# CONSULTATIVE COMMITTEE FOR IONIZING RADIATION (CCRI)

The CCRI provides the international framework for the development, comparison and recognition of **ionizing radiation measurement standards**, underpinning confidence, traceability and global equivalence of measurements across healthcare, industry, research and emerging technologies.

**IMPACT**

CCRI activities enable safer and more effective cancer treatment and personalized medicine; improved radiation protection for more that 22 million workers; food irradiation, affecting more than 3 billion people; and safer, more cost-effective decommissioning of hundreds of nuclear reactors.

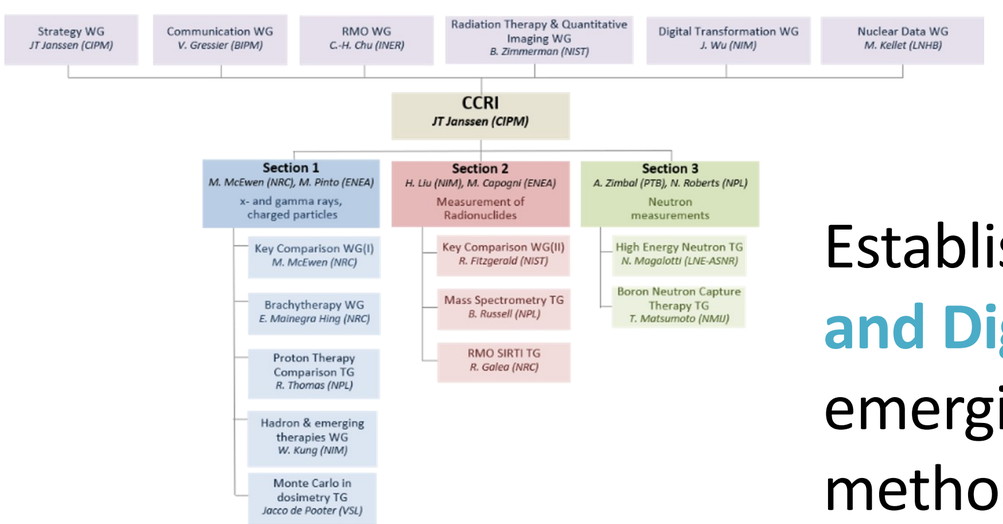
# KEY ACHIEVEMENTS SINCE 2022

## Key developments and new technologies

- Expansion into **advanced radiotherapy** (FLASH, hadron therapy, BNCT) and **novel radiopharmaceuticals**.
- Adoption of **digital metrology tools** (DCCs, algorithm benchmarking, digital twins).
- Development of **next-generation measurement technologies** (cryogenic detectors, advanced mass spectrometry, novel detector materials).



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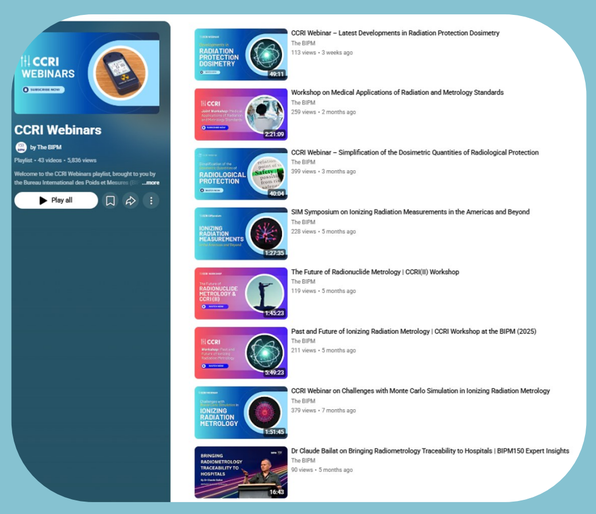

Credit: BIPM

## New structure aligned with strategic priorities

Establishment of dedicated Working Groups on **Nuclear Data and Digital Transformation**, and new Task Groups addressing emerging challenges in advanced radiotherapy, Monte Carlo methods, mass spectrometry, SIRTI, high-energy neutrons and BNCT.

## Enhanced impact, outreach and integration

Broader participation through **increased membership, observer and guest engagement**, stronger links with **Regional Metrology Organizations** and the **International Atomic Energy Agency (IAEA)**, and **expanded knowledge-sharing activities** - 42 webinars, 5 workshops, > 6 700 participants, +18 000 YouTube views, and +2 300 subscribers across 40+ countries.




Credit: BIPM