

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.					