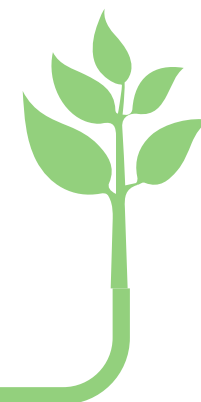




# Thai Industrial Standards Institute (TISI) in relation to agricultural machinery standards and testing facilities.

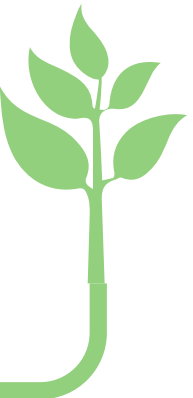
Dr. Nuanapa Chaisuwan  
Standardization Division  
[nuanapa@gmail.com](mailto:nuanapa@gmail.com)

26 July 2023



# Content

- ✓ Background
- ✓ Standardization Activities
- ✓ TISI Standards
- ✓ Agricultural machinery Standards
- ✓ Testing facility



# Background

**Thai Industrial Standards Institute (TISI)** is the national standards organization for Thailand, established under the Ministry of Industry by virtue of the Industrial Product Standards Act B.E. 2511 (A.D. 1968).

According to the Act, TISI has, as its governing body, the INDUSTRIAL PRODUCT COUNCIL which controls its policy, sets the priority of standards to be prepared, recommends qualified persons for the Minister to appoint to TISI technical committees, arbitrates and awards licenses under certification scheme.



# Standardization Activities

## 1. Standards development

1.1 National standards development TISI develops both mandatory and voluntary standards



Voluntary certification  
mark



Mandatory  
Certification Mark

4,571 standards =  
Voluntary : 4,426  
Mandatory : 142

TC = 64  
SC = 347

1.2 International standards development TISI participates in the development of International standards of the International Organization for Standardization (ISO), the International Electrotechnical Commission (IEC).



P member : 90  
O member : 231



P member : 28  
O member : 56

2. Product certification

3. WTO /TBT Agreements

4. International standardization

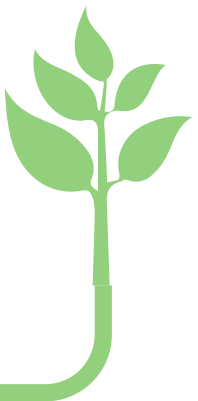
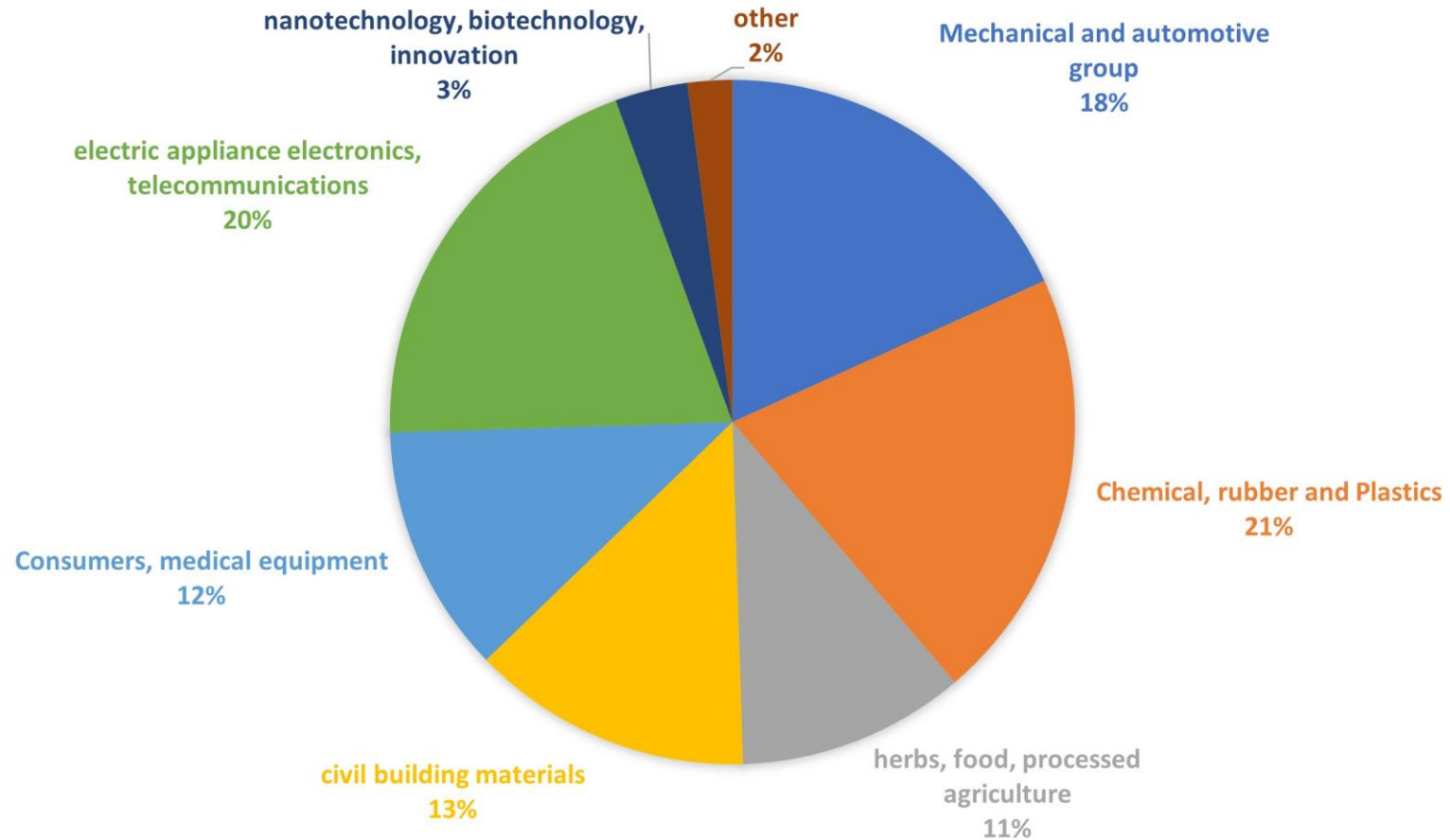
5. Standardization promotion

Etc....

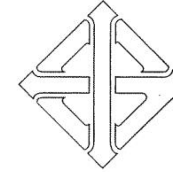
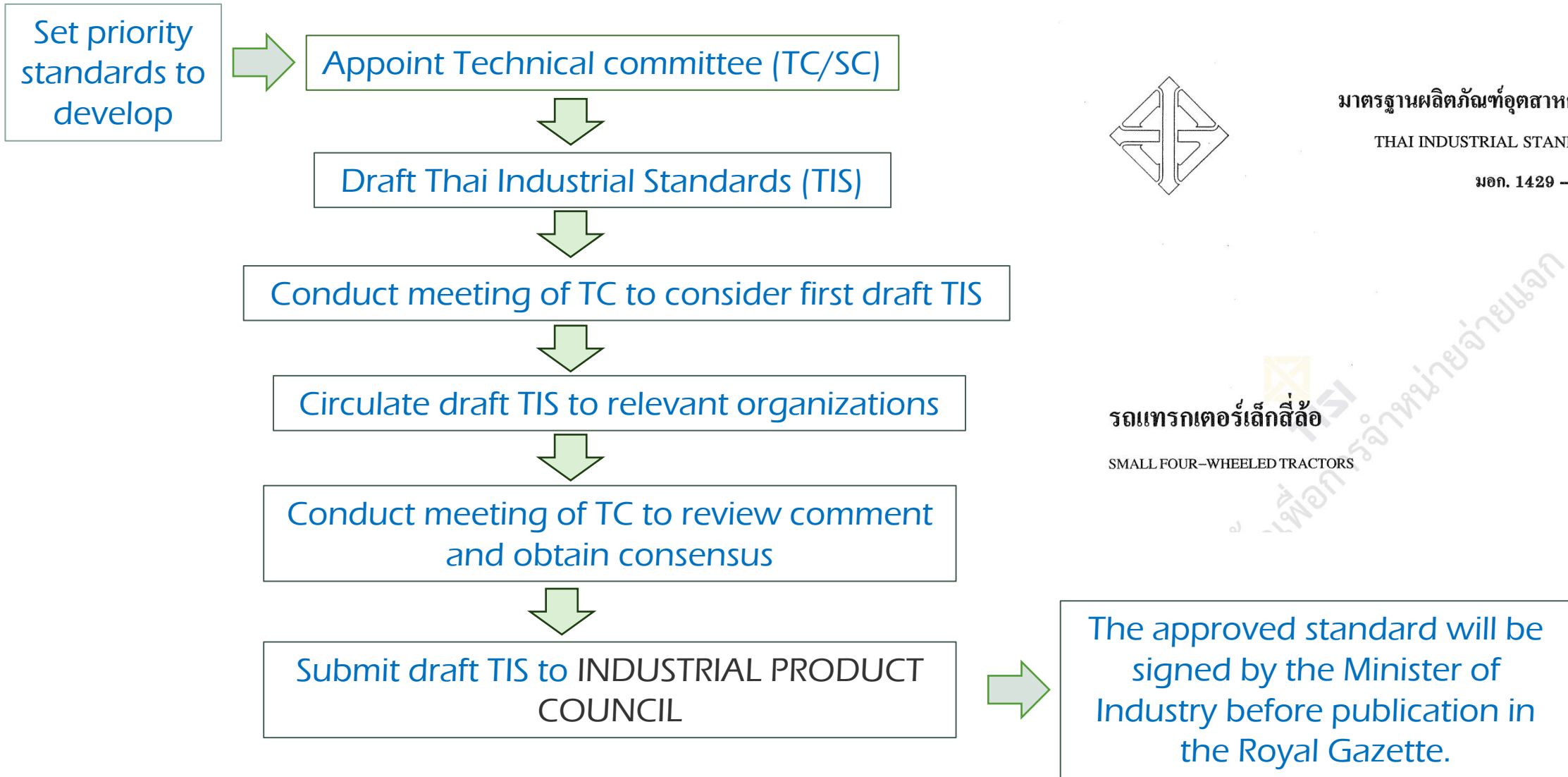


# TISI Standards

Voluntary : 4426  
Mandatory : 142  
= 4,571 standards



# Process of develop TISI Standards



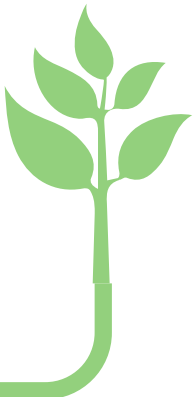
มาตรฐานผลิตภัณฑ์อุตสาหกรรม

THAI INDUSTRIAL STANDARD

มอก. 1429 –2540

รถแทรกเตอร์สี่ล้อ

SMALL FOUR-WHEELED TRACTORS





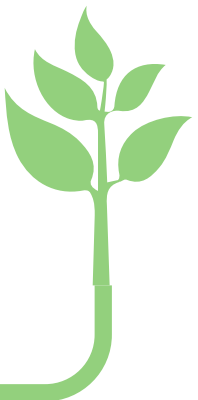
# Agricultural machinery Standards

- ✓  $\geq 50$  standards (Since.1989)
- ✓ Rice combine Harvester (TIS 1428-2560)
- ✓ Sugarcane Harvester (TIS 2773-2560)
- ✓ Sugarcane whole stalk Planter for agricultural rubber-tire wheeled tractor (TIS 1480-2563)
- ✓ Small rice mill (TIS 882-2532)
- ✓ Moldboard ploughs for power tiller (TIS 1126-2535)

TIS 1428-2560



TIS 2773-2560



# Agricultural machinery Standards

- ✓ Small four-wheeled tractors (TIS 1429-2540)
- ✓ Crop protection equipment : air compression sprayers (TIS 1565-2541)
- ✓ Rice reapers (TIS 1418-2540)
- ✓ Soy - ban reapers (TIS 2037-2543)
- ✓ Walk-behind tractors (TIS 1350-2539)
- ✓ Sugarcane whole stalk planter for agricultural rubber-tire wheeled tractor (TIS 1480-2563)

TIS 1429-2540



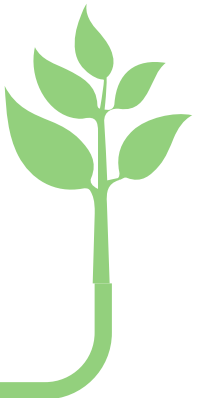
TIS 1350-2539



TIS 1480-2563



TIS 1418-2540





# Smart Farming /Precise Agriculture

Agricultural Drone



Smart Greenhouse

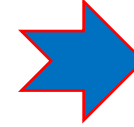
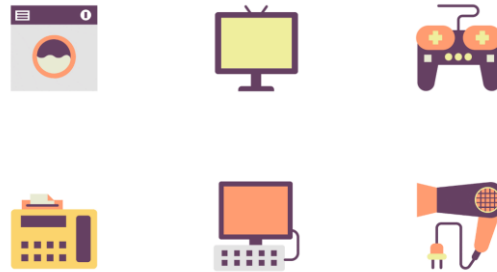




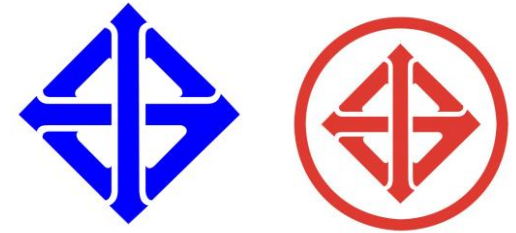
# TISI License



Factory Audit / ISO 9001/  
ISO 16949/



Product Testing  
ISO 17025 / TISI requirements



กรณีต้องแสดงมากกว่า 1 มอก. ให้ระบุหมายเลข มอก. ไว้ที่ใกล้เคียงกับ  
ไว้ตำแหน่ง ใต้ หรือ ข้าง เครื่องหมาย  
การแสดงเครื่องหมายฯ รวมทั้งใบอนุญาตและมีข้อมูลเกี่ยวกับผลิตภัณฑ์  
ในรูปแบบข้อมูลอิเล็กทรอนิกส์ (QR Code)  
หมายเหตุ ขนาดตำแหน่งจะระบุไว้ในหลักเกณฑ์เฉพาะฯ ของแต่ละผลิตภัณฑ์

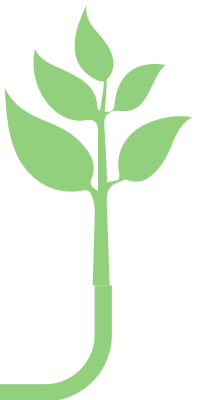


สังเกต  
เครื่องหมาย  
มอก.  
บนตัวปลั๊ก



สัญลักษณ์มอก.  
แบบใหม่ต้องมี  
QR Code

- ✓ มั่นใจ
- ✓ ตรวจสอบง่าย

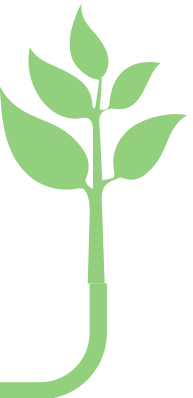


# Testing facility



National Agricultural machinery center ,  
Kasetsart University

Sugarcane whole stalk Planter for agricultural  
rubber-tire wheeled tractor (TIS 1480-2563)





# Testing facility



Agricultural Engineering Research Institute,  
Department of Agriculture  
Ministry of Agriculture and Cooperatives



Rice combine Harvester (TIS 1428-2560)





Thank You