



MEDEA: Metrology - Enabling Developing Economies in Asia Overview and update

23rd APLMF Meeting, 23 – 25 November, Tokyo

MEDEA at a glance

Objective Improve the ability of the regional metrology specialist networks in Asia



APMP

and



APLMF

to promote the metrological systems of developing economies (DEs).

Funding Ministry for Economic Cooperation & Development (BMZ), Germany

Term 2014 - 2017



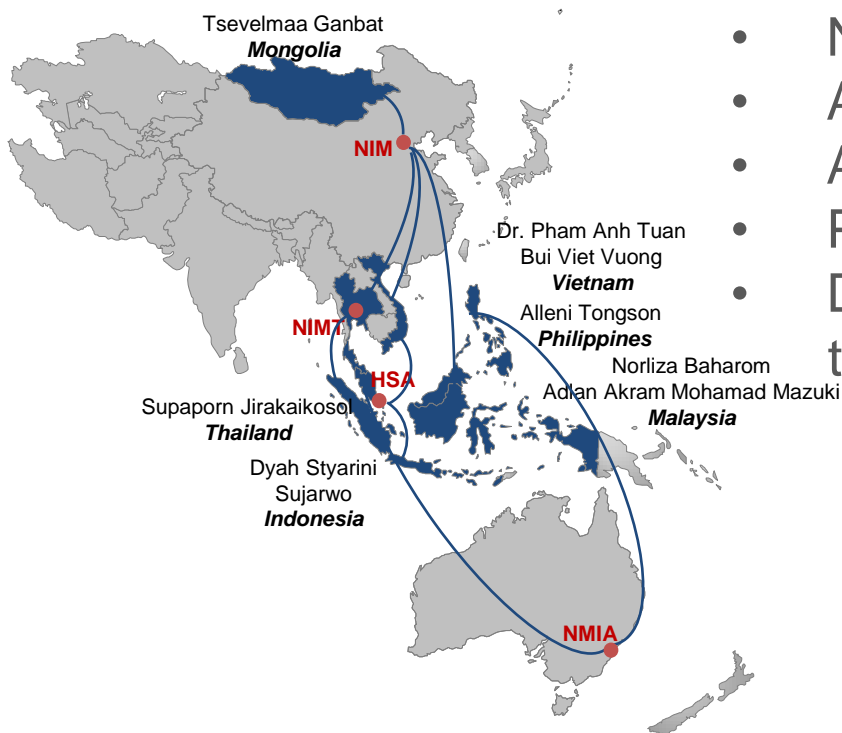
MEDEA: Our approach

Sub-goals	<ol style="list-style-type: none">1. Supporting RMOs to develop instruments for capacity building relevant for DEs2. Strengthening NMIs and LMAs from DEs to fulfill the criteria of international good practices3. Promoting mutual support and cooperation among members of both networks4. Promoting cooperation of both networks with other SRBs in the Asia-Pacific
Ultimate objective	Facilitate trade – foster economic development – strengthen consumer protection

MEDEA in practice

Activities

- Technical trainings
- Seminars
- Train-the-trainer courses
- Inter-Laboratory Comparisons
- Networking events
- Attachment trainings
- Awareness raising
- Publication of guides and technical manuals
- Development of Planning and Monitoring tools



Example: Metrology in Chemistry
2-months Attachment trainings 2015
9 Trainees trained in 4 NMIs

MEDEA: Structure and Coordination

Work packages (WP)

- ① WP Joint1 (Development of National Metrology Infrastructure in DEs)
- ② WP Joint2 (Raise Awareness for Metrology)
- ③ WP Joint3 (Expert Group for International Cooperation)
- ④ WP Joint4 (Management and Stakeholder Communication Skills)
- ⑤ WP APLMF1 (Fundamental and Advanced Courses in Legal Metrology)
- ⑥ WP APMP2 (Instrument Bank)
- ⑦ WP APMP3 (Technical Training)
- ⑧ WP APMP4 (Metrology in Chemistry)
- ⑨ WP APMP5 (CMC Publication)
- ⑩ WP APMP6 (Standalone Initiatives)

Coordination Committee

APMP:

Abdul Rashid Bin Zainal Abidin - APMP Coordinator
Toshiyuki Takatsuji - APMP Chair
Charun Yafa - APMP MiC Focal Person

APLMF:

Stephen O'Brien - APLMF President
Tsuyoshi Matsumoto - APLMF WG Chair
Rice Moisture Measurement
Marian Haire - APLMF WG Chair Training

PTB:

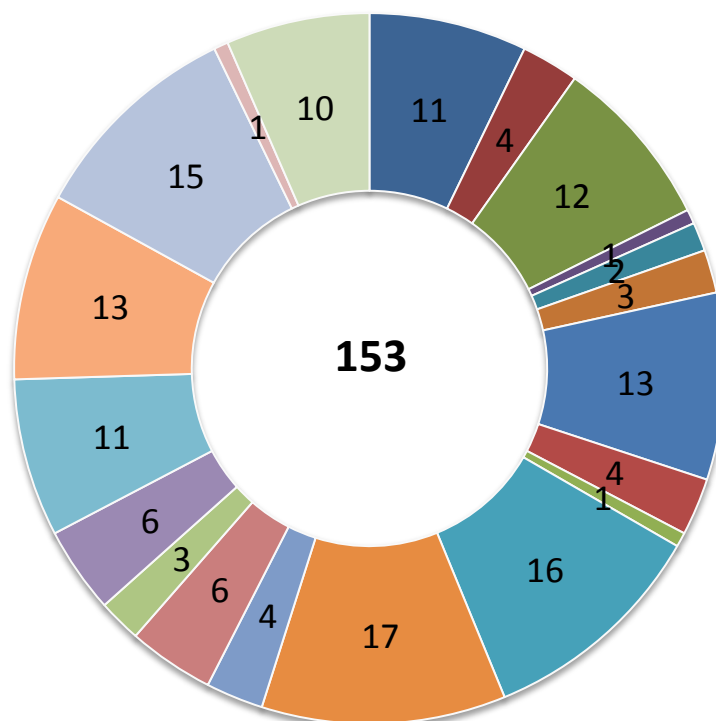
N.N.
Stefanie Scheschinski - Project Assistant

MEDEA Project Activities – 2016

Work Packages	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1 Joint1						Revision of Guide 1 Committee CD5, Revision & Graphic Design						
2 Joint2						Design of Joint APMP-APLMF New Portal						
3 Joint3		Soft Skills Workshop & DEC Case Study Workshop 7 & 9 Jun					Study visit at PTB Tech. Coop. – NIM, China 15 Aug – 13 Sep					
4 Joint4	One-year Consultancy for Directors on Balanced Score Card Tool (BSC)											
5 APLMF1					Verification of Fuel Dispenser 11 – 13 Jul - Pattaya		Mass Standards Training 30 Aug – 01 Sep - Jakarta		Verification of Supermarket Scales 28 Nov – 01 Dec – Kuala Lumpur			
6 APMP2					Donations of Instruments by NMIA, Australia 31 May – Nov NMC-Cambodia, MASM-Mongolia, DRI-Myanmar, PSQCA-Pakistan, ICC-CPapua New-Guinea							
7 APMP3	Kick-off WS on Hydraulic Pressure ILC 25 – 29 Jan - Patumthani						Kick-off WS on GPS Time Transfer ILC 27 – 29 Sep - Yangmei					
					NIMT Pressure Experts Site Visits to Nepal, Bangladesh, Mongolia, Kyrgyz, Sri Lanka Jun - Dec							
8 APMP4					MiC Attachment Trainings, Gas 1 (NIM Beijing), Gas 2 (KRISS Korea), Bioanalysis (NIM Beijing) 15 Aug – 30 Sep (7 weeks)				PT Provider Workshop 10 – 13 Oct - Bangkok			
									APMP MiC Symposium 12 Nov - Da Nang			
9 APMP5	Identified CMCs First Timers Mongolia, Pakistan, Bangladesh, Cambodia, Nepal, Sri Lanka, Papua New Guinea								Preparation on Trial Peer Review Workshop Ulanbataar			
10 APMP6		KRISS-GMA Metrology in Chemistry 21 Mar – 01 Apr - Daejeon				KRISS-GMA Electricity & Magnetism 13 – 24 Jun - Daejeon			NMIJ Laser Interferometer Workshop 03 – 07 Oct - Tsukuba			

Number of admitted participants

All Work Packages



- Bangladesh
- Bhutan
- Cambodia
- China
- Fiji
- India
- Indonesia
- Kazakhstan
- Kyrgyzstan
- Lao PDR
- Malaysia
- Mongolia
- Myanmar
- Nepal
- Pakistan
- Papua New Guinea
- Philippines
- Sri Lanka
- Thailand
- Uzbekistan
- Vietnam

Summary – 2016:

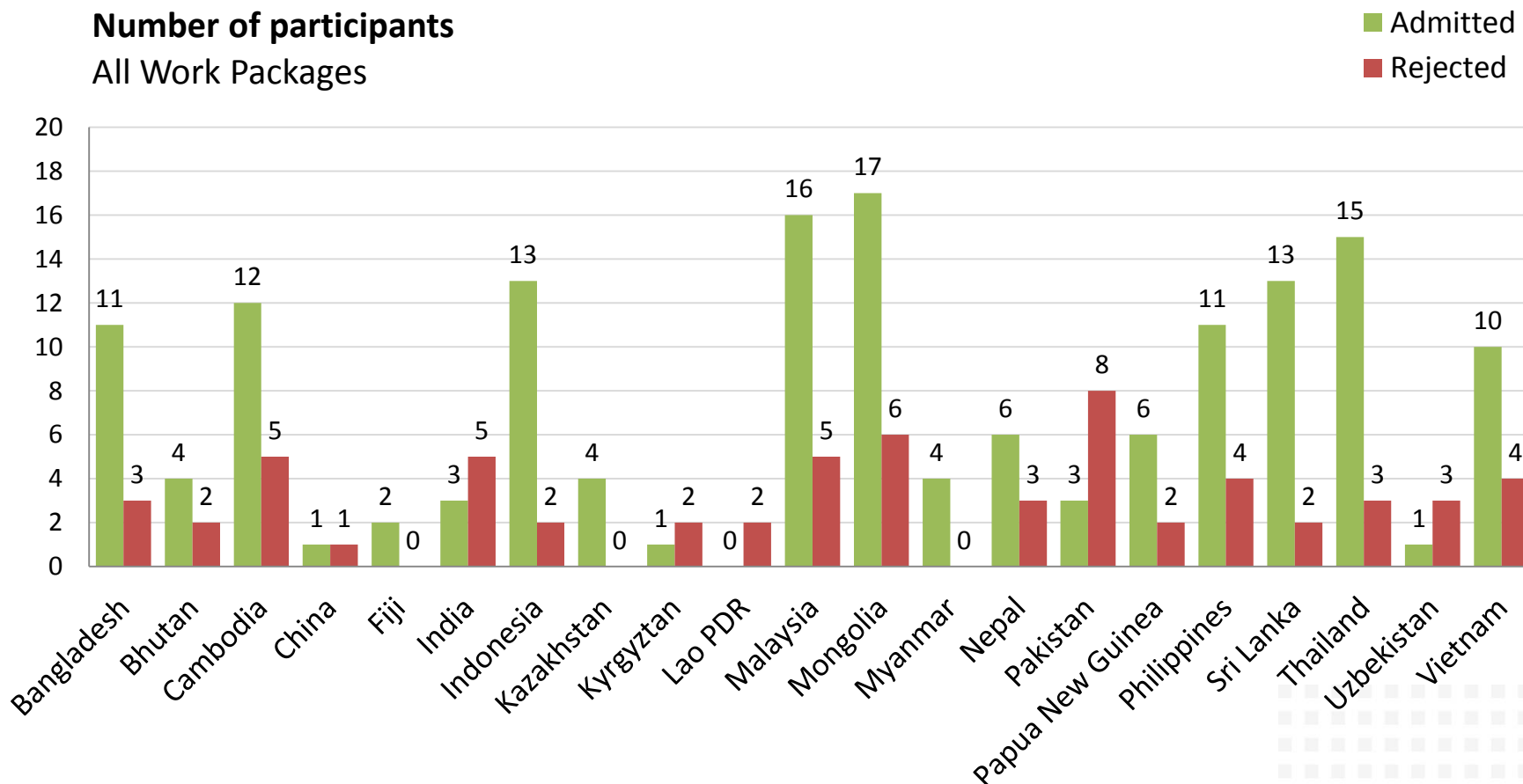
Total number of applicants : 215

Total number of admitted: 153

Total number of rejected: 62

71 % Admission rate

Outreach – Beneficiaries in 20 different economies



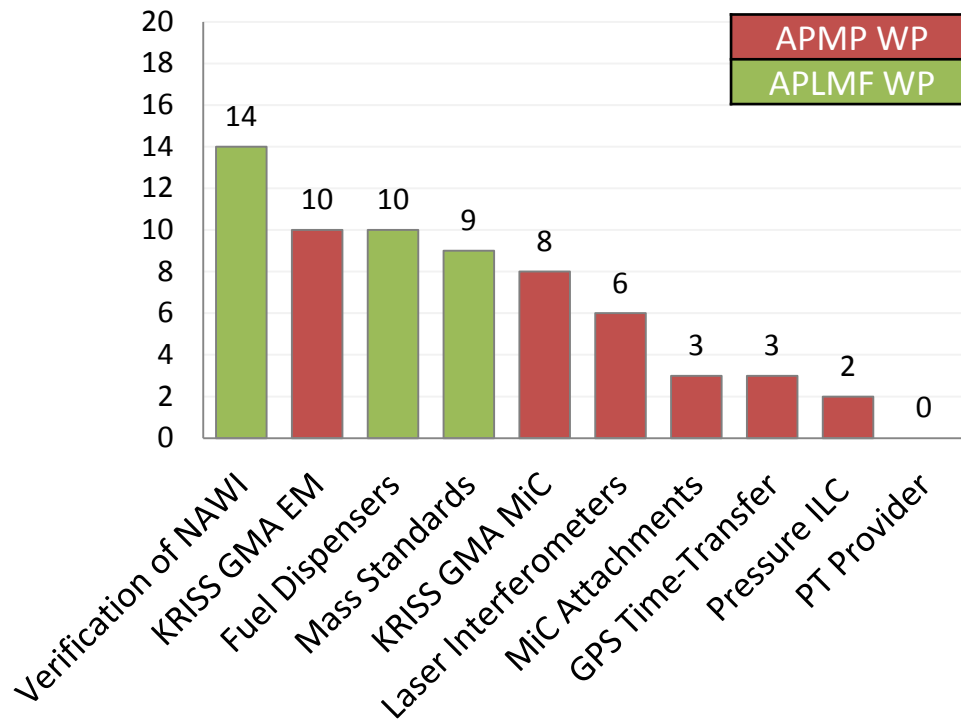
Summary:

Largest outreach of the MEDEA project to 20 different economies in Asia-Pacific in 2016 vs. 2014 & 2015

Distribution of & Reasons for rejection

Number of rejected

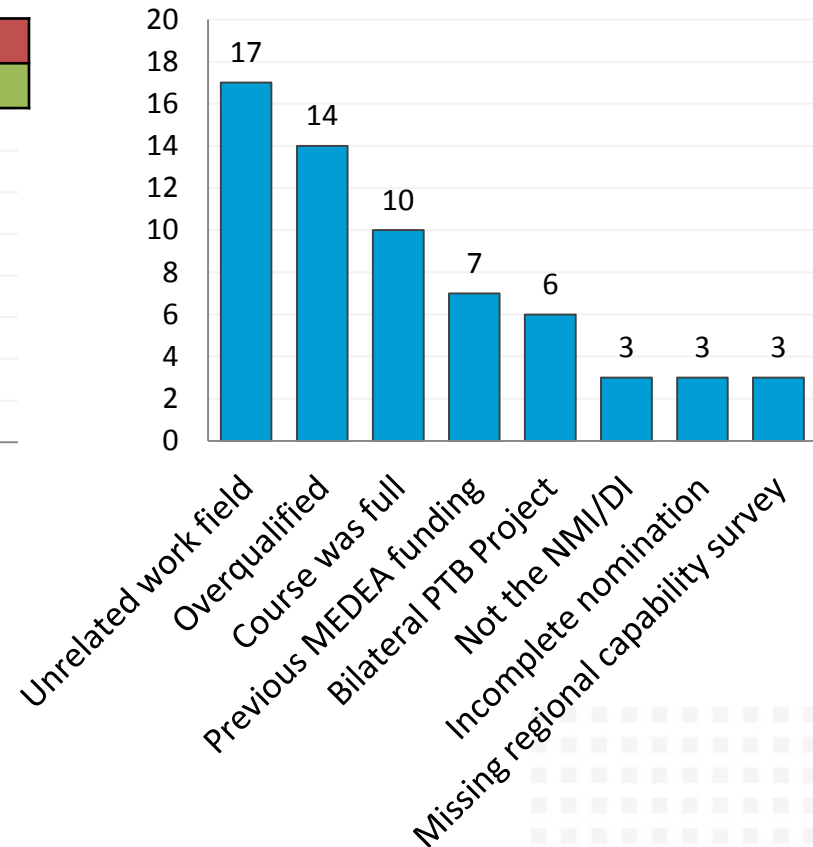
All Work Packages



- high demand in legal metrology trainings
- high interest in KRISS-GMA courses
- high interest in MiC attachment trainings

Reasons for rejection

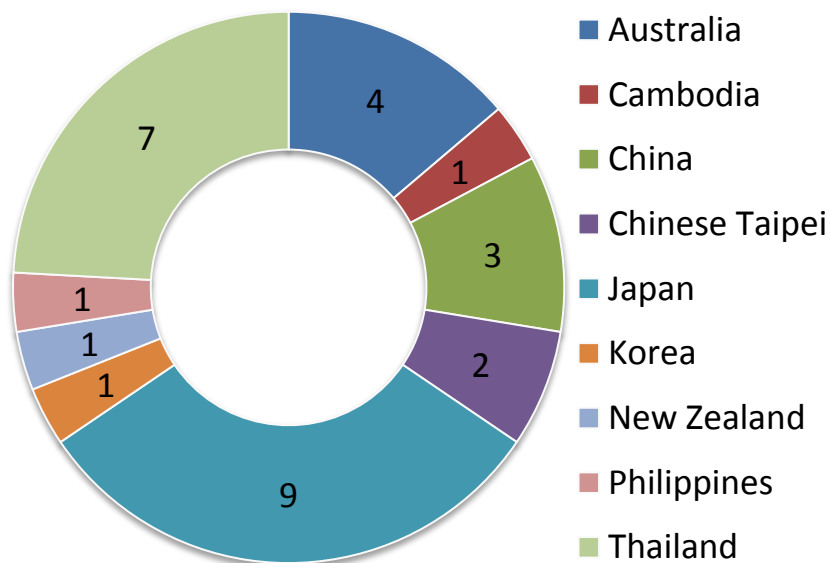
All Work Packages



- 50 % outside of target group
- 16 % due to limited number of spots
- 14 % formal application errors

Number of Trainers

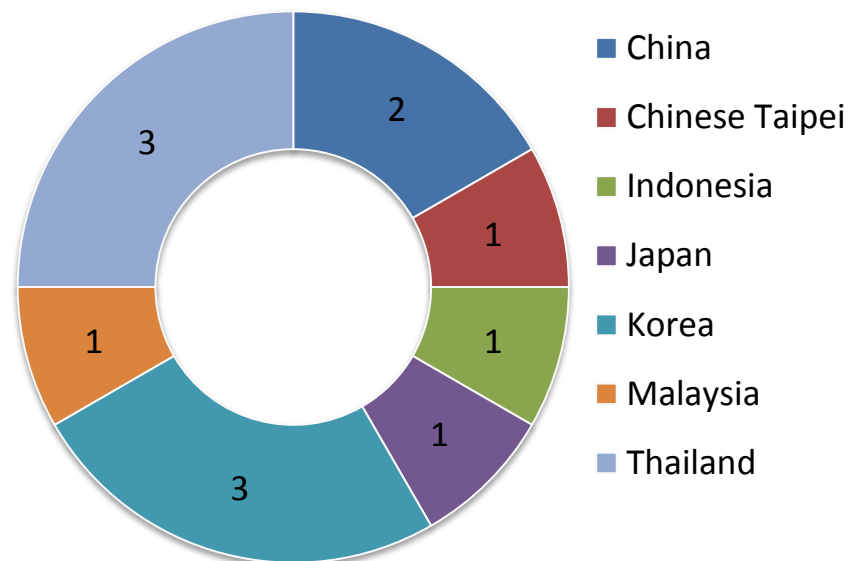
All Work Packages



- 9 economies have provided trainers
- highest engagement in 2016 from Japan, Thailand and Australia
- newcomer trainers from Cambodia, Thailand & Philippines

Number of Hosts

All Work Packages



- 7 economies have hosted trainings
- highest engagement in 2016 from Korea, and Thailand
- continuous support as in 2014/2015 from: China, Indonesia, Malaysia, Thailand

MEDEA Website

<https://www.ptb.de/lac/index.php?id=medea>

Login: medea
PWD: apmp_aplmf2014




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Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

Metrology-Enabling Developing Economies in Asia (MEDEA)

Economic development in Asia is characterized by the rapid growth of some economies and the emergence of new economic areas. Especially the less developed economies are confronted with the challenge to meet the increasing quality requirements of regional and global markets. At the same time, the pressure to harmonize their technical regulations with international standards is growing. For example, this is the case with the WTO agreements on technical barriers to trade (TBT) and on the application of Sanitary and Phytosanitary Measures (SPS). Both trends underline the need to establish an internationally recognized quality infrastructure (QI).

In this context, metrology is of particular importance, because it forms the basis for all conformity assessment procedures. The lack of access to internationally recognized metrology services in the developing economies in Asia particularly reduces the competitiveness of small and medium-sized enterprises, as they are not in a position –unlike large companies– to make use of service providers abroad, or to build up their own laboratory structure.

The networks of APMP (Asia Pacific Metrology Program) and APLMF (Asia-Pacific Legal Metrology Forum) assume crucial functions regarding the development of metrology in the developing economies of the region. An active participation in these networks is of considerable importance in order to keep up with the latest developments and to ensure internationally recognized certification procedures, especially for developing economies with limited bilateral specialist contacts. APMP and APLMF can significantly contribute to the development, harmonization and international recognition of the national metrology systems (potential) by providing specific offers for National Metrology Institutes (NMIs) and Legal Metrology Authorities (LMAs) in the developing economies in Asia.

Outlook

- MEDEA 2.0 incorporated into planning framework of BMZ, but no final approval, yet
- significantly smaller budget than current MEDEA project; hence, need for priority setting
- evaluation of MEDEA I in first half of 2017, possibly in conjunction with Joint APMP/APLMF Workshop, scheduled for May 2017
- MEDEA 2.0 expected to start early 2018 (4-year phase, i.e. until end of 2021)

Thanks to

**the MEDEA Coordination Committee members,
the APLMF Secretariat,
and
all partnering national Metrology Authorities**

for their tremendous support & enthusiasm!

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