

一、ISO/TC 297 (Waste collection and transportation management)

ISO/TC 297 focuses on "waste recycling and transport management". Its scope is to standardize machines, equipment and management systems for collection, temporary storage and transportation of solid and sanitary liquid waste and recyclables (valuables), as well as the deaming of sewage system. It has three working groups, including ISO/TC 297/WG 1-Terminology, ISO/TC 297/WG 2-Waste collection and transport vehicles, ISO/TC 297/AHG 1-Research and Investigation regarding post-consumer thermoplastics collection and transportation. The following figure 1 shows the structure of the ISO/TC297 standard system and working group.

This committee contributes with 5 standards, including four published standards and one under development. It possesses 18 participating members, including China, Germany, Japan, Singapore, and 19 observing members. The following figure 2 is designed to visually demonstrate the geographic distribution of its members.

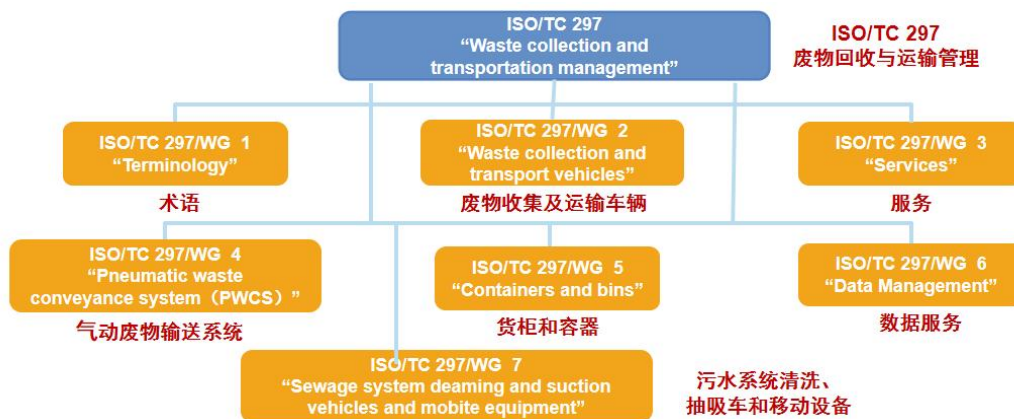


Figure 1 the structure of the ISO/TC297 standard system and working group

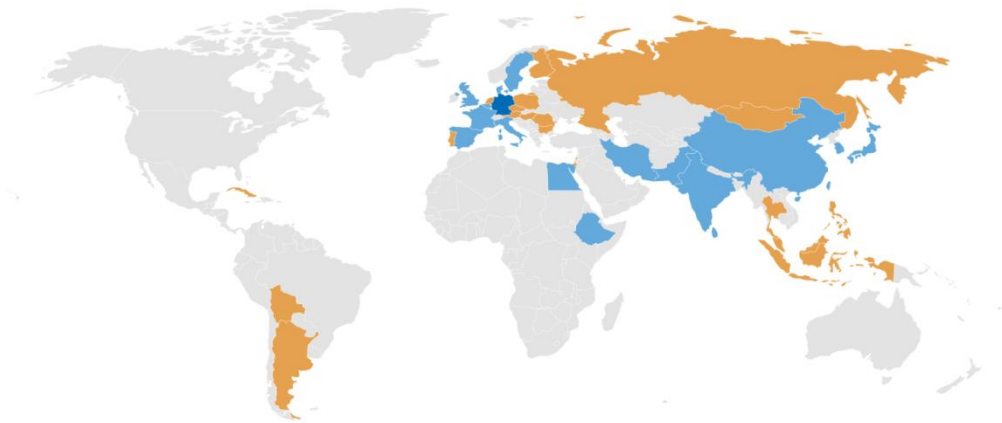


Figure 2 the geographic distribution of its members

■ Participating Members [18]

■ Observing Members [19]

Participating Members	
Country/Territory	Acronym
China	SAC
Germany	DIN
Singapore	SSC
Japan	JSI
Iran	INSO
Sweden	SIS
Korea, Republic of	KATS
Belgium	NBN
United Kingdom	BSI
Denmark	DS
France	AFNOR
Spain	UNE
India	BIS
Italy	UNI

Egypt	EOS
Ethiopia	IES
Pakistan	PSQCA
Sri Lanka	SLSI

Observing Members	
Country/Territory	Acronym
Austria	ASI
Russian Federation	GOST R
Romania	ASRO
Thailand	TISI
Finland	SFS
Argentina	IRAM
Bolivia, Plurinational State of	IBNORCA
Bulgaria	BDS
Cuba	NC
Czech Republic	UNMZ
Hungary	MSZT
Indonesia	BSN
Israel	SII
Malaysia	DSM
Mongolia	MASM
Netherlands	NEN
Philippines	BPS
Portugal	IPQ

Four published ISO standards:

1、 ISO/TS 24159:2022

Refuse collection vehicles — Safety of manual and rear-loaded refuse collection vehicles

2、 ISO 24160:2022

Refuse collection vehicles — Waste odour and leachate prevention and control

3、 ISO 24161:2022

Waste collection and transportation management — Vocabulary

4、 ISO 24162:2022

Test method for energy consumption of refuse collection vehicles

One ISO standard under development:

ISO/WD 13155

Refuse Collection Vehicles — Terminology of Main Functional Components & Performance Indicators

ISO/TC 297 takes the following into particular account:

- Terminology;
- Technology;
- Performance;
- Quality;
- Environmental aspects;
- Safety and ergonomic aspects;
- Maintenance;
- Logistical aspects;
- Data management and
- Service procedures.

Excluded are:

- Urban wastewater systems
- Sludge recovery, treatment and disposal and also water re-use as far as they are covered by ISO/TC 275 and ISO/TC 282
- General environmental management (e.g. ISO 14000) and road traffic safety management systems aspects (e.g. ISO 39001) are covered by ISO/TC 207 and ISO/TC 241
- Road maintenance equipment are covered by ISO/TC 195/SC 2
- Road vehicles are covered by ISO/TC 22.

二、上海市标准化创新中心（物流）

2021年10月，上海第二工业大学被授予**上海市首批新型标准化技术组织——上海市标准化创新中心（物流）**。中心紧密对接国家物流需求，聚焦上海及长三角地区绿色物流、逆向物流、数字化物流等标准的实际问题，构建立足上海、辐射全国的**物流创新成果转化为技术标准的服务平台和物流标准化智库**，通过标准化助力物流创新技术以及物流与供应链产品的市场化、逆向物流的产业化和国际化。

中心与**京东物流、中远海运、华为、小米、宁德时代、顺丰**等企业协同，针对企业和行业痛点，与核心协同企业共定研究方向和任务，在标准研制、平台开发、逆向物流网络设计、逆向物流智能技术等方面协同攻关和共同研究，在过程中利用龙头企业和标准的影响力建立产业联盟，与行业内其他企业进行信息交换、共享资源，建立在行业中的影响力。

中心目前担任国际标准化组织 **ISO/TC297** 国内召集单位兼中国专家组组长单位、全国物流标准化技术委员会（**SAC/TC269**）委员单位、全国环境管理标准化技术委员会（**SAC/TC207**）委员单位、全国物流标准化技术委员会逆向物流工作组（**SAC/TC269/WG4**）秘书长单位

中心团队至今已牵头和参与制定国家标准、行业标准、地方标准等 **21 项**，主持和参与国际标准（ISO）**5 项**。系列标准（国家标准/行业标准）应用于 270 余家企业，降本增效明显。近 3 年累计为中远海运化工物流有限公司、云丰国际物流有限公司、赣州豪鹏科技有限公司等企业新增直接经济效益 **1.313 亿元**，间接经济效益 **4270 万元**。

中心承担国家社科基金、教育部、市科委、市商委等国家级和省部级课题 **12 项**，承担横向课题 **23 项**，发表高水平论文 **50 余篇**，荣获软件著作权和发明专利 **14 项**，获得行业科技进步奖一等奖 **1 项**，二等奖 **3 项**，国家工博会优秀奖 **1 项**。