model:
Regulation cite standards as a voluntary means of compliance
Industry and societal stakeholders work with government

US Model:
Regulation incorporates standards by reference

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中国新型标准体系
China Standard System

Government-issued Standard

Market-issued Standard

National Standard
(issued by NSB)

Association Standard
(issued by Association)

Sector Standard
(issued by Ministries)

Enterprise Standard
(issued by ENT)

Local Standard
(issued by Local GOVT)

Voluntary Standard

Mandatory Standard

Adopt ISO/IEC Standards

TF China – Main Achievements

- Developed a common understanding on what China is doing and how they measure success, based on which a matrix was developed on how Europe should respond at different levels after carrying out a member survey

- Slides on Better Regulation developed and delivered to SAC in November 2018 during its Strategy 2035 event and synchronized and coordinated European message to the Chinese government

- Sector mappings (AI, Medical Devices, Cyber Security, Energy Efficiency) developed with SESEC input to understand and compare systems on both sides and introduced to SAC in 2019

- Direct participation of SESEC (including all Steering Committee partners) and better guidance to SESEC's work in return

- CEN-CENELEC 2019 Work Plans and Newsletters published in Chinese through cooperation with China Standardization Press in 2019

TF China – Next Steps

- Exchanges and Q&A (workshop) on European Standardization System, Shanghai in October 2019 with representatives from industry, EC, national governments

- Strategy Dialogue with SAC, Shanghai in October 2019

- Strong European representation in SAC's Foreign Advisors Forum
  - CEN-CENELEC-Elena Santiago Cid
  - DIN-Christoph Winterhalter
  - AFNOR-Olivier Peyrat
  - BSI-Scott Steedman
  - ASI-Elisabeth Stampfl-Blaha
  - ETSI-Luis Romero

- High-level participation from CEN-CENELEC (CENELEC President Dany Sturtewagen) to the SAC's 2035 Strategy event in Qingdao, October 2019

Recommendations to Chinese Government

- **Market driven voluntary national standards as key element**
  - Incorporate association standards, sector standards and fast track specifications to select single standard together with all stakeholders
  - Support innovation as an excellent vehicle for technology transfer

- **NSB manages consistent national standards catalogue**
  - Single standard model ensures „One standard used everywhere"
  - Prioritize identical adoptions from ISO and IEC
  - Requires mechanism to manage conflicts, to withdraw conflicting standards and to set transition periods

- **Market driven standards support regulation in Public Private Partnership**
  - Regulation sets essential legal requirements
  - Standards translate legal requirements into technical solutions and allow the regulator to quickly respond to technical progress

Recommendations to EU Policy Makers

- Identify standardization as an important element of trade policy and industrial strategy
  - Devising an EU standardization strategy should be allocated to a high political level
  - While at the same time honoring the bottom-up, industry-led nature of standardization

- Facilitate the alignment of European standards with international standards
  - Any policy decisions and changes in the development process of harmonized European standards should be checked for easy technical cooperation with the international level

- Use international standards of ISO and IEC in FTA
  - International standards of ISO and IEC are widely used by European businesses, are aligned with European standards and are best suited to eliminate technical barriers to trade

- Continue to use market driven standards support regulation in the Public Private Partnership
  - Regulation sets essential legal requirements
  - Standards translate legal requirements into technical solutions and allow the regulator to quickly respond to technical progress

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