



# QUALITY INFRASTRUCTURE FOR AFRICA

PTB's Technical Cooperation in Africa

AFRIMETS GA July 2013

in Lusaka, Zambia

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- PTB in brief
- PTB's Technical Cooperation in Africa
- Details: Pan-African Project
- Updates support since last AFRIMETS GA (Sep 2012)
  - AFRIMETS
  - PAQI
  - Recognition process
  - Capacity building
  - New publications

**PTB**



is one of the leading NMIs world-wide

is the most important national provider of metrological services

is a national authority under the auspices of the Federal Ministry of Economics and Technology (BMW<sub>i</sub>)

- has a staff of approx. 2000 members
- has an annual budget of 140 million €
- has two sites: Braunschweig and Berlin
- was founded in 1887

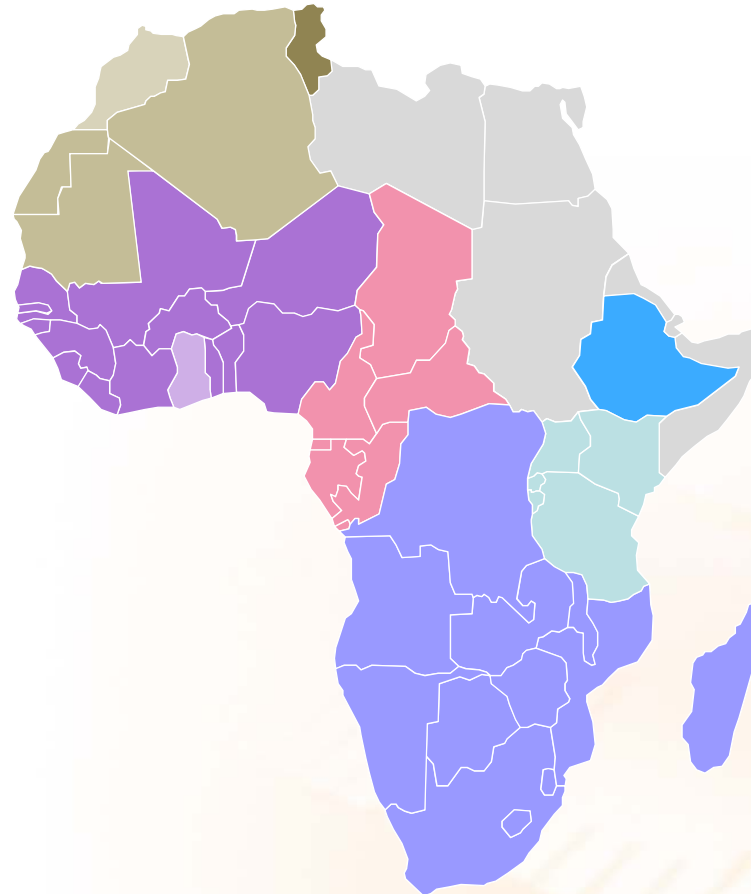
<b>Maghreb</b>	<b>2013-2014</b>
Promotion of metrology in Maghreb to strengthen international trade	

<b>Maghreb</b>	<b>2012-2016</b>
Strengthening quality infrastructure for solar energy in the Maghreb	

<b>ECOWAS</b>	<b>2010-2014</b>
Building up a regional quality infrastructure in the ECOWAS region	

<b>Ghana</b>	<b>2013-2015</b>
Quality assurance of agricultural products through metrological and testing services	

<b>CEMAC</b>	<b>2011-2015</b>
Establishing of a regional metrological system to support the EPA process in the CEMAC region	



<b>Morocco</b>	<b>2012-2016</b>
Strengthening capacities in environmental testing in Morocco	

<b>Tunisia</b>	<b>2010-2013</b>
Strengthening Tunisia's competitiveness by developing competence in industrial metrology	

<b>Ethiopia</b>	<b>2012-2015</b>
Promotion of Testing and Metrology in Ethiopia	

<b>EAC</b>	<b>2013-2016</b>
Establishment of a regional quality infrastructure for the pharmaceutical sector	

<b>SADC</b>	<b>2010-2013</b>
Strengthening quality infrastructure for trade enhancement and consumer protection in SADC	

<b>Africa</b>	<b>2013-2016</b>
Support of a Pan-African Quality Infrastructure	



## Pan-African approach

- Strategic advisory service to AUC / NEPAD Agency
- Creation and development of Pan-African quality infrastructure institutions



Regional approach



National approach



Strategic alliances



## Review/Update:

- PTB Project for the support of Pan African QI: since 2007
- very good results from mid term review
- Development new project proposal (presentation to AFRIMETS, AFRAC, ARSO, AFSEC during the 2<sup>nd</sup> stakeholder meeting)
- Approval by the German Federal Ministry for Economic Cooperation and Development: 3 years (03/ 2012 – 02/2016) with EUR 2,000,000 EUR

## → “Support of a Pan-African Quality Infrastructure”

- **Area:** Standards, metrology, accreditation, conformity assessment
- **Source of Finance:** Federal Ministry for Economic Cooperation and Development, **Executive Agency:** Physikalisch-Technische Bundesanstalt (National Metrology Institute, Germany)

## Objective

Support of the economic integration of Africa through efficient Pan-African institutions of Quality Infrastructure

## Components of Support

### Policy support

- strategic advise to AU and NEPAD Agency
- QI-Office at NEPAD Agency
- awareness-raising at AU/NEPAD level  
for the Pan-African QI



## Components of Support (cont.)

### Institutional capacity development

- institutional support to AFRIMETS, ARSO, AFRAC, AFSEC



### Linking and integration

- linking of states, Regional Economic Communities and sub-regional specialized bodies with the Pan-African QI institutions

### Technical support

- providing professional and technical expertise in the areas of QI



## Institutional support/Capacity building:

- AFRIMETS GA in Benin 2012 (ExCom and WG members)
- AFRIMETS Chairperson at PTB (April 2013) Discussion on the way forward with EURAMET and PTB presidency
- Support of project assistant, currently located at nmisa
- Facilitation for participation of AFRIMETS delegates to attend the JCRB Meetings (USA September 2012; Paris March 2013 (together with the CMC review workshop))
- Participation of AFRIMETS scientist from Ghana in COOMET Young Metrologist competition in June 2013

## Technical activities:

- Pressure comparison AFRIMETS.M.P.K-2
- WaterPT (chemistry) organized by SADC-WaterLab Association: evaluation workshop in Nov 2012 in Ethiopia
- Water PT (Microbiology): Botswana (BOBS) agreed to continue the Water PT as new provider, announcements for both PT rounds are out
- Cement PT for Africa in conjunction with BAM (German Federal Institute for Material Testing). Kick off meeting in Tanzania, distribution of samples, concluding workshop in Germany
- Upcoming (September 2013): basic training course legal and industrial metrology in conjunction with NPL/NMO UK for 15 participants from Africa

## Future Support:

- Institutional support and capacity building
  - Support for AFRIMETS and the other Pan African Quality Infrastructure institutions concerning the recognition process at AU level
  - Technical support (technical committees and working groups, comparisons, proficiency testing)
- For future activities a template is available at the AFRIMETS secretariat

## AFRAC

- 3rd GA in South Africa October 2012
- Training of the AFRAC secretariat and MRA committee at IAAC; Training of AFRAC members on ISO 17020 at APLAC
- AFRAC participation at EA GA



## ARSO

- ARSO GA June 2013 in conjunction with first African Standards Day (experts and speakers)
- Printing of materials (i.e. foundation booklet of ARSO)

## AFSEC

- GA 2013 upcoming, future support under consideration





## NEPAD

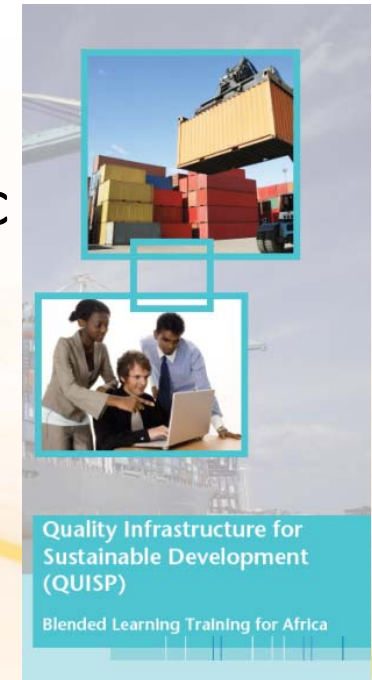
- QI expert at NEPAD (coordinating PAQI recognition process)

## Pan African Quality Infrastructure (PAQI)

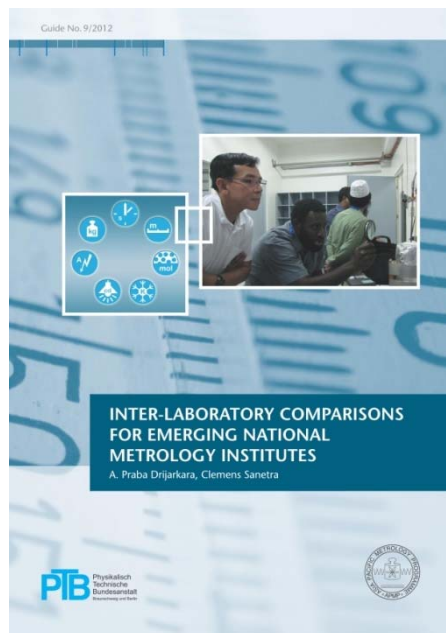
- 2<sup>nd</sup> stakeholder meeting in Ethiopia (Nov 2012) with AUC
  - 3<sup>rd</sup> stakeholder meeting in South Africa (Feb 2013)
- concerted document about the structure, function and impact of the PAQI
- MoU between ARSO, AFRIMETS, AFRAC and AFSEC (AFSEC to sign in August 2013)
- Development of corporate presentation materials (e.g. CAMI 2013)



- Blended Learning Course „Quality Infrastructure for Sustainable Development (QUISP)”
  - Target Group: professionals dealing with trade agreements in secretariats of Regional Economic Communities or national trade ministries
  - Second E-learning course for Africa to start in February 2014 for 20 participants (Kick-off workshop)
  - E-learning phase of six months
  - Concluding workshop in Germany in autumn 2014
- Announcement for application starts by end of July



- Publication of brochures, technical guides and discussion papers as a tool to raise awareness
- Sensitizing for QI at decision maker level



- Inter- Laboratory Comparisons for emerging national metrology insitutes (Guide No. 9/2012)



**Thank you for your attention!**

**PTB** Physikalisch  
Technische  
Bundesanstalt



Jahre genau  
1887 - 2012

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All publications available under <http://www.ptb.de/q5>