Update on Metrology Asia Pacific Web Portal

Raising Awareness of Metrology:
MEDEA APMP-APLMF Joint Project

Raising Awareness of Metrology (MEDEA APMP-APLMF Joint Project)

- **Project Objective**: Improve the sharing of information resources between member economies to enable them to increase awareness of the importance of metrology with consumers, industry, other regulators and government

- **Project Team**: APLMF Secretariat, Dr Angela Samuel APMP, APMP-APLMF Web Portal Working Group

- **Material Contributions:** APLMF and APMP member economies (case studies and reference documents), OIML, BIPM, APMP Focus Group Chairs , APLMF Working Group Convenors

Develop a joint APMP-APLMF metrology web portal to facilitate sharing of information resources

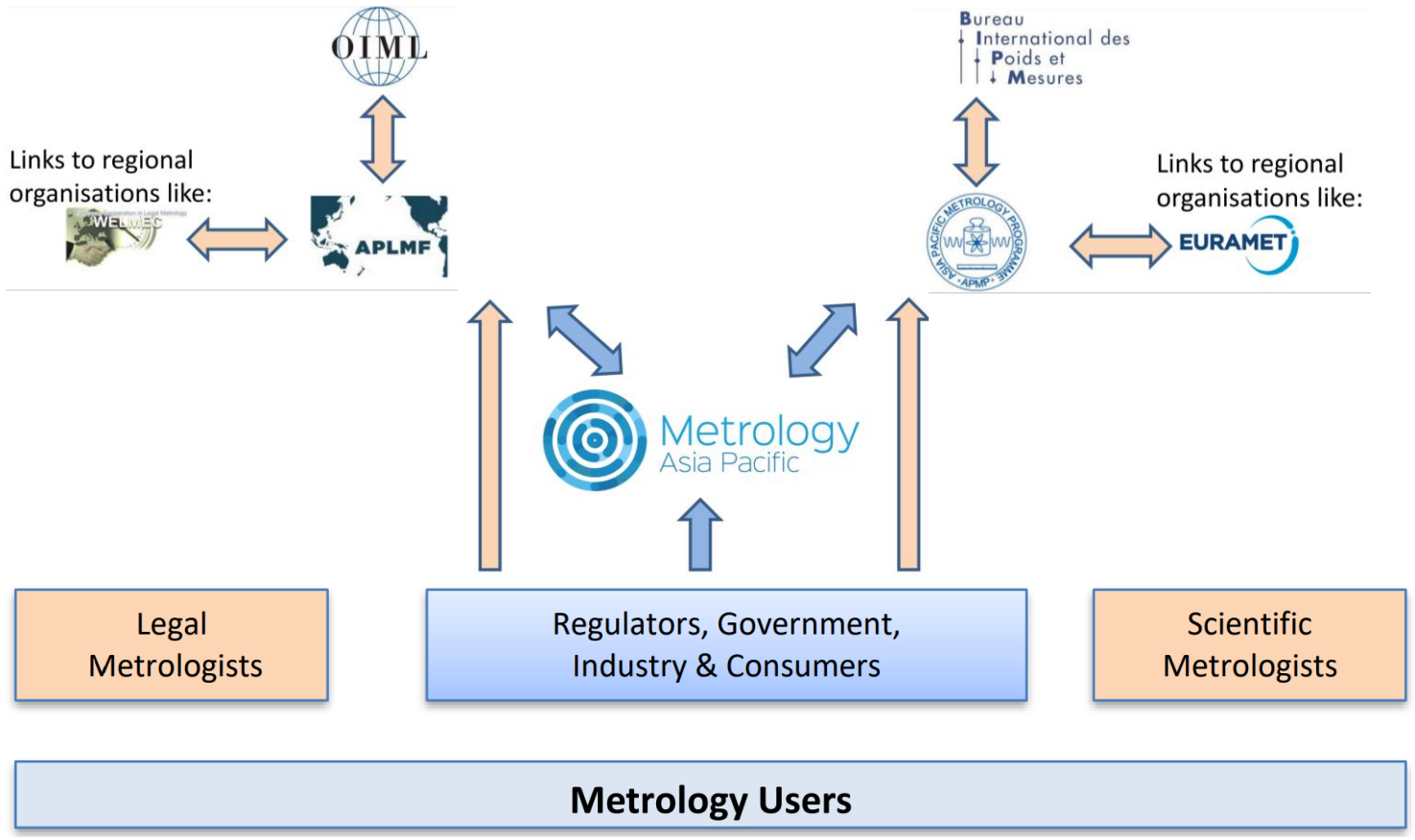
- a metrology web portal that will introduce and link to useful information on authoritative metrology websites including: APMP, APLMF, OIML, BIPM.

- The overarching design objective is simplicity and ease of use, with multiple layers and links to more technical, complex information in an identified library.

- The portal will enable easy access to resources that meet multiple needs for communication and engagement with stakeholders on issues.

- Communicate about metrology to ‘non-metrologists’.

Between Portal and Other International Metrology Organisations



Project Goals

- **Create a relevant and valued web portal** – design and deliver a great digital experience where metrology information is centrally curated, easily accessed and well managed.

- **Curate great content** – work to collect, curate and provide access to the resources, data and tools that will provide value to the target audiences e.g. links to training resources available globally.

- **Showcase metrology** – present information in a way that clearly presents benefits, methodologies, statistics etc and provides developing economies and industry with the tools and resources required to show the value of building and improving their metrology infrastructure.

- **Encourage community contribution and sharing** – create a digital resource that the community value and want to participate in. This will ensure the portal remains current, dynamic and valued.

– Development and use of case studies of successful metrology interventions or information campaigns.

– Development, promotion and sharing of resource and collateral materials.

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WG-members

APMP	APLMF
Achaya Teppitaksak (NIMT)	Zainal Bin Mastapa (Malysia)
Loreibelle Abian	Mr Michael Jason Aguila Solis
Mrs Unurbilag Darmaa	Mr Kangyoung Sung
Dr Rina Sharma	
Dr Zen Yang	
Mr Sophors Em	

Science communication for metrology

- Writing technical reports and proposals
- Speaking to and writing for your peers
- Communicating with non-specialists
- Relationships with customers and collaborators
- Liaising with government or funders
- Public-facing activities – e.g. talks at universities
- Community outreach – e.g. schools or youth groups

How to Write a Case Study

Example #1: Template

Most common approach

Short (~500 words)

Simple, clear language

This format is useful for stakeholders (e.g. government and funders)

This works especially well for a case study on a specific project

Example #2: Article

A story or news-style piece

Longer (~800 words)

More detailed / more technical

Especially good for ongoing relationships or long-term projects

Thailand

Bringing metrology into the classroom

See how the awareness of metrology is being raised through a nationwide initiative to work with educators in Thailand

Korea

Paving the way for Korea's Electric Vehicle era

See how metrology is supporting the automotive industry and the introduction of Electric Vehicles

Malaysia

Putting length metrology into 3D laser scanning

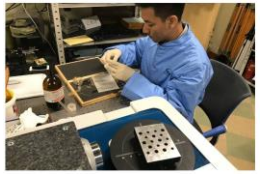
The National Metrology Institute of Malaysia (NMIM) supports vehicle inspection to adopt a critical new technology

Philippine

Multinational Manufacturer Embraces NMI's Services

Filipino metrologists help Japanese company to stay balanced

Cambodia



Upskilling metrology workforce through international collaboration

Cambodian metrology technicians gain new skills through working with China

Mongolia

The issue with water flowmeters

Metrologists tackle an ongoing challenge in Mongolia's water supply

By Laurie Winkless and WG

Case studies Added

Climate change and clean air

These pages are being populated with Case Studies and/or links to external resources on how measurement is addressing challenges in each of these areas. Thank you for your patience and assistance as we build this content.

UK

Climate change and clean air

Analysis extends lifetime of new fuel cell

See how NPL helped produce innovative, low cost fuel cells using manufacturing techniques from the printed circuit board industry.

Reducing reliance on plastic drums

NPL helped Fibrestar prove that sustainable fibre drum containers perform as well as plastic competitors.

The National Physical Laboratory (NPL), UK, highlights the role of metrology in tackling Climate Change here:

NPL-Climate-Change

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Case studies Added: Existing From Current Website

Uniform analyses for clean drinking water in Europe- PTB

Clean water is a matter of survival for humans, particularly when it is used for drinking, cooking and for food manufacture. PTB scientists receive award for concept of comparability and traceability of water analyses.

Analysis extends lifetime of new fuel cell

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Improving the quality and efficiency of crop production

Using algorithms and machine learning to unlock data and provide meaningful information.

Improving yield estimates in bifacial photovoltaics

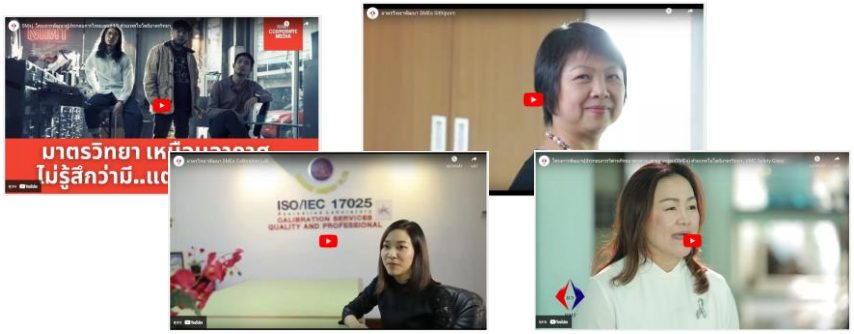
NPL helped develop uncertainty calculation tools for assessing the risks associated with solar farm sites.

Calibration of essential medical components

NPL ensured regular calibration of critical parts for the manufacture of a component of asthma inhalers during the COVID-19 lockdown.

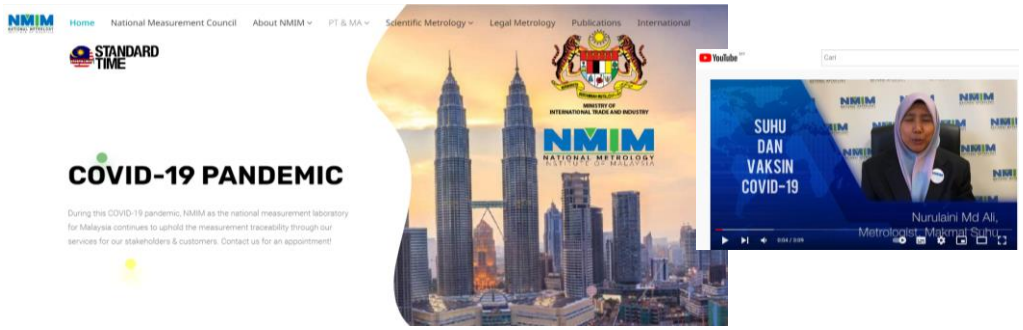
Existing From Current Website

Thailand



Singapore

Malaysia



Encouraged WG to developed case studies for their own Website

Continue Support From PTB

Planned	Timeline
Revise Current Web Portal	Oct 2022 – Dec 2022
Webinar - How to write a case study	January 2023
WorkShop: on how to write a case study	From February 2022

Limited number of participant allowed so if interested to join the workshop, please Contact: zainalm@sirim.my or Achayat@nimt.or.th

Next Step

- Tidy up current functionality

- Corroborate with other working groups in APMP/APLMF
  - Additional content
  - Receive and respond to member's feedback

- Funding maintain the Portal

APLMF – Case Studies Needed!

We need your success story…