

**European Metrology Programme for
Innovation and Research
Decision (EU) 2021/2084
FINANCIAL FRAMEWORK
PARTNERSHIP AGREEMENT**

2021/METROLOGY/01

**European Partnership on Metrology ANNUAL REPORT
2022 – Part E
Period: 1 January 2022 – 31 December 2022**

**Author: Dagmar Auerbach (EURAMET Programme
Manager)
Commission Project Officer: Mans Lindberg**

TABLE OF CONTENTS

1 IMPLEMENTATION OF THE COFOUNDING ACTIVITIES DESCRIBED IN THE ANNUAL WORK PROGRAMME AND THE RESULTING ACTIVITIES	3
1.1 Definition of the National cofunding activities area of the programme to be opened	3
1.2 Demonstration of FTE activities.....	5
1.3 Activities breakdown by EMNs and TCs.....	6
1.4 Activities breakdown per subcategory	8
1.5 Overall breakdown in & per country	9

TABLE OF FIGURES

Figure 1 Sum of years FTE of all participating countries.	5
Figure 2 Sum of Person days per EMN respectively TC.....	6
Figure 3: activities breakdown per subcategories in FTEs.....	8
Figure 4: breakdown by Type in % per country.	9

TABLE OF TABLES

Table 1 Cofunding activities by EMN respectively by TC in FTE year for 2022.....	7
--	---

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

1.1 Definition of the National cofunding 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 30th April.

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 cofunding activities under each type and subtype may 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

Capability Maintenance	
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
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	<p>Public communication activities aimed at raising awareness and sharing knowledge on metrology and institutional activities, such as:</p> <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.

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.

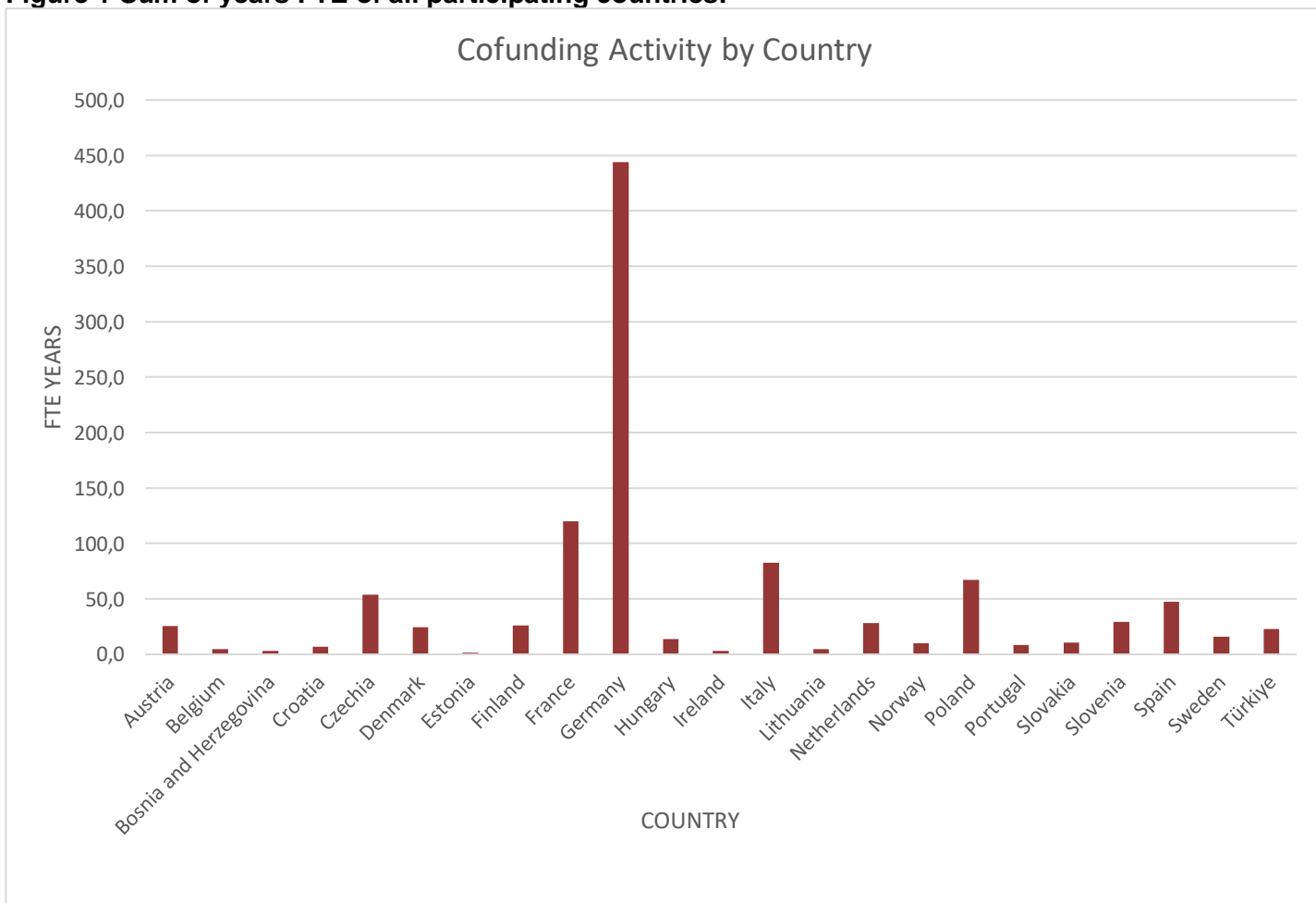
No activities funded within the Joint Research Projects and Joint Network Projects of the Partnership or EMPIR, other Horizon Europe projects, or by commercial clients are included in the report.

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

23 countries participated in this year’s cofunding 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 11 approved EMNs.

Figure 2 Sum of Person days per EMN respectively TC.

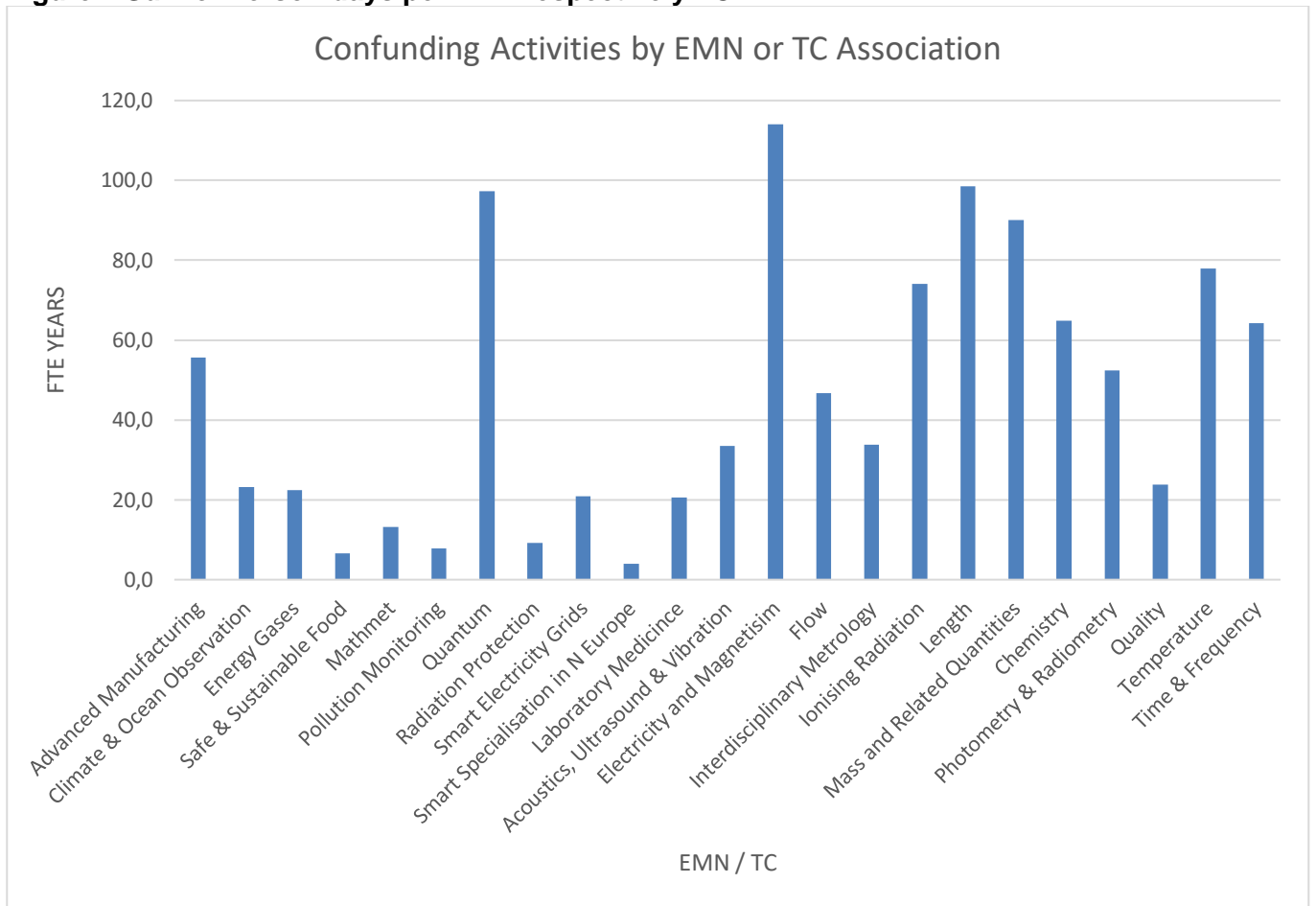


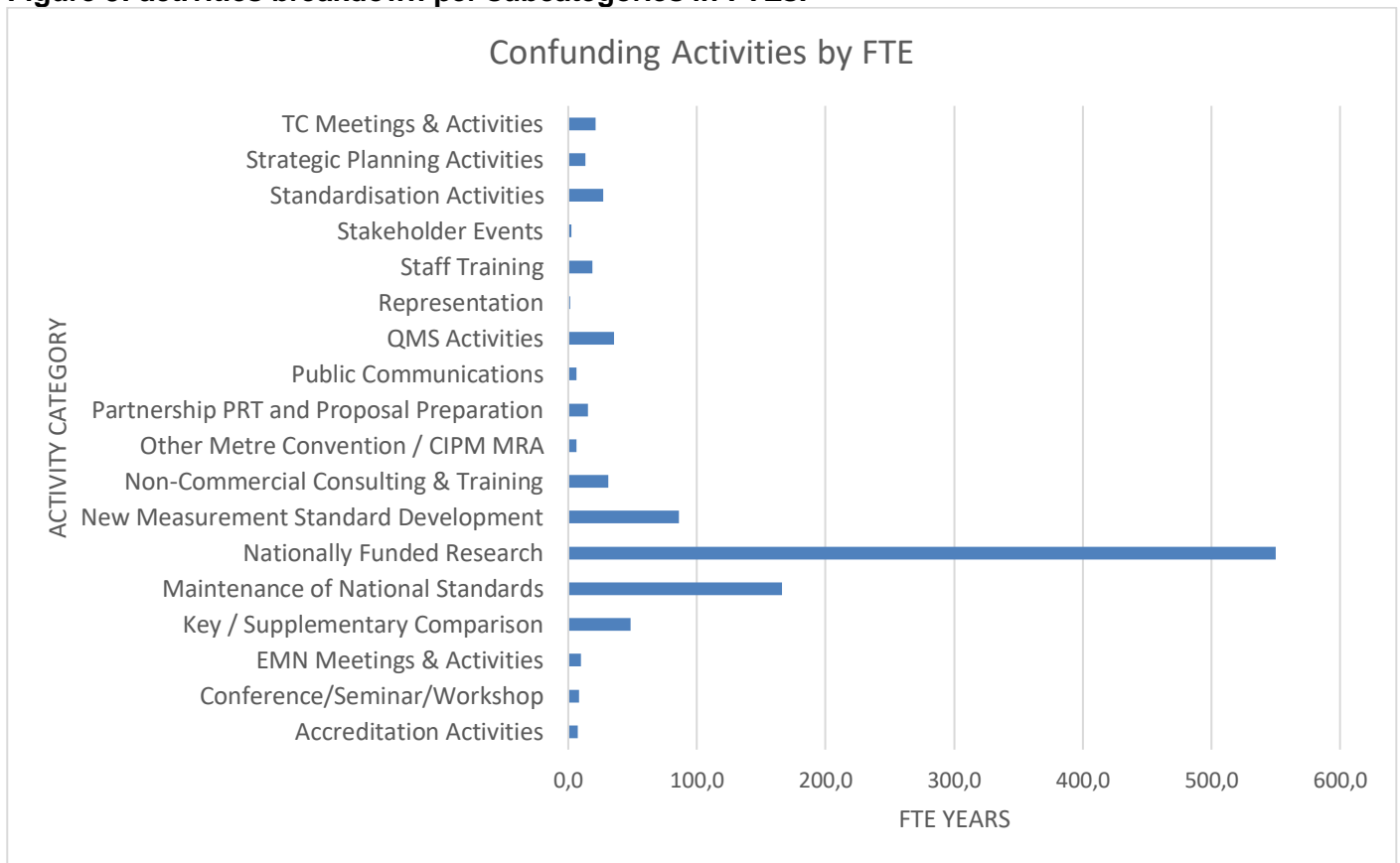
Table 1 Cofunding activities by EMN respectively by TC in FTE years for 2022.

category	name	FTE Years
EMN	Advanced Manufacturing	55,7
EMN	Climate & Ocean Observation	23,2
EMN	Energy Gases	22,5
EMN	Safe & Sustainable Food	6,6
EMN	Mathmet	13,2
EMN	Pollution Monitoring	7,9
EMN	Quantum	97,3
EMN	Radiation Protection	9,2
EMN	Smart Electricity Grids	20,8
EMN	Smart Specialisation in N Europe	4,1
EMN	Laboratory Medicince	20,5
TC	Acoustics, Ultrasound & Vibration	33,4
TC	Electricity and Magnetisim	114,1
TC	Flow	46,7
TC	Interdisciplinary Metrology	33,8
TC	Ionising Radiation	74,1
TC	Length	98,5
TC	Mass and Related Quantities	90,1
TC	Chemistry	64,8
TC	Photometry & Radiometry	52,4
TC	Quality	23,8
TC	Temperature	77,9
TC	Time & Frequency	64,3
	Grand Total	1054,8

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.

Figure 3: activities breakdown per subcategories in FTEs.



1.5 Overall breakdown in & per country

Figure 4: breakdown by Type in % per country.

