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European Metrology Programme for Innovation and Research Decision (EU) 2021/2084 Delegation Agreement RTD/xxxxxxx

European Partnership on Metrology ANNUAL REPORT 2021 – Part E Period: 1 January 2021 – 31 December 2021

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1 Implementation of the cofounding activities described in the annual work programme and the resulting activities

1.1 Definition of the National cofounding activities area of the programme to be opened

This document provides information on completing the National Cofunding Technical Report, which is a mandatory annual report to be submitted to EURAMET by the National Cofunding Coordinators of all countries contributing to the European Partnership on Metrology (Partnership). There will be a separate report on the Financial Report which provides information on reporting costs of the activities described in the technical report which will be submitted with the financial reports from EURAMET submitted by 15th March.

The Cofunding Technical Report is an electronic report detailing activities performed by the NMIs and DIs of the reporting country whose costs may be counted towards national cofunding of the Partnership.

In the most general sense, activities whose costs count toward national cofunding of the Partnership are those performed by NMIs and DIs that are funded from national resources – i.e. governmental and other public funding agencies and which can be related to the subject areas of at least one EURAMET European Metrology Network (EMN) or Technical Committee (TC). Reportable activities fall under the three types of 'Capability Maintenance', 'Research', and 'Knowledge Transfer'. This division of activities into types is reflected in the structure of the reporting template. The three types of activities are further divided into subtypes in the reporting to guide reporting institutions as to which specific activities may be included in the report.

Activities eligible to be counted as cofounding activities under each type and subtype may include:

Capability Maintenance											
Maintenance of National Standards	 Any technical and administrative activities that could be reasonably linked to the necessity to maintain established national measurement standards: Routine repair and maintenance activities on standards equipment, and systems Activities aimed at upgrading national standards Routine activities (internal & external calibrations, for example) to maintain traceability of standards 										
Key & Supplementary Comparisons	 Any activities linked to participation in international key and supplementary comparisons: Preparation of comparison protocols Preparation of measurement standards for participation in comparisons Comparison measurements Measurement data analysis and reporting Preparation of comparison reports 										
QMS Activities	Activities involving the establishment, maintenance, implementation, and improvement of a Quality Management System (QMS) compliant with CIPM MRA requirements: - Preparation/revision of QMS documentation - Internal audits - Preparation for accreditation / peer reviews - Drafting annual reports for EURAMET TC-Q - Internal training on QMS										

	Capability Maintenance								
Other Metre Convention / CIPM MRA Activities	 ctivities other than key and supplementary comparisons and QMS ctivities that are related to the participation in / implementation of the Metro onvention and CIPM MRA: Preparation for and drafting of CMC declarations CMC reviews Participation in CIPM Consultative Committee meetings and activities Participation in the CGPM and other CIPM/BIPM organised meetings and activities 								
Staff Training	Preparation for and implementation of internal staff training aimed at sustaining and improving the proficiency of employed staff in the performance of their duties in service of core NMI/DI activities.								
Strategic Planning Activities	Activities aimed at drafting, revising and implementing strategic plans aimed at sustaining institutional viability and development								
	Research								
Nationally Funded Research	esearch activities in metrology funded from institutional, national overnment or other national public resources that are aligned with the rategic research agendas of EURAMET EMNs. This can include activities all stages of the project cycle from development of the project proposal termination.								
New Measurement Standard & Infrastructure Development	ationally funded research and development activities specifically focused n development of new measurement standards and associated quipment, systems, methods, etc, and new metrology infrastructure.								
Partnership PRT and Proposal Development	ctivities to develop and draft Potential Research Topics (PRT) and Joint esearch Project proposals for the Partnership, including participation in artnering Meetings and Review Conference.								
	Knowledge Transfer								
Accreditation Activities	Participation in and contributions to the activities of national, regional, and international accreditation bodies.								
Standardisation Activities	Participation in and contributions to the activities of national, regional and international standardisation bodies.								
Conference/Seminar/Workshop	Organisation and participation by staff in scientific conference seminars, and workshops.								
Non-commercial Consulting Training	& Consulting and training activities (other than staff training) which do not have a commercial purpose, funded from public and/or national resources.								
Public Communications	 Public communication activities aimed at raising awareness and sharing knowledge on metrology and institutional activities, such as: Preparation and publication of annual reports Public communication campaigns to raise awareness of issues related to metrology Open house events for the public Activities aimed at students at any level 								
Stakeholder Events	Organisation of events (workshops, seminars, conferences, etc.) aimed at sharing knowledge with institutional stakeholders.								
EMN Meetings & Activities	Organisation of, participation, and contributions to EMN meetings and activities.								

Knowledge Transfer										
TC Meetings & Activities	Organisation of, participation and contributions to TC meetings and activities.									
Representation	Institutional representation activities not covered by any of the above. This could include participation to EURAMET General Assembly, to meetings and activities of other national, regional, and international bodies.									

This Report should not be seen as a fully comprehensive list of all NMI and DI activities that are funded from national resources but should generally provide a compendium of activities that is proportional to the size of the reporting country's national commitment to the Partnership and its reported costs of cofunding activities for the year.

No activities funded within the Joint Research Projects and Joint Network Projects of the Partnership or EMPIR, other Horizon Europe projects, or by commercial clients are included in the report.

Each activity reported fall under one of the three activity categories of capability maintenance, research, and knowledge transfer and be credibly relatable to the activities of one EMN, or as a second option, a TC. Membership in an EMN is not a precondition for linking reported activities to it, provided that the activity is aligned with the scope of the EMN.

1.2 Demonstration of FTE activities

22 countries participated in this year's cofounding reporting:

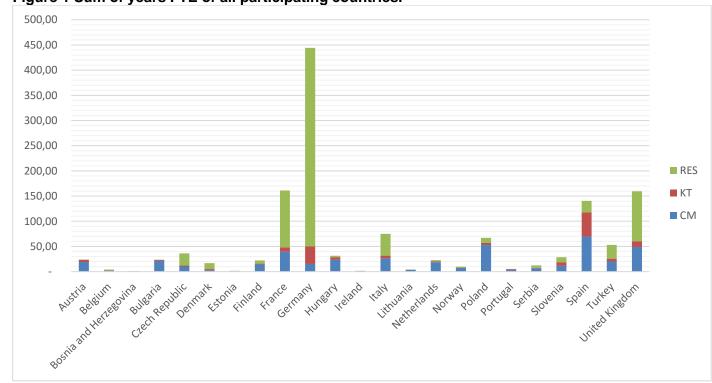


Figure 1 Sum of years FTE of all participating countries.

1.3 Activities breakdown by EMNs and TCs

EURAMET does have 12 TCs and currently 9 approved EMNs.

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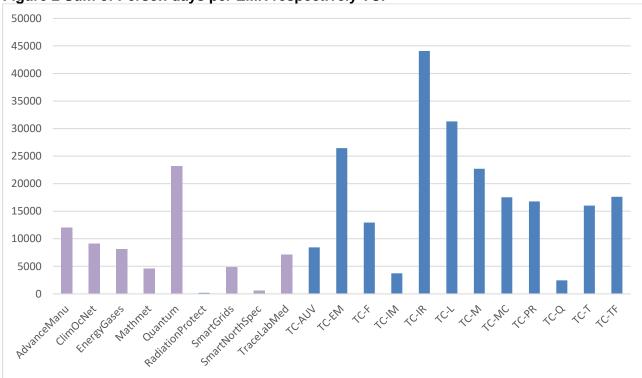


Figure 2 Sum of Person days per EMN respectively TC.

1.4 Activities breakdown per subcategory

The table includes all reported person days per mentioned subcategories within the three main categories Capability Maintenance, Research and Knowledge Transfer.





1.5 Overall breakdown in & per country

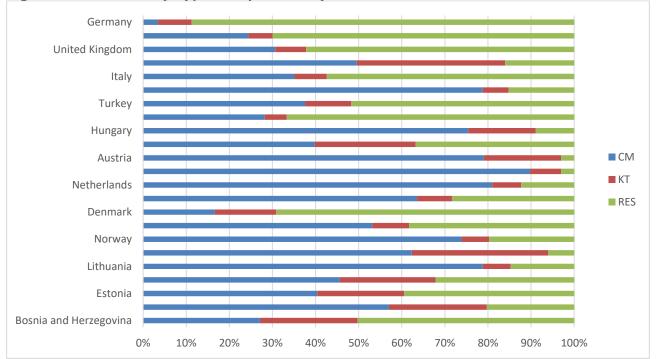
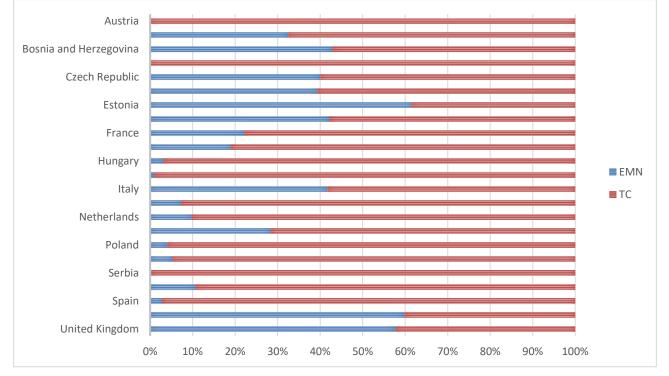


Figure 4: breakdown by Type in % per country.

1.6 Distribution of EMN and TC in % per country.

Figure 5: distribution of activities in respect to EMN and TCs in % per country.



1.7 Overall data of Person days per EMN and TC per country.

Row Labels	 Austria B 	elgium B	losnia and Herzegovina	Bulgaria	Czech Republic	Denmark	Estonia	Finland	France G	iermany H	ungary Ir	eland Italy	Lithuania	Netherlands	Norway	Poland	Portugal	Serbia	Slovenia S	pain T	urkey I	United Kingdom	Grand Tota
AdvanceManu		10			2164	368		250	303			61	57 3	3 4	0	73	7		265	52	1926	5892	1205
ClimOcNet		170				279		528	1071	952		7	58	5	5 50	209	10			42	1532	3509	916
EnergyGases			34	1	2			125	118	2017	210	20	50	16	4 45	256	20			102	96	4640	808
Mathmet		124	32	2		338			891	1851		3 70	04	3	0	16	7			12		612	462
Quantum					608	394	62	428	3965	9469		23	54	7	281	. 15	3			177	1992	3405	2316
RadiationProtect			2	2	1			15	9							1	15	10	145				19
SmartGrids			30)	350	38	101	159	520	1553		5	6 2	9 19	0 212	5			16	453	570	15	
SmartNorthSpec						7	41	532							10								59
TC-AUV	359			484				40	491	3973		29				1208	9			196	518	1060	842
TC-EM	1163	50		1052			10	251	2211	8180	796	72 44				3679	79	313	290	442		2055	
TC-F	1102		17	7 72	103	530		5	66	5439	1024	17 63	33 42			207	108	28	210	159		1825	
TC-IM	42	57	52					197	15	1596			18 2				4	8	191	107	4	1025	
TC-IR	409		30					990	8506	8111	1152	1				582	440	849	295 1		580	620	
TC-L	446	273		686			25	267	2217	18863	712	25 20				1313	58			4157	94	280	
TC-M	814	17	2	2 597			26	124	2324	8122	784	43 66					150	244		1156	546	2030	
TC-MC		72	30	241				105	1579	6757	874	7					48		1903	385	1570	672	
TC-PR	50			440		286	25	576	2145	9317	546	4 5		34		544	20			1110	160	274	
TC-Q	374	126		409			22	133	26	135		11 1					113	185	135	159	86		246
TC-T	168	16		765			20	15	3201	4083	386	47 8				1204	71	872	1700	728		170	
TC-TF	269	20		208	448	342		90	4183	2863	268	30 8		2 21	9 383	640	38	171	17	965	1040	4505	
TraceLabMed						8			781	2213		13			5				232		730	1740	
Grand Total	5196	935	229	5122	7813	3644	332	4830	34622	95494	6752	321 161	04 95	1 495	6 2112	14410	1200	2680	6171 3	0227	11444	34329	28987

Table 1 person days per EMN/TC per country