



# TCL WG Length/dimensional feedback 2017

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#### Length activities for 2017

#### •Comparisons:

- 1) AFRIMETS LK 1: Gauge blocks by interferometry. Had problems with artefacts, wrong artefacts delivered. Plan to start in next few months.
- 2) AFRIMETS LS 1: end standards (gauge blocks) comparisons NIS to pilot.
- 3) AFRIMETS LS 7: Four countries completed measurements. Problems with artefacts stuck in one country and delayed for several months.



## Length working group Roadmap (top priorities)

- MRA Supporting of MRA through comparisons, submission of CMCs and review of other region's CMCs
- Training
- R&D projects
- TCL meeting 31 July 2017– 7 countries attended

## Comparison data base

AFRIMETS comparisons	Status	Phase	Pilot laboratory	2012	2013	2014	2015	2016	2017
Gauge blocks, up to 100 mm	Received artifacts	1	NMISA						
Line scales up to 500 mm, 1 metre	Running	0	NMISA						
Dial indicator	Planned	0	NIS						
External micrometer	Planned	0	NIS						
Micrometer setting piece, 500 mm	Planned	0	NIS						
Gauge blocks, up to 100 mm	Completed	2	Egypt						
SADCMET comparisons	Circulating	3	NMISA						
Gauge blocks, up to 100 mm	5 labs completed m	neasureme	ents	Stopped					
Line scale, 1 m rule	Only 4 send in results			Stopped					
External micrometer, 0-25 mm &25mm-50 mm			Stopped						
and two micrometer setting pieces									



# Training

Technical training			
	2017	2018	2019
Basic length	ongoing		
Gauge block by interfometry, including basic distance			
interferometry			
Line Scale			
Long distance base line, including			
GPS.			
Length bars/long serious slip			
gauges			
Other training			
CMC submission			
Pilot of comparisons			

### Strategy for Research & Development

- Perform research into metrology areas specific to Africa.
- Through this research, develop Human Capital-training of line scale systems
- Get AFRIMETS NMIs involve in R&D not only for development of measuring system but also of scientific research.

