

COOMET ROADMAP FOR THE IMPLEMENTATION OF DECISIONS RELATED TO THE REDEFINITION OF THE BASIC UNITS OF THE INTERNATIONAL SYSTEM OF UNITS (SI)

| A. COOMET Roadmap for the implementation of decisions related to the redefinition of the base units of the International System of Units (SI) | | | | | | | |
|---|-----------|--|------|--|------|---|------|
| Action | Indicator | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| A.1 Carrying out comparisons | A.1.1 | | | | | SSM.K-7 (VNIIM, RF), | |
| | A.1.2 | | | | | Comparisons EURAMET - dissemination of the mass unit in the range from 1 mg to 20 kg with uncertainties from 0.001 mg to 3 mg or better (NSC IM, Ukraine) | |
| | A.1.3 | | | Comparisons of national standards of the temperature unit in the range from 961 °C to 3000 °C (VNIIM, RF) | | | |
| | A.1.4 | COOMET: 802 / UZ / 20 "Pilot comparison of voltage, ac and dc current and electrical resistance standards" (UzNIM Uzbekistan -pilot, INM, Moldova; NSC "Metrology Institute", Ukraine; TÜBİTAK UME, Turkey) | | | | | |
| | A.1.5 | | | Organization of comparisons of voltage standards based on the Josephson effect | | | |
| | A.1.6 | | | Organization of comparisons of electrical resistance standards based on the Hall effect | | | |

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| | A.1.7 | CCQM-K167: Carbon isotope delta measurements of vanillin (VNIIM , RF) | | | | | |
| | A.1.8 | CCQM-P212: Coherence of carbon isotope delta reference materials (VNIIM , RF) | | | | | |
| | A.1.9 | CCQM-P204, CO2 Isotope Ratios ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) in pure CO2 (VNIIM , RF) | | | | | |
| A.2 Participation in joint scientific projects, EMPIR projects | A.2.1 | Project EMPIR 19RPT02 RealMass Improvement of the realisation of the mass scale (NSC IM , Ukraine) https://www.euramet.org / research-innovation / search-research-projects / details / project / improvement-of-the-realization-of-the-mass-scale / | | | | | |
| | A.2.2 | EMPIR 18SIB04 Quantum Pascal Project Towards quantum-based realizations of the pascal (PTB, Germany) https://www.euramet.org/research-innovation/search-research-projects/details/project/towards-quantum-based-realizations-of-the-pascal | | | | | |
| | A.2.3 | | Project EMPIR 19ENV05: Stable isotope metrology to enable climate action and regulation (RTV, Germany; VNIIM , RF) https://www.euramet.org/research-innovation/search-research-projects/details/project/stable-isotope-metrology-to-enable-climate-action-and-regulation | | | | |
| A.3 Participation in the work of interregional organizations (CC, WG CIPM), in interaction with other RMOs | A.3 .1. | Participation in the work of CCM work, participation in the work of CCM WG on strategy | | | | | |
| | A.3.2. | Participation in the work of WG on Kibble- balance | | | | | |
| | A.3.3. | Participation in CCT work , participation in CCT WG WG CMCs | | | | | |
| | A.3.4. | | Joint meeting of COOMET TC 1 .10 and EURAMET TCT | | | | |

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| | A.3.5. | Participation in the work of CCEM | | | | | | |
| | A.3.6. | WG participation: GAWG Gas Analysis Working Group , IRWG Isotope Ratios Working Group | | | | | | |
| | A.3.7 | Joint participation in the meetings of COOMET and EURAMET TCs | | | | | | |
| A.4 Organization and holding of training events | A.4.1. | Organization and holding of a seminar on influence of the mass unit redefinition on measurements of mass and related quantities in general: advantages and consequences; speakers - Ch. Kuanbaev , M. Stock (BIPM , France) | | | | | | |
| | A.4.2. | | | | | Organization and holding of the seminar “Current state of the kilogram redefinition and progress in starting its implementation (simultaneously with the meeting of the TC on mass) | | |
| | A.4.3 | | | Organization and holding of training events for the implementation of the new definition of kelvin in the range from 0 to 3000 ° C | | | | |

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| | A.4.4 | | Training seminar on "Metrology of stable isotopes" during the TC 1.8 meeting. | | | | |
| A.5. Participation in conferences, incl. those held online | A.5.1. | Participation in thematic conferences | | | | | |
| | A.5.2. | Webinar on the KCDB 2.0 within the framework of BIPM CBKT program (online) | | | | | |
| | A.5.3. | Report " VNIIM PULSE - DRIVEN AC JOSEPHSON VOLTAGE STANDARD " in the framework of the online CPEM conference | | | | | |
| | A.5.4 | | | TEMPMEKO 2022 | | | |
| | A.5.5. | | | | 10th International Temperature Symposium (ITS10), Anaheim, CA, USA | | |
| | | | | General Assembly 2021 of the European Geosciences Union (EGU) | | | |

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| A.6. Discussion of the progress of work on implementation of the Roadmap at the TC meetings | A.6.1. | At annual meetings of the TC, discussion of the results of the work performed and updating the roadmap. | | | | | |