

A futuristic blue robotic arm is shown in a close-up, holding a large, dark blue gear. The gear has a central hole and a grid of smaller holes around its perimeter. The background is a soft, light blue gradient. The overall scene suggests a focus on technology, engineering, and industrial processes.

Landscape of Key Chinese Stakeholders in the Field of Standardization

07 November 2024

Abbreviations

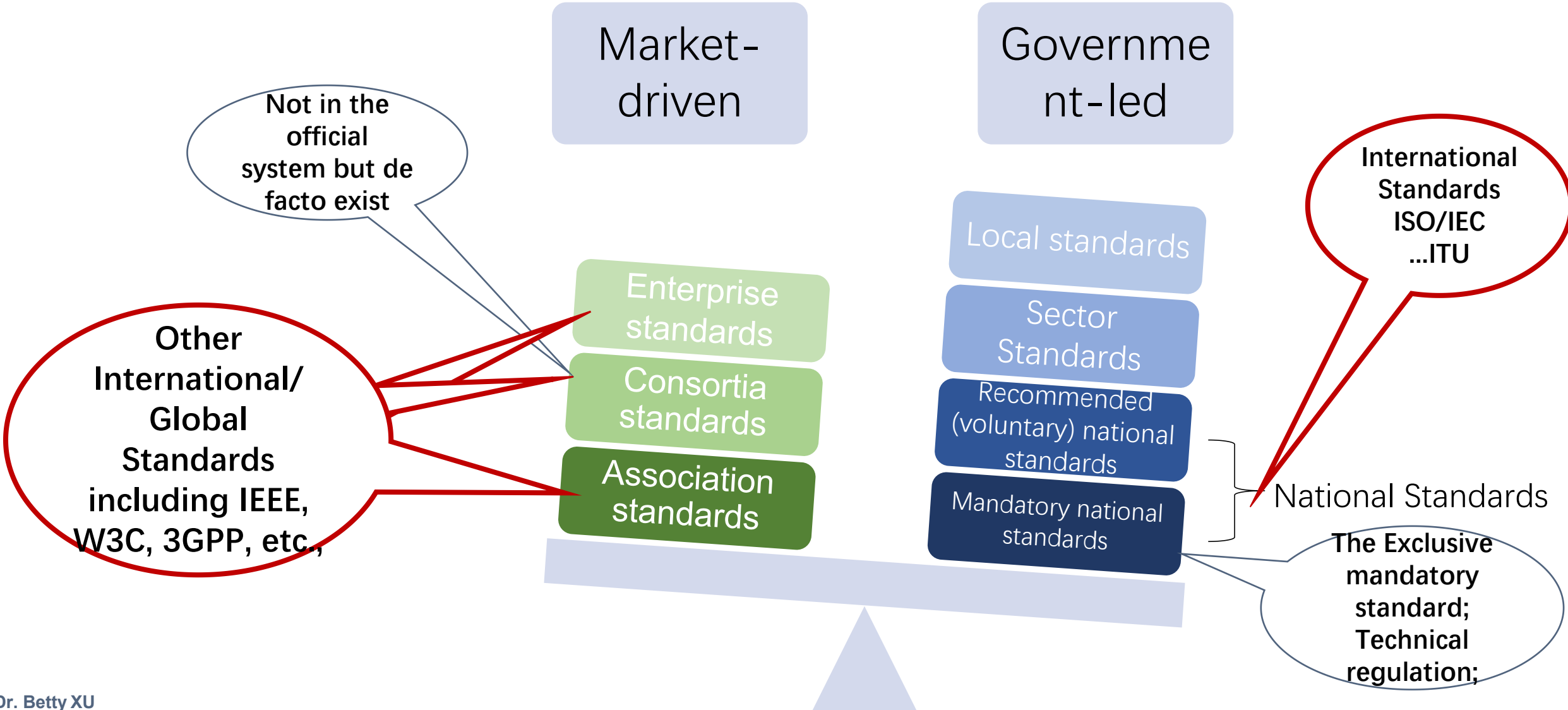
SAMR	State Administration for Market Regulation	国家市场监督管理总局
CAS	China Association	中国标准化协会
CCC	China Compulsory Certification	中国强制认证
CCSA	China Communication Standardization Association	中国通信标准化协会
CEC	China Electricity Council	中国电力企业联合会
CEEIA	China Electrical Equipment Industrial Association	中国电器工业协会
CELC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

Abbreviations

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



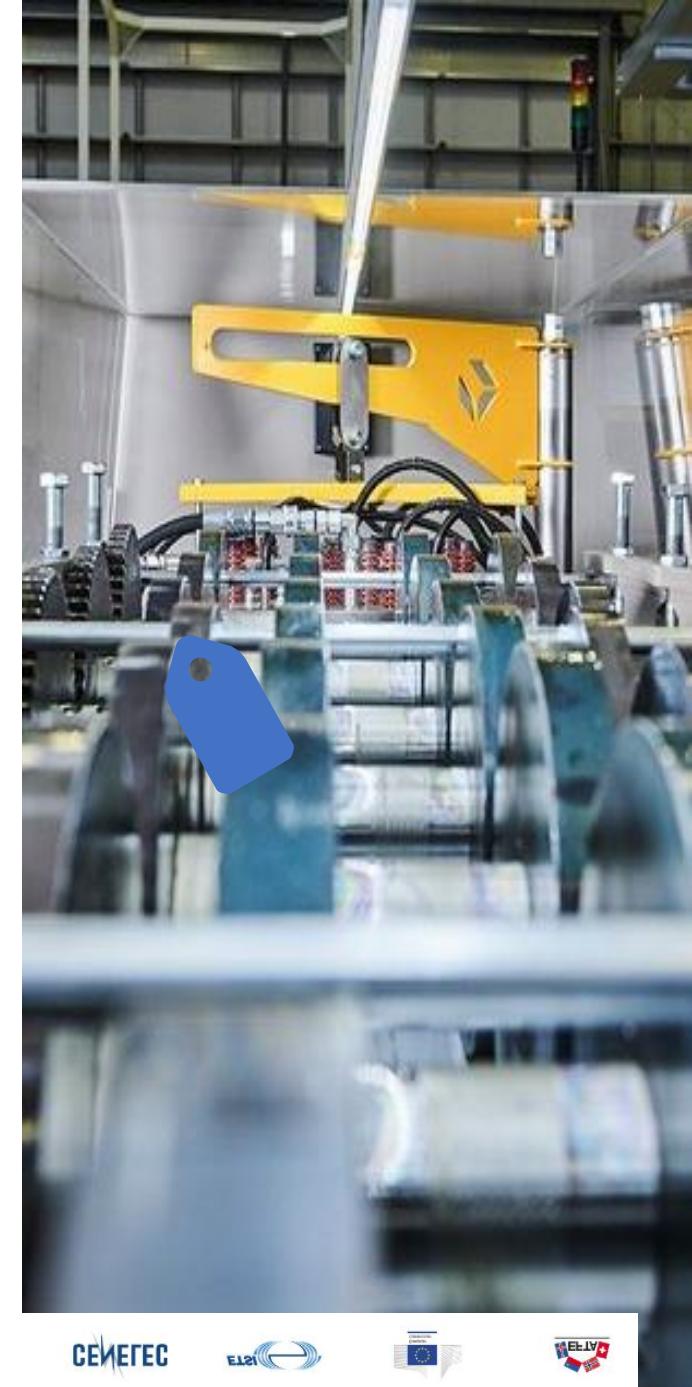
Chinese Standardization System - Distinguishing Different Standards

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

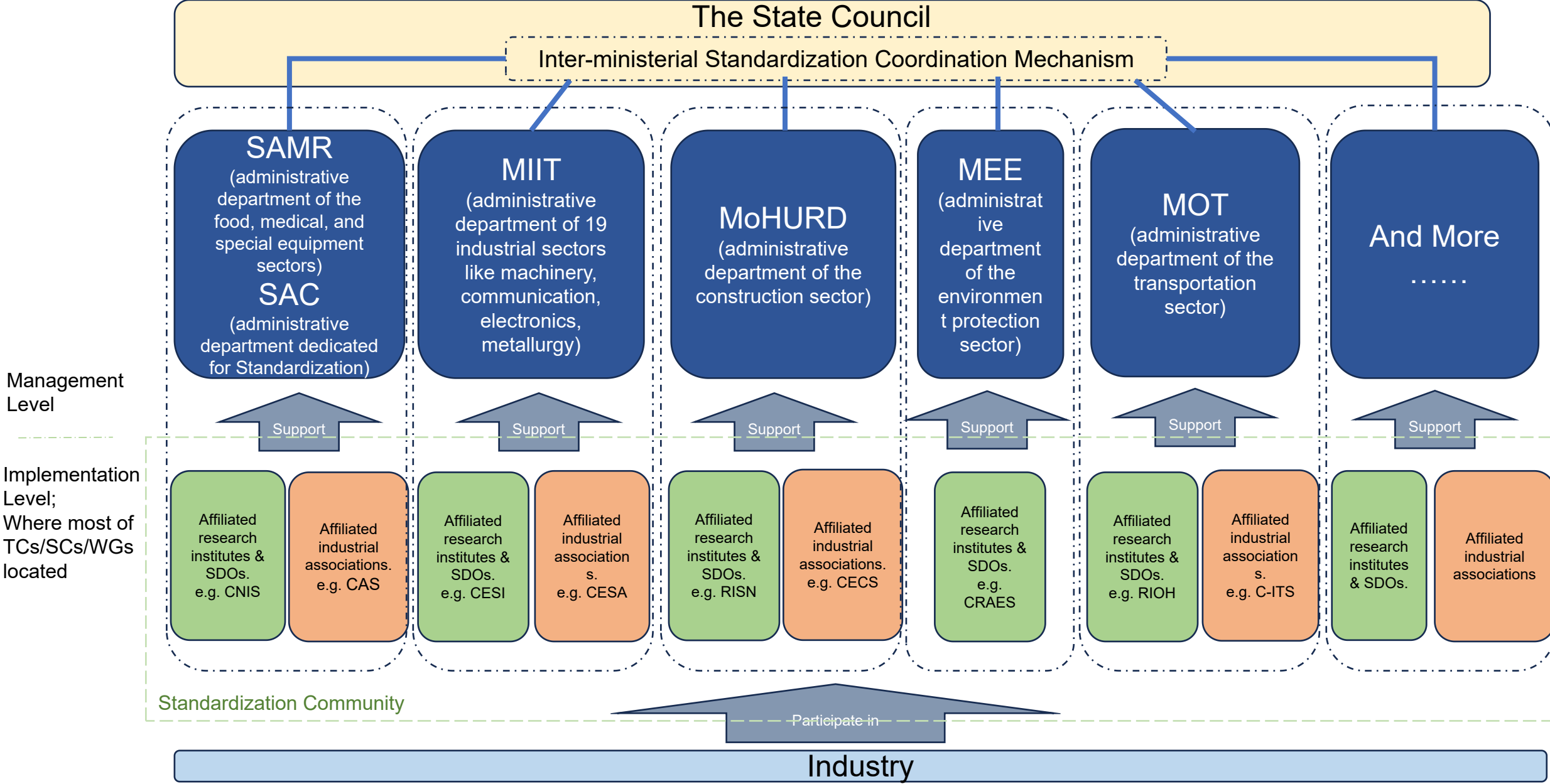


Code of Chinese Standards: 74 Sector Standards Codes

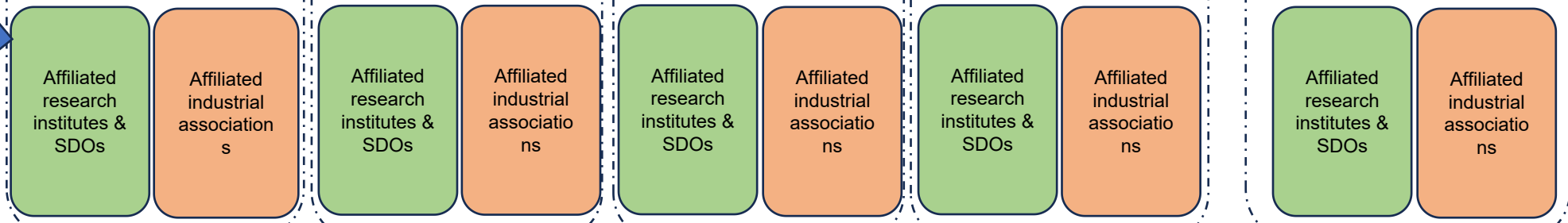
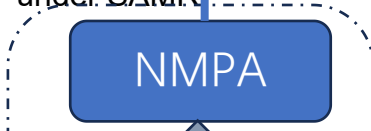
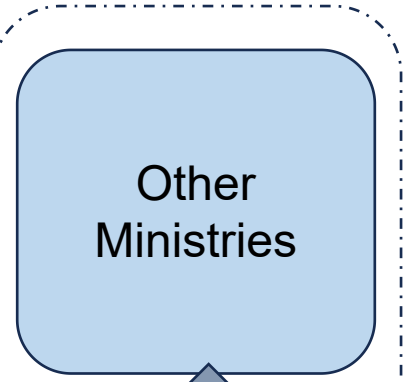
NO.	Code	Content
1	AQ	Workplace Safety
2	BB	Packging
3	CB	Ship
4	CH	Surveying
5	CJ	Urban construction
6	CY	Press and publication
7	DA	Archives
8	DB	Earthquake
9	DL	Power
10	DZ	Geology mineral
11	EJ	Nuclear industry
12	FZ	Textiles
13	GA	Public security
14	GH	Supply and marketing
15	GM	National passport
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	OX	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



Oversees national standards setting taking place in all these organizations



Standardization Community

Chinese Standardization System – Who is Doing What

Government-led standardization

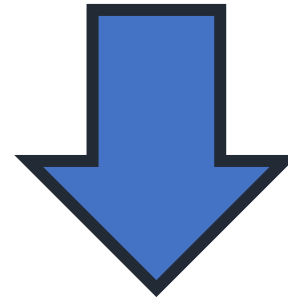


TCs/SCs/WGs

- 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

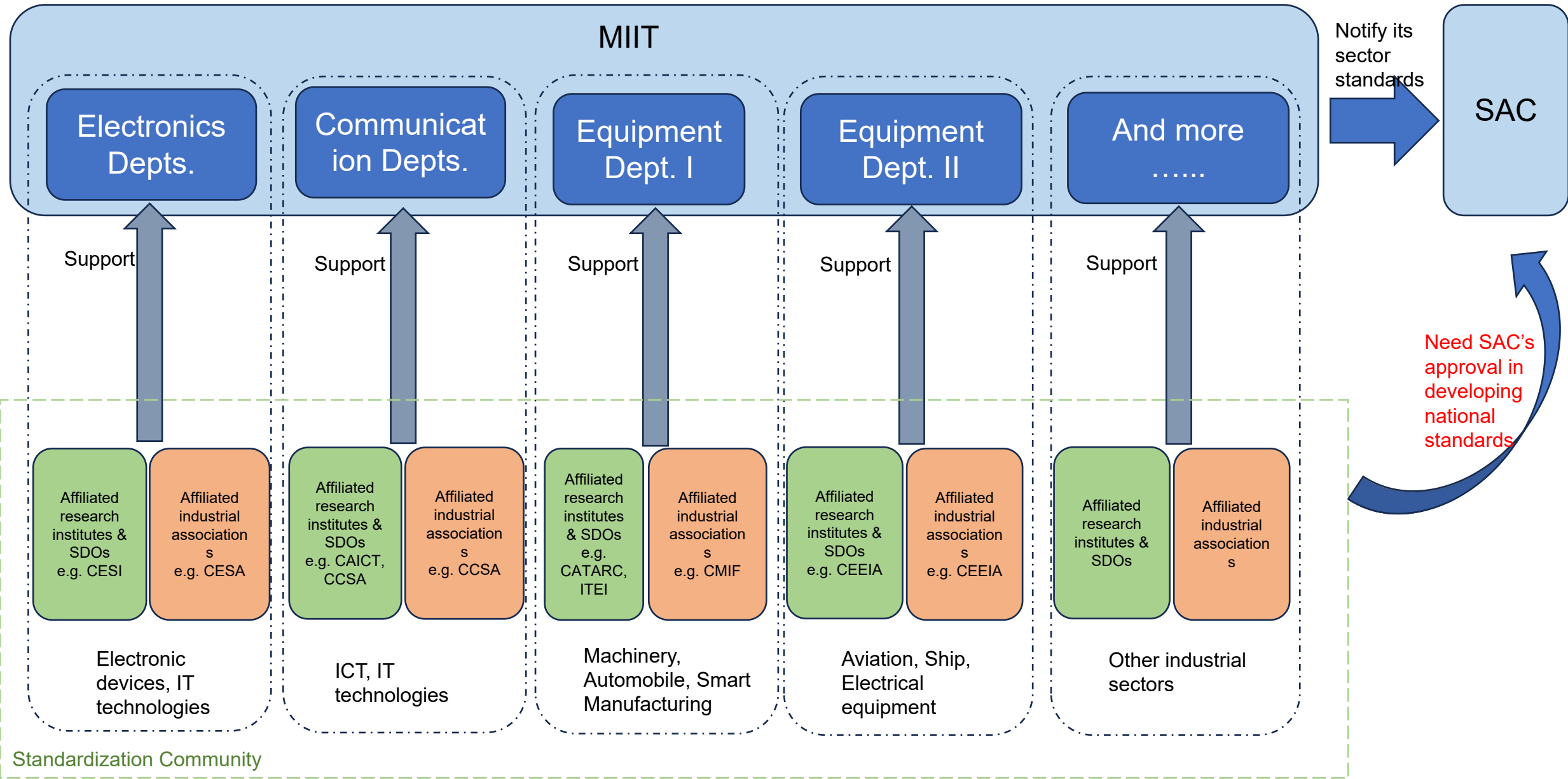
The National Medical Products Administration (NMPA):

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

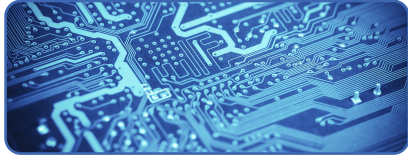
The Special Equipment Safety Supervision Bureau

- 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">• 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.
	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"> 1. Propose, organize the drafting of, call for comments on, organize technical review on, and implement mandatory national standards; 2. Commissioned by SAC, to guide TCs on initiating new voluntary national standard projects, submitting national standard drafts for approval, etc.
TCs	<ol style="list-style-type: none"> 1. Commissioned by SAC, to draft, call for comments on, technically review, assess, and explain voluntary national standards; 2. Commissioned by administrative departments, to draft, technically review mandatory national standards.
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

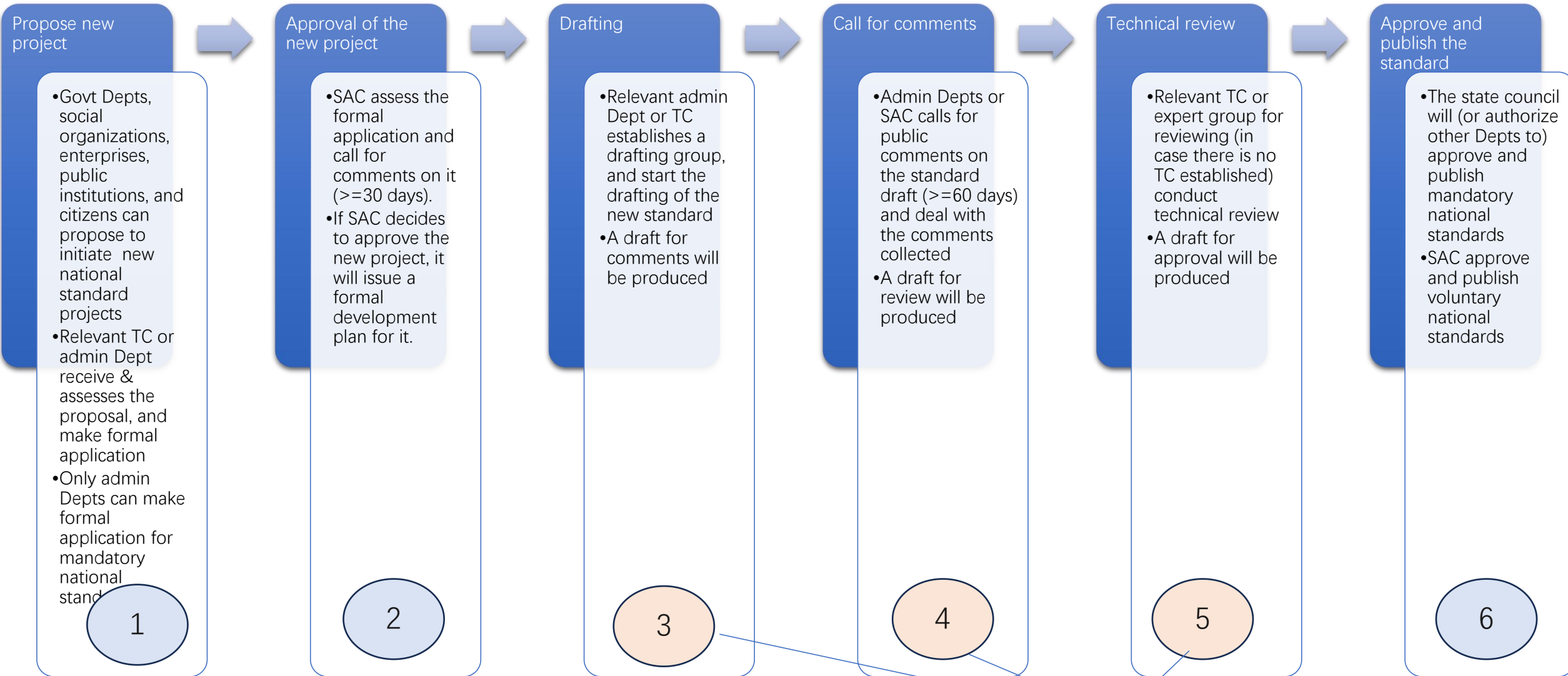
Seconded European Standardization Expert in China (SESEC) Project



CENELEC



Process of developing national standards in China



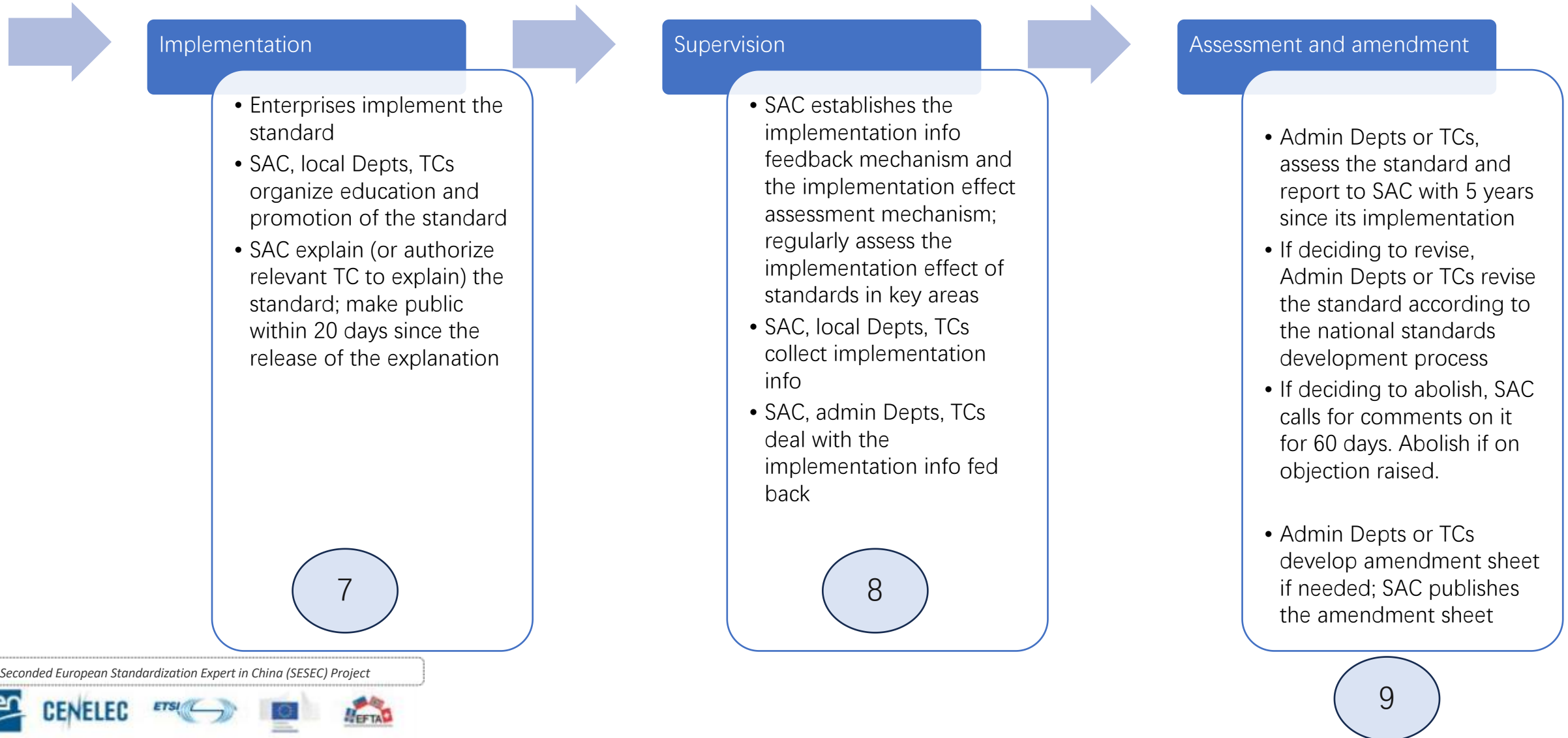
Seconded European Standardization Expert in China (SESEC) Project



<=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





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@sesecc.eu

