



Impact and Benefits of being a Member State of the OIML

Presented by

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BIML Director*



Stephen Patoray: BIML Director

- Mechanical Engineer by education
- Masters in Business Administration
- Certified Association Executive
- Auditor for ISO 9001 and 17025
- Certified Six Sigma Green Belt

- Over 25 years experience in industry
- Over 8 years serving as National Type Evaluation Program (NTEP) Director in US
- An investigative agent for US Department of Agriculture



Outline

- What is the OIML
- What is Legal Metrology
- What are the benefits of being a Member of the OIML
- Summary



The **OIML** is an **intergovernmental treaty** organization.

It was established in **1955**
in order to promote the global harmonization
of legal metrology procedures.



Member States (57)

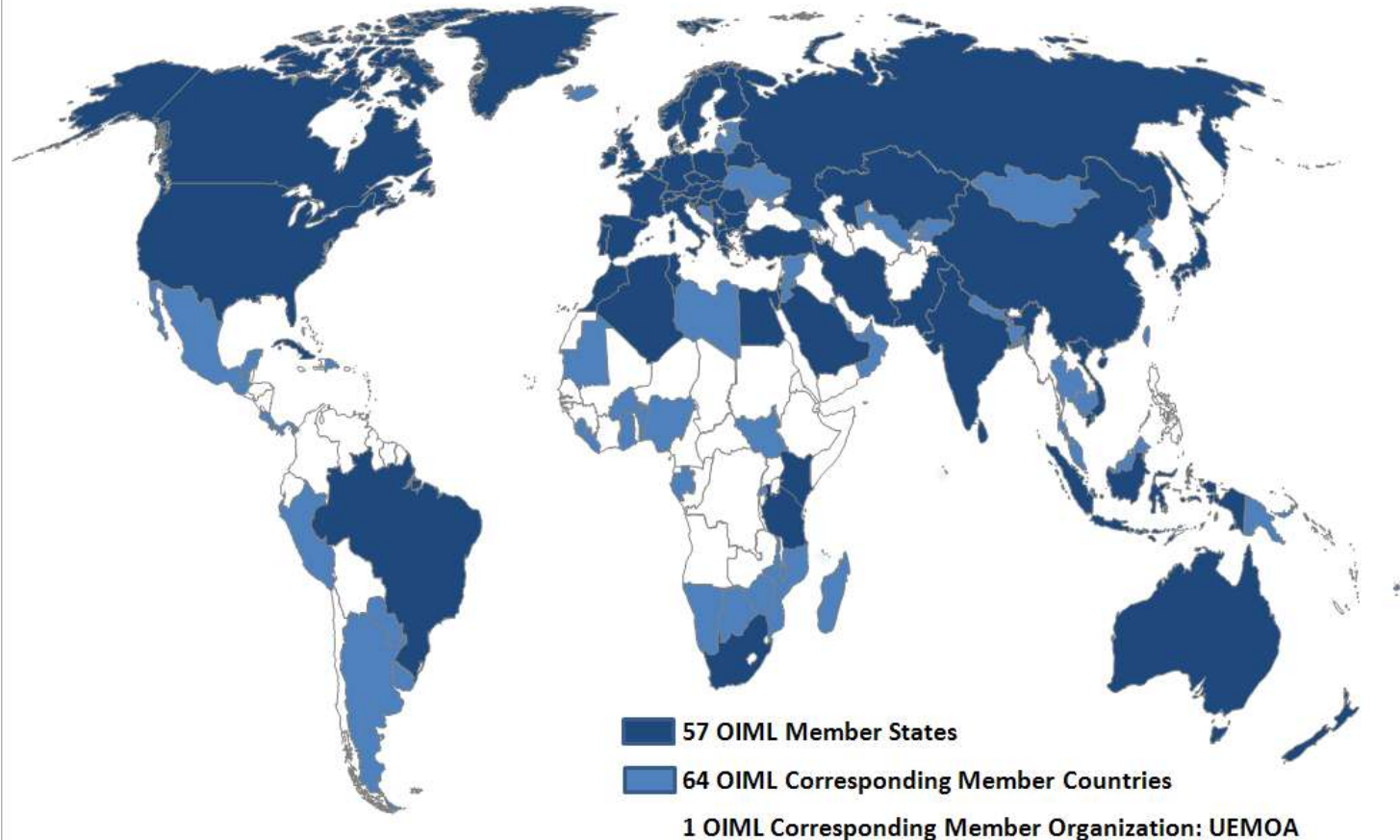
- Have **signed or acceded** to the OIML Treaty
- Participate fully and **vote** in all OIML matters
- May **appoint** an Issuing Authority
- May **fully participate** in the MAA and in the CPRs

Corresponding Members (64)

- Have not yet acceded to the OIML Treaty
- May attend CIML and Conference Meetings as observers
- May participate in OIML Technical work as observers
- May participate in the MAA as an associate participants



OIML Membership – August 2012





OIML

Conference meets every 4 years

CIML

The Committee meets every year

BIML

Is the Secretariat for the Organization



Presidency



G. Harvey
CIML First Vice-President



P. Mason
CIML President



R. Schwartz
CIML Vice-President



Ian
DUNMILL
Assistant Director



Stephen
PATORAY
Director



Willem
KOOL
Assistant Director



Jalil
ADNANI
*Database Systems
Management*



Jean-Christophe
ESMIOL
*IT Systems
Management*



Philippe
LECLERCQ
Administrator



Florence
MARTINIE
*Administrator,
Finance*



Luis
MUSSIO
Engineer



Chris
PULHAM
*Editor/
WebMaster*



Patricia
SAINT-GERMAIN
*Administrator,
Members*



The OIML,

with the help of volunteer technical experts which work through Technical Committees and Project Groups,

creates **written standards**, called Recommendations, for use in **legal metrology**



Technical work

- 18 Technical Committees
 - 45 Sub Committees
 - 94 Project Groups

Outcome

- over **100** Recommendations
 - 27 Documents
 - 12 Basic publications
 - 2 Vocabularies
 - 18 Guides



OIML D 1

*Considerations for a **law** on metrology*

OIML D 29

*Guide for the application of ISO/IEC Guide 65 to assessment of measuring instrument certification bodies in **legal metrology***

OIML D 30

*Guide for the application of ISO/IEC 17025 to the assessment of Testing Laboratories involved in **legal metrology***

OIML R 76

Non-automatic weighing instruments

OIML R 117

Dynamic measuring systems for liquids other than water

Regional Metrology Organizations



AFRIMETS
APLMF
COOMET
GULFMET
EAMET
SADCMEL
SIM
WELMEC





What is **legal metrology**?



Metrology:

“**Metrology** is the **science of measurement** and its application

Metrology includes **all** theoretical and practical aspects of measurement...”

OIML D 1 Considerations for a law on Metrology



In simple terms, there are **three** areas of metrology

Scientific

Legal

Industrial

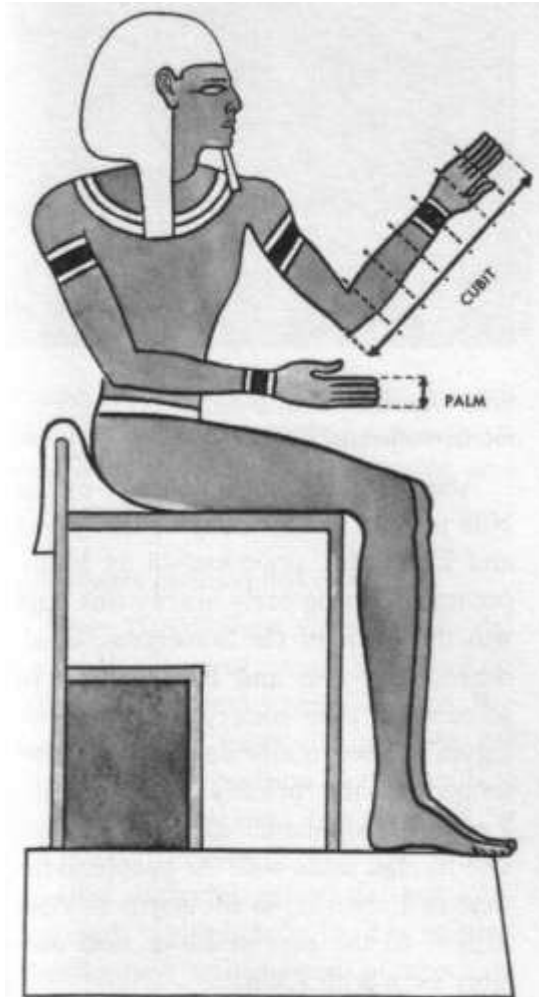


Legal metrology:

“**Legal metrology** is the practice and the process of applying **regulatory structure and enforcement** to metrology.”

OIML D 1 Considerations for a law on Metrology

Cubit



Wordpress Blog
EIGHTEEN INCHES
Elijah Lim on August 8, 2010



Legal metrology relies on the following activities by a government:

1. **establishing** a law
2. **enforcing** the law; and
3. **providing traceability** for measurements



Legal metrology relies on the following activities by a government:

1. **establishing** a law



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Why should there be a law?



Legal metrology relies on the following activities by a government:

1. **establishing** a law

“there is a **societal need** to **protect** both the buyer and the seller in a commercial exchange or service...”

OIML D 1 Considerations for a law on Metrology



Legal metrology relies on the following activities by a government:

1. **establishing** a law

“...since there is an increasingly **global aspect** to many measurements, a country’s Law on Metrology should take this global aspect into account, as far as possible.”

OIML D 1 Considerations for a law on Metrology



Legal metrology relies on the following activities by a government:

1. **establishing** a law

This is an area where the **OIML** can have a **direct benefit** on a Member State



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1. **establishing** a law

The OIML **develops model regulations**, or written standards called **International Recommendations**, which provide an **internationally agreed-upon basis** for the establishment of national legislation on various categories of measuring instruments.



Legal metrology relies on the following activities by a government:

2. **enforcing** the law



Legal metrology relies on the following activities by a government:

2. **enforcing** the law

This is a **continuous activity** of the Member State,



Legal metrology relies on the following activities by a government:

2. **enforcing** the law

However; the **OIML assists** with programs in registering and recognizing Certificates of Conformity and establishing programs for Conformity to Type and Pre-packages



Legal metrology relies on the following activities by a government:

2. **enforcing** the law

An international study found that for **each \$1** spent on regular periodic inspections, **\$11.40** of non-complying measurements were corrected.

The Birch Report, page 29:

http://www.oiml.org/publications/birch_study.html



Legal metrology relies on the following activities by a government:

3. **providing traceability** for measurements



Legal metrology relies on the following activities by a government:

3. **providing traceability** for measurements

Legal metrology complements **scientific** and **industrial** metrology and supports the practical application of measurements within the community.



**The OIML along with these other International Organizations
have signed**



Joint Declaration on Traceability



How does **legal** metrology help society?



How does **legal** metrology help society?

Reducing technical barriers to trade

Promoting good governance

Collecting government revenue

Improving health

Reducing deaths and injuries

Managing stock control and reducing fraud



What are the benefits of becoming a Member State of OIML?



As a **Member State** of the OIML one can:

- **Become part of an international network of standards makers**
 - Participate in Conference and CIML Meetings with **voting** rights
 - Participate in Technical Committees and Project Groups with **voting** rights
- Declare an **issuing authority** in the OIML Certification Systems
- Participate in the **Basic Certificate System** and, the **Mutual Acceptance Arrangement**



OIML Basic Certificates System

Voluntary system launched in 1990.

- CIML Members (Member States) may appoint Issuing Authorities that they consider competent and impartial.
- Issuing Authorities issue **OIML Certificates of Conformity** to OIML Recommendations, accompanied by an **OIML test and evaluation report**.

These Certificates of Conformity are registered and published on the OIML web site.



OIML Basic Certificates System

As of April 2012

- Over 2500 Certificates registered related to nearly 20 categories;
- issued by over 20 Issuing Authorities
 - for over 500 applicants,
 - from 40 different States.



OIML Mutual Acceptance Arrangement



Optional addition to the OIML Certificate System

Voluntary system started in 2005

For identified categories, **Declarations of Mutual Confidence (DoMC)**

- Based on the **evaluation** of Issuing Authorities laboratories (ISO/IEC 17025)
- A group of participants declare that they will **accept and utilize evaluation reports and test results** issued by the evaluated Issuing Participants)

Certificates are recorded and published on the OIML website with mention they are covered by a DoMC



Accredited Testing Laboratories in the MAA



- Accreditation scope shall cover **type approval testing** according to the relevant OIML Recommendation
- Accreditation delivered by a **signatory** of the ILAC - MRA
- The accreditation assessment team shall include a **Technical and Metrological Expert** in the appropriate field of type approval
- OIML and ILAC are developing the document: “Guidelines for the accreditation of **Legal Metrology Bodies**”



Summary

- What is the OIML
- What is Legal Metrology
- What are the benefits of being a Member of the OIML



Summary of Member benefits

- studies show that 60 to as much as 75 percent of an economy's GDP is based on some type of measurement
- the ability to fully participate in a global network experts
- has direct benefit for both your own citizens and global trade
- a voice and a vote in international recommendations in areas related to legal metrology
- a voice and a vote in the direction of the work of the OIML
- a real payback to society when legal metrology is implemented and enforced
- follow internationally developed standards to help reduce barriers to trade



Summary of Member benefits

- Simply, the benefits you will receive are directly proportional to the effort you put into your participation



Thank you

OIML Website

www.oiml.org

Joint BIPM/OIML Website

www.metrologyinfo.org



International Organization of Legal Metrology

Organisation Internationale de Métrologie Légale