CONSULTATIVE COMMITTEE FOR AMOUNT OF SUBSTANCE: METROLOGY IN CHEMISTRY AND BIOLOGY (CCQM)

The CCQM's vision is a world in which **all chemical and biological measurements** are made at the **required level of accuracy** to meet the needs of society. **It advances global comparability** of chemical and biological measurement standards and capabilities to enable Member States and Associates to make measurements with confidence.

IMPACT

The CCQM's activities help ensure that diagnostic tests are accurate, food is safe and correctly labelled, and environmental data are trustworthy by coordinating global comparisons of chemical and biological reference standards.

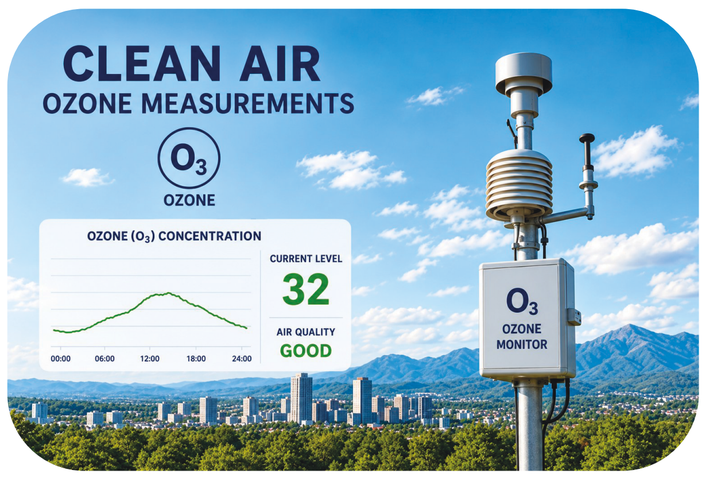
KEY ACHIEVEMENTS SINCE 2022

Rapidly available standards for infectious disease

- NMIs support **pandemic responses** by ensuring rapid availability of reference materials enabling production of reliable **diagnostic test kits** world-wide.
- CCQM works with NMIs to be able to develop **RNA and Protein standards** within weeks of a pandemic outbreak: NMI capabilities are demonstrated in **'fire-drill' comparison exercises.**



Credit: ChatGPT



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Accurate Ozone Standards for clean air

- Surface ozone is a major modern air pollutant.
- Since 2025 **more accurate ozone measurements** are being made world-wide due to a change to more accurate standards coordinated by the CCQM.

Safer food with accurate testing

- Contamination of food can lead to illness and death.
- NMIs develop **reference materials** for reliable testing of foods.
- **Strategy for standards required globally** for better food testing developed by the CCQM.



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