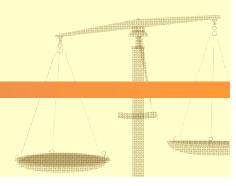
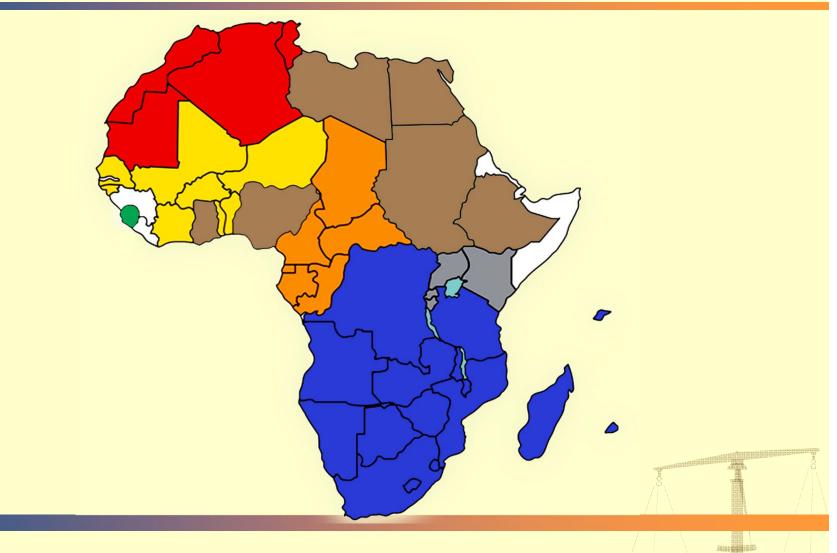


TCL- Length/dimensional feedback 2013 O Kruger









Length working group Roadmap (top priorities)

- Comparisons to support CMC submission
- Assist firstly NIS (and then other NMIs) to become CCL member, must first become associate member
- Assist with NMIs to become part of the WG
- Assist Countries entering CMCs in database, No CMC submission currently through Afrimets, NMISA CMCs through APMP and NIS CMCs through Euramet
- Sponsorship of road map activities:
 - Comparisons
 - R&D projects:
 - Training
- Start, together Mass and related, initiative to produce technical guidelines
- Better use of Web site





Number	AFRIMETS comparisons	Status	Phase	Pilot laboratory	2012	2013	2014	2015	2016	2017
Afrimets-L1,		Received								
2012	Gauge blocks, up to 100 mm	artifacts	1	NIS/NMISA						
Afrimets-LS7,	Line scales up to 500 mm, 1									
2014	metre	Planned	0	NIS/NMISA						
Afrimets-LS?	Dial indicator	Planned	0	??						
Afrimets-LS?	External micrometer	Planned	0	??						
				SIRDC/NIMSA??						
Afrimets-LS?	Calliper, vernier or digital	Planned	0	?						
Afrimets LS3,		Measurements								
2012	Gauge blocks, up to 100 mm	complete	2	Egypt						
Afrimets LS4,		Measurements								
2012	Gauge blocks, up to 100 mm	complete	2	Tumisia						
Afrimets-LS1,										
2013	Gauge blocks, up to 100 mm	Planned	0	SA/Tumisia						
									×	
	SADCMET comparisons	Circulating	3	NMISA				CK IN MA		ノ
		5 labs complete	ed			$\overline{}$		ace by At comparis		\ /
SADC-LS 1	Gauge blocks, up to 100 mm	measurements			Stopped		<u> </u>		оп <i>L</i> —	
SADC-LS 7	Line scale, 1 m rule	Only 4 send in r	results		Stopped	(\sim			and the same of th
	External micrometer, 0-25 mr	n &25mm-50				0	The state of the s			, Ž
SADC-LS 11	mm				Stopped 👩					
	and two micrometer setting						$A \setminus A$			/ \
	pieces								110001	



Training

Technical training								
	2013	2014	2015	2016	2017			
Basic length	ongoing							
Gauge block by interfometry, including basic distance interferometry								
Angle, levels, Protractor, squares								
Long distance base line, including								
GPS. Other training								
CMC submission								
Pilot of comparisons								



R&D

Research projects								
	2013	2014	2015	2016	2017			
Double ended interferometer for use in gauge block calibrations								
Long base line, including GPS calibrations								
Compass, true north calibrations								



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

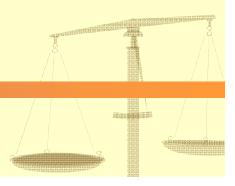
Technical guidelines, procedures								
	2013	2014	2015	2016	2017			
Gauges by comparisons								
Micrometer and vernier calliper								
Thinkness gauges								
Angle, levels, Protractor, squares								
Line scales								
Some of the reaseach projects will lead to TG					_			



Web site

To be on web site:

- Contact list
- Comparison lists
- Training available
- Training requirements
- R & D Projects





Length activities for 2012

•Comparisons:

- 1) SADCMET comparisons LS1, LS7 and LS11 was ended with only four NMIs submitting their results. Draft A results were send to NMIs.
- 2) Two new end standards (gauge blocks) comparisons registered on the BIPM website.

AFRIMETS .L- S3 and L- S4. Both for gauge blocks by mechanical measurements

3) UNIDO sponsored artifacts for gauge blocks by interferometry. Will use gauge blocks for new mechanical measurement comparison to include more NMIs

Research

South Africa and Egypt submitted a joint research project on interferometry measurements of gauge blocks, phase stepping technique.

Part of project is comparison of end standards (gauge blocks)



Thank you

