CONSULTATIVE COMMITTEE FOR UNITS (CCU)

The CCU maintains and improves the International System of Units (SI), adapting it to the evolving needs of its users around the world and prepares successive editions of the SI Brochure. The CCU ensures the **overall consistency of the SI** and advises the CIPM on all matters concerning measurement units.

IMPACT

Accurate, reliable and comparable measurement as the basis of research, manufacturing, trade, healthcare, and environmental and consumer protection depends on the SI being applied consistently everywhere. The consistency rests on the coordinating role of the CCU.

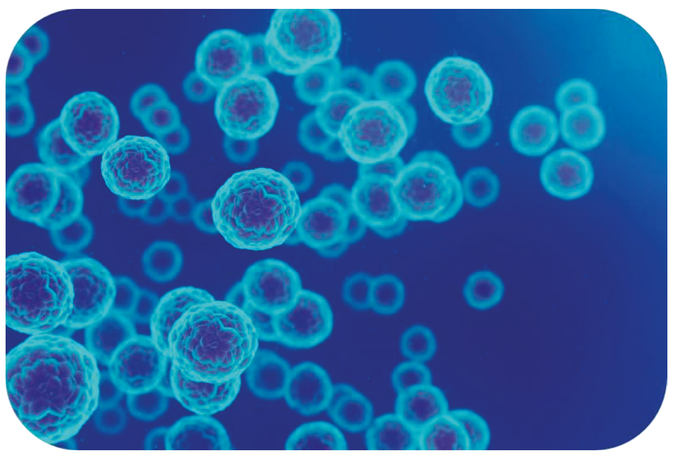
KEY ACHIEVEMENTS SINCE 2022

Publication of new versions of the SI Brochure

- 2.01 introduced the **new SI prefixes** adopted by the CGPM at its 27th meeting (2022).
- 3.01 improved the descriptions of **angle** and **quantities** with the unit one.
- 3.02 revised the **value of the dalton** and updated the list of binary prefixes.
- 4.01 revised the description of the **relationship** between widely used **non-SI units and the SI.**



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Extending the use of the SI

Together with the CCQM, the CCU organized a workshop to achieve **consensus** on the treatment within the SI of **quantities that are a number of entities**, of relevance for chemistry and biology. This led to an improved treatment of angles and of quantities with the unit one in the SI Brochure.

Support for digitalization

The CCU is working on a mathematical framework for definitions of core metrological terms ("quantity", "unit", etc.) that underpin **machine-actionable services** in metrology for the **Quality Infrastructure**.



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