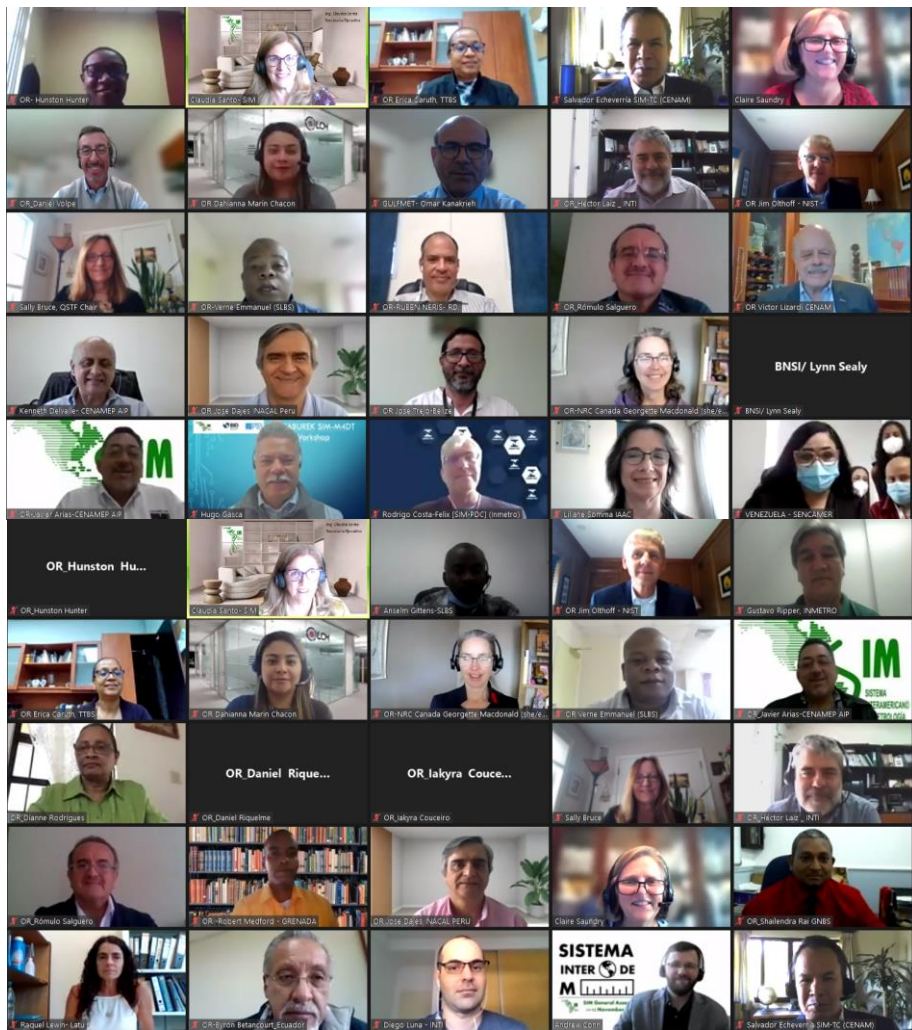


SIM REPORT TO EURAMET GA

MAY 2022



SIM GA 2021



Country	NMI/Active member	DI/ Associate member
Canada	NRC	TCC
Mexico	CENAM	INECC, ININ
USA	NIST	NUWC-USRD
Antigua and Barbuda	ABBS	
Bahamas	BBSQ	
Barbados	BNSI	
Dominica	DBS	
Dominican Republic	INDOCAL	
Grenada	GDBS	
Guyana	GNBS	
Haiti	BHN	
Jamaica	BSI	
St. Lucia	SLBS	
St. Kitts and Nevis	SKNBS	
St. Vincent and Grenadines	SVGBS	
Trinidad and Tobago	TTBS	
Belize	BBS	
Costa Rica	LCM	LAMETRO-ICE, ICE LMVA, RECOPE, LanammeUCR
El Salvador	CIM	
Guatemala	CENAME	
Honduras	CEHM	
Nicaragua	LANAMET	
Panamá	CENAMEP	
Bolivia	IBMETRO	
Colombia	INM	
Ecuador	INEN	
Peru	INACAL	
Venezuela	SENCAMER	
Argentina	INTI	CNEA
Brazil	INMETRO	LNMRI/IRD, ON/DSHO
Chile	INN	
Paraguay	INTN	
Uruguay	LATU	UTE

Membership and Updates:

2021 SIM GA 11-12 November

- 2 NMIs Active Members
- 11 DIs Associate Members
- IAEA Associate member (RMO rotating policy)
- COPANT and IAAC Affiliate Members.

(New members highlighted in Yellow)

CURRENTLY:

- 33 active members (NMIs)
- 13 associate members (12 DIs plus IAEA)
- 2 affiliate members
- SIM General Assembly Resolution 004/2021 The SIM General Assembly approves of Version 02 of the SIM Bylaws and the procedure for their approval.
- The SIM Council established MWG 14: Metrology for Digital Transformation (M4DT), part of the SIM Technical Committee
- 2022 SIM GA is scheduled in person for November 2022 in Saint Lucia- Date to be confirmed in May's meeting of the Steering Council.

SIM Steering Council Council



President
Claire Saundry
NIST USA



Past President
Hector Laiz
INTI Argentina



TC Chair
Lucas Di Lillo
INTI Argentina



QSTF Chair
Sally Bruce
NIST USA



Project Coord.
Javier Arias
CENAMEP Panama



PDC Rodrigo
Costa-Felix
INMETRO Brazil



ANDIMET
Jose Dajes
INACAL Peru



CAMET
Jose Trejo
Belize



CARIMET
Erica Caruth
TTBS Trinidad
and Tobago



NORAMET
Georgette Macdonald
NRC Canada



SURAMET
Daniel Volpe
LATU Uruguay

SIM Technical Committees (Metrology Working Groups)

- TC Chair: Lucas Di Lillo (INTI)
- Deputy Chair: Marina Gertsvolf(NRC)

Ensuring efficient and effective support and technical review of CMCs for publication in the KCDB to support calibration programs of SIM NMIs/DIs through inclusivity, interlaboratory cooperation for metrological rigor, and capacity building

MWG 1: Electricity and Magnetism Chair: Felipe Hernandez CENAM/Mexico fhernand@cenam.mx	MWG 2: Photometry and Radiometry Chair: Thiago Menegotto INMETRO/Brazil Tmenegotto@inmetro.gov.br Vice Chair: Juan Pablo Bárbaro INTI/Argentina jbabaro@inti.gob.ar
MWG 3: Thermometry Chair: Andrew Todd NRC/Canada andrew.todd@nrc-cnrc.ca Vice Chair: Ciro Alberto Sánchez INM/Colombia csanchez@inm.gov.co	MWG 4 Length Chair: Karina Bastida INTI/Argentina kbastida@inti.gov.ar
MWG 5: Time and Frequency Chair: Diego Luna INTI/Argentina luna@inti.gov.ar Vice Chair: Liz Hernández Forero, INM/Colombia lhernandez@inm.gov.co	MWG 6: Ionizing Radiation and Radioactivity Chair: Raphael Galea NRC/Canada raphael.galea@nrc-cnrc.ca Vice Chair: Lizbeth Laureano-Pérez NIST/USA lizabeth.laureano-perez@nist.gov
MWG 7: Mass and Related Quantities Chair: Aldo Quiroga INACAL/Peru aquiroga@inacal.gob.pe	MWG 8: Chemistry and Biology Chair: Valnei Da Cunha INMETRO/Brazil vscunha@inmetro.gov.br Vice Chair: Melina Pérez CENAM/Mexico meperez@cenam.mx
MWG 9: Acoustics, Ultrasound and Vibrations Chair: Gustavo Ripper INMETRO/Brazil gripper@inmetro.gov.br Vice Chair: Akobuije Chijioke NIST/USA akobuije.chijioke@nist.gov	MWG 10: Flow and Volume Chair: Hernán Brenta INTI/Argentina hbrenta@inti.gob.ar Vice Chair: Abed Morales INACAL/Peru amorales@inacal.gob.pe
MWG 11: Legal Metrology Chair: Pedro Pérez Vargas SIC/Colombia pperez@sic.gov.co Vice Chair: Sandra Rodríguez Zuñiga LACOMET/Costa Rica srodriguez@lacomet.go.cr	MWG 12: Quality Systems Chair: Elizabeth Ferreira LATU/Uruguay eferre@latu.org.uy Vice Chair: Silvio dos Santos INMETRO/Brazil sfsantos@inmetro.gov.br
MWG 13: Statistics and Uncertainty Chair: Antonio Possolo NIST/USA antonio.possolo@nist.gov	MWG 14: Metrology for Digital Transformation Chair: Hugo Gasca Aragón CENAM/Mexico hgasca@cenam.mx Vice Chair: Diego Coppa INTI/Argentina dcoppa@inti.gob.ar

SIM Quality System Task Force



The SIM Quality System Task Force continues to meet virtually to review and approve quality systems. From late April 2021 to May 2022 the QSTF's 16-member delegates reviewed and approved 24 SIM QS. Three QS reviews are scheduled for June 2022, including IAEA.

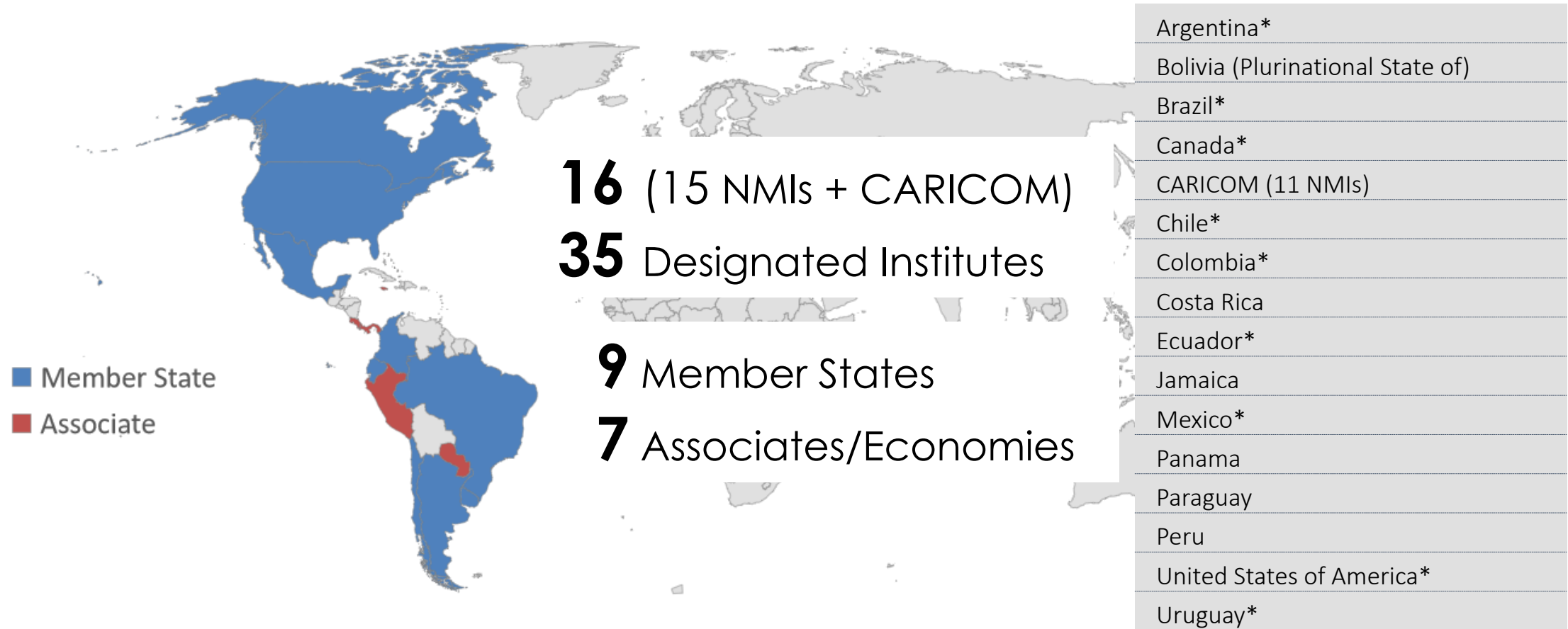


In addition, the International Atomic Energy Agency (IAEA) has joined SIM as an associate member.



Twenty-eight annual reports (2021) were reviewed by the various Institutes participating (with their active quality management systems reviewed) within the SIM QSTF.

CIPM MRA: participation of SIM



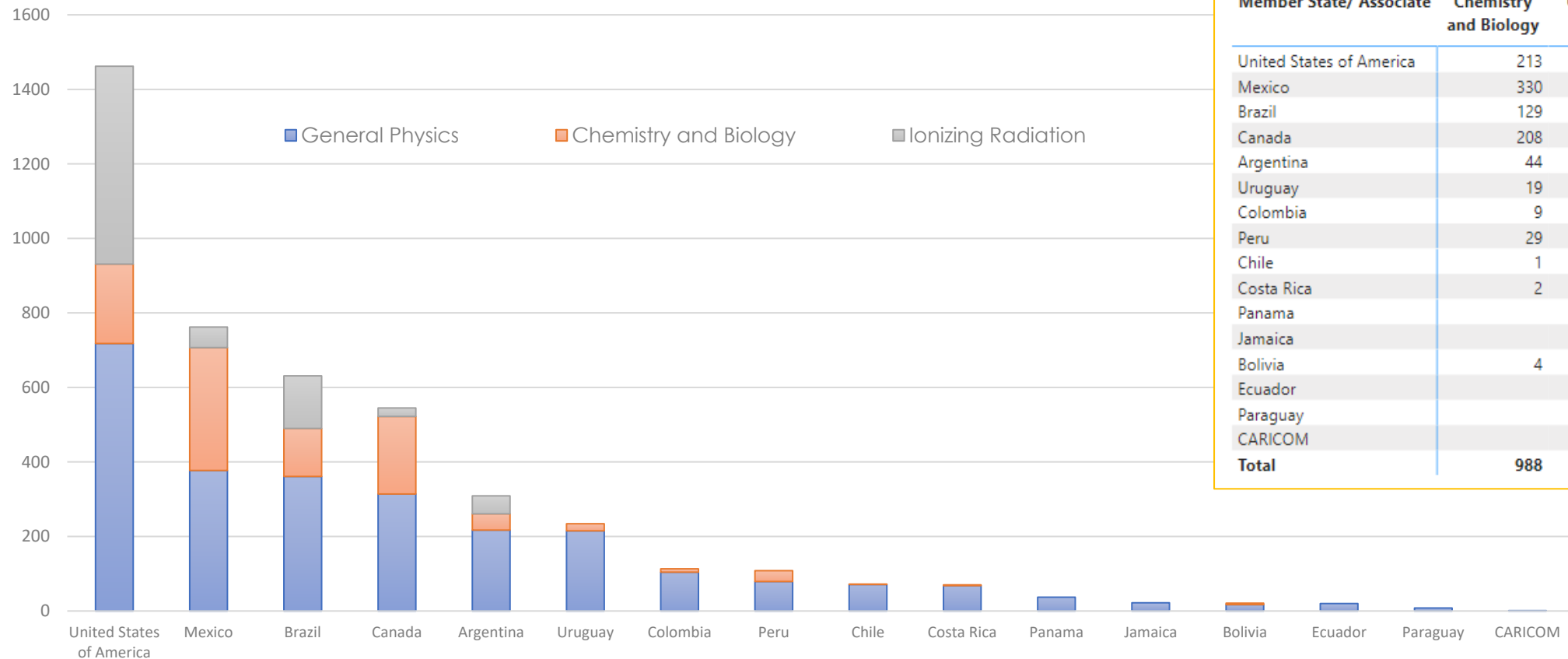
SIM Comparisons and CMCs

- **SIM actively submits CMCs in all technical areas (73 CMCs published between Sept 2021 and Feb 2022)**
- **Reviews continue during pandemic**

Technical Field	NMIs Involved	New CMCs published between 2021-09-27 - 2022-02-06
Electricity and Magnetism	NIST, NRC, INM	27
Photometry and Radiometry	INMETRO, INTI	5
Thermometry		---
Length	CENAM, DICTUC SA	2
Time and Frequency		---
Ionizing Radiation and Radioactivity	NRC	5
Mass and Related Quantities		---
Chemistry and Biology	INTI, INMETRO, CENAM	30
Acoustics, Ultrasound and Vibration	NRC	4
Flow and Volume		---

KCDB Statistics - SIM: *CMCs*

SIM CMCs by Member States and Associates

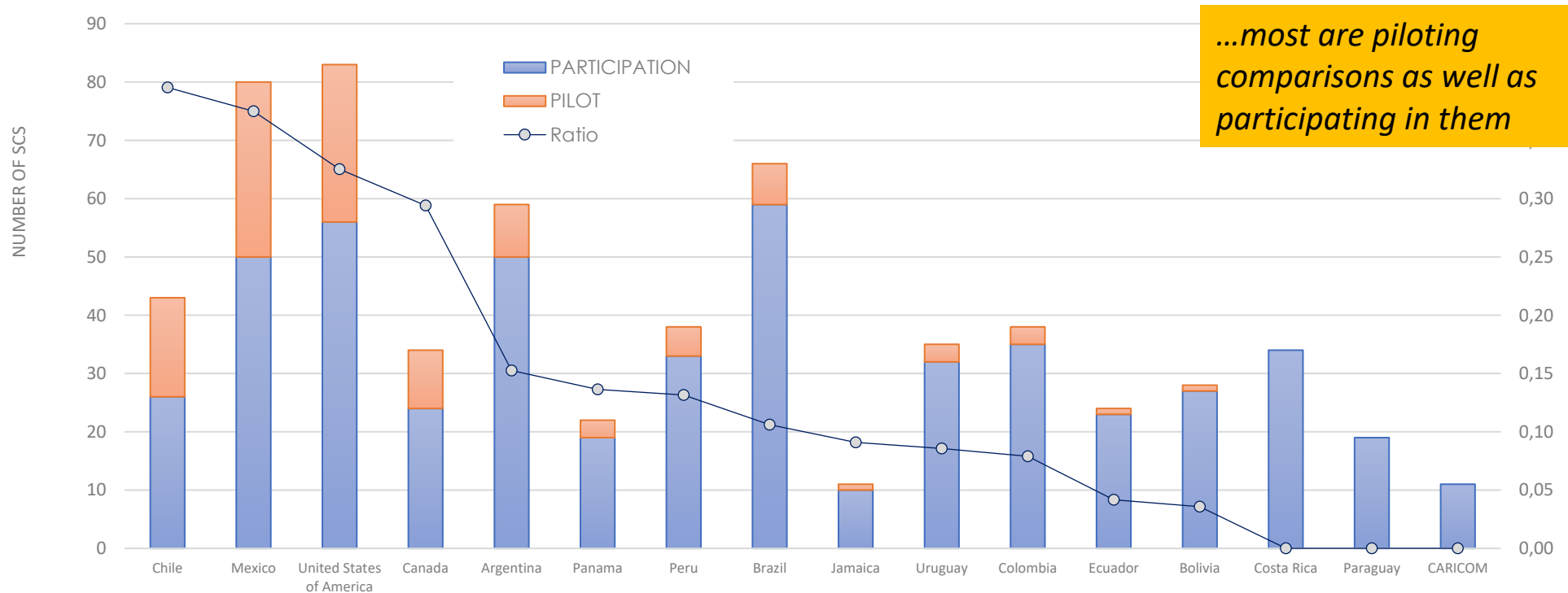


All SIM CIPM MRA participants have published CMCs

Member State/ Associate	Chemistry and Biology	General Physics	Ionizing Radiation	Total
United States of America	213	718	531	1462
Mexico	330	377	55	762
Brazil	129	361	141	631
Canada	208	314	23	545
Argentina	44	217	48	309
Uruguay	19	215		234
Colombia	9	104		113
Peru	29	79		108
Chile	1	71		72
Costa Rica	2	68		70
Panama		37		37
Jamaica		22		22
Bolivia	4	17		21
Ecuador		20		20
Paraguay		8		8
CARICOM		1		1
Total	988	2629	798	4415

KCDB Statistics – SIM: *SC Piloted to SC total*

SC participation of SIM NMI/DIs,
ordered by ratio of SC Piloted to SC participation



SIM WEEK- BUENOS AIRES/ARGENTINA (Hybrid events)

31st May- 02nd June

- Ad-hoc Working Group on Strategic Planning Workshop to develop a new SIM strategic plan.
- Ad-hoc WG on SIM Rules of Order Meeting to modify SIM's existing rules of order to align with changes to the Bylaws adopted by the 2021 GA.
- Meeting of SIM Technical Committee
- Meeting of SIM Steering Council

On-going SIM Projects and Activities

- **MWG 2: Radiometry.** Evaluating the use of UVC technologies for disinfection (NIST support).
- **MWG 6: Ionizing Radiation.** New facilities (CNEA/Argentina, CCHEN/Chile, NIST/USA): advancing capabilities and enhancing safety.
- **MWG 10: Flow and Volume.** With PTB support, developing a fundamental metrological infrastructure to support the testing of medical ventilators
- **MWG 14: Digital Transformation.** Metrology for the digital transformation has taken a high profile within SIM (as the rest of the world), reflected by the creation of the recent MWG 14.
- **IDB SIM Project “Metrology for digital transformation to support health services in LAC”** The IDB- SIM project in digital transformation addresses the measurement challenges associated with pandemics such as COVID -19.
- **SIM/COPANT/IAAC/OAS-PTB “Quality Infrastructure for the Circular Economy”**
 - National projects that involve quality infrastructure applications or the circular economy as related to plastics, construction, and agri-food are supported by this initiative.

SIM CELEBRATION OF WMDay

- A virtual SIM Celebration for WMD took place on the 23rd May 2022.
- CIPM and OIML made presentations.
- Panel of NMI Directors from the 5 SIM subregions discussed strategies, the state of art and the future of DT in our region.





Questions?