Importance of measurement for international standards

Sergio Mujica, ISO Secretary General Versailles, France, 13 November 2018





71 years later...





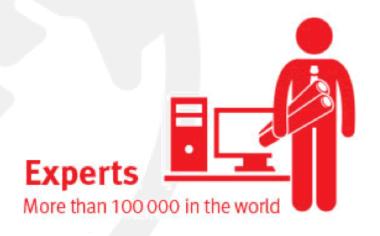


Represent ISO in their country

Propose/approve new standards



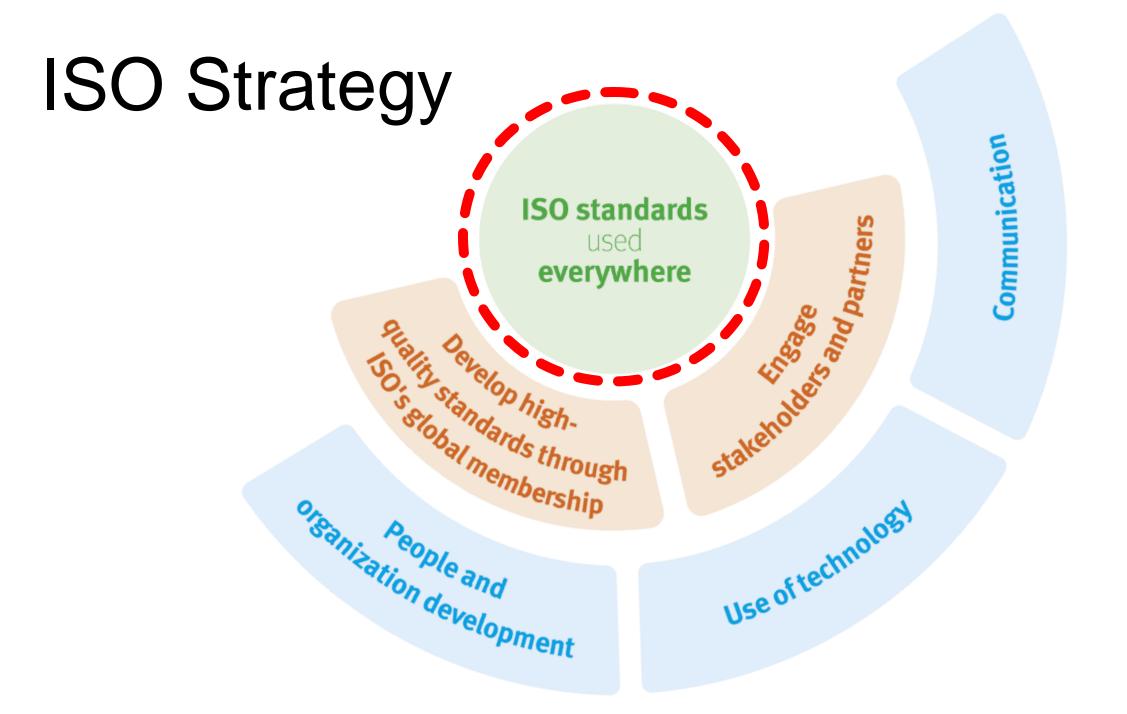




Write the standards









Partnerships are key





ISO Partners

More than 700 organizations including:

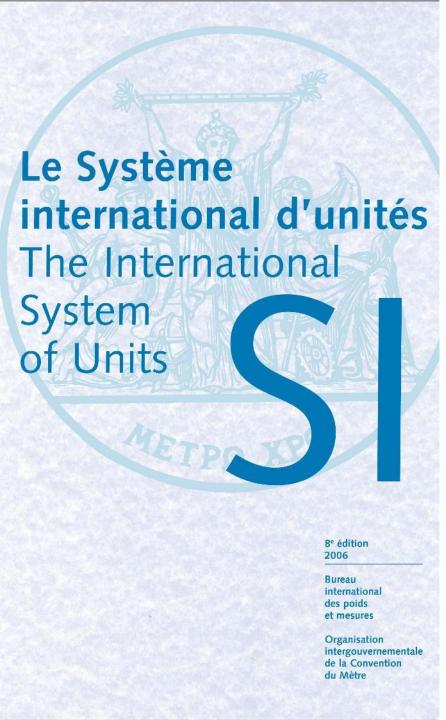
- IEC
- ITU
- WTO
- OECD
- ILAC
- IAF
- United Nations partners
- BIPM
- . . .





ISO and BIPM

- BIPM liaises with ISO committees including ISO/CASCO and ISO/Remco
- ISO experts contribute to BIPM consultative committees



Redefinition of the SI Units







Redefining the National Quality Infrastructure (QI)

- Complex quality and compliance system to ensure functionality, safety, health
- A weak QI = barrier to trade, public welfare

It relies on **metrology**, standardization, accreditation, conformity assessment, market surveillance".

Collaboration in metrology

Joint Declaration on Metrological Traceability





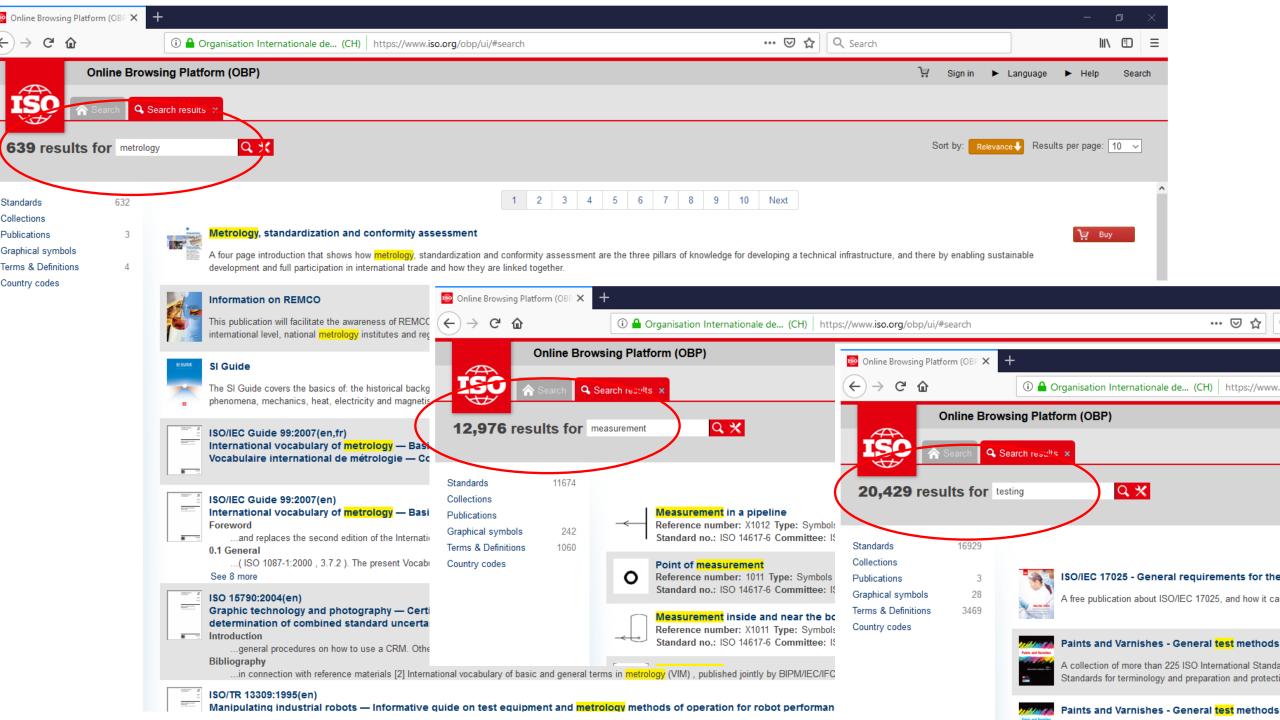






International Standards and metrology







Metrology

 Many standards require accurate measurements and thus use SI





ISO standards and SI units

Rules for writing standards mandate the use of SI units





Contribution to CASCO

ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories





The ISO 80000 series, Quantities and units

 Developed and maintained by ISO/TC 12, Quantities and units

 Consists of 11 Parts, complemented with 2 Parts from the IEC 80000.

 Provides the International System of Quantities (ISQ) in a variety of scientific fields





The SI Brochure and the ISO 80000 series

- Simultaneous revision of the SI Brochure and the ISO 80000
- Collaboration between ISO/TC 12 and CIPM/CCU for alignment
- Both documents reference to each other





Mars Climate Orbiter

- Used non-SI units (lbf s)
- => passed through upper atmosphere and disintegrated

Latest priorities









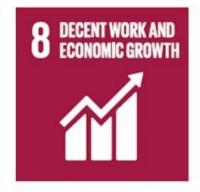


































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