



Bhutan Standards Bureau (BSB)

‘The National Standards Body of Bhutan’

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OUTLINE



Brief Background, Core Mandates & Organizational Structure



Services provided by BSB



Standardization Services

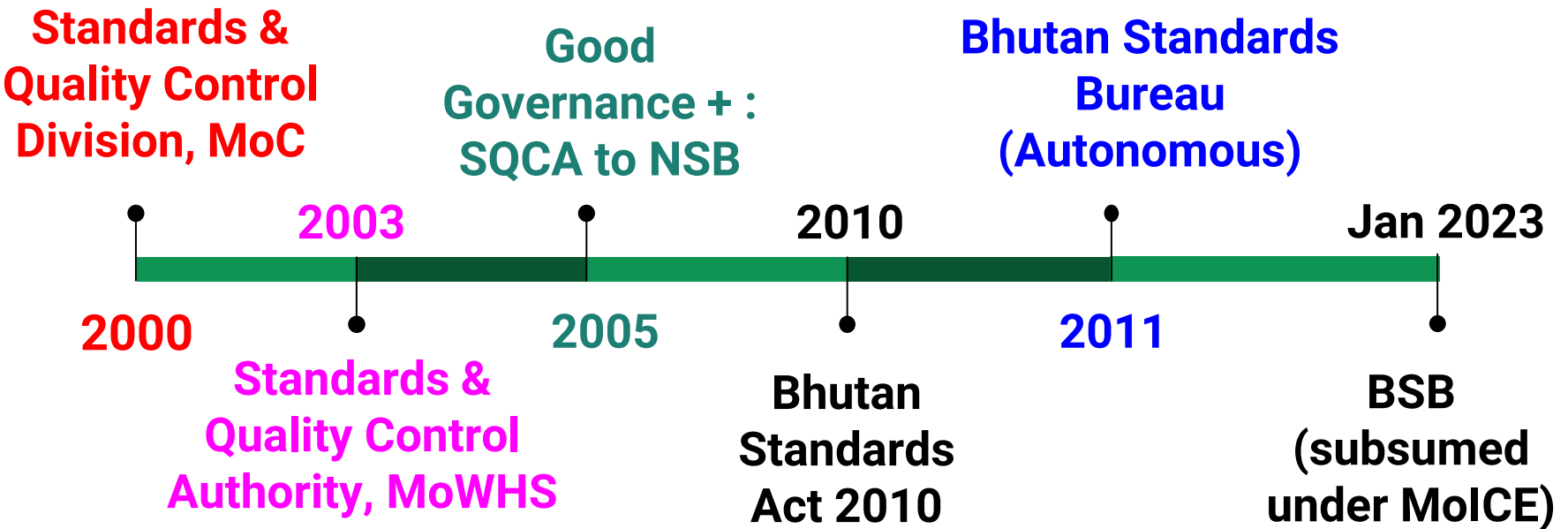


International memberships and partners



Challenges

BRIEF BACKGROUND



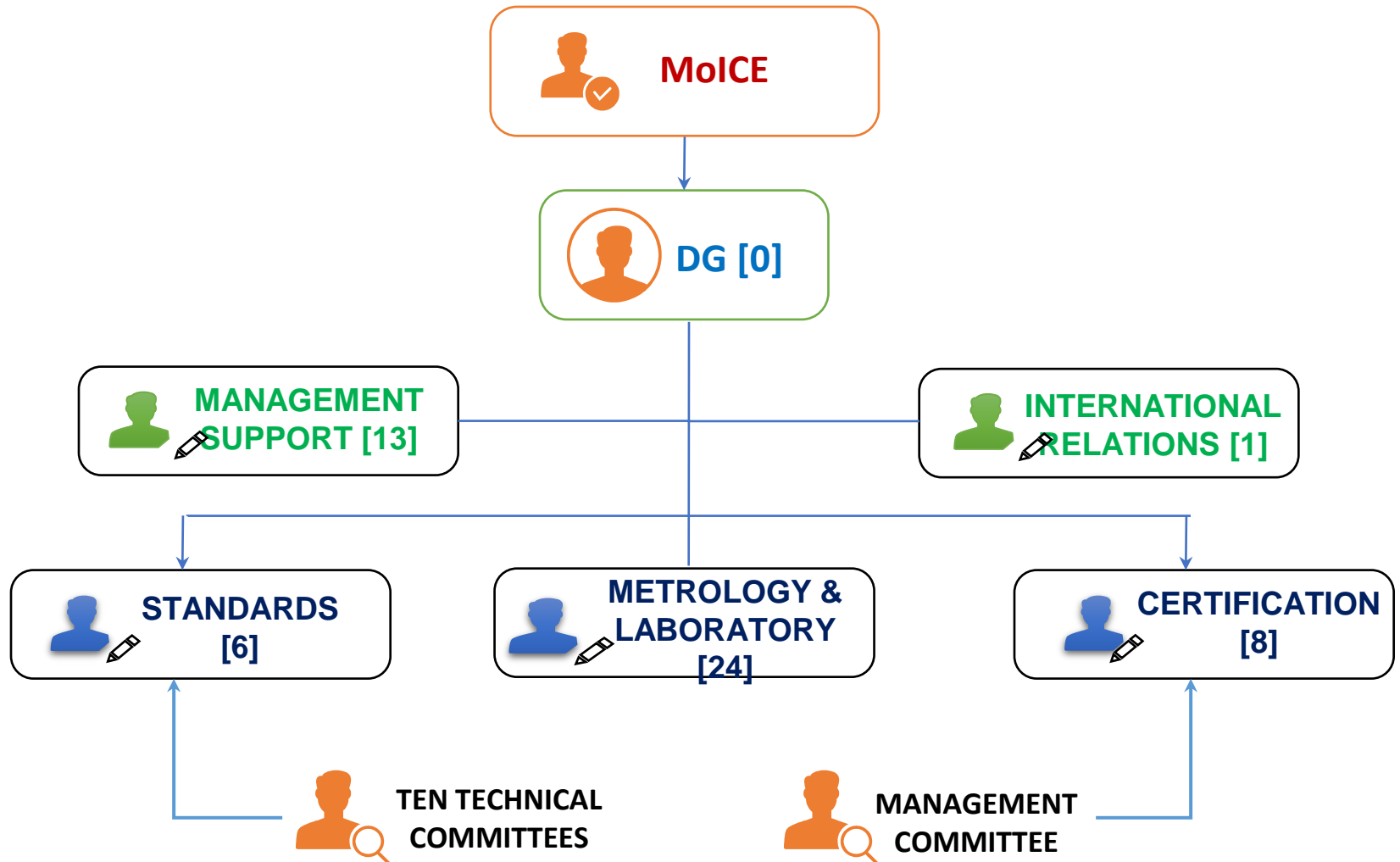
CORE MANDATES



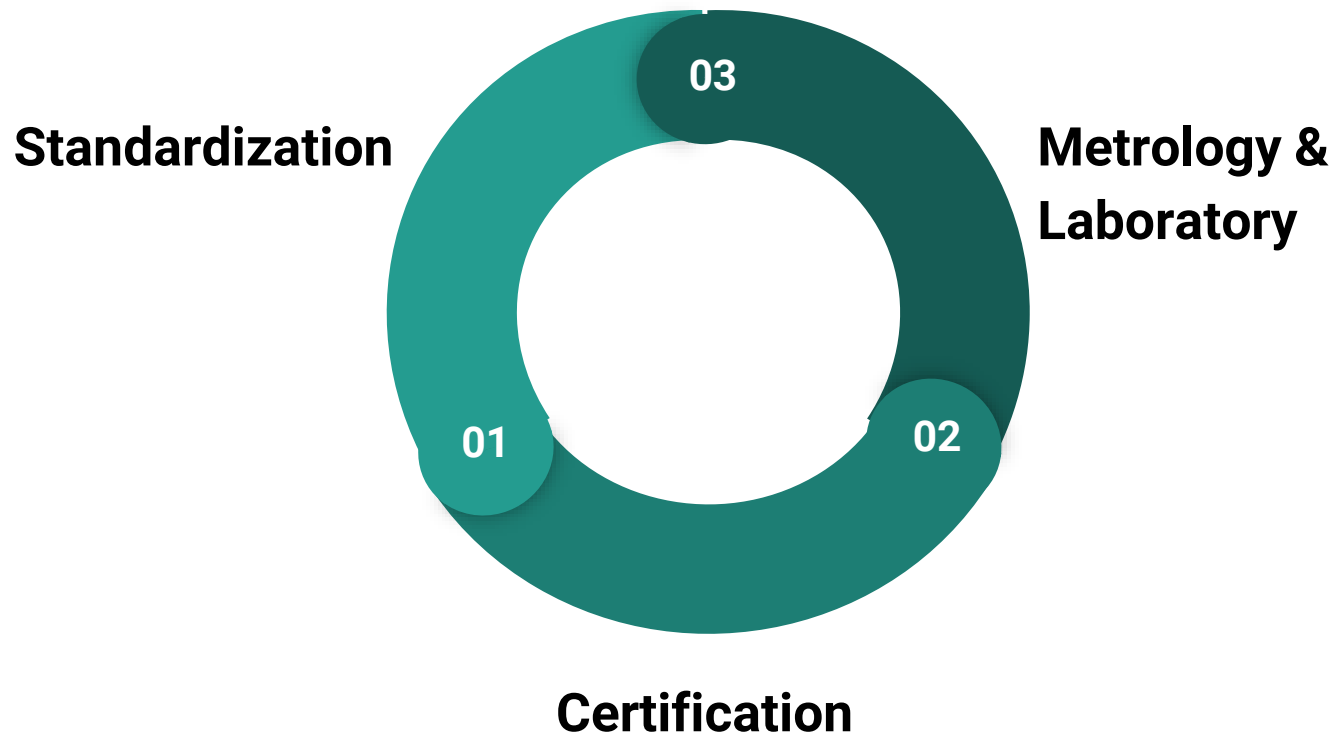
- 1. STANDARDS:** Develop & promote national standards and facilitate their implementation
- 2. METROLOGY:** Establish & operate the National Metrological Laboratory
- 3. ACCREDITATION:** Permit, coordinate and facilitate accreditation of laboratories and certification bodies
- 4. CONFORMITY ASSESSMENT SERVICES:** Establish and operate product testing infrastructure; carry out/operate product and management system certification schemes
- 5. PROMOTE QUALITY & STANDARDIZATION**
- 6. TRADE FACILITATION:** Facilitate implementation of the regional & international trade



ORGANIZATIONAL STRUCTURE



Services provided by BSB



Standardization Services



Standardization Services

1

**Develops/adopts
and publishes
national standards**

2

**Facilitate their
implementation
through publicity
and awareness
programs.**



Principles for Development of Standards



✓ **Consensus**



✓ **Transparency**



✓ **Approval by recognized body**



STANDARDIZATION METHODS

- ✓ **Development (405 Days)**
- ✓ **Adoption**
 - ✓ Identical
 - ✓ Modified
 - ✓ Non equivalent / development
- ✓ **Harmonization**

STAKEHOLDERS IN STANDARDIZATION



Industry



Business



Government Agencies



Regulatory Bodies



Academia



NGOs

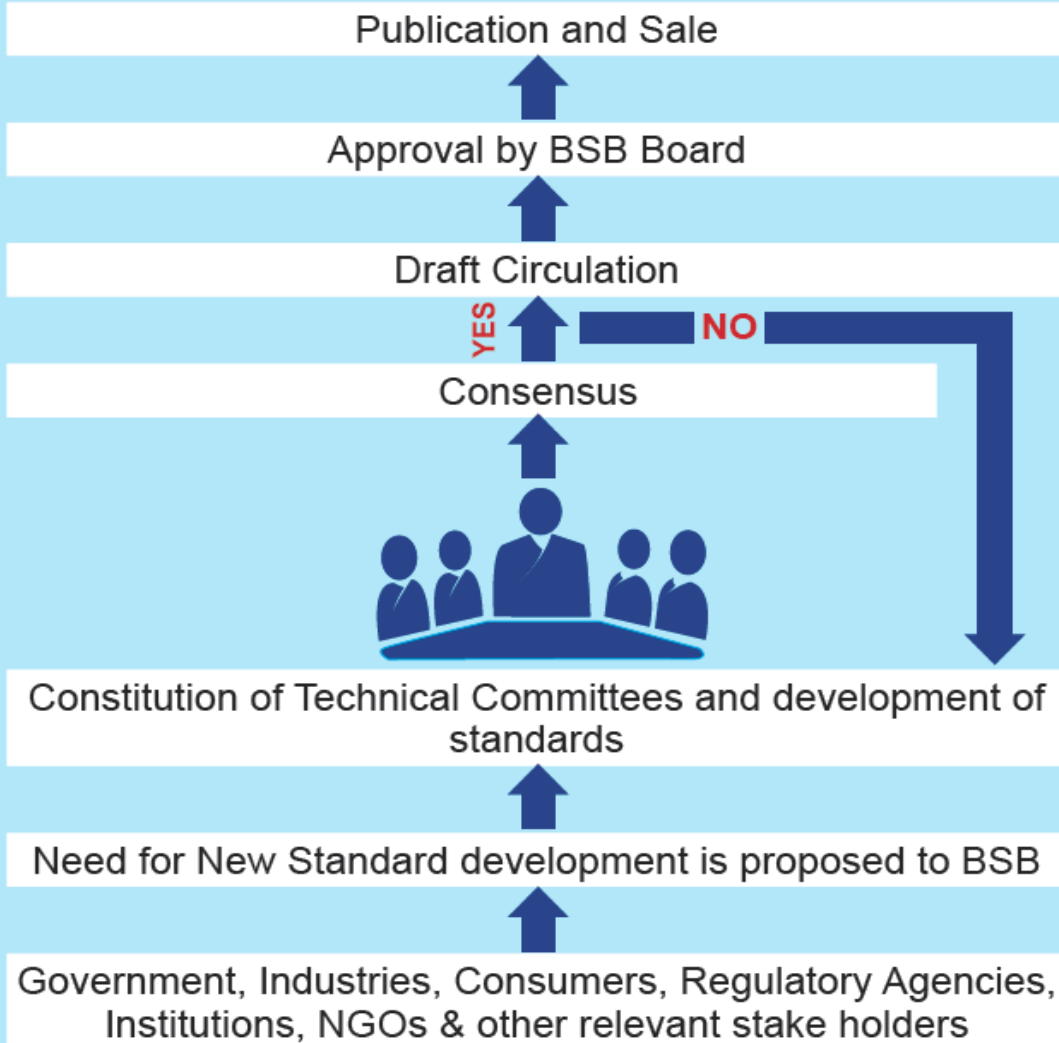


Others



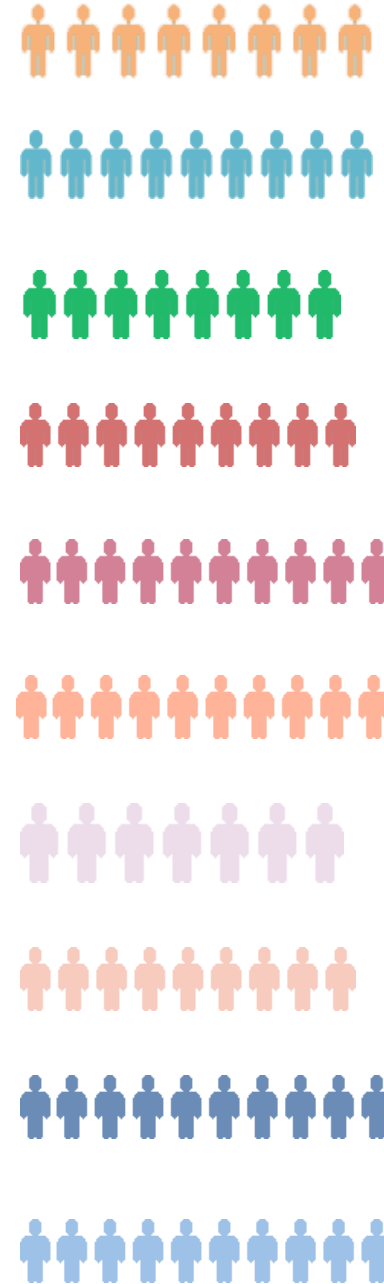
STANDARDS DEVELOPMENT

Standardization Process



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1	TC-01 Civil Engineering	 8
2	TC-02 Food & Agriculture	 9
3	TC-03 Electrical & Electronics	 8
4	TC-04 Basics & Management systems	 9
5	TC-05 Pharmaceutical & Traditional Medicines	 8
6	TC-06 Textiles and Handicraft	 10
7	TC-07 Wood & Timber Products	 7
8	TC-08 Mechanical Engineering	 9
9	TC-09 Graphical Symbols	 10
10	TC-10 Sustainability and Environment	 10



List of Standards under Mechanical Engineering TC

SL.No	STD No	Standards Title	Status
1	BTS 34: 2017	Power Tillers- Basic Requirements (Part 1)	Developed
2	BTS 35: 2018	Power Tiller Test Code (Part 2)	Developed
3	BTS 36: 2018	Power Reaper - Basic Requirements (Part 1)	Developed
4	BTS 37 :2018	Power Reaper - Test Code (Part 2)	Developed
5	BTS 38: 2019	Rice Mill- Basic Requirements (Part 1)	Developed
6	BTS 39: 2019	Rice Mill- Test Code (Part 2)	Developed
7	BTS 40: 2019	Cereal Flaking Machine - Basic Requirements (Part 1)	Developed
8	BTS 41: 2019	Cereal Flaking Machine- Test Code (Part 2)	Developed
9	BTS 42: 2019	Mini Power Tiller - Basic Requirements (Part 1)	Developed
10	BTS 43: 2019	Mini - Power Tiller - Test Code (Part 2)	Developed
11	BTS 364:2022	Portable Brush Cutter-Basic Requirements(Part 1)	Developed
12	BTS 365:2022	Portable Brush Cutter-Test Code(Part 2)	Developed
13	BTS 372 :2022	Grain Mill-Basic Requirement (Part 1)	Developed
14	BTS 373 : 2022	Grain Mill-Test Code (Part 2)	Developed
15	BTS XXX: 2023	Green House-Basic Requirement –Part 1	Ongoing
16	BTS XXX: 2023	Green House-Test Code –Part 2	Ongoing
17	BTS XXX: 2023	Knapsack Sprayer- Basic Requirement –Part 1	Ongoing
18	BTS XXX: 2023	Knapsack Sprayer- Test Code–Part 2	Ongoing
19	BTS XXX: 2023	Tractor- Basic Requirement –Part 1	Ongoing
20	BTS XXX: 2023	Tractor- Test Code–Part 2	Ongoing

International Memberships & Partners

Memberships:

1. Correspondent membership to International Organization for Standardization (ISO) since 2005
2. Affiliate + membership to International Electrotechnical Commission (IEC) since 2006
3. South Asian Regional Standardization Organization (SARSO)

MOUs:

1. Institute of Electrical and Electronics Engineers (IEEE) - 2021
2. ASTM International
3. BSTI, Bangladesh
4. BIS, India
5. NABL, NABCB and DTH, India
6. BSNI, Indonesia



Challenges

- ✓ Lack of Awareness or understanding on the importance of Standards for national economy.
- ✓ Lack of Resources.
- ✓ Lack of experts.
- ✓ Poor coordination between the stake holders.





Q & A

STANDARDIZATION UPDATE

- ❑ **Total Number of BTS: 341**
- ❑ **BSB Developed standards: 70**
- ❑ **Adoption of other standards as BTS:**
 - ❑ Identical: ISO-56, IEC:122,
ASTM-1 & BIS-83
 - ❑ SARSO Harmonized Standards: 11



Participation to ISO Standardization

- Participated as an observer to ISO TC
- 1. ISO/TC 23 : Tractors and machinery for agriculture and forestry
- 2. ISO/TC 23/SC 6 : Equipment for crop protection