

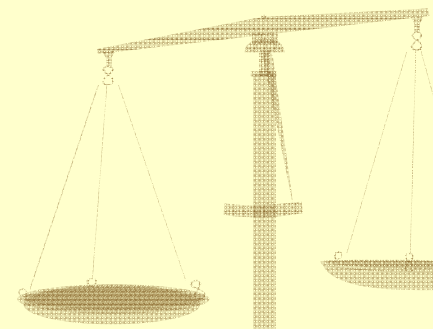


AFRIMETS
Reflecting on the Past, Looking
to the Future

Nov 2012

Dr Wynand Louw

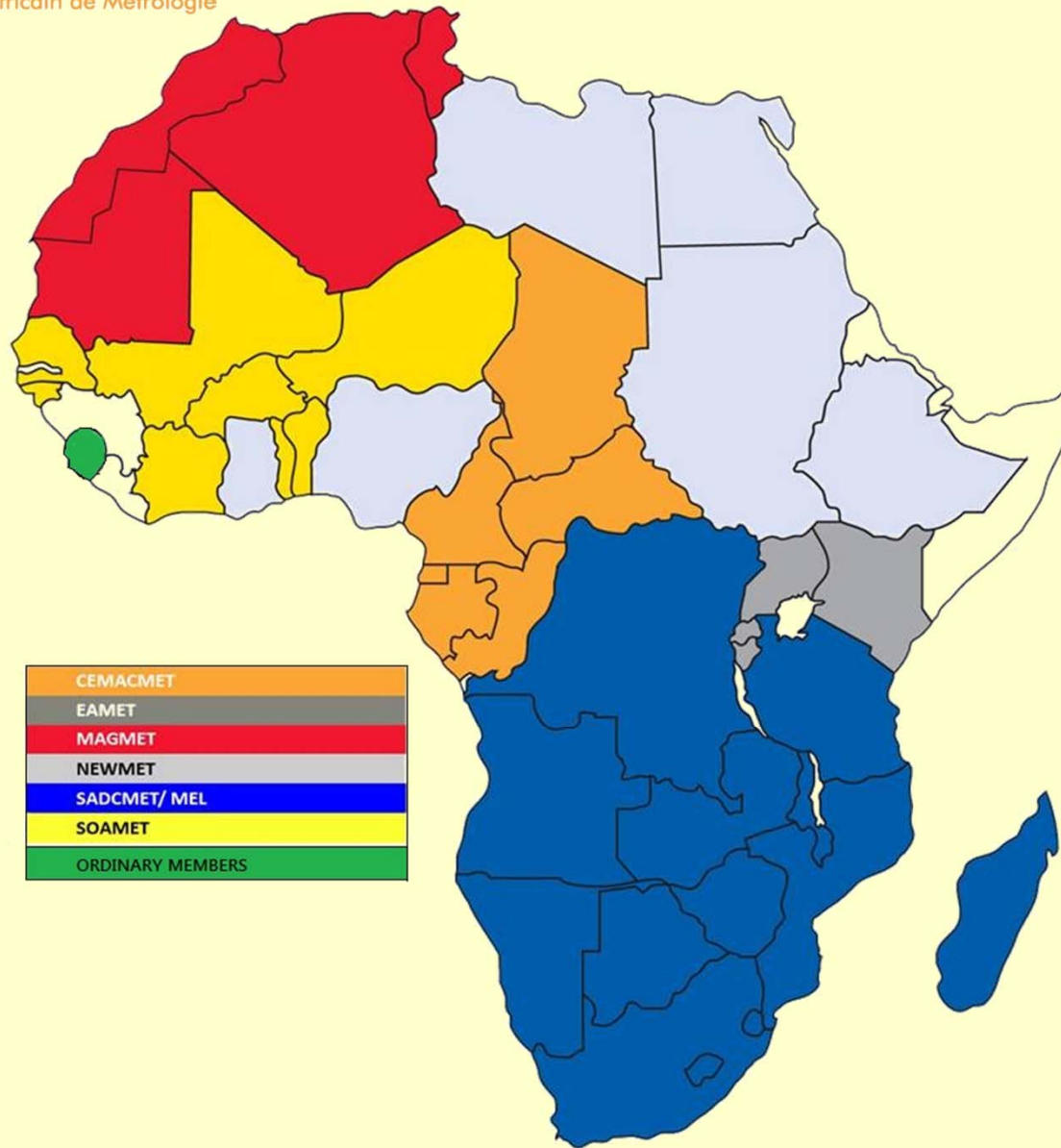
Immediate Past Chair



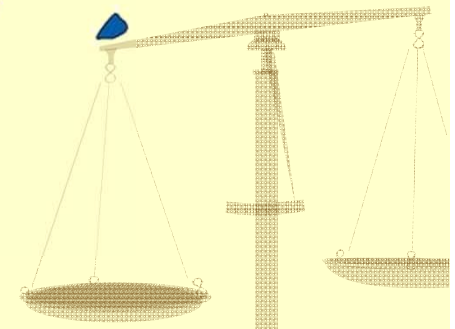


AFRIMETS
Intra-Africa Metrology System
Système Intra-Africain de Métrologie

the members (2012)



CEMACMET
EAMET
MAGMET
NEWMET
SADC/MET
SOAMET
ORDINARY MEMBERS



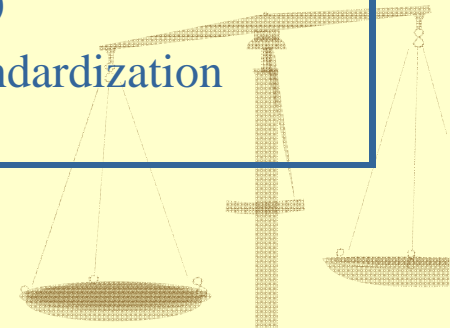
Associate Members (7)

- LNE, France
- PTB, Germany
- *NIRPS (National Institute of Radiation Protection and Research (Nigeria))*
- *GRPI (Ghana Radiation Protection Institute)*
- *TAEC (Tanzania Atomic Energy Commission)*
- *Madagascar-INSTN,*
- *IAEA*
- *IPQ (discussions underway)*
- *Arab Gulf countries invited to participate*



Observers (4)

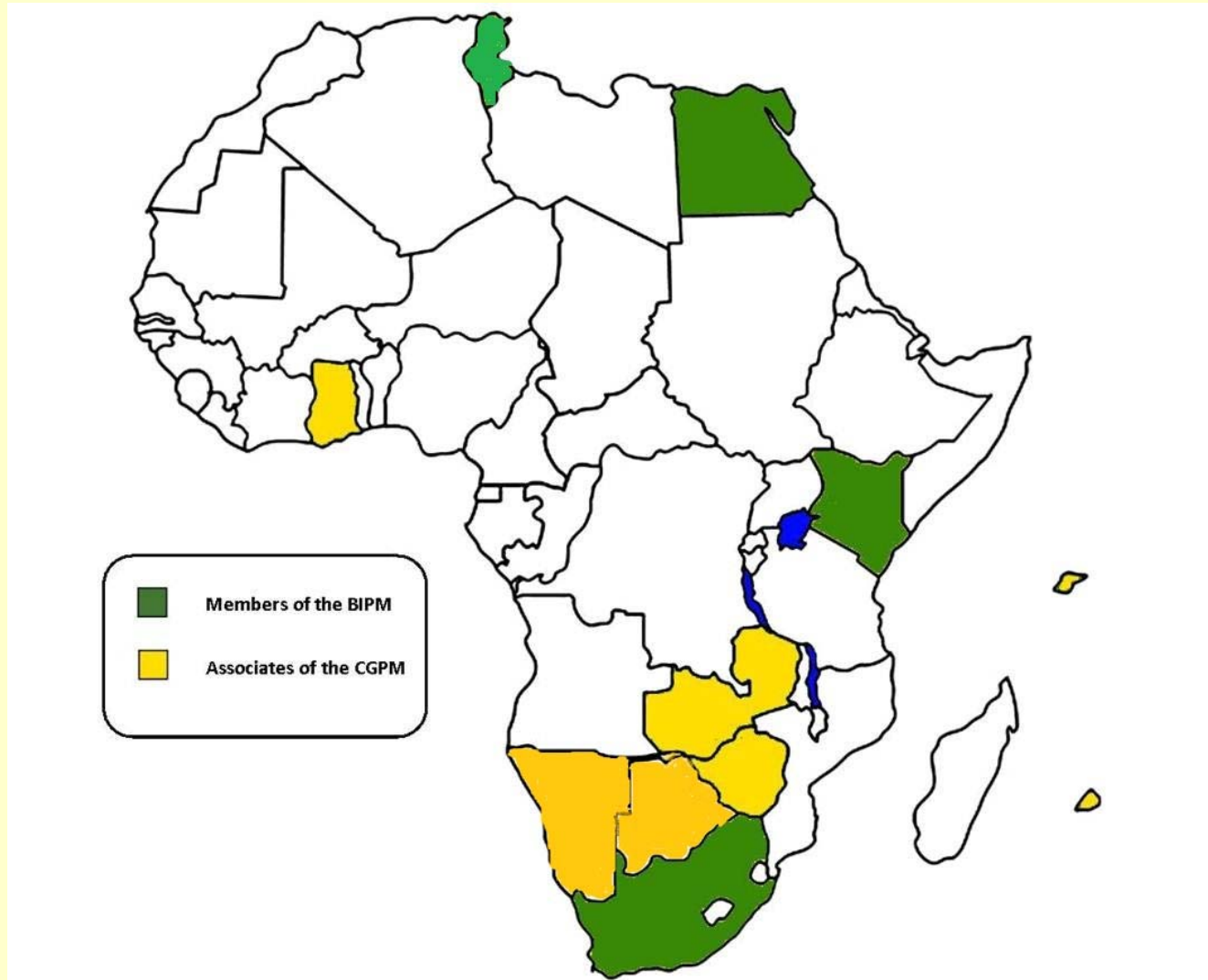
- EURAMET
- CAFMET (Comité Africain de Métrologie)
- AFM (Arab Federation for Metrology)
- AFSEC (African Electrotechnical Standardization Commission)





AFRIMETS
Intra-Africa Metrology System
Système Intra-Africain de Métrologie

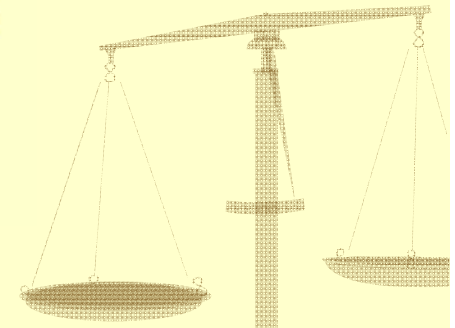
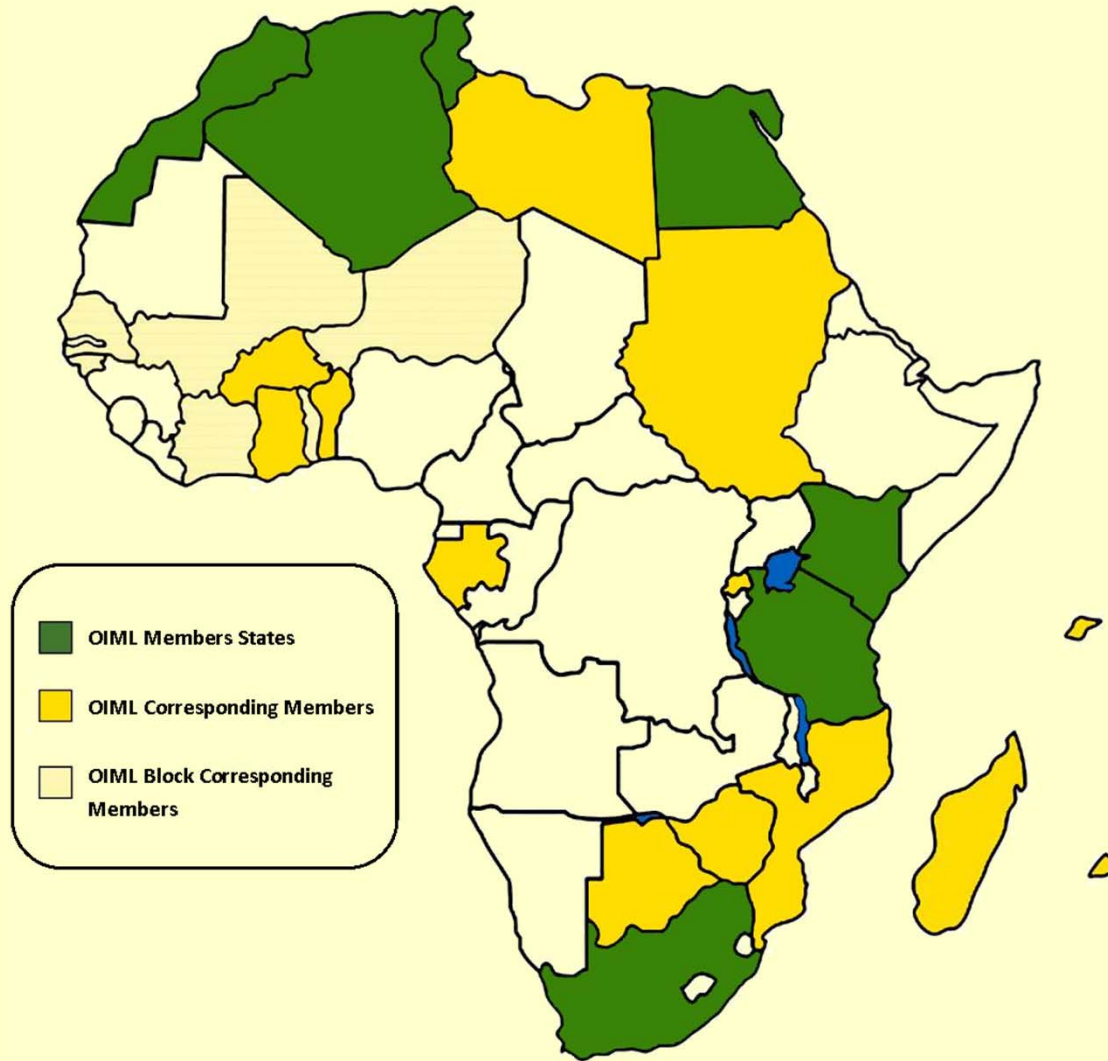
the members of the BIPM, Associates of the CGPM (2012)





AFRIMETS
Intra-Africa Metrology System
Système Intra-Africain de Métrologie

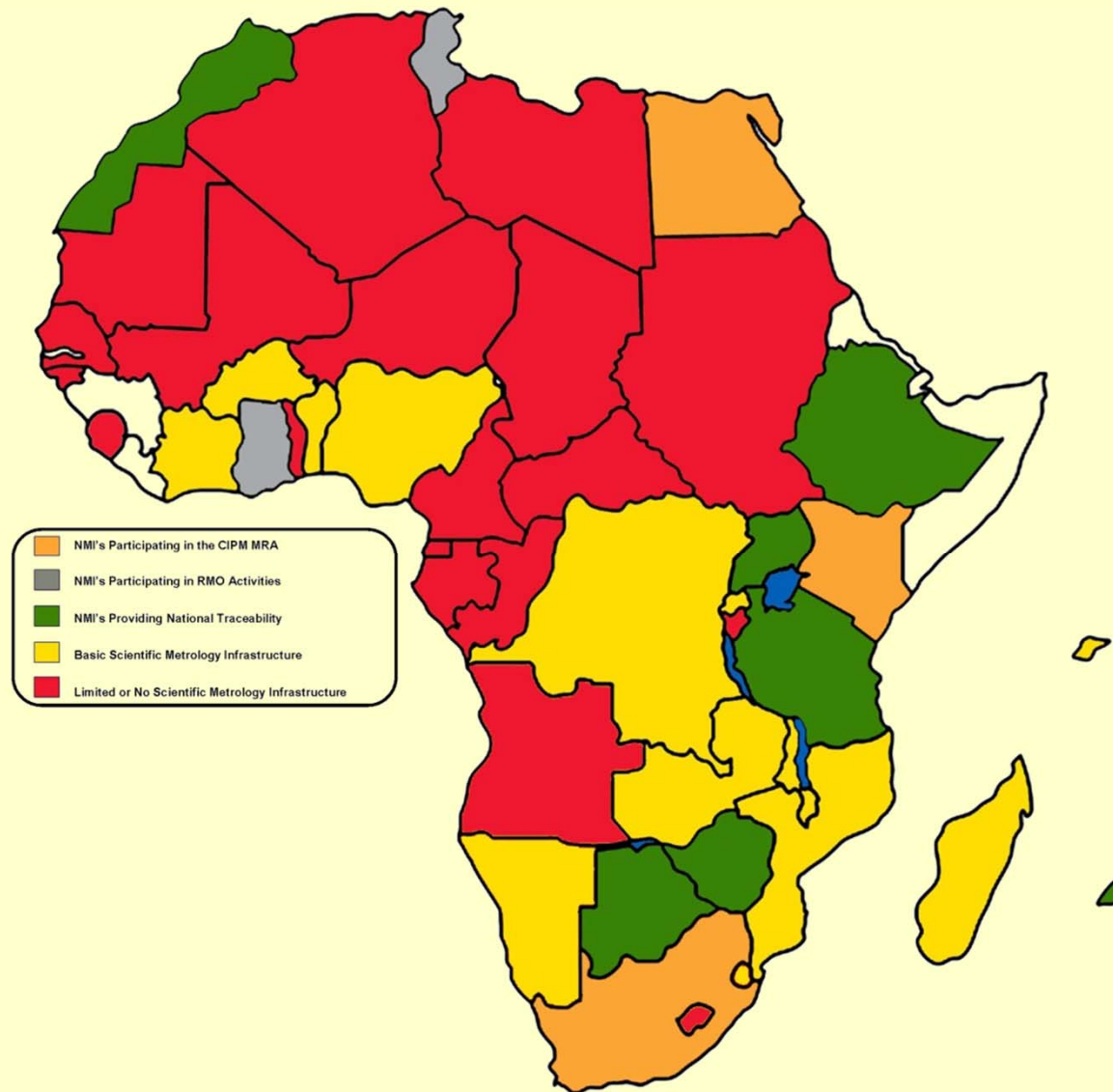
the members and corresponding members of the OIML, (End 2011)





AFRIMETS
Intra-Africa Metrology System
Système Intra-Africain de Métrologie

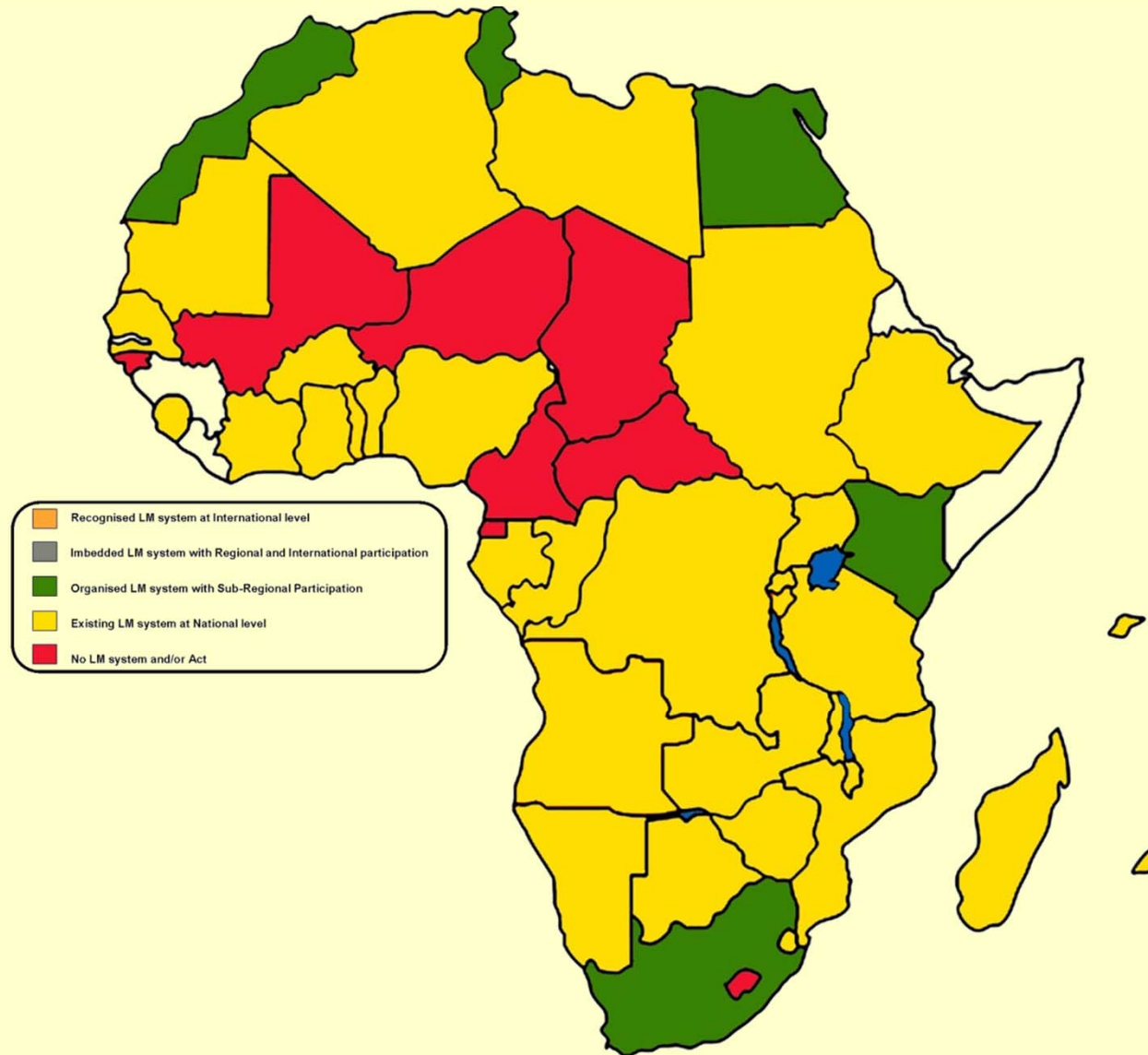
Scientific Metrology Capabilities



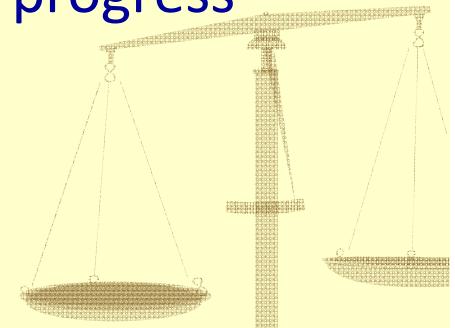


AFRIMETS
Intra-Africa Metrology System
Système Intra-Africain de Métrologie

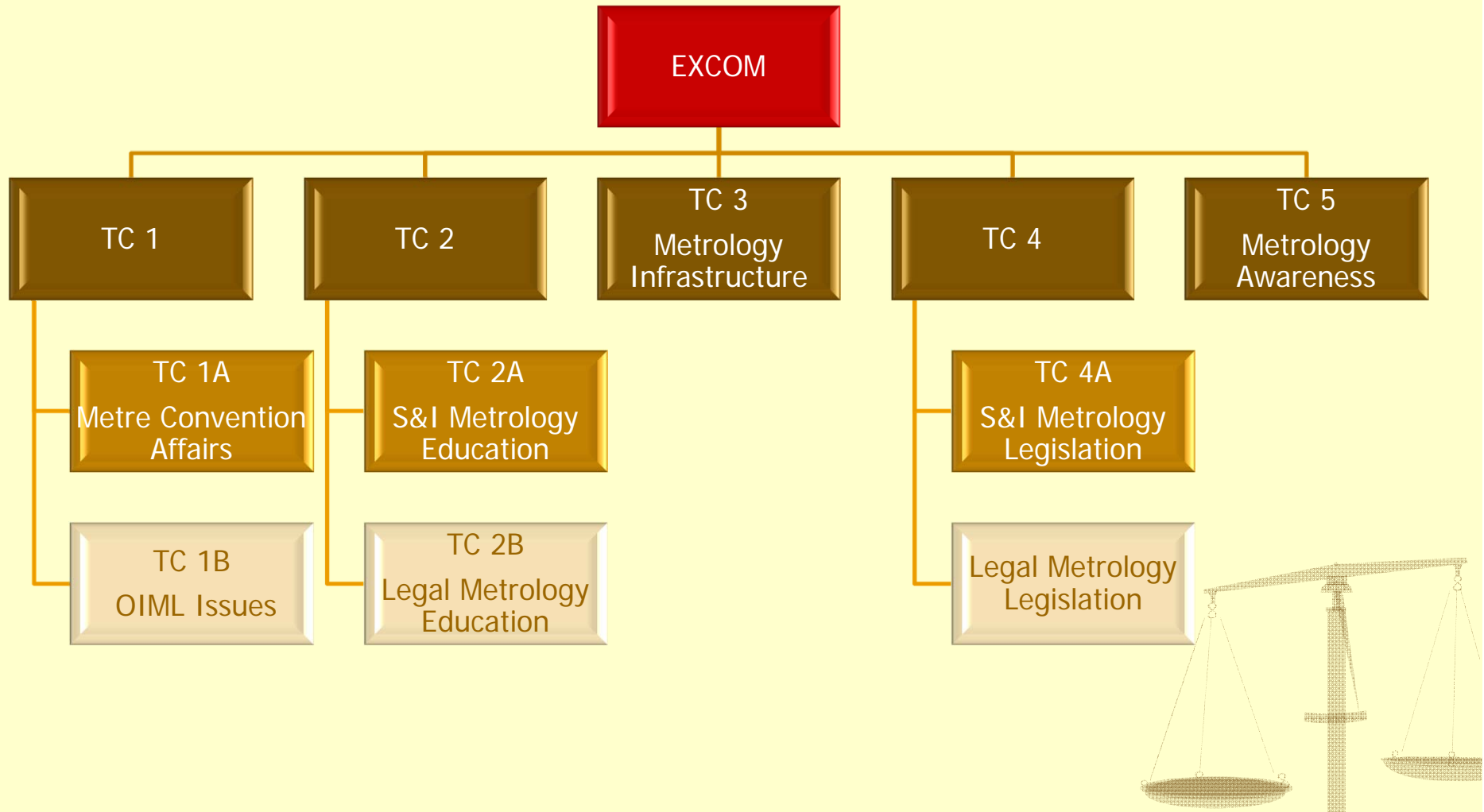
Legal Metrology Capabilities



- Tunisia became a full member of the Metre Convention
- Namibia and Botswana became Associates of the CGPM
- Namibia and Botswana signed the CIPM MRA
- 6th AFRIMETS GA held in Cotonou, BENIN
- Gambia became an Ordinary member of AFRIMETS
- AFRIMETS confirmed by the African Union Commission (AUC) as the pan-African representative organisation for Metrology
- One Key and nine Supplementary comparisons in progress



The Technical committees

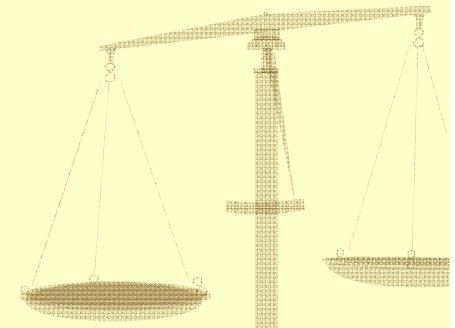


The TC 1A-Working Groups

TC-Mass and Related Quantities (TC-M)	Mass
	Flow
	Pressure
	Force, Torque and Hardness
TC-L	Dimensional (Length)
TC-AUV	Acoustics, Ultrasound and Vibration
TC-T	Temperature
TC-TF	Time and Frequency, Fibre Optics
TC-EM	Voltage, Resistance, AC power and energy, Radio Frequency
TC-PR	Photometry and Radiometry
TC-RI	Ionising Radiation

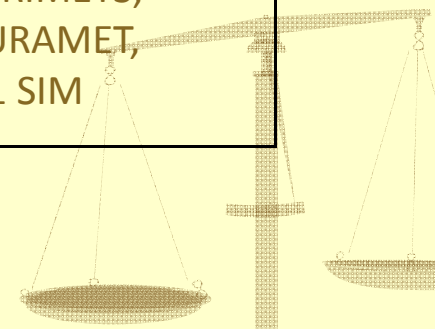


TC-QM Metrology in Chemistry	Organic and Bio Analysis
	Inorganic
	Gas
	Testing Laboratories
TC-QS	Quality Working Group
TC 1B Working Groups	
TC-WM	Weights and Measures



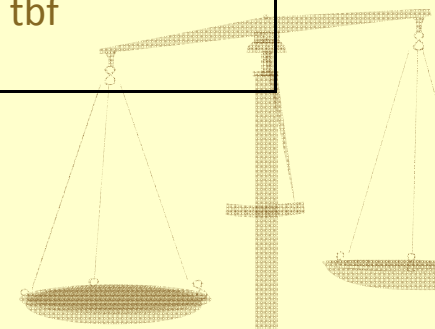
AFRIMETS Comparisons

<u>No.</u>	<u>Comparison</u>	<u>Status</u>	<u>No of Participants</u>
1	AFRIMETS.T-S1 (Industrial PRTs from -50°C to 450 °)	TS1 finished. TS2 (Western Africa) and TS3 (Southern Africa started (artefacts sponsored by UNIDO)	14 AFRIMETS 1 APMP (NIMT)
2	AFRIMETS.RI(1)-S1 Measurement of Air Kerma (covering ¹³⁷ Cs, ⁶⁰ Co and/or x-ray beam)	Started in March 2012	9 AFRIMETS, 2 EURAMET, IAEA
3	AFRIMETS.PR-K3a (to be registered) -Luminous intensity	Links to CCPR-K3.a and CCPR-K4. Amendments to Protocol requested by CCPR	3 AFRIMETS, 2 APMP, 1 EURAMET
4	AFRIMETS.AUV.V-S2 Vibration acceleration, 10 Hz to 10 kHz	In progress. Measurements started in June 2012	2 AFRIMETS, 3 EURAMET, 1 SIM



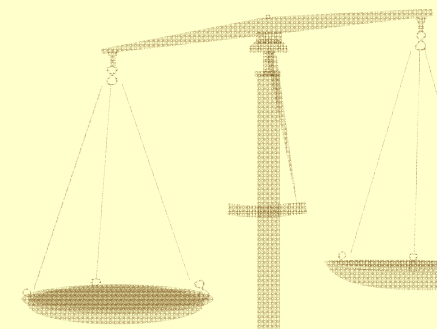
AFRIMETS Comparisons

<u>No.</u>	<u>Comparison</u>	<u>Status</u>	<u>No of Participants</u>
5	AFRIMETS.QM-K27 Ethanol in Aqueous matrix	Finished, Draft A report out. Draft B report in progress	3 AFRIMETS, 2 EURAMET
6	AFRIMETS.L-S3	End standards (gauge blocks by mechanical measurement)	tbf
7	AFRIMETS.L-S4	End standards (gauge blocks by mechanical measurement)	tbf
8	AFRIMETS.AUV.A-K1	Acoustics	tbf



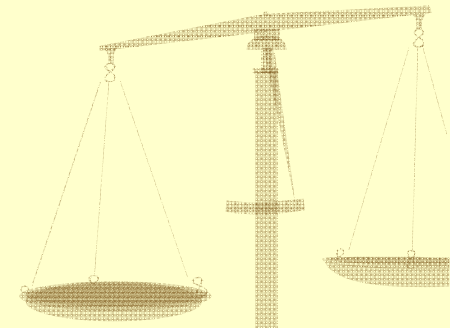
AFRIMETS Comparisons

<u>No.</u>	<u>Comparison</u>	<u>Status</u>	<u>No of Participants</u>
9	AFRIMETS.M.FF-S4 Volume comparisons	Finished, Draft A report out. Draft B report in progress	3 AFRIMETS, 2 EURAMET
10	AFRIMETS.M.P.K-2 Pressure, 10-110 kPa absolute	In progress	tbf



- CMCs published in the KCDB by NMISA and NIS:
 - NIS = 28
 - NMISA = 380

- Kenya QS approved by AFRIMETS TC-QS
- Kenya currently participating in AFRIMETS comparisons and willsoon submit CMCs
- Tunisia preparing to submit QS for approval



Metrology
Measurements in Chemistry



Chemical measurements
for our life, our future

AFRIMETS logo and various text in multiple languages including English, French, and Chinese, related to chemistry and metrology.



World Metrology Day
20 May 2011
www.worldmetrologyday.org

