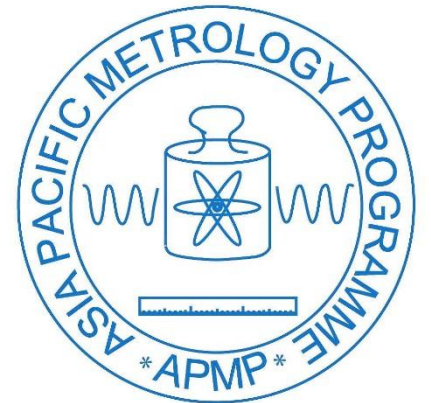


An Overview of Capacity Building in APMP: the APMP Developing Economies Committee (DEC)

Dr Angela Samuel, APMP DEC Chair

National Measurement Institute, Australia (NMIA)



27th meeting of the Asia Pacific Legal Metrology Forum (APLMF) (online), 3-4 December 2020

Members

27 Full Economies
(45 Institutes)

13 Associate Economies
(14 Institutes)



19

8

5

8

Member expansion since 2010:

8 New Full Members

8 New Associate Members (across Africa, Americas, Europe, Middle East..)

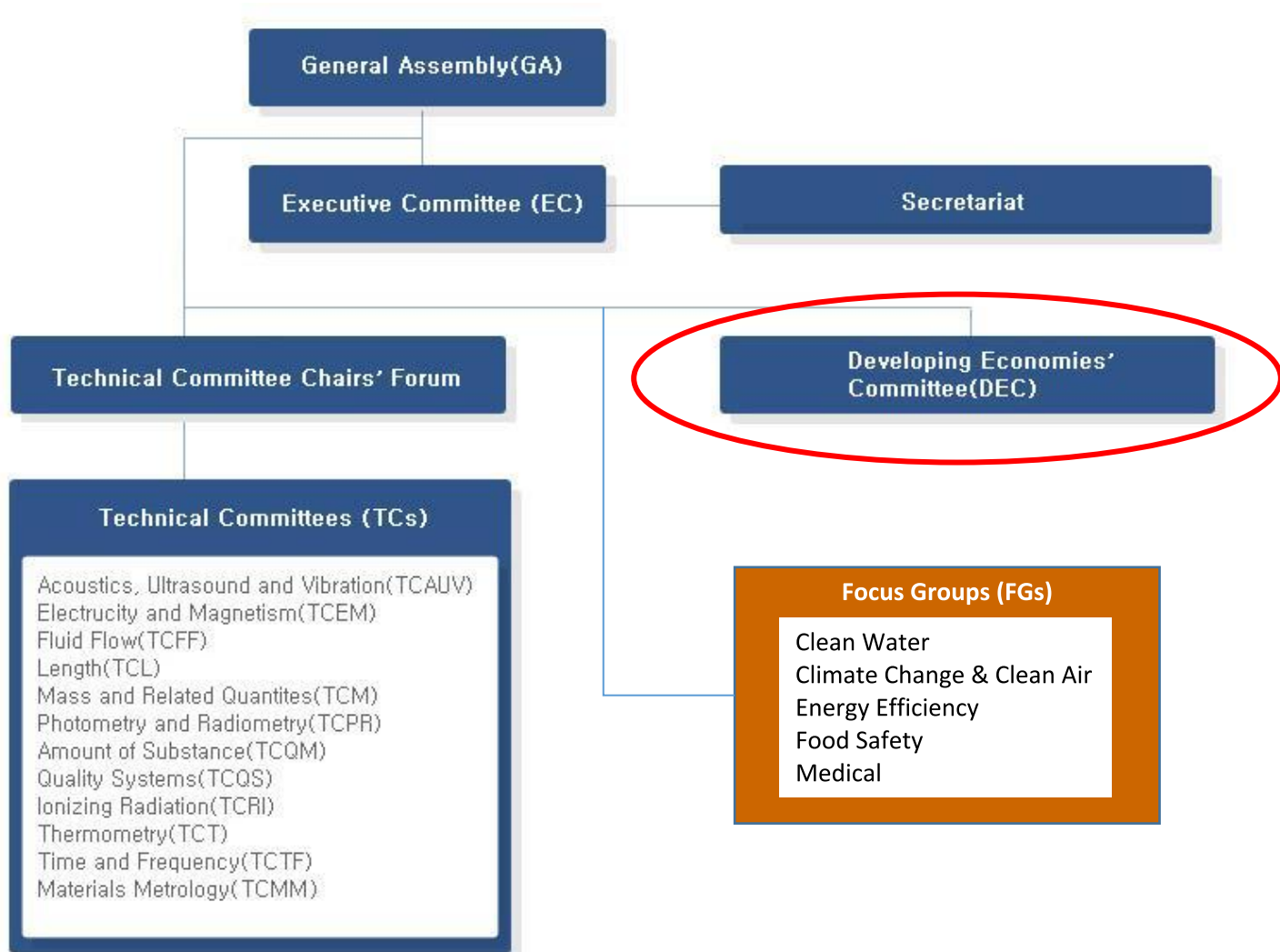


New Members since 2019:

- **Metrology Division under the Ministry of Commerce, Industry and Cooperatives (MCIC), Republic of Kiribati, Dec. 2019 (Full)**
- **Uzbek National Institute of Metrology (UzNIM), Republic of Uzbekistan, Apr. 2019 (Associate)**
- **National Measurement & Calibration Center of Saudi Standards, Metrology and Quality Organization (NMCC/SASO), Kingdom of Saudi Arabia, Dec. 2019 (Associate)**

Organization

December 2019: Transfer of Chairperson & Secretariat
from NMJJ, Japan to NIM, China



Chairperson: Mr FANG Xiang

Executive Secretary: Ms. CAI Juan (Ada)

2019 to 2022

EC Members

2 new EC members elected in 2019



Teo Tang Lin

Singapore



Eleanor Howick

New Zealand

Name	Lab	Economy	Role
Fang Xiang	NIM	China	Chairperson
Toshiyuki Takatsuji	NMIJ	Japan	Immediate-past Chairperson; Liaison with Int. Orgs
Jan Herrmann	NMIA	Australia	Liaison with Int. Orgs; Liaison with APEC SCSC and SRB
Yon-Kyu Park	KRISS	Korea	Liaison with TCs
Ajchara Charoensook	NIMT	Thailand	Liaison with DEC
Teo Tang Lin	HSA	Singapore	Treasurer
Eleanor Howick	MSL	New Zealand	Award Advisory Committee Chair; Liaison with TCs

TC Chairs

4 new TC Chairs elected in 2019

TC	Name	Lab	Economy
Lead TC Chair	Chu-Shik Kang	KRISS	Korea
TCAUV	Ryuzo Horiuchi	NMIJ	Japan
TCEM	Hyung-Kew Lee	KRISS	Korea
TCFF	Takashi Shimada	NMIJ	Japan
TCL	Jariya Buajarern	NIMT	Thailand
TCM	Sheng-Jui CHEN	CMS/ITRI	Chinese Taipei
TCMM	Lingling Ren	NIM	China
TCPR	Haiyong Gan	NIM	China
TCQM	Kazumi Inagaki	NMIJ, AIST	Japan
TCQS	Ping Yang	NIM	China
TCRI	Duncan Butler	ARPANSA	Australia
TCT	Inseok Yang	KRISS	Korea
TCTF	Aimin Zhang	NIM	China



APMP 2019 - APMP NMI Directors Workshop, Day 2

APMP Strategic Plan (2021-2023)

APMP's priority strategic objectives and their implementation plans.

5 key aspects of current context:

1. Significant and long-term impacts of the COVID-19 pandemic.
2. Advances in measurement science and technology and the rise of global challenges
3. Uneven development among Members
4. Effective and efficient governance
5. Stronger regional and international engagement

6 strategic objectives as its work priority:

1. Work together in the fight against the COVID-19 pandemic
2. Promote R&D excellence in emerging areas
3. Increase APMP's impact and value to members
4. Enhance the quality and efficiency of APMP's governance and operations
5. Enhance global engagement and partnership
6. Fulfill RMO obligations under the CIPM MRA

APMP Response Program against COVID-19 and Future Pandemics

Acknowledging the needs within APMP to boost

- comparisons and/or pilot studies of COVID-19
- development of traceable calibration systems on diagnostics, therapeutics and vaccines
- knowledge transfer and capacity building to address challenges brought by the pandemic;
- sharing information, knowledge and resources

Considering that

- some APMP member institutes have a surplus of resources that are applicable to e.g. the diagnostic test of coronavirus, quality assurance of ventilators, as well as calibration system for infrared clinical thermometers;
- APMP has surplus fund for operations due to the cancellation of its onsite meetings and activities planned for 2020, and the elimination of its representatives' travels to meetings and events of other stakeholder organizations.

Decides to establish *APMP Response Program against COVID-19* to encourage and fund:

- the Technical Committees (TCs) to organize comparisons of COVID-19 related measurements among APMP member institutes and facilitate their participation in the associated international comparisons and/or pilot studies;
- the Developing Economies Committee (DEC) to organize and coordinate the provision of trainings in various forms to developing member institutes in need;
- APMP member institutes to share information, experience and resources available for collaboration on optimal research enabling accurate tests, effective therapeutics, as well as possible vaccines.

Budget: US\$ 100,000 + US\$ 45,000

First call launched in October 2020

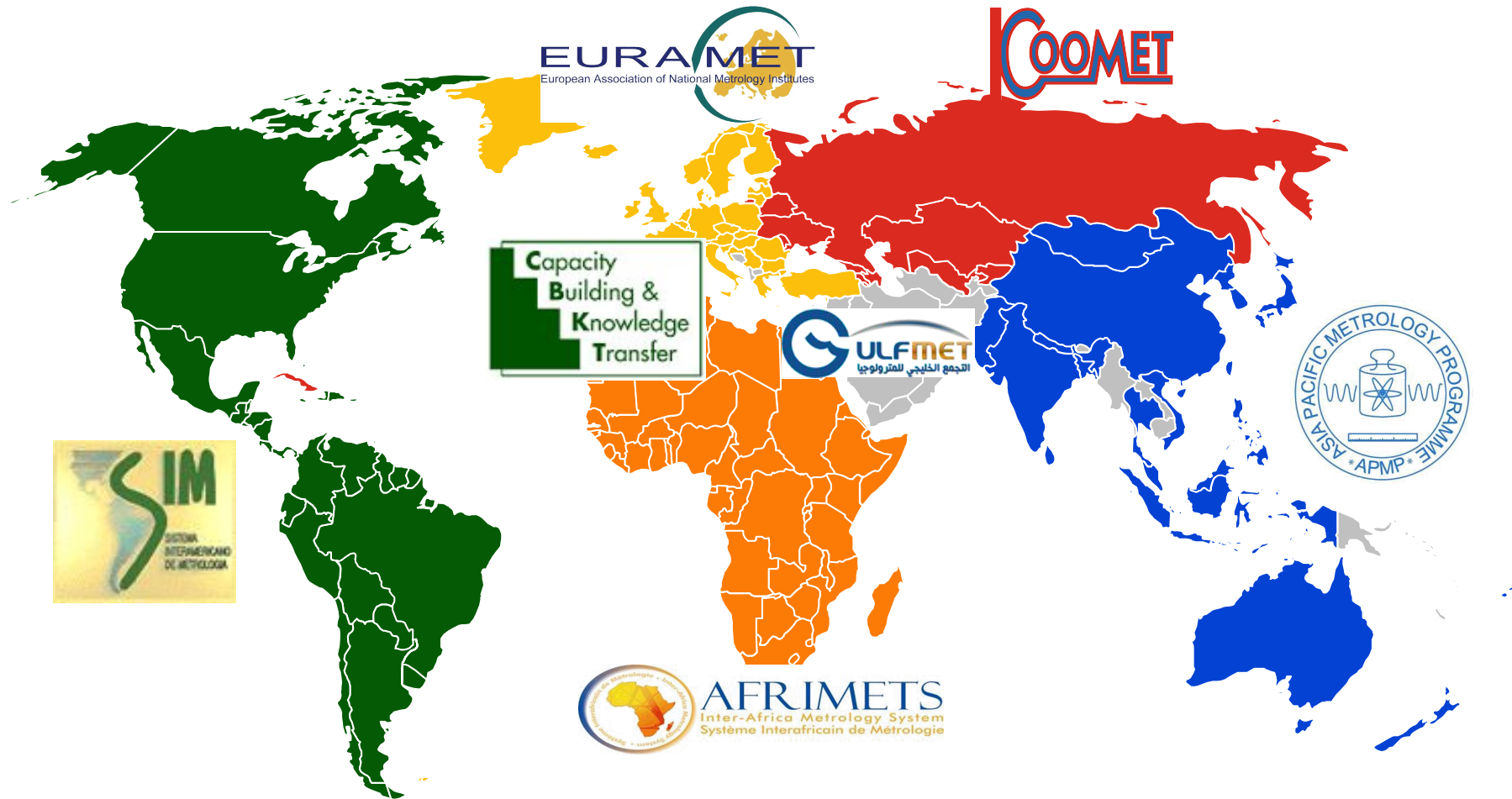
Two workshops:

APMP NMI Directors' Workshop 2020 on COVID-19

APMP DEC-MEDEA COVID-19 Project Planning Workshop



Global and RMO Developing Economy / CEEMS activities



APMP DEC: Current status

With around two-thirds of member economies classified as “developing”, the APMP Developing Economies' Committee (DEC) was established in 2000 to help address the needs of APMP's developing member institutes and to oversee and coordinate associated work programs.



It's our 20th Birthday!!

Noting this milestone, two key Strategic Planning Workshops were conducted in 2019 (associated with APMP's mid-year and annual meetings) to:

- review achievements over the DEC's first 19 years,
- identify lessons learned,

And, based on agreed priorities,

- develop the next multi-year DEC Strategic Plan.

The **DEC Strategic Plan 2021-2023** sits under the overarching **APMP Strategic Plan 2021-2023**.

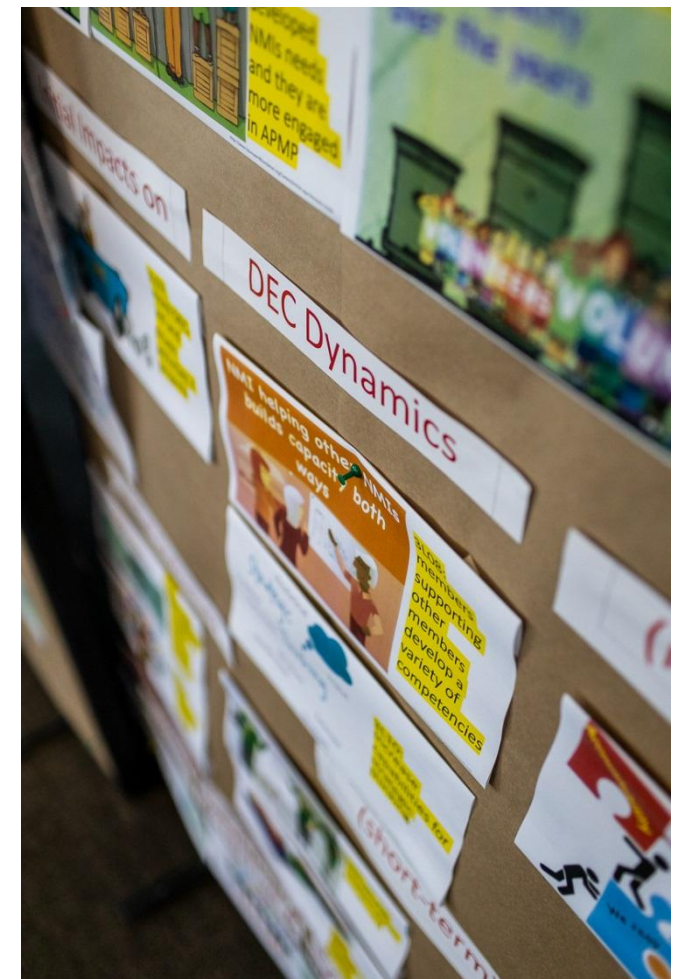
2000-2019: Challenges & Strengths

Challenges for DEC members:

- Geography (distances)
- Languages & cultures
- Range of development needs LDCs (Bangladesh, Fiji, Nepal) through to e.g. China, India, Malaysia, Thailand
- Proportion of developing c.f., developed economies
- Limited resources (human and financial) – **DEC Annual Budget 2020 is US\$45k**
- Advances in science and technology (Industry 4.0, IoT, revised SI, ...)
- Cross-border challenges (climate change, health, food safety, clean water...)

Value-add:

- Direction, vision and strategic leadership for developing economies
- A common platform that represents NMIs at the regional and international level
- Connection between developed and developing NMIs, and experts around the world
- Spirit of cooperation, community, teamwork and well-organized activities
- Relationship with other QI Bodies (APAC, **APLMF**) and BIPM/RMOs (EURAMET, SIM, AFRIMETS, COOMET, GULFMET) as well as donor/implementation bodies (PTB/MEDEA [**APMP-APLMF**], Japan, Korea, Thailand, China, ..)
- Quality leaders, technical experts from developed NMIs; support from TCs and FGs
- Mid-year meetings hosted by developing NMIs: Awareness Raising with local decision makers, etc; capability building workshops, guidance from APMP leaders and key regional experts



2000-2019: Lessons learned

- Need for active and dedicated team and platform (web-based) to coordinate activities and improve communication internally, with other APMP Committees and externally
- More effective utilization of funds and evaluation/monitoring criteria to assess impact
- More DEC-level comparisons → Hybrid comparisons
- Increase benefits to LDCs
- More effective implementation of some activities
- Importance of alignment of activities with national priorities to foster support from members as well as national governments



2019 activities supporting Developing Members

January	February	March	April	May	June
	Hybrid comparison (APMP.L-H2.2019 Gauge Block comparison), Mongolia	KRISS GMA course: flow measurement & calibration, Korea 5 DE beneficiaries	MEDEA-CABUREK W'shop: Awareness Raising/Needs Analysis for Calibration Services, Sri Lanka 22 DE beneficiaries		KRISS GMA course: ionising radiation, Korea 6 DE beneficiaries APMP Mid-year meetings: DEC Meeting, Strategic Planning, FG Awareness Raising, Clean Water FG Workshops 16 funded DE beneficiaries
July	August	September	October	November-December	
	NIST Fundamentals of Metrology W'shop, USA 6 DE beneficiaries Cambodia, Indonesia, Mongolia, Philippines, Thailand, Sri Lanka CCCAFG W'shop, Indonesia 35 DE beneficiaries		FSFG Workshop, China 9 funded DE beneficiaries NIST Food Safety Workshop, USA 5 DE beneficiaries Bangladesh, Mongolia, Philippines (2), Thailand	Annual APMP meetings, incl. DEC Strategic Planning W'shop & Meeting, FG and TC Workshops, "Women in STEM" event, ... 15 funded DE beneficiaries	

APMP DEC Strategic Plan 2021-2023 (1)

Vision Statement:

A sustainable and inclusive DEC that works collaboratively to benefit society across its agreed scope of activities. The DEC will deliver on its vision through improved accountability, learning, and operational excellence, raising awareness and empowering and developing capabilities of all members to address real needs that are aligned with national priorities.

VALUES, STRENGTHS AND PURPOSE (Guides for the DEC's Strategic Thinking, Learning & Acting)

- We acknowledge that our diversity in development, knowledge, resources and values is our strength and opportunity. We improve by collaborating with and supporting each other, facilitating these processes and providing the space for our members to grow.
- We recognize that national priorities might differ and that not all DEC members will be focusing on the same issues or topics or starting from the same place.
- We will leverage the strength of the DEC in being able to identify similar needs, priorities and goals that we can work on together.
- We will encourage Members to align the measurement capabilities and services that they develop and deliver with achievement of the Sustainable Development Goals prioritized by their Governments.
- We will also seek to align strategic issues and activities of the DEC with national strategic plans and priorities wherever possible, to add value to the implementation of national strategies and the development and metrology within member economies (at organizational as well as individual levels).

APMP DEC Strategic Plan 2021-2023 (2)

Improving Governance:

- DEC **Leadership and Management Development** (Australia)
- Implementation of DEC **Monitoring & Evaluation** (Indonesia)

Developing Online Collaboration and Training tools :*

- Creation of a **Knowledge Management System** (Nepal)

“Leaving no one behind”:

- Enabling participation in **CIPM MRA** (Bangladesh)
- **Future Proofing** (Thailand)

Fostering engagement to support national SDG priorities:

- **Focus Groups** (Sri Lanka) : Clean Water, Climate Change & Clean Air, Energy Efficiency, Food Safety, Medical Metrology

The DEC has identified **Taskforces** to take on responsibility for the implementation of these priorities.

**The DEC is adapting activities to respond to national and regional needs arising from the COVID-19 crisis.*



DEC Work Programs are also supported through MEDEA – Metrology: Enabling Developing Economies in Asia,

MEDEA – Metrology: Enabling Developing Economies in Asia

Joint multi-year capacity building program involving APMP, APLMF and PTB (MEDEA Coordination Committee, CC):

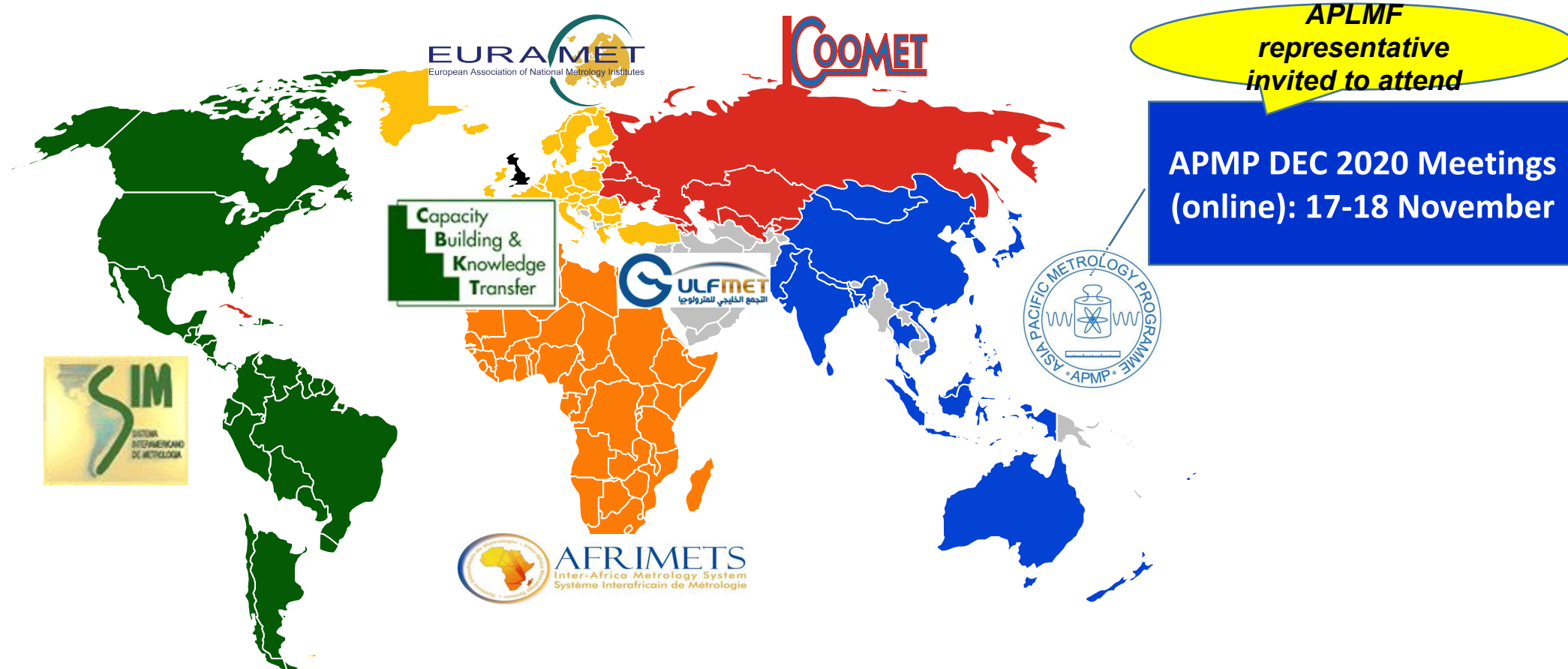
- MEDEA 2.0 due to finish in April 2021 – range of activities including workshops, training attachments, awareness raising capability building, soft-skills development
 - Joint APMP-APLMF Web Portal being developed to host success stories/case studies
- MEDEA CC has drafted MEDEA 3.0 objectives as follows:
 - Improving governance and sustainability of activities supporting developing members
 - Increasing awareness by national stakeholders (government, industry, etc) of developing members in the role of metrology in achieving prioritised SDGs, with the medium-term goal of increasing support for the NMI/LMA through incorporation of metrology in national strategies, policies, etc
 - Improving measurement capabilities and regulatory frameworks that support national priorities in achieving selected SDGs
- June 2020 survey of APMP and APLMF members covered:
 - Ability to access digital platforms/tools
 - E-learning resources (with requests for online training and training videos)
 - Economy priorities re: UN Sustainable Development Goals (SDGs)
 - Issues and activities related to Covid-19

Annual DEC and related activities planned for November 2020

17-18 November: DEC Meeting over 2 online sessions

19 November: APMP-APLMF-PTB MEDEA 3.0 Planning Workshop

25 November: DEC-MEDEA COVID-19 Workshop (*APMP Response Programme against COVID-19*)





Thank you

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<http://www.apmpweb.org/dec/general.php>