

WE WILL START AT 10:00 AM (CET)

SESEC V Webinar

Chinese Standardization System: Who's Who?

You are ***muted***

Use the ***Q&A or Chat Panel*** to submit your questions

Keep your questions ***short and concise***

Contact us: assistant@seseec.eu

Welcome to our website: <https://seseec.eu/>



Seconded European Standardization Expert in China (SESEC) Project

SESEC INTRODUCTION

Partners and Role



SESEC is a visibility project co-financed by five European partners

SESEC Partners

- **European Commission (EC)**-The executive body of the European Union; Responsible for proposing legislation, implementing decisions, upholding the treaties and day-to-day management of the EU; DG Grow is the main partner (80%)
- **European Free Trade Association (EFTA)**-Iceland, Liechtenstein, Norway and Switzerland; Intergovernmental organisation set up for the promotion of free trade and economic integration to the benefit of its four Member States; None EU members;
- **CEN**-European Committee for Standardization
- **CENELEC**-European Committee for Electrotechnical Standardization
- **ETSI**-European Telecommunications Standards Institute



SESEC INTRODUCTION

A Project co-funded by EC, EFTA, CEN CENELEC & ETSI

- ❖ **Promote** European and International standards in China
- ❖ **Improve** contacts between Project Partners and different levels of the Chinese administration, industry and standardization bodies
- ❖ **Enhance** visibility and understanding of the European Standardization System (ESS) in China.
- ❖ **Gather** regulatory and standardization intelligence
- ❖ **Undertake** technical lobbying



Goals

- The SESEC initiative supports **EC policy** and **ESOs strategic objectives** in China.
- Our ultimate goal is the enhancement of **EU-China dialogue and cooperation** in the field of standardization.
- It is notably expected to support the Framework Cooperation Agreement in place **between the ESOs and SAC**.

SESEC Project's Priorities in 2025

Priorities of SESEC

Horizontal:

- Horizontal Chinese Industry Policies on Digitalization and Green Transition
- China Standards 2035 / China Standardization Strategy
- Standardization in Belt and Road Initiative
- China Standardization Reform
- Institutional Changes in Chinese Government relevant to standardization
- Market Access (e.g CCC)

Digital Transition

- IT and CT in General
- Data
- Artificial Intelligence
- Quantum
- Industrial IoT
- 5G/6G

Green Transition:

- Energy Efficiency
- China RoHS
- Green Product Assessment
- Decarbonization
- New Energy
- Recycling

A futuristic blue robotic arm is shown holding a large, dark blue gear. The gear has a grid of circular holes in its center. The background is a light blue gradient. The text "Who is Who in Chinese Standardization System" is overlaid on the left side of the image.

Who is Who in Chinese Standardization System

18 February 2025

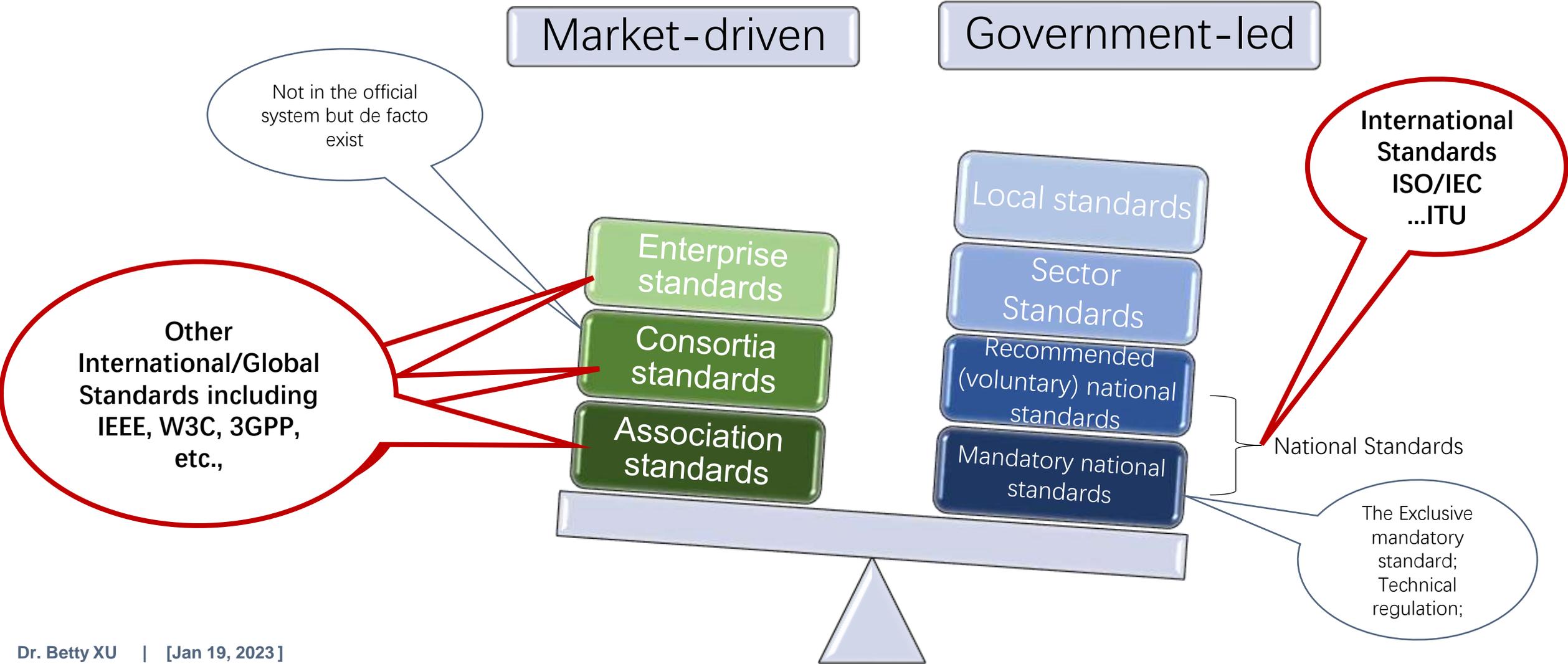
Content

- Overview of Chinese Standards
- Key Players in Developing Chinese Standards
- China's Government-Led Standards Setting System
- Key Players in Market-driven Standards Setting System
- Engagement in Chinese Standardization



China Standardization System

5 levels – National Standards, Sector Standards, Local Standards, Association Standards, and Enterprises Standards



Distinguish Different Standard Types

Rules for Standard Coding and Numbering

National Standards: GB XX XXX-YYYY (GB 23784-2007)
GB/T XXXXX-YYYY (GB/T 10023-2007)
GB/Z XXXXX-YY (Technical Report)

Sector Standards: NN XXXX-YYYY
NN/T XXXX-YYYY

* 74 kinds of Sector Standards! (YY/T, SJ/T, YD/T,)

Local Standards: DBXX / XXX-YYYY
DBXX/T XXX-YYYY

Enterprise Standards: Q/XXX XXXX-YY

National Certified Reference Material: GSB X-XX-XXX-YYYY



Codes of Sector Standards



Code of Chinese Standards: 74

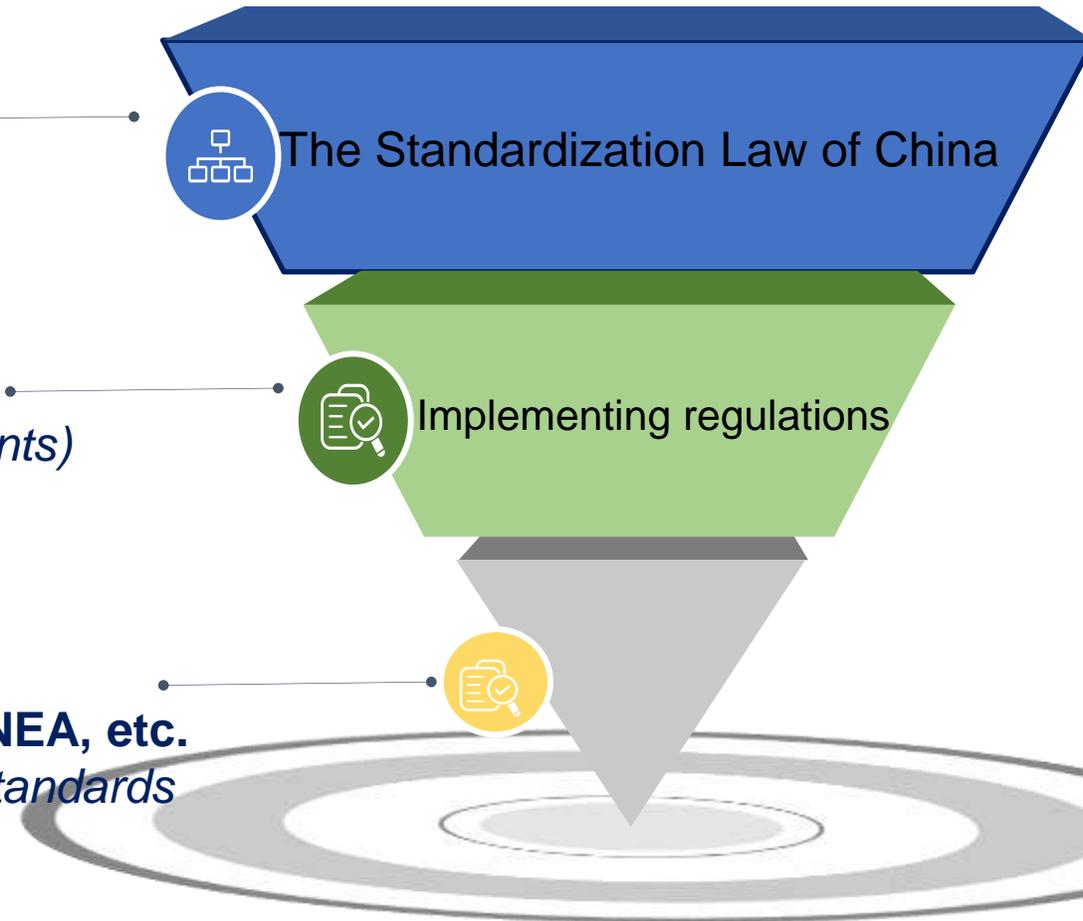
NO.	Code	Content
1	AQ	Workplace Safety
2	BB	Packging
3	CB	Ship
4	CH	Surveying
5	CJ	Urban construction
6	CY	Press and publication
7	DA	Archives
8	DB	Earthquake
9	DL	Power
10	DZ	Geology mineral
11	EJ	Nuclear industry
12	FZ	Textiles
13	GA	Public security
14	GH	Supply and marketing
15	GM	National password
16	GY	Radio, film & TV
17	HB	Aviation
18	HG	Chemical industry
19	HJ	Environment protection
20	HS	Customs
21	HY	Ocean
22	JB	Machinery
23	JC	Building materials
24	JG	Construction industry
25	JR	Finance
26	JT	Communication
27	JY	Education
28	LB	Tourism
29	LD	Labor and labor safety
30	LS	Food

NO.	Code	Content
31	LY	Forestry
32	MH	Civil aviation
33	MT	Coal
34	MZ	Civil affairs
35	NB	Energy
36	NY	Agriculture
37	QB	Light industry
38	QC	Automobile
39	QJ	Aerospace
40	QX	Atmosphere
41	RB	Certification and accreditation
42	SB	Domestic Trade
43	SC	Aquatic product
44	SF	Judiciary
45	SH	Petrochemical
46	SJ	Electronics
47	SL	Water Conservancy
48	SN	Entry-exit inspection and quarantine
49	SW	Tax administration
50	SY	Petroleum and gas
51	TB	Railage
52	TD	Land administration
53	TY	Sports
54	WB	Materials Management
55	WH	Culture
56	WJ	Civilian goods
57	WM	Foreign Trade
58	WS	Sanitary
59	WW	Heritage Conservation
60	XB	Rare earth
61	YB	Ferrous metallurgy
62	YC	Tobacco
63	YD	Communication
64	YS	Nonferrous metals
65	YY	Medicine
66	YZ	Post service
67	ZY	Traditional Chinese medicine

Standardization System in China —Legal framework

- **Provide framework for China's standardization work**
- **Define basic elements of standardization work**

- **Standardization authority – SAC**
 - Administrative measures for mandatory national standards*
 - Administrative measures for national standards*
 - Administrative measures for Sector standards (draft for comments)*
 - Administrative measures for local standards*
 - Administrative measures for association standards*
 - Administrative measures for enterprise standardization*
 - ...
- **Administrative authority in different sectors – like MIIT, MoT, NEA, etc.**
 - MIIT:** *Administrative measures for the development of sector standards in industry and information technology*
 - MOT:** *Administrative measures for standardization in transport sector*
 - NEA:** *Administration measures for sector standards in energy industry*
 - ...



Key Players in Developing Chinese Standards

Standardization Authority: SAC

- Organize the implementation of national laws, regulations, and policies on standardization.
- **Organize the development of national standardization plans and programs.**
- **Organize the development of national standards.**
- Guide and coordinate standardization work at national and regional levels.
- Oversee standards implementation and compliance.
- Supervise and inspect standards enforcement.
- Handle international standardization relations.

Industry Authorities, e.g. MIIT, MoHURD

- Implement national standardization policies and **set industry-specific measures.**
- **Develop standardization plans for the department and industry.**
- Draft national standards as assigned by the state
- **Organize the development of sector standards.**
- Guide regional standardization efforts.
- Implement standards in the department and industry.
- Supervise and inspect standards implementation.

Local Standardization Authorities

- Implement national standardization policies and set local measures.
- Develop local standardization plans.
- **Organize the Development of local standards.**
- Guide and coordinate local standardization efforts.
- Implement standards in the region.
- Supervise and inspect standards enforcement.

Standards Development Organizations (SDOs)

- **Vary in type**, can be standardization institutes, industry associations, research institutions, or even state-owned enterprises.
- **Host the secretariats of TC/SC/WGs for national, sector, or association standards.**
- **Formulate standards.**

Industry

- Participate in standards setting via TC/SC/WGs hosted by SDOs

Responsibilities and Roles of Key Players

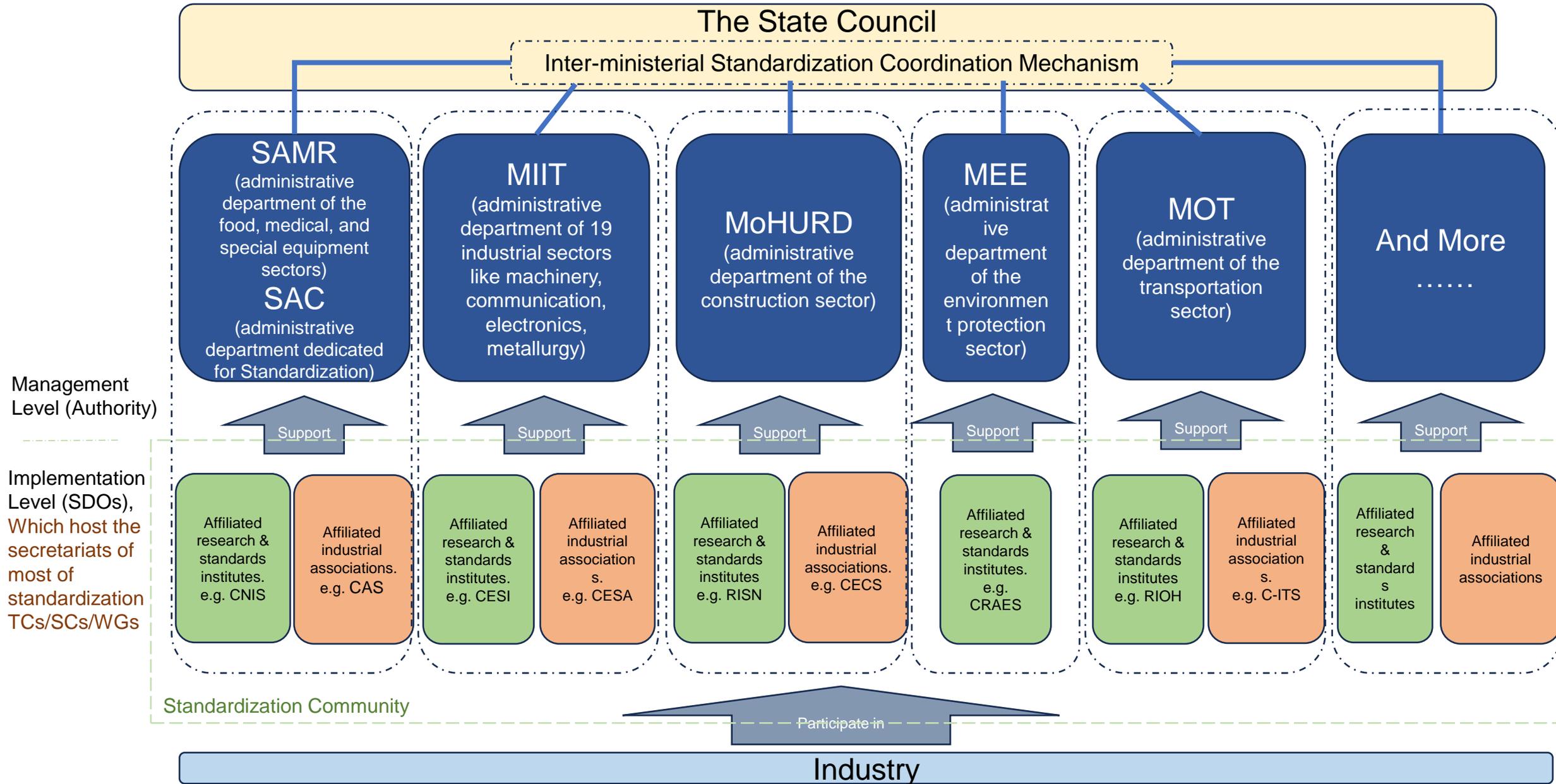
	SAC	Industry Authority	Local Standardization Authority	SDOs/TCs	Industry (Enterprises)
Mandatory National Standards	New item approval; Numbering; WTO/TBT notification; Generally authorized by the State Council to approve and release the standards	Propose new items; Organize their drafting, call for comments, and technical review		May be authorized by industry authority to draft, technically review the standards (via national TC/SC/WGs it hosts)	Can send members
Voluntary National Standards	Plan; Organize to draft; Approve; Number; Publish the standards (Except for engineering construction, pharmaceuticals, food hygiene, veterinary drugs, and environmental protection.)	Standards for engineering construction, pharmaceuticals, food hygiene, veterinary drugs, and environmental protection are drafted and approved by the respective ministries, with numbering and publication methods set jointly by them and SAC		Draft, Call for comments on, Technically review the standards (via national TC/SC/WGs it hosts)	Participate in the standards
Sector Standards		Plan; Organize to draft; Approve; Number; Publish the standards; Notify the standards to SAC		Draft, Call for comments on, Technically review the standards (via national or sector TC/SC/WGs it hosts)	Participate in the standards
Local Standards			Plan; Organize to draft; Approve; Number; Publish the standards; File them to SAC	Draft, Call for comments on, Technically review the standards (via local TC/SC/WGs it hosts)	Participate in the standards
Association Standards	Jointly regulate, guide, and oversee the standardization with industry authorities	Jointly regulate, guide, and oversee the standardization with SAC		Plan; Draft; Approve; Number; Publish the standards; Make self-declaration on SAC Platform	Participate in the standards
Enterprise Standards					Plan; Draft; Approve; Number; Publish the standards; File them to authority

Abbreviations of Some Key Players

Acronym	Full Name
SAMR	State Administration for Market Regulation
SAC	Standardization Administration of China
MIIT	Ministry of Industry and Information Technology
MOT	Ministry of Transport
CAC	Cyberspace Administration of China
MoHURD	Ministry of Housing and Urban-Rural Development
MEE	Ministry of Ecology and Environment
MEM	Ministry of Emergency Management
NEA	National Energy Administration
NRA	National Railway Administration
NDA	National Data Administration
CNIS	China National Institute of Standardization
CAS	China Association for Standardization
CMDSA	Center for Medical Device Standardization Administration
CSEI	China Special Equipment Inspection & Research Institute

Acronym	Full Name
CCSA	China Communication Standards Association
CESI	China Electronics Standardization Institute
CESA	China Electronics Standardization Association
CAICT	China Academy of Information and Communications Technology
CATARC	China Automotive Technology and Research Center
CMIF	China Machinery Industry Federation
CEEIA	China Electrical Equipment Industry Association
ITEI	Instrumentation Technology and Economy Institute
CEC	China Electricity Council
RIOH	Research Institute of Highway of MOT
CCRCGC	CCRC Zhouzhou Institute
CRAES	Chinese Research Academy of Environmental Sciences
RISN	Research Institute of Standards and Norms of MoHURD
CECS	China Association for Engineering Construction Standardization

China's Govt-Led Standards Setting System



Standardization System in China

– Who is doing what

Government-led standardization

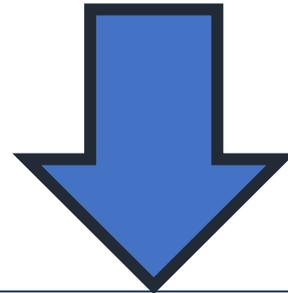


TCs/SCs/WGs

- Develop standards
- Usually located in institutions under ministries
- Most of them are also making sector standards

SAC

- Manage national standardization work
- Project approval, numbering, WTO/TBT notification of mandatory national standards
- Develop voluntary national standards
- Filing sector standards and local standards
- Develop rules for numbering standards



Sector/Industry Administrative Authorities - MIIT, MoT, RAILWAY, MOHURD

- Manage national standardization work
- Project approval, numbering, WTO/TBT notification of mandatory national standards
- Develop voluntary national standards
- Filing sector standards and local standards
- Develop rules for numbering standards

Key SDOs in SAMR/SAC's Working System

The Standardization Administration of China (SAC)

- **China National Institute of Standardization** ([CNIS](#))
 - Main supporter of China's standardization strategy and policies
 - Secretariats of 55 national TC/SC/SWGs, Chinese Mirror Committees of 33 ISO TC/PCs
- **China Association for Standardization** ([CAS](#))
 - An industrial group comprising 1600+ organization members and 1600+ individual members.
 - Host 5 secretariats of national TCs, secretariats of PASC, Northeast Asia Standardization Cooperation Forum, and the Chinese National Platform on VSS, and is a member and Board of Director of IFAN

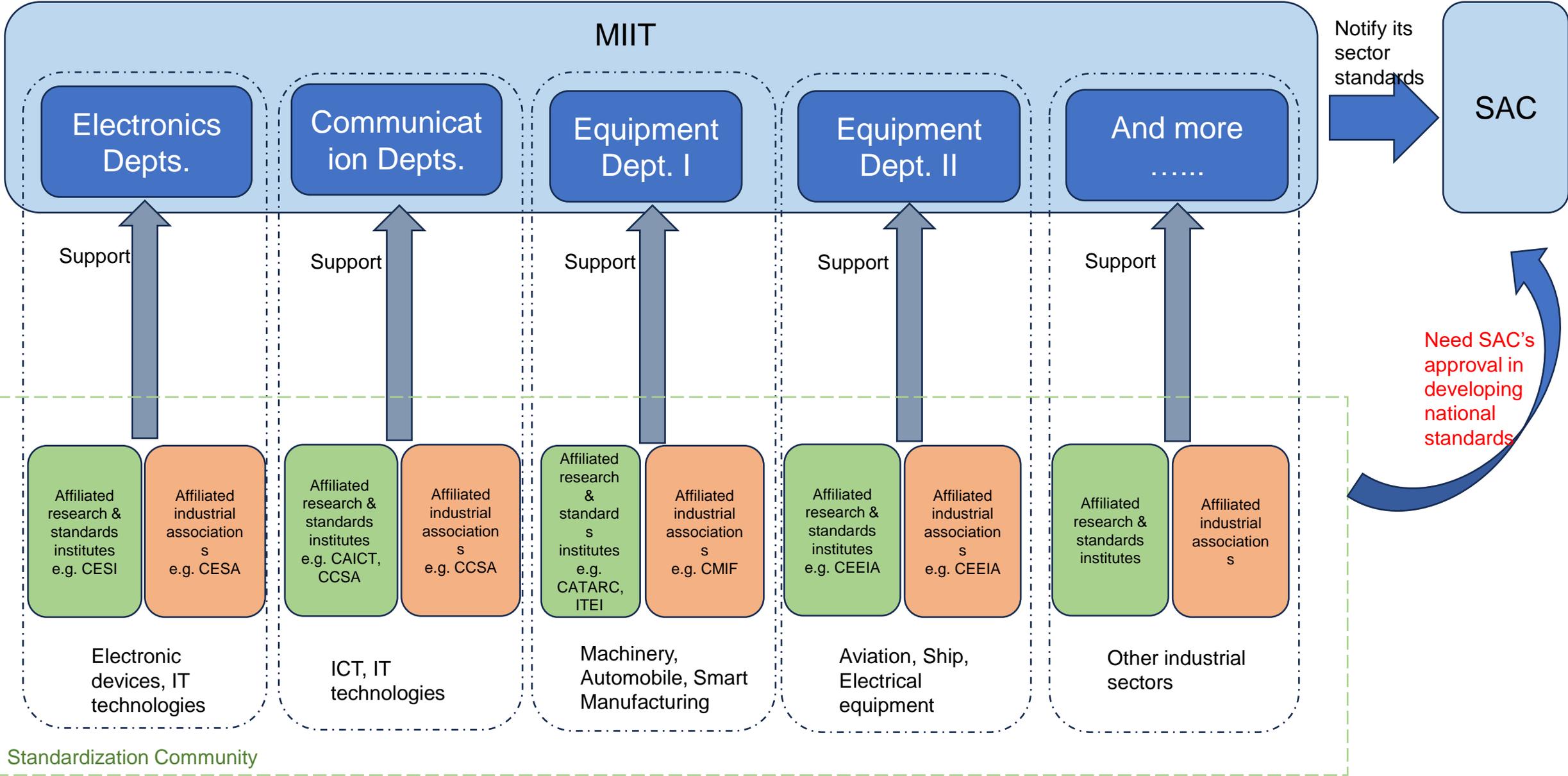
The National Medical Products Administration (NMPA):

- **Center for Medical Device Standardization Administration** ([CMDSA](#))
 - Main Developer of national and sector standards for medical devices

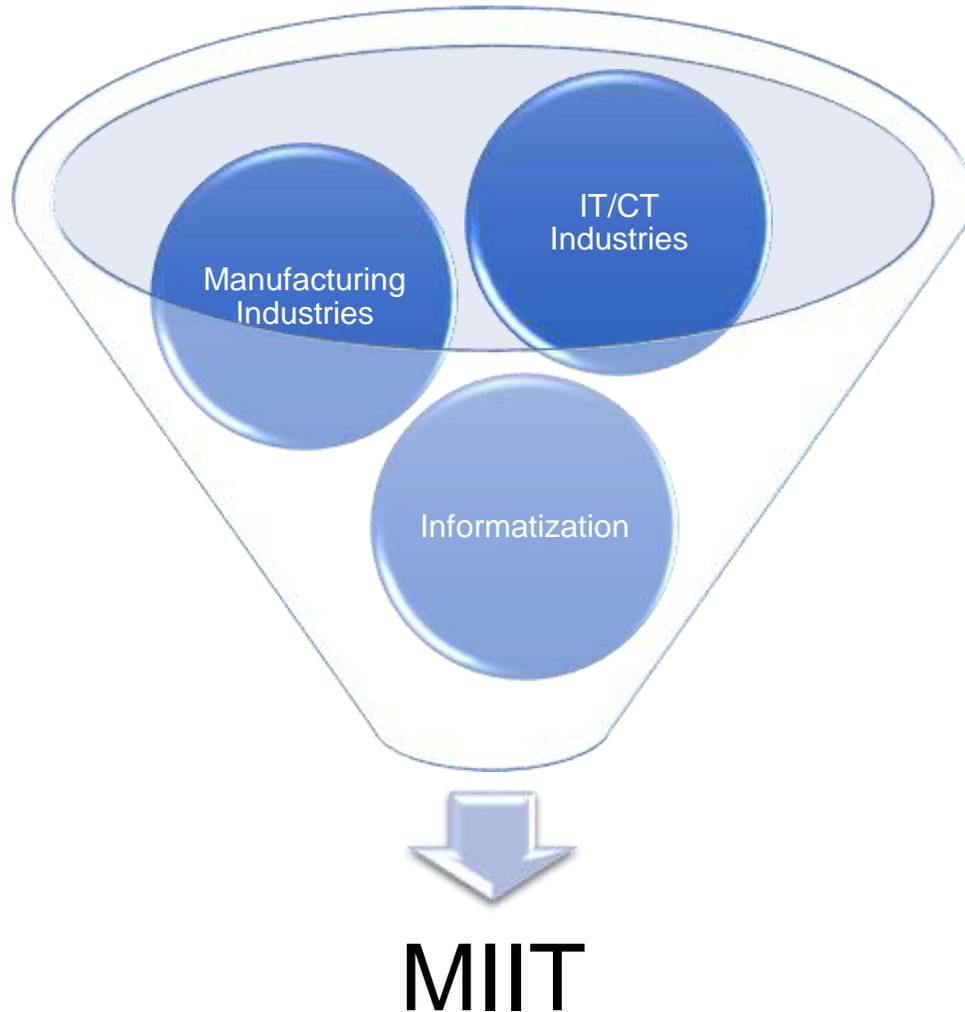
The Special Equipment Safety Supervision Bureau

- **China Special Equipment Inspection & Research Institute** ([CSEI](#))
 - Main developer of special equipment standards

MIIT's Working System (Sector Standards)



MIIT's Standardization-Related Responsibilities



Oversees
Vertical
Industries

- **Chemical Industry**
- **Gold**
- **Automobile**
- **Textile**
- **Nuclear Industry**
- **Petrochemical**
- **Building Materials**
- **Shipbuilding**
- **Packaging**
- **Electronics**
- **Metallurgy**
- **Rare Earth**
- **Aviation**
- **Aerospace**
- **Telecommunications**
- **Non-Ferrous Metals**
- **Machinery**
- **Light Industry**
- **Military and Defense Products**

As of February 2025, a total of 39,772 sector standards across these industries remain in effect.

Key SDOs in MIIT's Standards Working System



China Electronics Standardization Institute ([CESI](#))

- Develop standards for electronics industry, putting more effort in IT technologies in recent years
- Secretariats of 40 national TC/SCs, Chinese Mirror Committees of 59 ISO/IEC TC/SCs



China Communication Standards Association ([CCSA](#))

- Develop standards for communications industry, particularly cellular mobile communication
- Secretariats of 2 national TCs, sole developer of sector standards for mobile communication, one of seven 3GPP partners



Instrumentation Technology and Economy Institute ([ITEI](#))

- Develop standards for industrial automation, smart manufacturing, industrial AI, industrial internet, etc.
- Secretariats of 4 national TCs.



China Automotive Technology and Research Center ([CATARC](#))

- Develop standards for automobile and related products
- Secretariat of SAC/TC114 for automobile



China Machinery Industry Federation ([CMIF](#))

- Former authority in the machinery sector
- Manage standards in machinery sector on behalf of MIIT



China Electrical Equipment Industry Association ([CEEIA](#))

- Develop standards for power generation equipment, transmission and transformation equipment, distribution equipment, electrical equipment, basic components and materials.
- Secretariats of 9 national TCs
- Also support NEA

Other Key Authorities Related to Standardization

No.	Authorities	Relation with standardization
1	Cyberspace Administration of China (CAC)	cyber and data security standards
2	The Ministry of Ecology and Environment (MEE)	environment standards, like those for vehicle emission control
3	The Ministry of Housing and Urban-Rural Development (MoHURD)	construction products
4	The Ministry of Transport (MOT) <ul style="list-style-type: none">• National Railway Administration (NRA)• Civil Aviation Administration (CAAC)	Transportation standards like those for ITS system, railway equipment, civil aircraft
5	The National Energy Administration (NEA)	Energy standards, like those for new energy
6	The Ministry of Emergency Management (MEM)	Disaster prevention standards, like those for personal protection, fire-fighting equipment.
7	The National Data Administration (NDA)	Data circulation standards
	And more.....	

Some Key SDOs in Other Authorities' Working System



China Electricity Council
([CEC](#)),
Mainly supporting NEA



Research Institute of Highway
of MOT ([RIOH](#)),
Mainly Supporting MOT



CCRC Zhouzhou Institute
([CCRCGC](#)),
Mainly Supporting NRA



Chinese Research Academy
of Environmental Sciences
([CRAES](#)),
Mainly Supporting MEE

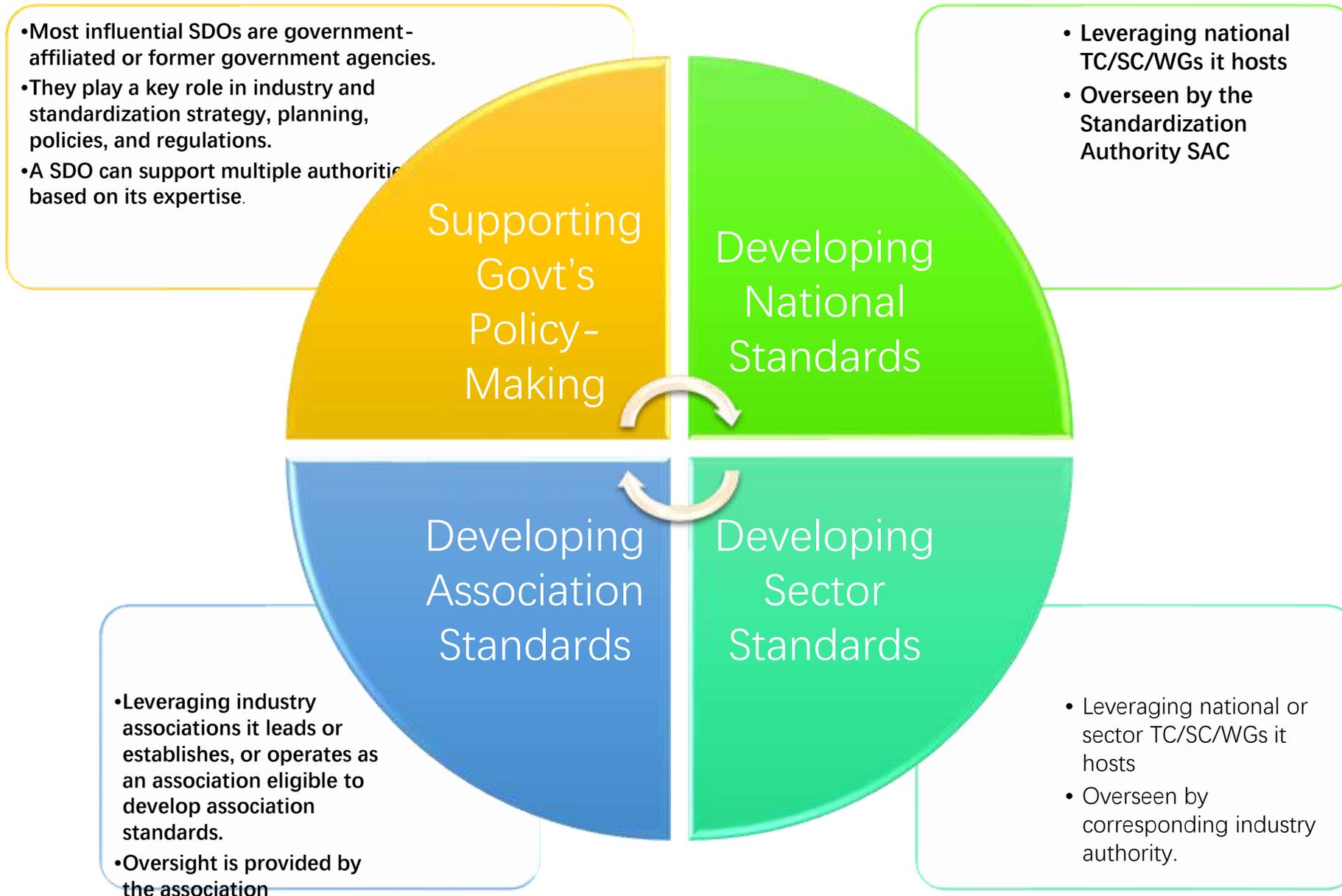


Research Institute of
Standards and Norms of
MoHURD ([RISN](#)),
Mainly Supporting MoHURD

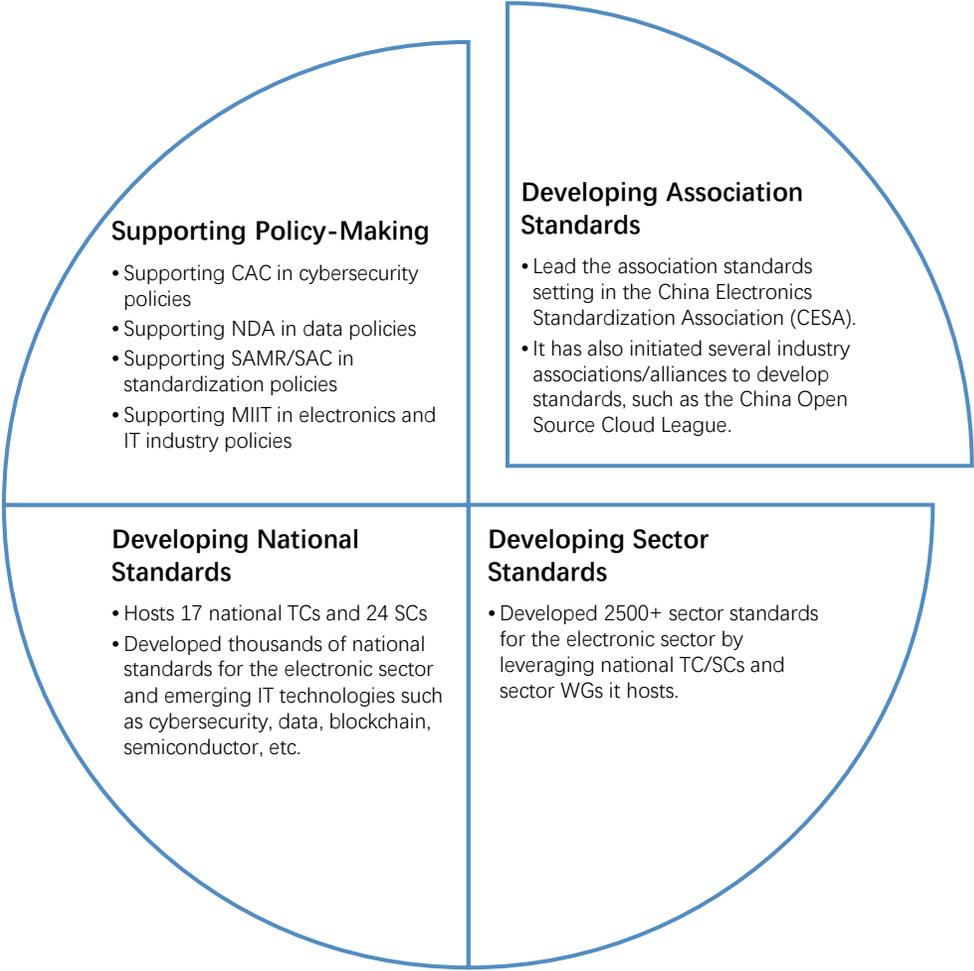


China Association for
Engineering Construction
Standardization ([CECS](#)),
Mainly Supporting MoHURD

SDOs in China's Standards Setting System



Examples – CESI & CCSA



CESI



CCSA

Key Players in Market-driven Standardization

- Eligible for setting association standards
- The most influential ones are government-led or affiliated.
- Their standardization are often aligned with government policies.
- Their association standards are more likely to be adopted or transformed into government standards
- Examples: CCSA, CESA, CEEIA, etc.

- Often ineligible for setting association standards
- The most influential ones are established by government-affiliated institutes and backed by the government.
- Their standardization efforts often reflect advancements in emerging technologies.
- Their standards can be published as association standards by institute-led associations.
- Examples: the National Industrial Internet Industry Alliance, the China Artificial Intelligence Industry Alliance, etc.



- Large enterprises lead the development of most association and consortia standards.
- Examples: Huawei in ICT, BYD & CATL in battery, Alibaba & Tencent in Cloud, AI, blockchain, etc.

Some Prestigious Association/Alliance/Consortia



CESA

- Key player in developing electronics and information association standards
- Eligible association standards setting organization
- Works closely with MIIT and CESI



China Society of Automotive Engineers

- Major driver of intelligent connected vehicles (ICV), new energy vehicles (NEVs), and automotive cybersecurity standards.
- Eligible association standards setting organization
- Works closely with MIIT, CATARC, China Association of Automobile Manufacturers



China ITS Industry Alliance

- plays a crucial role in association standardization within China's intelligent transportation sector.
- Eligible association standards setting organization
- Backed by ITO and led by RIOH



National Industrial Internet Industry Alliance

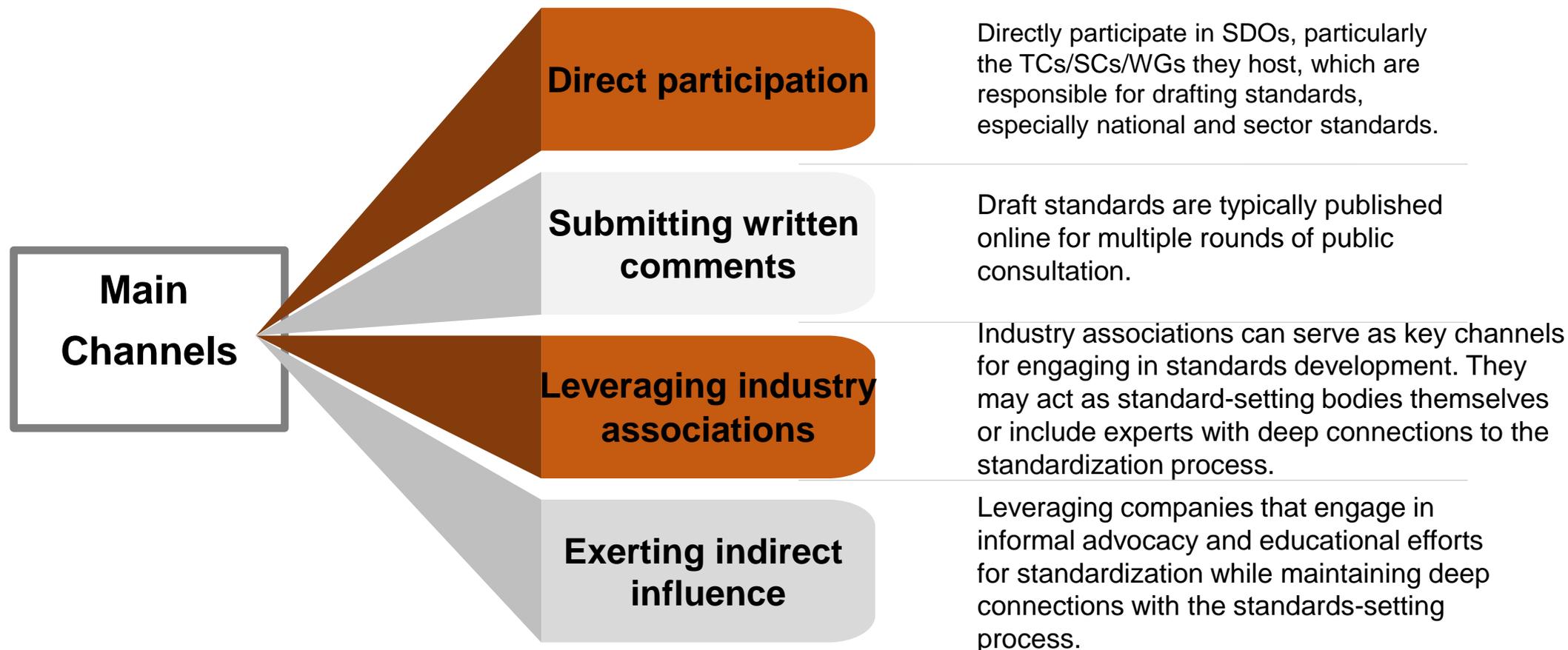
- Drives industrial IoT and smart manufacturing standardization.
- Ineligible for association standards
- Backed by MIIT and led by CAICT



China Artificial Intelligence Industry Alliance

- Key player in AI standards.
- Ineligible for association standards
- Backed by MIIT and led by CAICT

Engage with CN Standardization



Please note: In most cases, only **entities registered in China** are eligible to participate in standards setting.

Participation in TCs/SCs/WGs

Apply for membership of SDOs or the TCs/SCs/WGs they host



- Most of them are now open to foreign companies
- Foreign companies may face difficulties in securing leadership positions
- Sensitive sectors is subject to varying degrees of restrictions



- Chinese is the working language, requiring foreign companies to hire either in-house Chinese-speaking experts or external consultants to navigate the process effectively.



- Membership fee varies by organization
- Some organizations charge higher fees for foreign members than for domestic ones
- Indirect costs to allocate budget for hiring local representatives, translators, or consultants to stay actively engaged

Tips for Participation and Influencing

- Identify the **key SDOs and TCs/SCs/WGs** relevant to your products and business strategy.
- Establish connections with **TC secretariats** and build strong relationships.
- Highlight **the value your company can contribute** to the TC and standardization efforts.
- Understand **Chinese business culture** and adhere to both explicit and implicit rules.
- Provide feedback and objections **strategically and tactfully**.
- Develop **effective technical lobbying strategies**, such as collaborating with local competitors or engaging with TC secretariats.





Seconded European Standardization Expert in China

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A project co-funded by CEN, CENELEC, ETSI, EC and
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