A futuristic blue robotic arm is shown in a close-up, holding a large, dark blue gear. The gear has a grid of circular holes in its center. The background is a soft, light blue gradient. The overall scene suggests a theme of technology, automation, and industrial processes.

# Who is Who in China Standardization System

07 November 2024

## Abbreviations

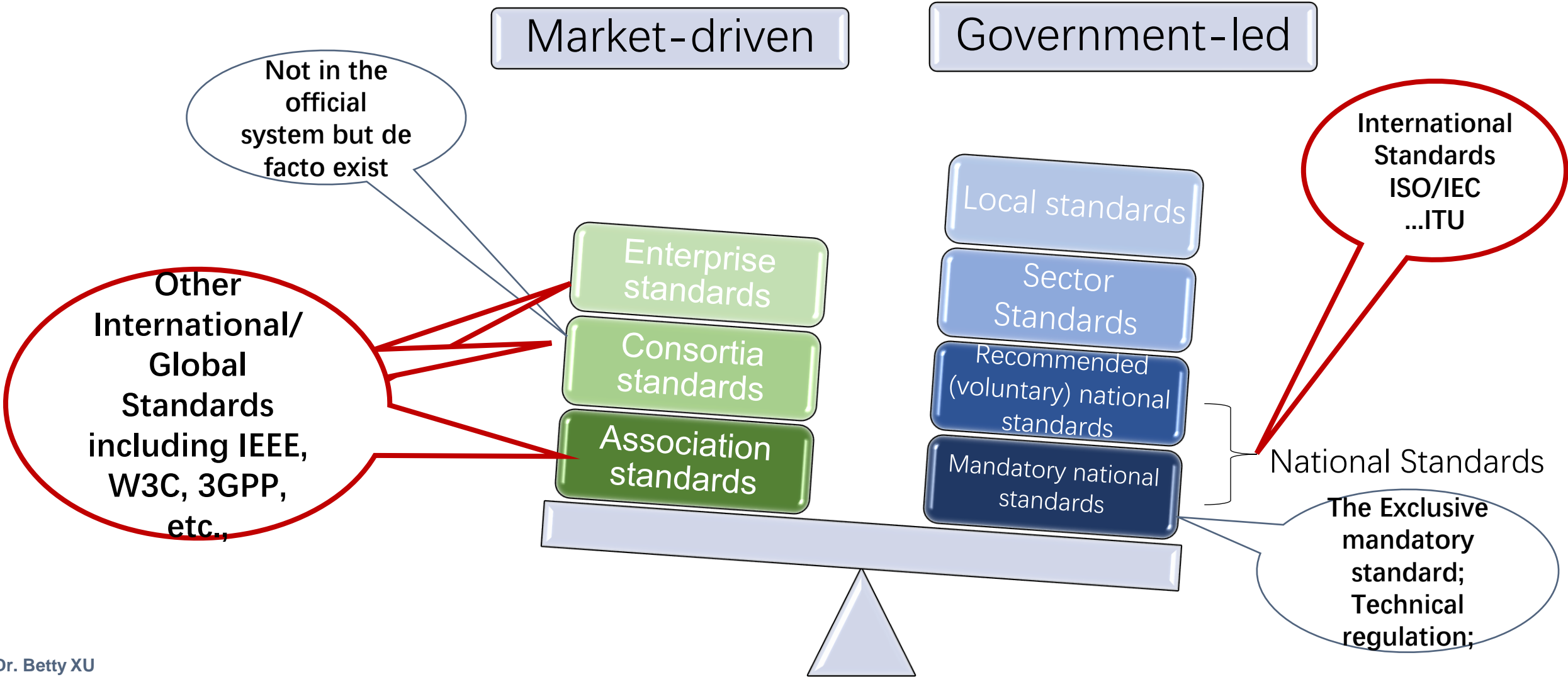
<b>SAMR</b>	State Administration for Market Regulation	国家市场监督管理总局
<b>CAS</b>	China Association	中国标准化协会
<b>CCC</b>	China Compulsory Certification	中国强制认证
<b>CCSA</b>	China Communication Standardization Association	中国通信标准化协会
<b>CEC</b>	China Electricity Council	中国电力企业联合会
<b>CEEIA</b>	China Electrical Equipment Industrial Association	中国电器工业协会
<b>CELC</b>	China Energy Labeling Center	中国能效标识中心
<b>CESI</b>	China Electronic Standardization Institute	中国电子标准化研究所
<b>CMDSA</b>	Center for Medical Device Standardization Administration	医疗器械标准管理中心
<b>CNCA</b>	Certification and Accreditation Administration of China	中国国家认证认可监督管理委员会
<b>CNIS</b>	China National Institute of Standardization	中国国家标准化研究院
<b>CNREC</b>	China National Renewable Energy Center	中国国家可再生能源中心

## Abbreviations

<b>EPPEI</b>	Electric Power Planning and Engineering Institute	电力规划设计总院
<b>IEC</b>	International Electrotechnical Commission	国际电工委员会
<b>ITEI</b>	Instrumentation Technology and Economy Institute	机械工业仪器仪表综合技术与经济研究所
<b>MEE</b>	Ministry of Ecology and Environment	中国生态环境部
<b>MIIT</b>	Ministry of Industry and Information Technology of People's Republic of China	中国工业和信息化部
<b>MoH</b>	Ministry of Health	卫生部
<b>MoHURD</b>	Ministry of Housing and Urban-Rural Development	住房与建设部
<b>MOT</b>	Ministry of Transport	中国交通运输部
<b>MOST</b>	Ministry of Science and Technology	中国科学技术部
<b>NDRC</b>	National development and reform commission People's Republic of China	中国国家发改委
<b>NIFDC</b>	National Institute of Food and Drug Control	中国食品药品检定研究院
<b>SAC</b>	Standardization Administration of China	国家标准化管理委员
<b>SGCC</b>	State Grid Corporation of China	国家电网
<b>TC</b>	Technical Committee for Standard Development	标准化技术委员会

# Chinese Standardization System

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



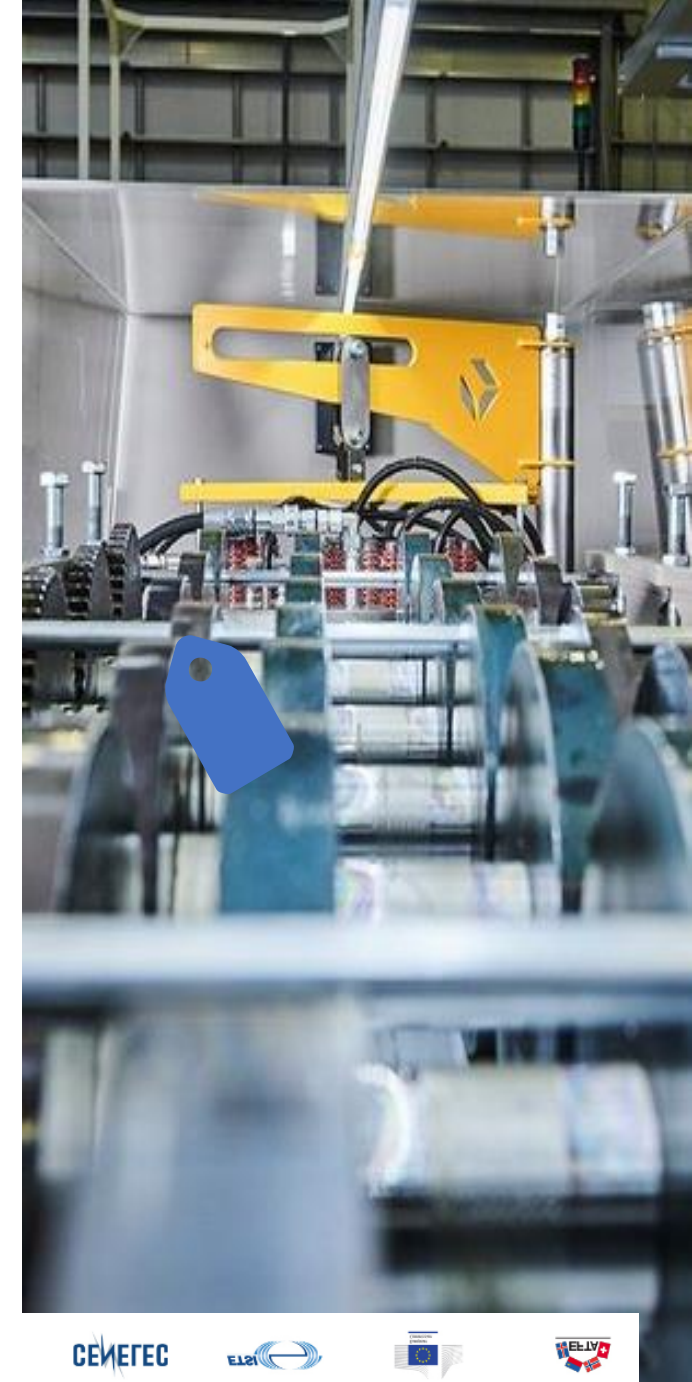
# Chinese Standardization System - Distinguishing Different Standards

## STRUCTURE OF STANDARD CODING AND NUMBER

**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



# Chinese Standardization System — Code of Sector Standards

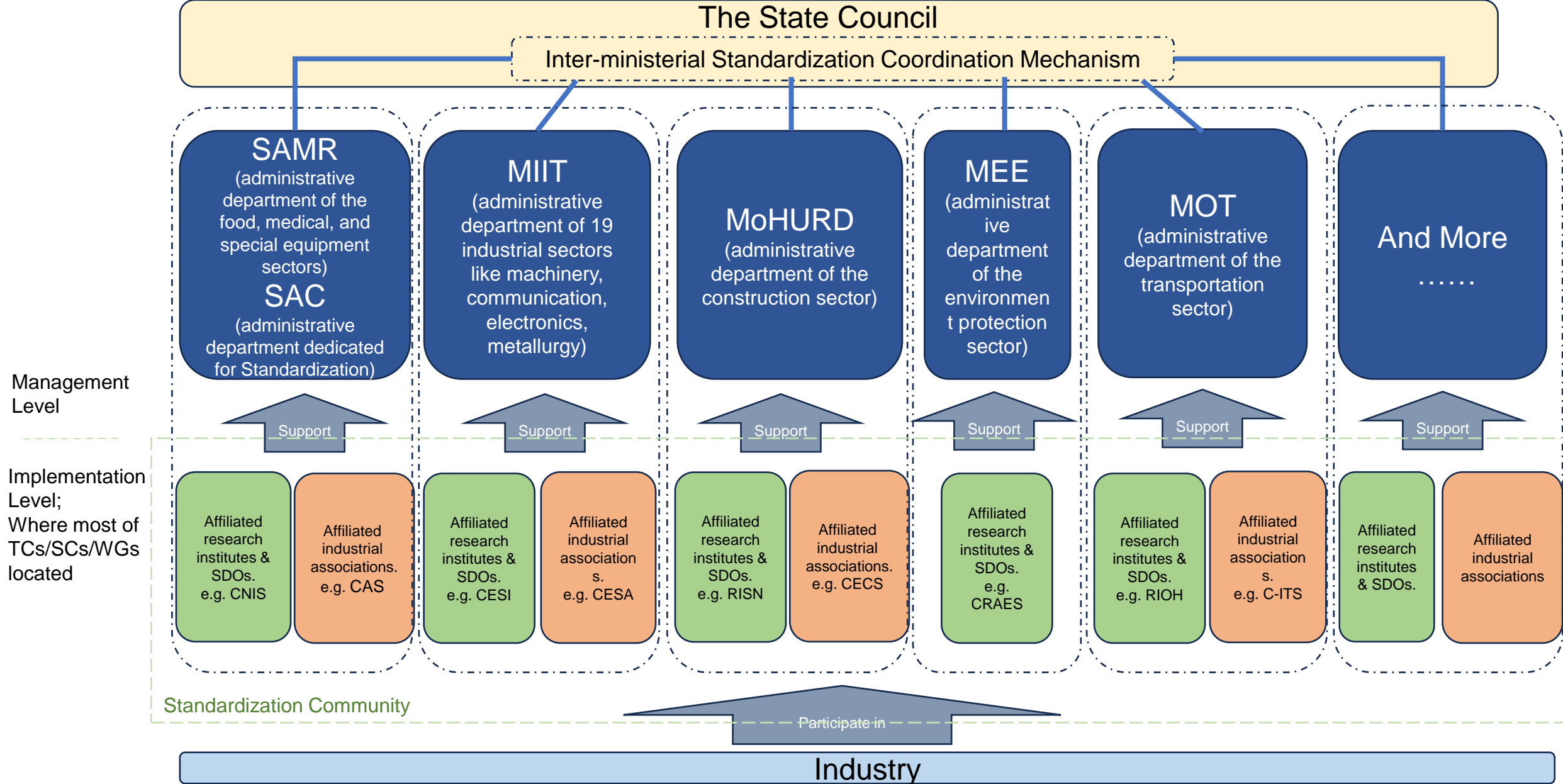


## Code of Chinese Standards: 74 Sector Standards Codes

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

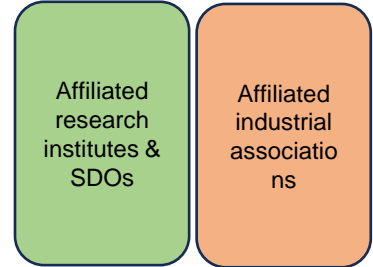
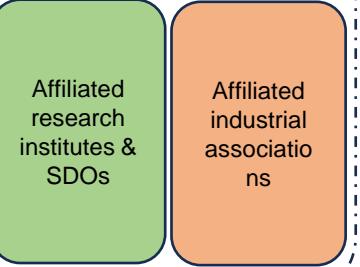
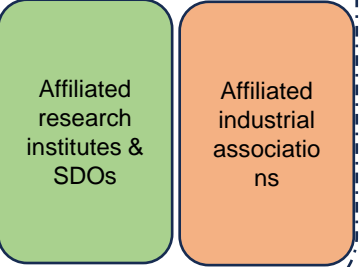
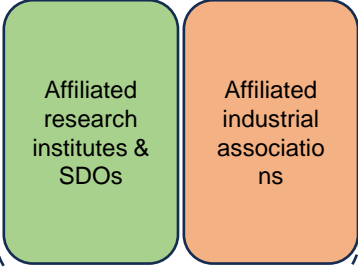
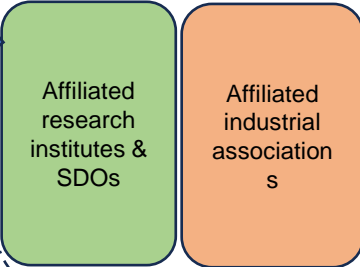
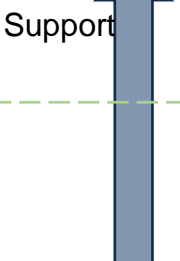
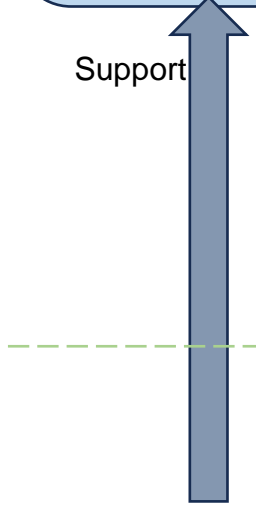
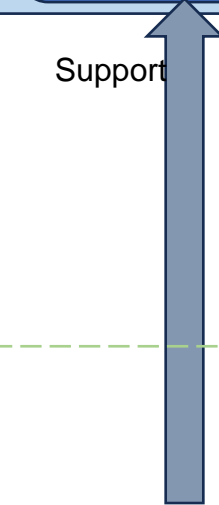
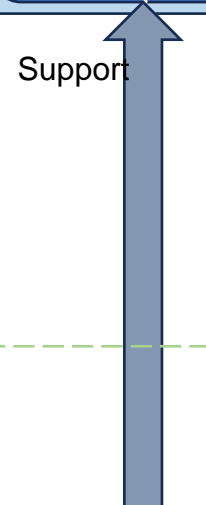
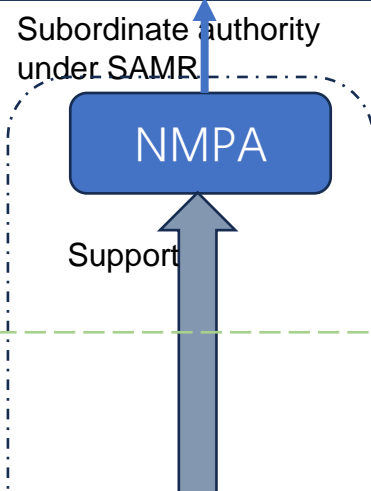
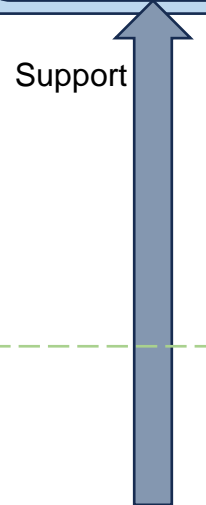
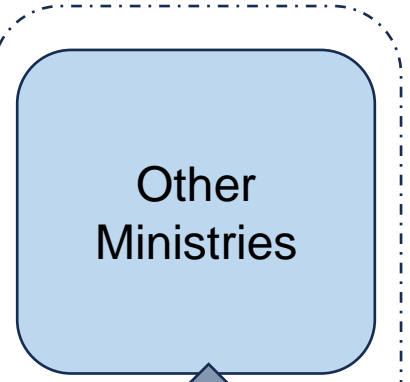
# Governmental Standardization System in China



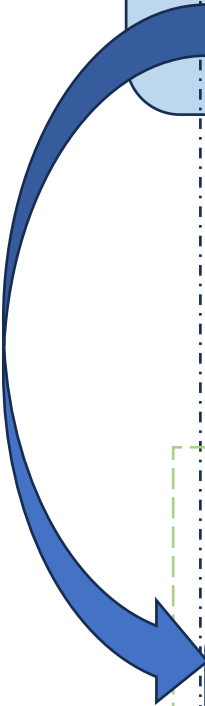
# SAMR



Interface



Oversees national standards setting taking place in all these organizations



Standardization Community

# Chinese Standardization System – Who is Doing What

## Government-led standardization



### TCs/SCs/WGs

- Develop standards
- Usually located in institutions & associations under ministries
- Most of them are also developing sector standards

### SAC

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

### Sector administrative authorities, like MIIT, MOT, RAILWAY, MEM.

- Manage standardization work within their sectors
- Propose mandatory national standard projects, organize their drafting, call for comments, and technical review
- Develop sector standards, file them to SAC

# Key Institutes/TC Secretariates under SAMR

## 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

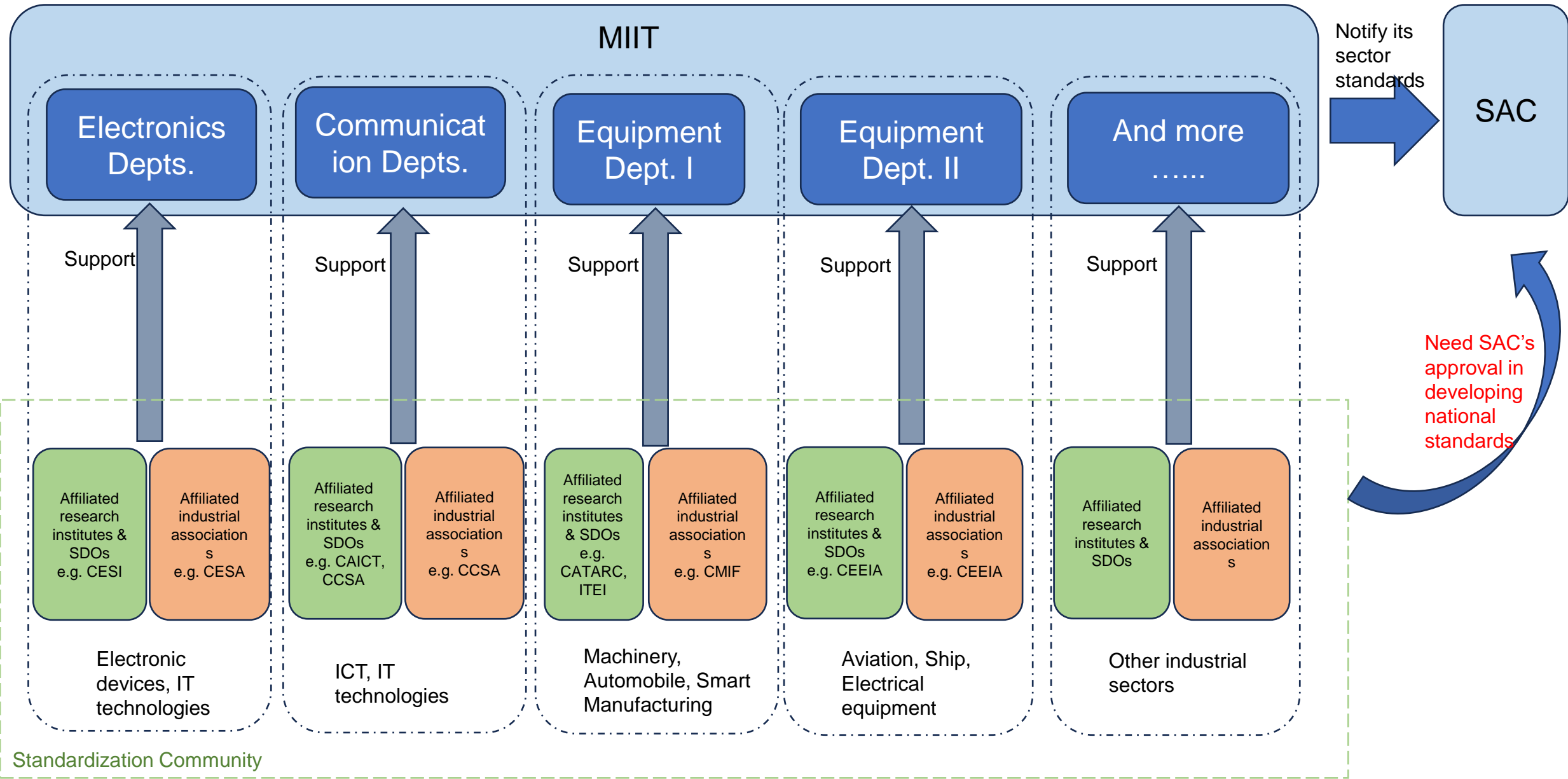
## The National Medical Products Administration (NMPA):

- 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



# Key Institutes/TC Secretariates under MIIT



## 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 Ministries/Ministerial Level Organizations

No.	Authority	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"><li>• National Railway Administration (NRA)</li><li>• Civil Aviation Administration (CAAC)</li></ul>	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.
	And more.....	

# Some Key Institutes/TC Secretariates under Other Ministries



China Electricity Council  
([CEC](#))



Research Institute of  
Highway of MOT ([RIOH](#))



CCRC Zhouzhou Institute  
([CCRCGC](#))



Chinese Research  
Academy of Environmental  
Sciences ([CRAES](#))



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

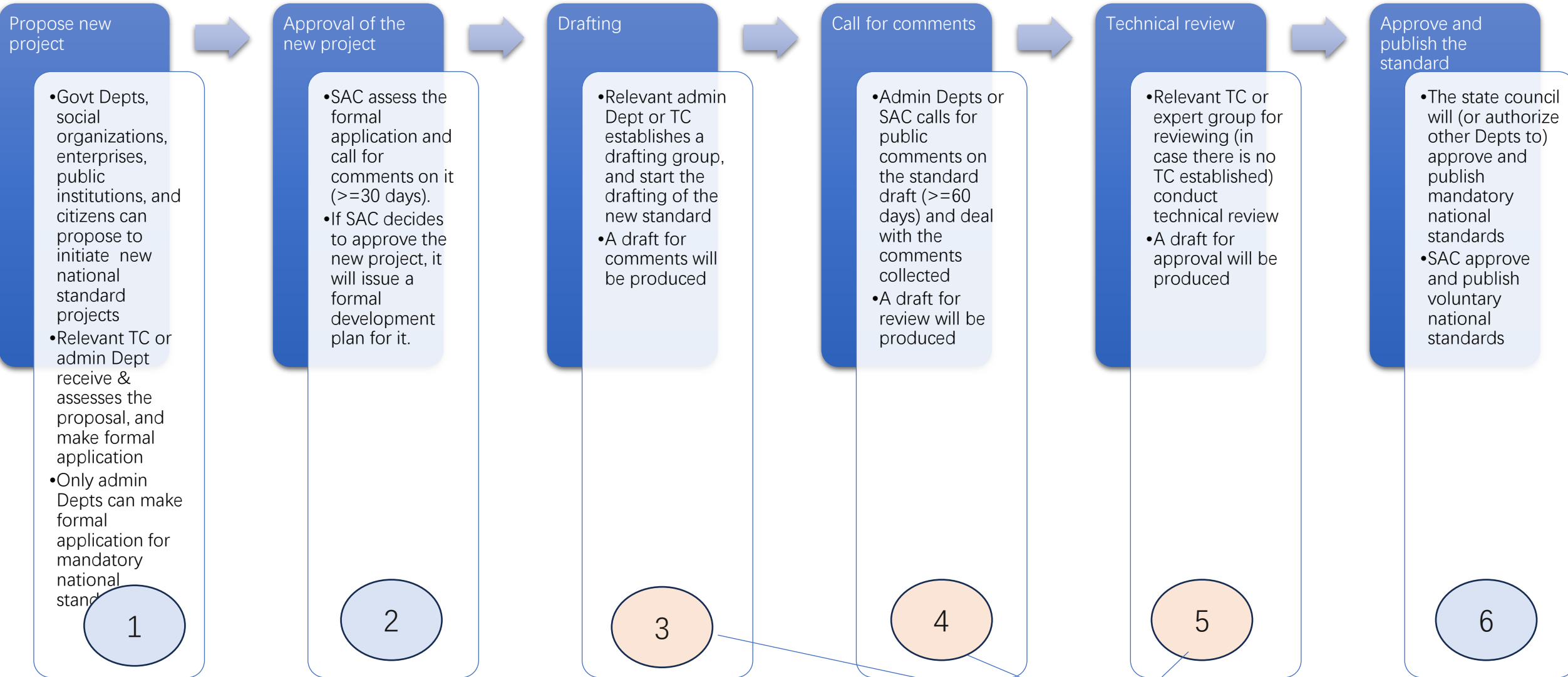


China Association for  
Engineering Construction  
Standardization ([CECS](#))

# Process of developing national standards in China

Main Players	Responsibility
the State Council	approve and issue mandatory national standards, or authorize other departments to approve and issue mandatory national standards
SAC	Manage the development of national standards
Administrative department under the State Council (MIIT, MOT, MARA, etc.) Hereinafter, referred to as “admin dept”	<ol style="list-style-type: none"> <li>1. Propose, organize the drafting of, call for comments on, organize technical review on, and implement mandatory national standards;</li> <li>2. Commissioned by SAC, to guide TCs on initiating new voluntary national standard projects, submitting national standard drafts for approval, etc.</li> </ol>
TCs	<ol style="list-style-type: none"> <li>1. Commissioned by SAC, to draft, call for comments on, technically review, assess, and explain voluntary national standards;</li> <li>2. Commissioned by administrative departments, to draft, technically review mandatory national standards.</li> </ol>
Standardization departments and relevant administrative departments of a local government at or above the county level. Hereinafter, referred to as “local dept”	Supervise and inspect the implementation of national standards

# Process of developing national standards in China



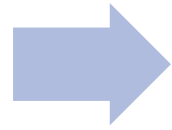
Seconded European Standardization Expert in China (SESEC) Project



<=24 months for mandatory national standard projects  
<=18 months for voluntary national standard projects

Can be several rounds

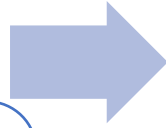
# Process of developing national standards in China



## Implementation

- Enterprises implement the standard
- SAC, local Depts, TCs organize education and promotion of the standard
- SAC explain (or authorize relevant TC to explain) the standard; make public within 20 days since the release of the explanation

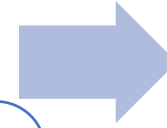
7



## Supervision

- SAC establishes the implementation info feedback mechanism and the implementation effect assessment mechanism; regularly assess the implementation effect of standards in key areas
- SAC, local Depts, TCs collect implementation info
- SAC, admin Depts, TCs deal with the implementation info feedback

8



## Assessment and amendment

- Admin Depts or TCs, assess the standard and report to SAC with 5 years since its implementation
- If deciding to revise, Admin Depts or TCs revise the standard according to the national standards development process
- If deciding to abolish, SAC calls for comments on it for 60 days. Abolish if on objection raised.
- Admin Depts or TCs develop amendment sheet if needed; SAC publishes the amendment sheet

9



## Seconded European Standardization Expert in China

### **Dr. Betty Xu**

Seconded European Standardization Expert in China  
(SESEC)

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

Beijing Office:

Room 1005, The Oriental Place, #9 East Dongfang  
Road,

Chaoyang, Beijing, 100106, P.R. China

Phone: +86 10 8527 5366-802

Fax: +86 10 8527 6363

Mobile: +86 185 118 20197

E-mail: [betty.xu@seseec.eu](mailto:betty.xu@seseec.eu)

