



For the development of Metrology in AFRICA

- the history
- the structure
- the current situation
- the current capabilities
- the Skills Development strategy





Inaugural General Assembly, Midrand, South Africa, 1-2 July 2007 NEPAD premises

52 African Countries listed in the World Development Report 2011 (Word Bank)

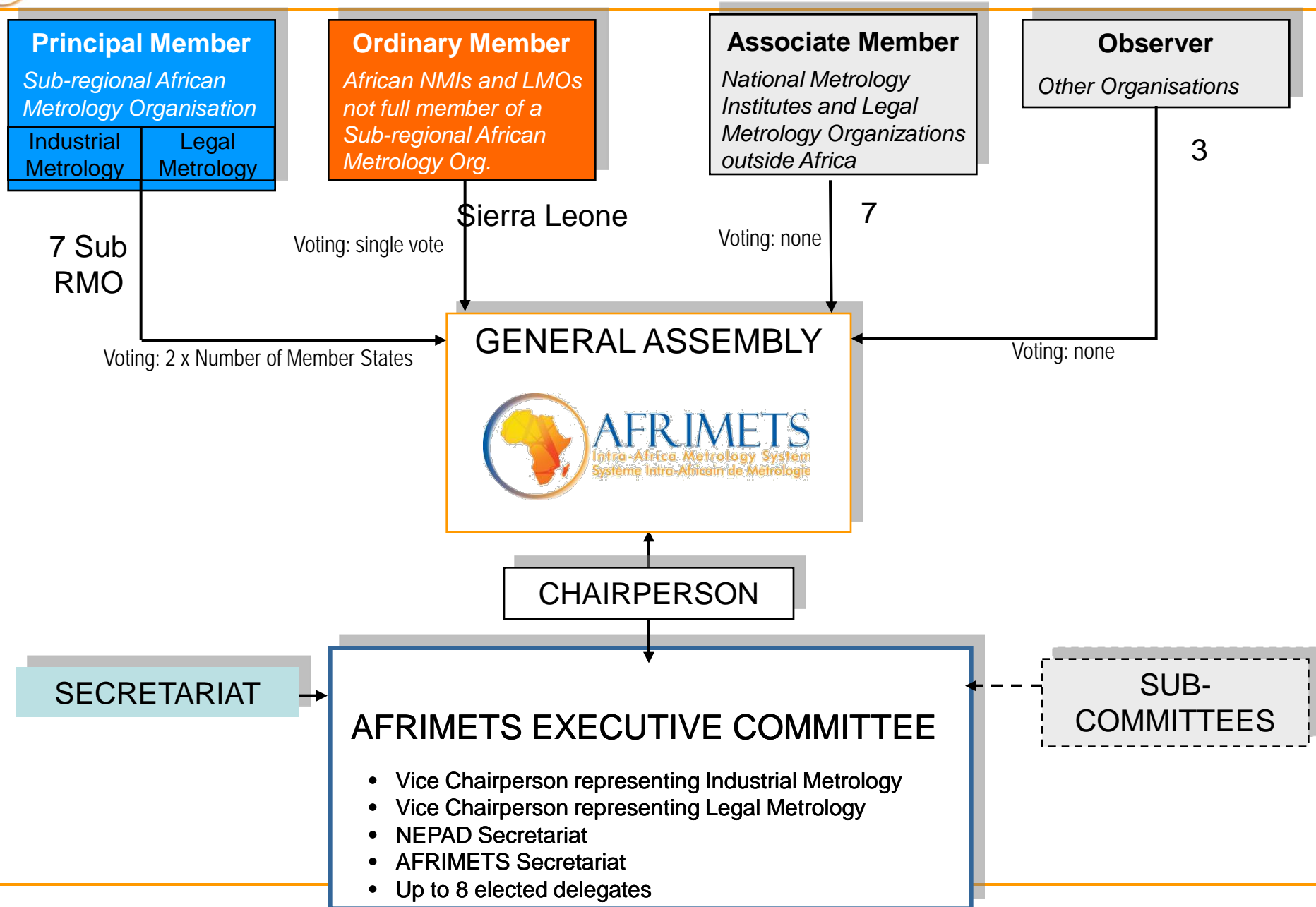
Low Income Countries, LIC (< 975 USD per-capita)	30
Lower Middle Income Countries, LMC ($976 - 3.855$ USD per-capita)	13
Upper Middle Income Countries, UMC ($3.856 - 11.905$ USD per-capita)	9

A set of guiding principles was adopted

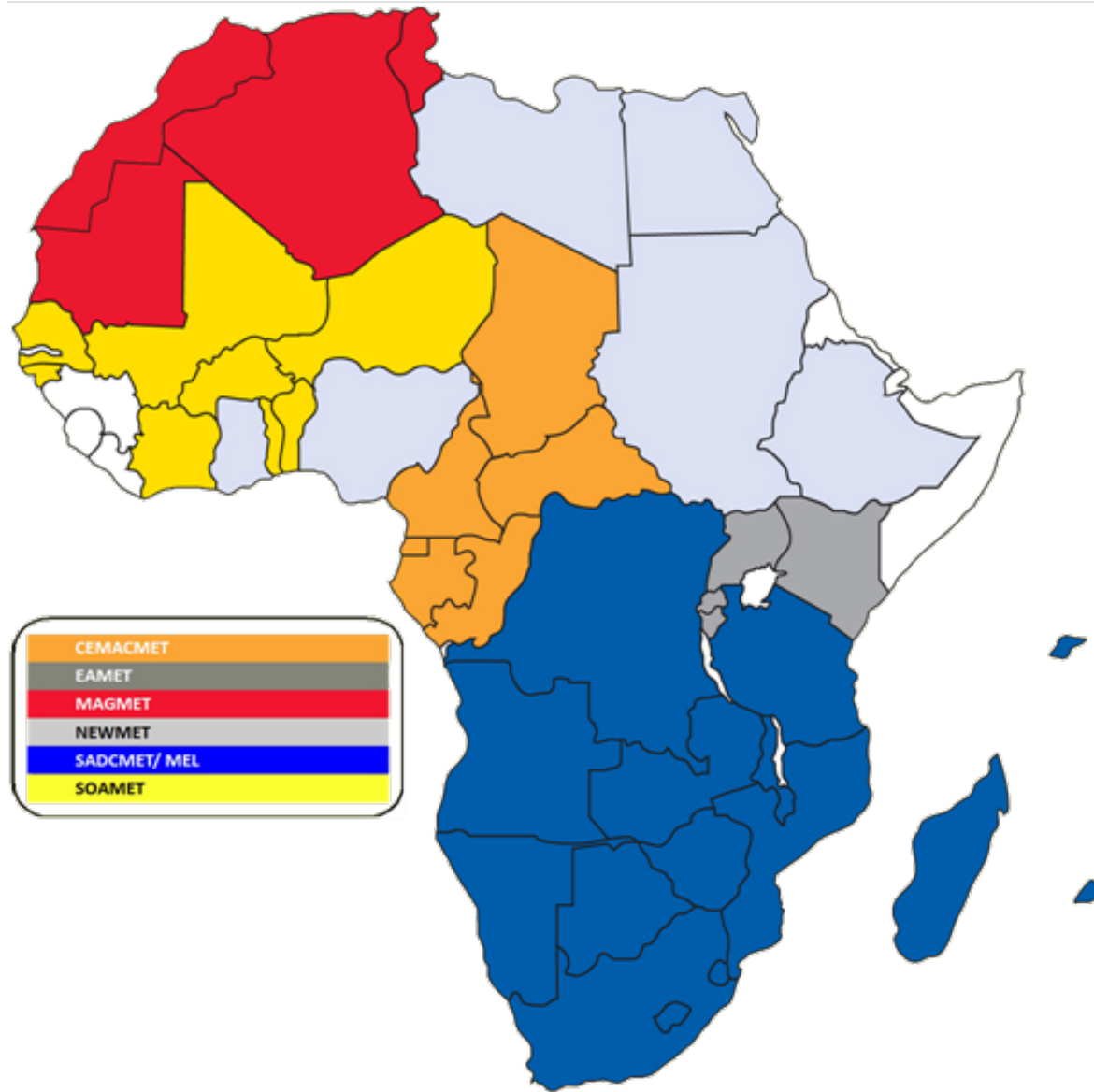
- Becoming an **umbrella organisation for sub-regional metrology groupings** by establishing a cooperative / supportive relationship between SRMOs and AFRIMETS;
- sharing **experiences** and **technical infrastructures**
- **transparency**;
- promoting an **equal partnerships** between organisations and disciplines in metrology;
- respecting national **autonomies**;
- being committed to the **development of metrology**;
- Brotherliness, solidarity and **mutual assistance**;
- **Inclusiveness**;
- **common approaches** / positions;
- **excellence**;
- Increased **recognition** of African metrology **competence**.



the structure



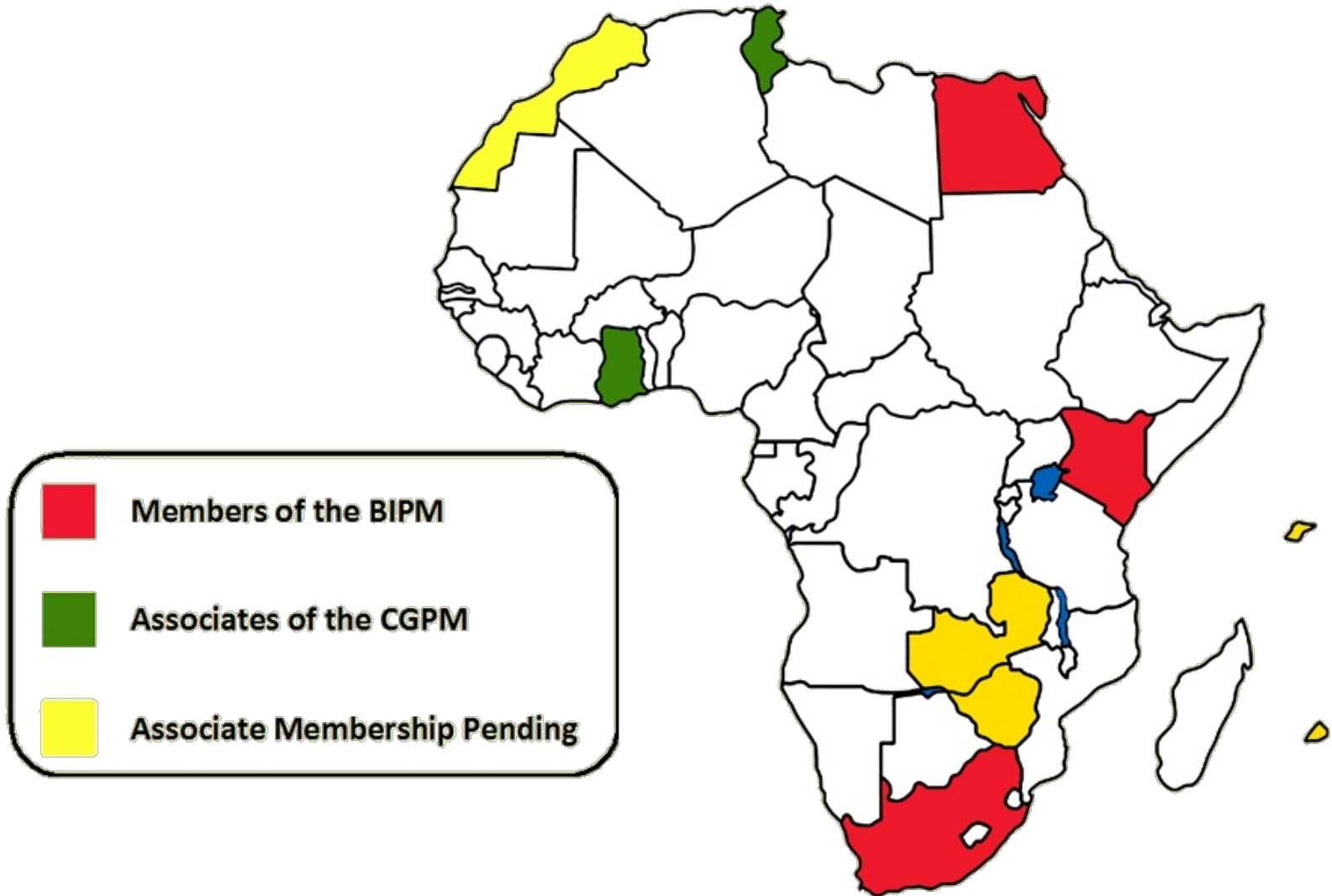
Sub-RMO members

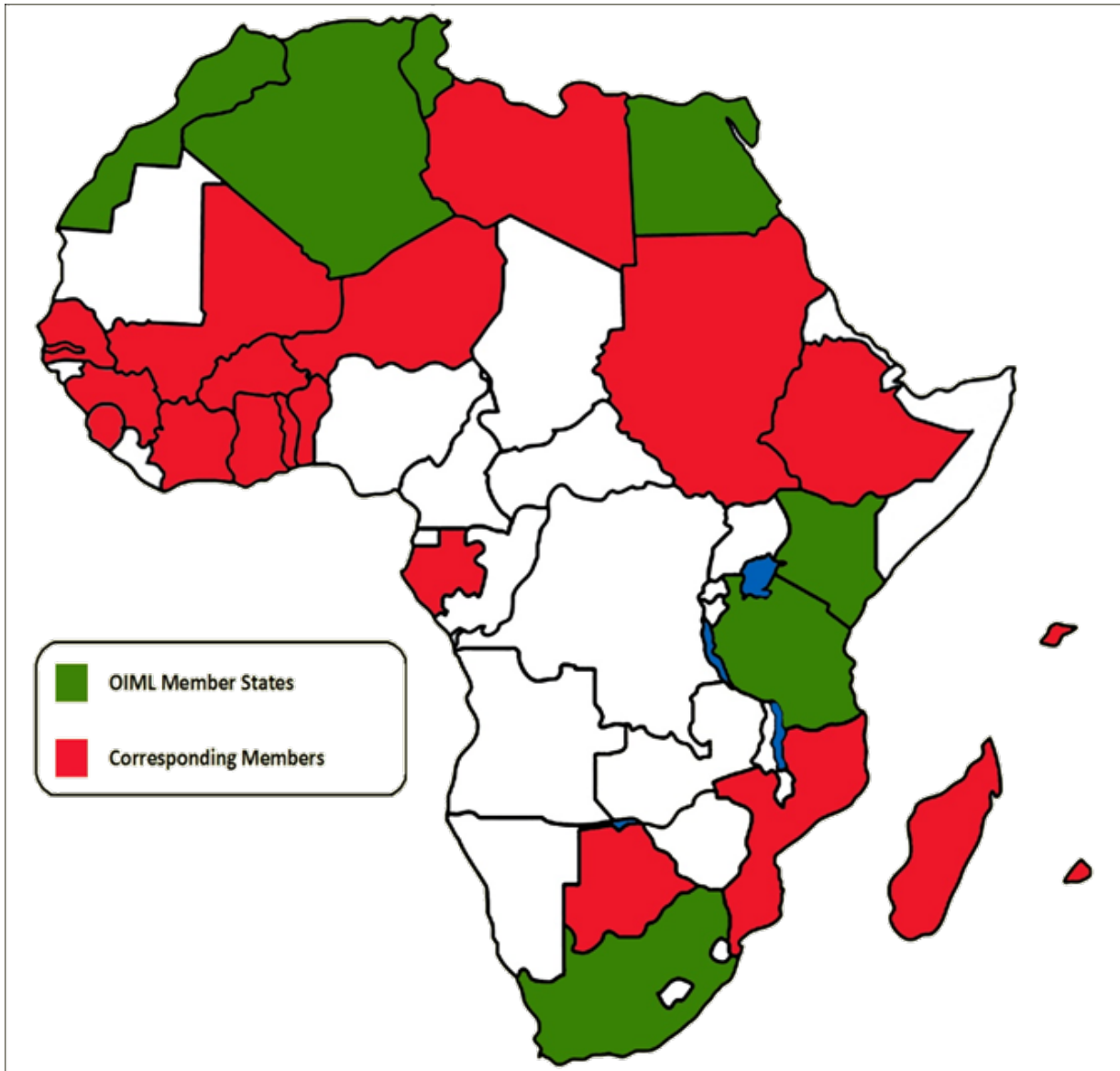


Structure of members (May 2011)

SADCMET/ MEL	SOAMET	CEMACMET	EAMET	MAGMET	NEWMET	Ordinary Members
Angola	Benin	Cameroon	Kenya	Morocco	Egypt	Sierra Leone
Botswana	Burkina-Faso	Central African Republic (CAR)	Uganda	Algeria	Ethiopia	
DRC	Guinea-Bissau	Chad	Rwanda	Tunisia	Ghana	
Lesotho	Mali	Republic of the Congo	Burundi	Mauritania	Libya	
Madagascar	Niger	Equatorial- Guinea			Nigeria	
Malawi	Senegal	Gabon			Sudan	
Mauritius	Togo					
Mozambique	Côte- d'Ivoire					
Namibia						
Seychelles						
South Africa						
Swaziland						
Tanzania						
Zambia						
Zimbabwe						

*Sudan has indicated membership but did not yet sign the NEWMET of AFRIMETS MoU





- The preparation, inauguration and further development of AFRIMETS is supported by PTB, Germany
- Since 2009 UNIDO supports a roadmap and skills development (metrology summer school, 2011)



Category	Criteria
<p style="text-align: center;">1-Gold (Internationally Recognised Metrology Infrastructure)</p>	<ul style="list-style-type: none"> -Official Institutes responsible for Scientific and Legal Metrology -Member of BIPM and OIML -Capabilities in most areas of Metrology, or those critical for the country
<p style="text-align: center;">2-Silver (Regionally Recognised Metrology Infrastructure)</p>	<ul style="list-style-type: none"> -Official Institutes responsible for Scientific and Legal Metrology -Associate of CGPM and Member OIML or Corresponding member of OIML -Capabilities in most areas of Metrology, or those critical for the country
<p style="text-align: center;">3-Green (Established National Metrology Infrastructure)</p>	<ul style="list-style-type: none"> - Official Institutes responsible for Scientific and Legal Metrology -Associate of CGPM/OIML, or plans to become in the next 5 years -Capabilities in basic areas of Metrology, or those critical for the country
<p style="text-align: center;">4-Yellow (Basic Metrology Infrastructure)</p>	<ul style="list-style-type: none"> - Official Institutes or at least identifiable section with basic facilities within government department or other institute responsible for Scientific and Legal Metrology -Capabilities in basic areas of Metrology, or those critical for the country
<p style="text-align: center;">5-Red (Limited or No Metrology Infrastructure)</p>	<ul style="list-style-type: none"> -No official institutes or identifiable bodies responsible for Scientific and Legal Metrology -Very basic facilities or none

Category	Country
1-Gold	Egypt, Kenya, South Africa
2-Silver	Ghana, Tunisia, Seychelles, Mauritius, Zimbabwe
3-Green	Botswana, Ethiopia, Côte d'Ivoire, Morocco, Tanzania, Uganda, Zambia
4-Yellow	Angola, Algeria (Scientific?), Benin, Burkina Faso, Burundi, Cameroon, DRC, Gabon, Libya, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Rwanda, Swaziland
5-Red	CAR, Equatorial-Guinea, Guinea-Bissau, Lesotho, Mali, Mauritania, Niger, Togo,, Chad, Republic of the Congo, Senegal, Sudan

Category	Country
1-Gold	Egypt, South Africa
2-Silver	Kenya, Tunisia,
3-Green	Botswana, Ethiopia (move to Silver), Ghana, Mauritius, Morocco, Tanzania, Uganda, Zimbabwe
4-Yellow	Benin, Burkina Faso, Côte d'Ivoire, DRC, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, Seychelles, Zambia
5-Red	Angola, Algeria, Burundi, Cameroon, CAR, Chad, Equatorial-Guinea, Gabon, Guinea-Bissau, Lesotho, Libya, Mali, Mauritania, Namibia, Niger, Republic of the Congo, Senegal, Sudan, Togo, Swaziland

Category	Country
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2-Silver	Kenya, Mauritius, South-Africa, Tunisia
3-Green	Algeria, DRC, Egypt, Ghana, Morocco, Tanzania, Zimbabwe
4-Yellow	Benin, Botswana, Burkina Faso, Burundi, Côte d'Ivoire, Ethiopia, Gabon, Libya, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Republic of the Congo, Rwanda, Senegal, Seychelles, Swaziland, Uganda, Zambia
5-Red	Angola, Cameroon, CAR, Chad, Equatorial-Guinea, Guinea-Bissau, Lesotho, Mali, Mauritania, Niger, Sudan, Togo

- Create and improve awareness of metrology at all levels
- Establish basic metrology capabilities
- Training in Metrology (and Quality Infrastructure)
- Evaluation of NMIs for Accreditation (assist NMIs to get their basic parameter laboratories 3rd party accredited)
- Associate Membership of the CGPM
- Calibration of National Measurement Standards
- PT Schemes: The water PT (+evaluation workshops)
- The Role of Comparisons
- Yearly Meetings (at least)

Proposed that the strategy be implemented at 2 distinct levels;

International
acceptance
International Trade
(RMO level)

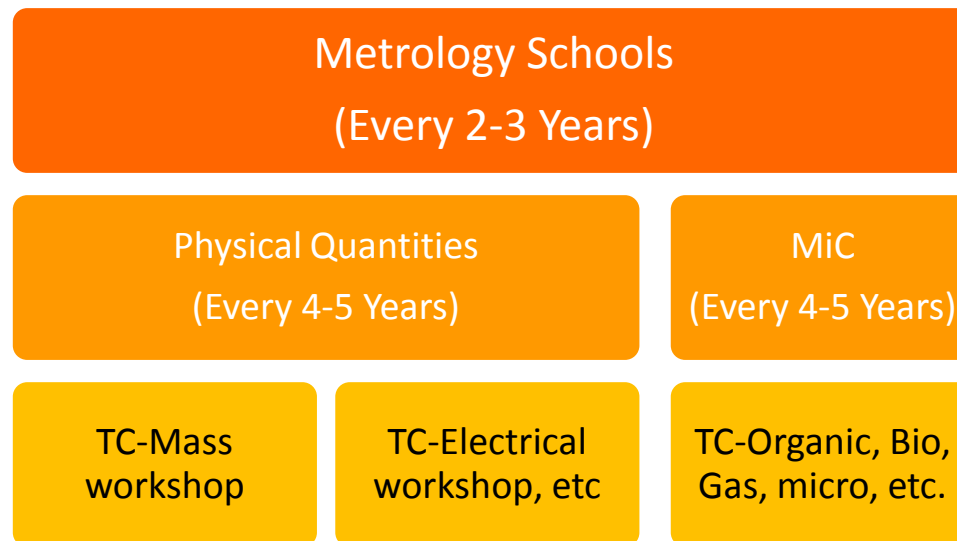
- Strengthen the AFRIMETS Institution
- Strengthen Leading NMIs and LMIs and shorten the Traceability Chain
- Provide the link to the Int measurement system

Basic Capabilities
Intra-trade
(SRMO level)

- Develop basic LM and S&I in SRMO members
- Strengthen the SRMO institution
- Develop leading LMI/NMIs to provide the link to the RMO

Strategy:

- Pan-African events, Metrology schools, database of trainers;
- Develop the AFRIMETS website as a database of SQMT documents;
- Develop e-training modules;
- Attachment programme, experts to institutes;
- Training strategy per region





AFRIMETS

Intra-Africa Metrology System
Système Intra-Africain de Métrologie

