

European Partnership on Metrology Decision (EU) 2021/2084

FINANCIAL FRAMEWORK PARTNERSHIP AGREEMENT 2021/METROLOGY/01

**European Partnership on Metrology ANNUAL REPORT
2023 – Part E
Period: 1 January 2023 – 31 December 2023**

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TABLE OF CONTENTS

1 IMPLEMENTATION OF THE COFUNDING ACTIVITIES DESCRIBED IN THE ANNUAL WORK PROGRAMME AND THE RESULTING ACTIVITIES	3
1.1 The scope of National cofunding activities	4
1.2 Demonstration of FTE activities	6
1.3 Activities breakdown by EMNs and TCs	7
1.4 Activities breakdown per subcategory	9
1.5 Overall breakdown in & per country	10

TABLE OF FIGURES

Figure 1: Sum of years FTE of all participating countries.	6
Figure 2: Sum of FTE years per EMN and TC.....	7
Figure 3: Activities per subcategories in FTEs.	9
Figure 4: Breakdown by type of activity reported by country.	10

TABLE OF TABLES

Table 1: Cofunding activities by EMN and TC in FTE years reported for 2023	8
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Glossary

BIPM	International Bureau of Weights and Measures
CGPM	General Conference on Weights and Measures
CIPM	International Committee for Weights and Measures
CMC	Calibration and Measurement Capability
DI	Designated Institute
EMN	European Metrology Network
EMPIR	European Metrology Programme for Innovation and Research
EU	European Union
FTE	Full-Time Equivalent
MRA	Mutual Recognition Arrangement
NMI	National Metrology Institute
PRT	Potential Research Topic
QMS	Quality Management System
TC	EURAMET Technical Committee
TC-Q	EURAMET Technical Committee on Quality

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

1.1 The scope of National cofunding activities

As laid out in the Cofunding Reporting Strategy approved by the Metrology Partnership Committee according to relevant provisions of Decision (EU) 2021/2084, 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, which can be related to the subject areas and priorities of at least one EURAMET European Metrology Network (EMN) or Technical Committee (TC), including activities that support the delivery of calibrations and other services traceable to the International System of Units. The strategy mandates Participating States to submit an annual report of their cofunding activities and their costs. 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 technical cofunding report. The three types of activities are further divided into subtypes to guide reporting institutions as to which specific activities may be included in the report.

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

Capability Maintenance	
Maintenance of National Standards	<p>Any technical and administrative activities that could be reasonably linked to the necessity to maintain established national measurement standards:</p> <ul style="list-style-type: none"> - 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	<p>Any activities linked to participation in international key and supplementary comparisons:</p> <ul style="list-style-type: none"> - 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	<p>Activities involving the establishment, maintenance, implementation, and improvement of a Quality Management System (QMS) compliant with CIPM MRA requirements:</p> <ul style="list-style-type: none"> - Preparation/revision of QMS documentation - Internal audits - Preparation for accreditation / peer reviews - Drafting annual reports for EURAMET TC-Q - Internal training on QMS
Other Metre Convention / CIPM MRA Activities	<p>Activities other than key and supplementary comparisons and QMS activities that are related to the participation in / implementation of the Metre Convention and CIPM MRA:</p> <ul style="list-style-type: none"> - 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

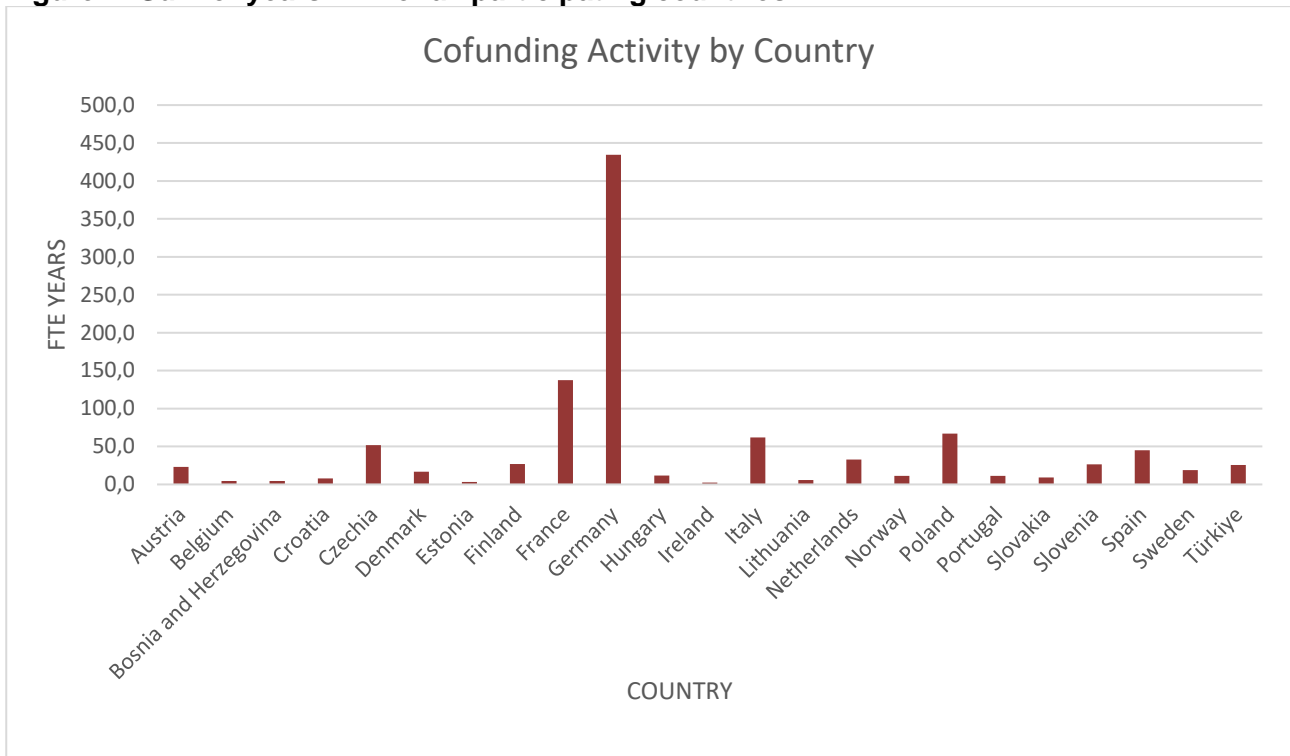
Capability Maintenance	
Staff Training	Preparation for and implementation of internal staff training aimed at sustaining and improving the proficiency of employed staff in the performance of their duties in service of core NMI/DI activities.
Strategic Planning Activities	Activities aimed at drafting, revising and implementing strategic plans aimed at sustaining institutional viability and development
Research	
Nationally Funded Research	Research activities in metrology funded from institutional, national government or other national public resources that are aligned with the strategic research agendas of EURAMET EMNs. This can include activities at all stages of the project cycle from development of the project proposal to termination.
New Measurement Standard & Infrastructure Development	Nationally funded research and development activities specifically focused on development of new measurement standards and associated equipment, systems, methods, etc, and new metrology infrastructure.
Partnership PRT and Proposal Development	Activities to develop and draft Potential Research Topics (PRT) and Joint Research Project proposals for the Partnership, including participation in Partnering 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/Workshops	Organisation and participation by staff in scientific conferences, 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: <ul style="list-style-type: none"> - 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.
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.

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 may be counted as cofunding activities.

1.2 Demonstration of FTE activities

For the year 2023, 23 participating states reported cofunding activities:

Figure 1: Sum of years FTE of all participating countries.



1.3 Activities breakdown by EMNs and TCs

EURAMET currently has 12 TCs and 12 approved EMNs.

Figure 2: Sum of FTE years per EMN and TC

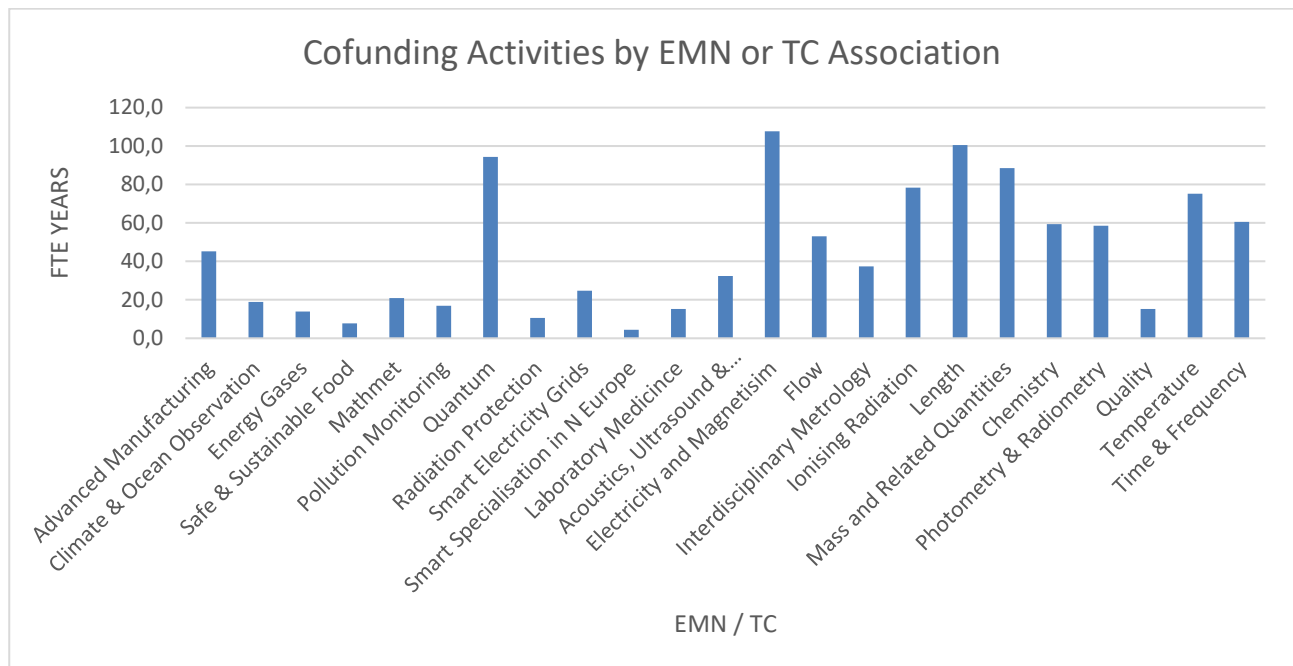


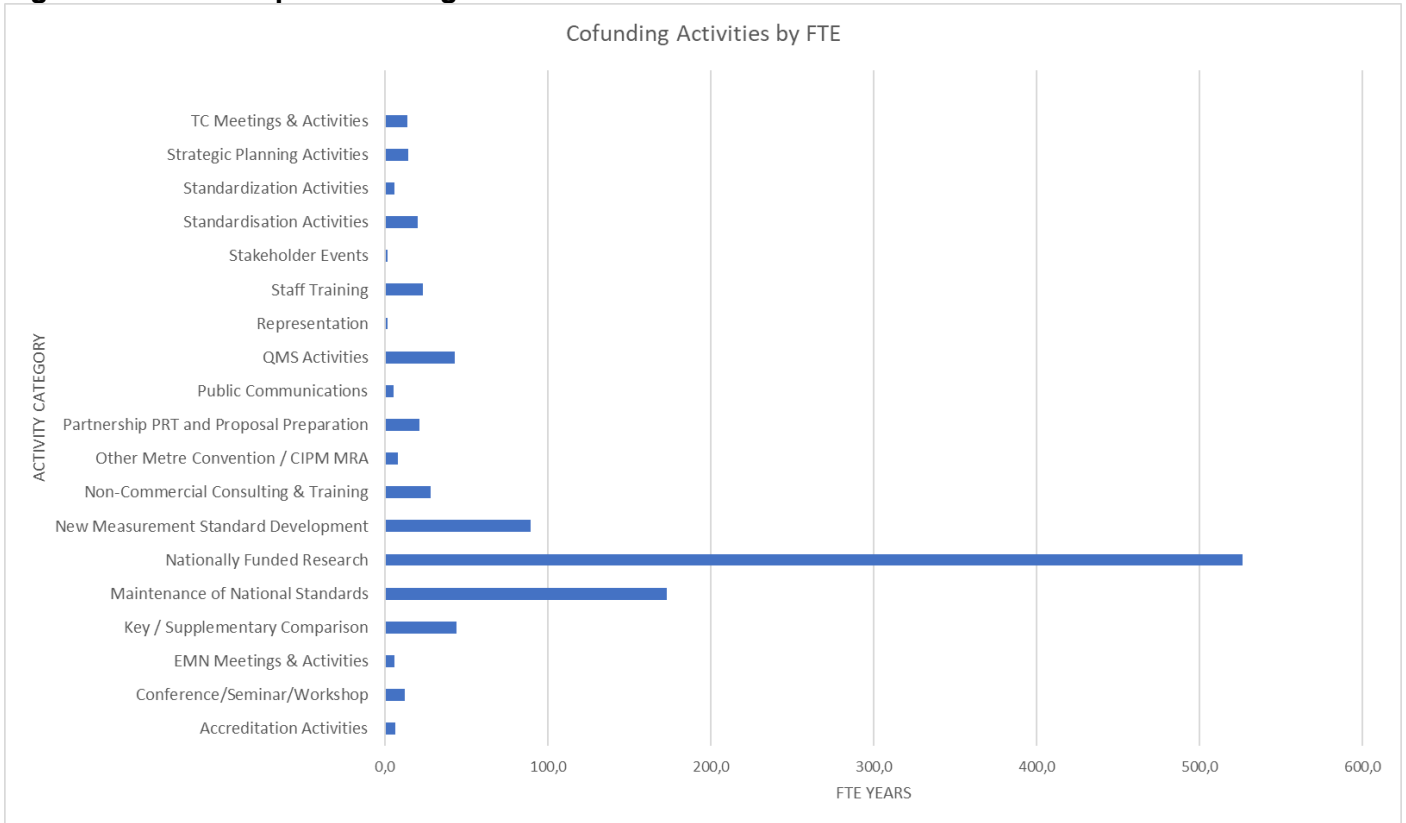
Table 1: Cofunding activities by EMN and TC in FTE years reported for 2023

category	name	FTE Years
EMN	Advanced Manufacturing	45,3
EMN	Climate & Ocean Observation	19,0
EMN	Energy Gases	13,8
EMN	Safe & Sustainable Food	7,7
EMN	Mathmet	20,8
EMN	Pollution Monitoring	17,0
EMN	Quantum	94,3
EMN	Radiation Protection	10,6
EMN	Smart Electricity Grids	24,8
EMN	Smart Specialisation in N Europe	4,4
EMN	Laboratory Medicince	15,2
TC	Acoustics, Ultrasound & Vibration	32,4
TC	Electricity and Magnetisim	107,7
TC	Flow	53,1
TC	Interdisciplinary Metrology	37,5
TC	Ionising Radiation	78,4
TC	Length	100,6
TC	Mass and Related Quantities	88,6
TC	Chemistry	59,4
TC	Photometry & Radiometry	58,5
TC	Quality	15,3
TC	Temperature	75,2
TC	Time & Frequency	60,5
	Grand Total	1039,9

1.4 Activities breakdown per subcategory

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

Figure 3: Activities per subcategories in FTEs.



1.5 Overall breakdown by type of activity reported by country

Figure 4: Breakdown by type of activity reported by country.

