



Report of internships carried out in 2024

SPEAKER

Luis Omar Becerra Santiago
Centro Nacional de Metrología (CENAM)

Cd. De Panamá | November 21st, 2024

Internships carried out in 2024

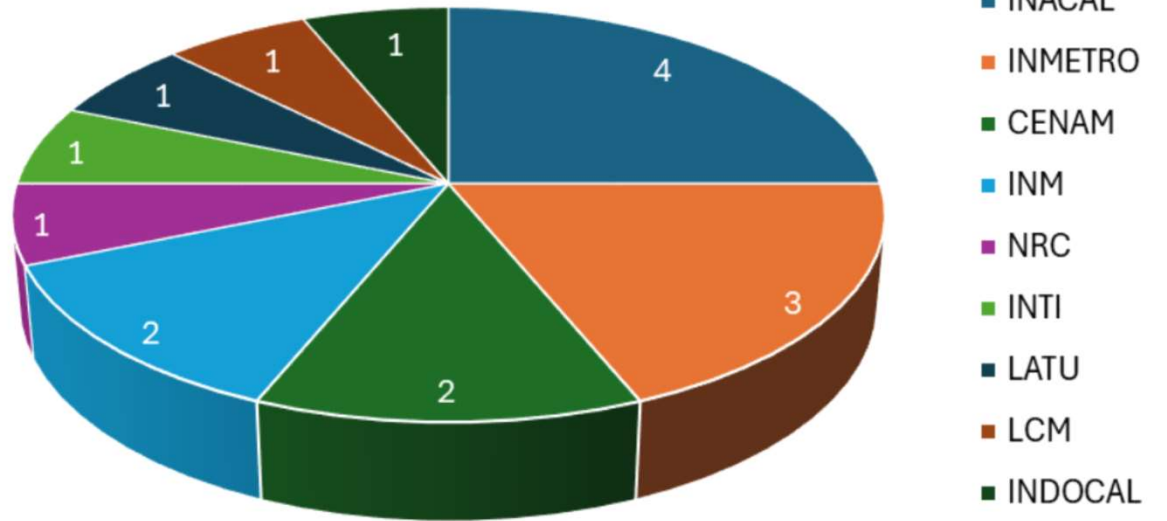
Participant NMIs

16

Host NMIs

9

HOST NMI



Internships (about 2 weeks each)

SURAMET

NMI/DI	HOST NMI	AREA	USD
UTE	INMETRO	Electricity	6,570
INTN	INACAL	Pressure	
INTI	INMETRO	Metrologia Química	

NORAMET

NMI/DI	HOST NMI	AREA	USD
CENAM	NRC	Acoustics	3,820

ANDIMET

NMI/DI	HOST NMI	AREA	USD
IBMETRO	INTI	Legal Metrology	8,676
INM	CENAM	Time and Frecquency	
SENCAMER	INM	Temperature	
INACAL	INMETRO	Electricity	

CAMET

NMI/DI	HOST NMI	AREA	USD
CEHM	INACAL	Volume and dimensional	11,035
CENAMEP	LATU	Density	
CIM	INACAL	Dimensional	
CENAME	LCM	Legal Metrology	
LCM	INACAL	Flow	

CARIMET

NMI/DI	HOST NMI	AREA	USD
TTBS	CENAM	Dimensional	7,968
GNBS	INDOCAL	Temperature	
INDOCAL	INM	Electricity	

TOTAL		38,069 USD
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Investment

Spent



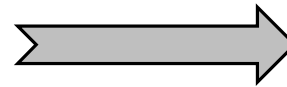
38,069 USD

Approved



36,000 USD

Average money/internship



≈ 2,379 USD



SIM participation in BIPM Young Metrologist vision for 2050+

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Part of the information taken from the presentation of

Fernando J. Andrés Monge
Laboratorio Costarricense de Metrología (LACOMET)

Bogotá, Colombia | August 2024




Towards a CIPM Strategy 2030+





Towards a CIPM Strategy 2030+

In **March 2019**, the CIPM drafted a plan as the first step in developing the strategy. Five themes were identified, and champions were assigned to lead the strategy development:


1. Responding to evolving needs for metrology.
 2. Addressing key scientific challenges to advance the global measurement system.
 3. Strategy for deepening engagement with other international organizations on measurement science issues.
 4. Reviewing the strategy for the future membership of the organization.
 5. Modernizing the operations of the organization.
- 



Towards a CIPM Strategy 2030+

The plan to launch the **'Young Metrologists' 2050+ Vision'** initiative was presented by the CIPM President to the **27th CGPM in 2022**. This mandate was the inspiration behind the initiative and gave the CIPM the opportunity to launch a consultation among young metrologists on their global vision for metrology in 2050+.

The young metrologists foresighting exercise was intended to trigger and facilitate debate on visionary ideas for metrology and to identify future trends, technologies, opportunities and challenges through workshops, debates and interviews among groups of young metrologists. The results of this exercise will be used to complement the **CIPM Strategy 2030+**.



46th JCRB Meeting 15th/16th March 2023



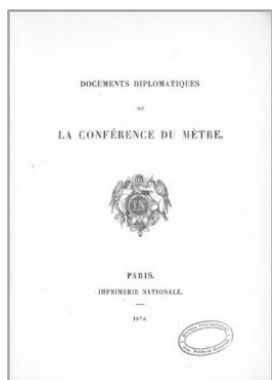
**Action JCRB/46-1
(2023) The JCRB asks
each RMO to
nominate (one or
two) RMO
coordinators for the
“Young metrologists’
2050+ vision”
foresighting exercise
and to send their
names to Chingis
Kuanbayev (BIPM) by
31st March 2023.**



Young Metrologists' 2050+ Vision



Young Metrologists' 2050+ vision



*The mission of the Metre Convention continues to be met;
“to assure the international unification ...”*

1875
Metre Convention

1889
CGPM sanctioned international prototypes of the Metre and the Kilogram, and their official copies were distributed to 18 States

1927
The first Consultative Committee was set up (CCE, now CCEM)

Definition of SI Units

CCPR
CCT
CCL
CCTF
CCRI
CCU
CCM
CCQM
CCAUV

1999
CIPM
MRA

2019
Redefinition of SI Units

Young metrologists' vision for the world metrology

RMO Coordinators of the YM 2050+ initiative



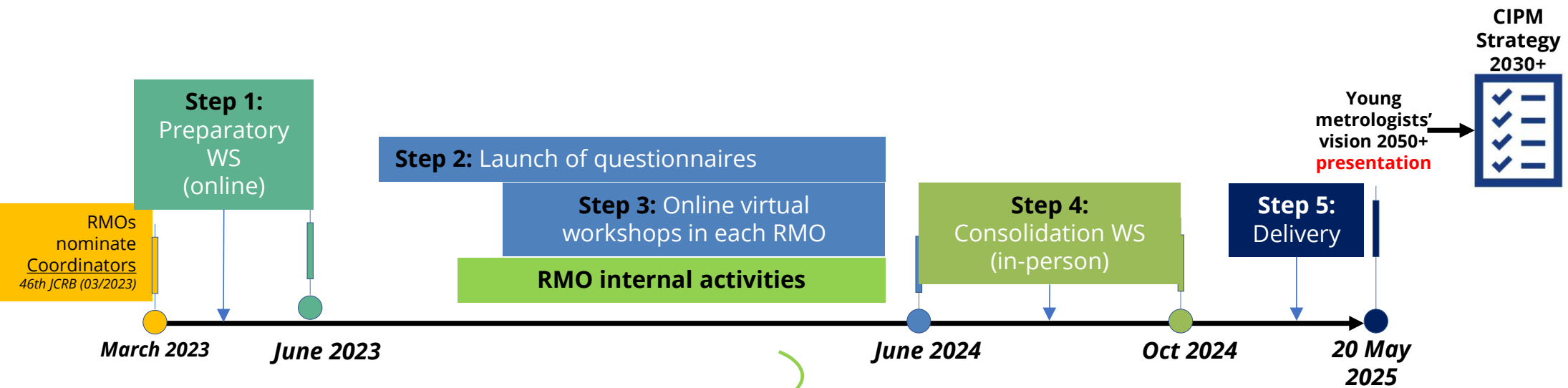
SIM - Coordinators

**Fernando José ANDRÉS
MONGE (LACOMET –
Costa Rica)**

**Rodrigo COSTA-FELIX
(INMETRO – Brazil)**



Timeline



• SIM: <https://sim-metrologia.org/2023/10/03/young-metrologists-2050-vision/>

150th anniversary of the signing of the Metre Convention





SIM Workshop


2023-11-16

Regional online workshops, held between late 2023 and mid-2024, formed a corner stone of the programme, offering platforms for young metrologists, aged 21 and above, to discuss both challenges and opportunities that their fields are likely to face by 2050.

- **AFRIMETS:** 2024-03-06 (approx. 78 people)
- **APMP:** 2024-02-28 (approx. 102 people)
- **COOMET:** 2024-02-14 (approx. 70 people)
- **EURAMET:** 2024-4-09 (approx. 35 people)
- **GULFMET:** 2024-02-19 (approx. 60 people)

- **SIM:** 2023-11-16 (approx. 40 people)

<https://www.bipm.org/en/-/2024-10-25-young-metrologists-programme>



A Vision for the Future

Following the workshops, the programme's young metrologists provided their input on a range of topics, including the need for greater collaboration, skills development and innovations in science.

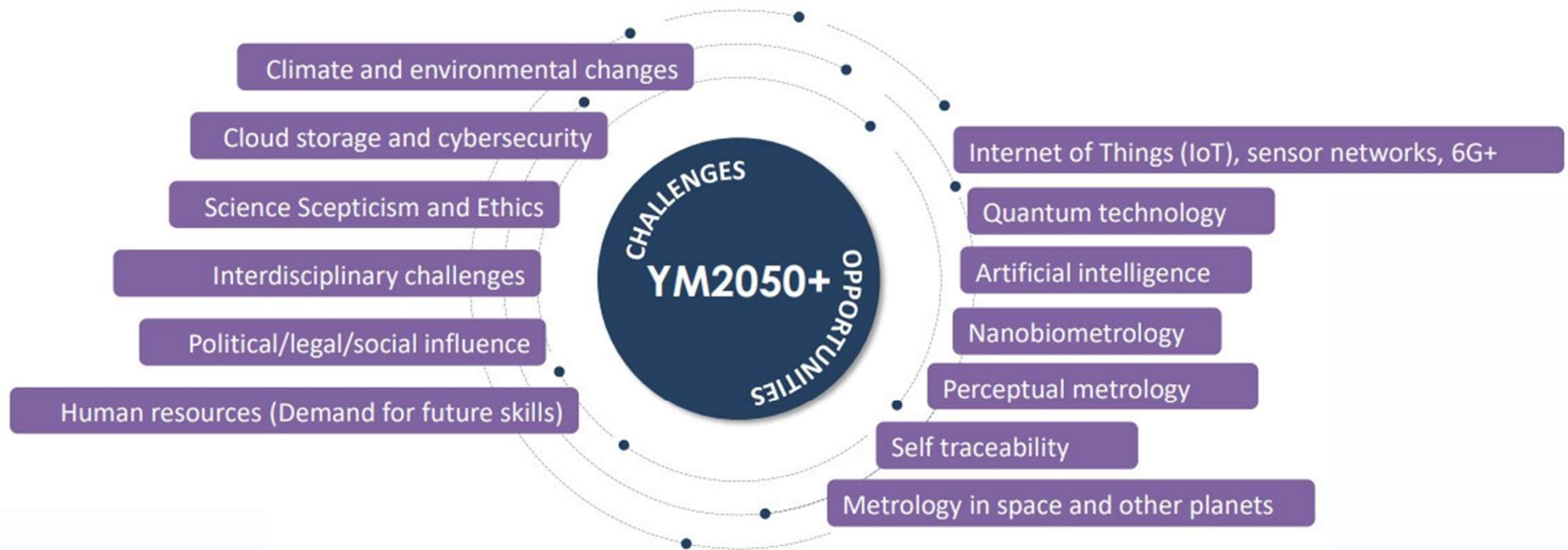
Over 170 responses to a questionnaire helped shape the consolidation meeting in July 2024, where the top five young contributors were highlighted for their outstanding proposals.




<https://www.bipm.org/en/-/2024-10-25-young-metrologists-programme>

Young metrologists' vision for 2050+

“Our vision for global metrology: Metrology, as a cornerstone of natural sciences, must evolve together and drive advances in technology, supporting all stakeholders based on collaborative capacity and capability building to co-shape the future.”



<https://www.bipm.org/en/-/2024-10-25-young-metrologists-programme>



Young Metrologists'
2050+ vision

A collective vision created by young metrologists from National
Metrology Institutes / Designated Institutes

- **Consolidation report “Young Metrologists’ 2050+ vision”**

<https://www.bipm.org/documents/d/guest/ym-2050-vision>

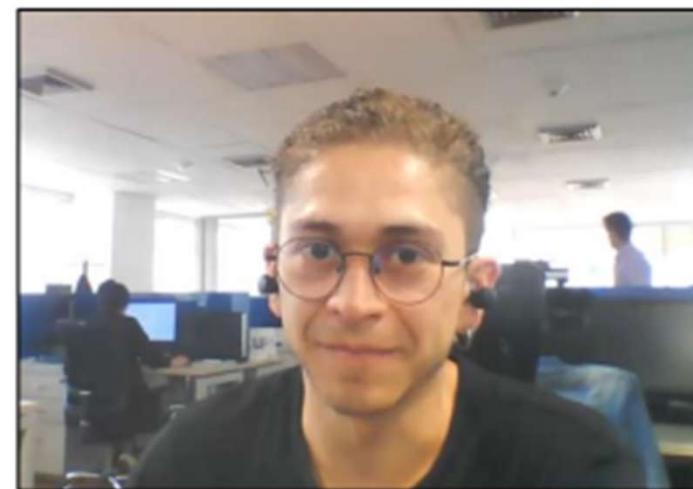
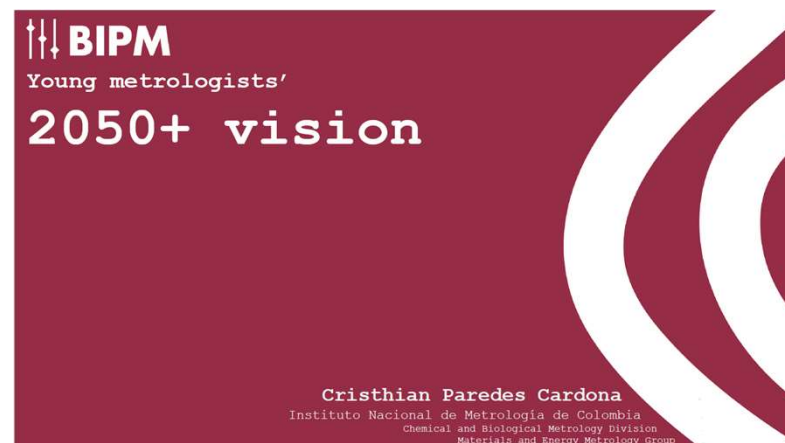


Young Metrologist's Winner

Cristian Paredes, INM Colombia

About Cristian:

- Early Career Metrologist Award 2022
- SIM Metrology School participant 2024
- Young Metrologist Vision 2050+ best respondent:
 - On his presentation, *Cristhian Paredes (Colombia) delved into perceptual metrology.*
- **For his contribution to the YM Vision 2050+, the BIPM is inviting Cristian to The Meter Convention 150th anniversary celebration.**





Following activities

BIPM Call for posters for the 150th anniversary celebration

YM are encouraged to participate


Why Participate?

- Increase Visibility
- Engage in High-Impact Themes
- Opportunity for Presentation

How to Enter

- **Abstract Submission Deadline: 15 December 2024** via the dedicated website (<https://thebipm150.org/posters/>)

* Selected posters will be showcased at the anniversary event on 21 May 2025, giving you a platform to present in front of an audience of influential metrology professionals and decision-makers.






Thanks

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