International Cooperation at PTB

Report to the 25th APLMF Meeting, 8th November 2018, Christchurch, New Zealand

by Dr. Sabine Greiner
The Physikalisches-Technische Bundesanstalt

The Physikalisches-Technische Bundesanstalt (PTB), the national metrology institute of Germany has existed for over 130 years.

With 2000 employees located at Braunschweig and Berlin, it is a global player in the world of metrology.
International Cooperation

For 50 years, PTB has shared its core competence in international development cooperation. We support developing and emerging economies in the comprehensive field of quality infrastructure.
We advise governments and ministries, promote institutions of quality infrastructure, and support smaller and medium-sized enterprises.

- International/Regional Organizations
- Policy/Decision Makers
- Regional Associations of Producers and Consumers
- QI Institutions
- Business Service Providers
- Business Membership Organizations
- SME Promotion Agencies
- Export Promotion Agencies
- etc.

- Producers/Suppliers (local market and export)
- Consumers/Buyers
Development of the PTB Project Approach

1960

Metrology and Calibration
- Twinning of specialist laboratories
- Activity oriented

1980

Metrology and Calibration
- Working group for Technical Cooperation (project management, lobbying)
- Intensive dialog with BMZ (staff secondment)
- Intensified networking

National Quality Infrastructure
- Systematic and systemic approach
- Impact-oriented
- Integrated into a regional approach (RMO)

2000

Development of the PTB Project Approach

Metrology and Calibration
- Working group for Technical Cooperation (project management, lobbying)
- Intensive dialog with BMZ (staff secondment)
- Intensified networking

National Quality Infrastructure
- Systematic and systemic approach
- Impact-oriented
- Integrated into a regional approach (RMO)
Quality infrastructure and SDGs

Strengthen the means of implementation and revitalize the global development
17.6 technology
17.10 trade
17.11 export
17.12 market access

Sustained, inclusive and sustainable economic growth and employment
8.2 productivity
8.4 resource efficiency
8.5 full employment

Access to energy
7.1 energy services
7.3 energy efficiency
7.a research and technology

Availability and sustainable management of water
6.3 water quality
6.4 water-use efficiency
6.a capacity-building in water and sanitation

Sustainable consumption and productive patterns
12.2 efficient use
12.4 environmentally sound management of chemicals
12.a scientific capacities
Our Project Partners. Worldwide.

45 projects in 83 countries
of which: 23 are bilateral projects
22 are regional projects
1 is a supra-regional project

Financial volume € 10-12 million annually
60 employees
Clients: BMZ, BMWi, EU, development banks, and direct orders
# Organizational Structure of the 9.3 Department

<table>
<thead>
<tr>
<th>Regional</th>
<th>Sectoral</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>International Cooperation</strong></td>
<td><strong>Working areas</strong></td>
</tr>
<tr>
<td><a href="mailto:marion.stoldt@ptb.de">marion.stoldt@ptb.de</a></td>
<td>- Energy, climate and the environment</td>
</tr>
<tr>
<td><strong>Europe and the CIS</strong></td>
<td>- Health</td>
</tr>
<tr>
<td><a href="mailto:corinna.weigelt@ptb.de">corinna.weigelt@ptb.de</a></td>
<td>- Raw materials</td>
</tr>
<tr>
<td><strong>Asia</strong></td>
<td>- Regional quality infrastructure</td>
</tr>
<tr>
<td><a href="mailto:corinna.weigelt@ptb.de">corinna.weigelt@ptb.de</a></td>
<td>- Value-added chain</td>
</tr>
<tr>
<td><strong>Latin America and the Caribbean</strong></td>
<td>- Technology transfer</td>
</tr>
<tr>
<td><a href="mailto:ulf.hillner@ptb.de">ulf.hillner@ptb.de</a></td>
<td>- Learning and networking</td>
</tr>
<tr>
<td><strong>Middle East and North Africa</strong></td>
<td>- Internal knowledge management</td>
</tr>
<tr>
<td><a href="mailto:christin.kulgemeyer@ptb.de">christin.kulgemeyer@ptb.de</a></td>
<td></td>
</tr>
<tr>
<td><strong>Sub-Saharan Africa</strong></td>
<td></td>
</tr>
<tr>
<td><a href="mailto:barbara.siegmund@ptb.de">barbara.siegmund@ptb.de</a></td>
<td></td>
</tr>
</tbody>
</table>
Types of Projects 9.32

Interlinking competencies

Regional projects (II)

Regional QI-Governance

Ministries
- Trade
- Environment
- Education
- Health
- Food & Agriculture

Regional QI-networks

National Quality Infrastructure (QI)
- Testing
- Standards
- Metrology
- Certification
- Accreditation

bilateral projects

regional projects (I)
Promoting Regional Cooperation in Metrology (MEDEA)

Objective
Improve the ability of the regional metrology networks in Asia specialized to support metrology in developing economies

Important Outputs
• Implementation of the CABUREK programme
• Technical Trainings
• Sustainability within the networks
• Regional Training Concept

Main Partners: APMP & APLMF
Implementation Phase: 2018 – 2021
Project Coordinator: Dr. Sabine Greiner
Strengthening Accreditation Networks in Asia Pacific (SANAP)

**Objective**
APAC (formerly APLAC and PAC) is strengthened to support its members from developing countries shape an environmentally sustainable market economy.

**Important Outputs**
- APAC offers strategic support
- APAC offers services to specific fields
- Increase number of MRA/MLA
- Apply cross-border capacity development

**Main Partners:**
APAC & PAC
APAC (from 01/19)

**Implementation Phase:**
2018 – 2021

**Project Coordinator:**
Nitja Rehani
Improving Quality Infrastructure in ASEAN

**Objective**

Trade-related procedures of QI are in line with regional and international best practices (focus on CLM economies and thematic focus on food safety)

**Important Outputs**

- Development of ASEAN guidelines and strategy papers
- Implementation of international best practices
- Support to CLM Economies
- Needs assessment with focus on food safety

**Main Implementation Partners:** ACCSQ and related Horizontal & Product Working Groups

**Implementation Phase:** 2019 – 2022

new phase under development

**Project Coordinators PTB:** Svenja Weyrauch Stefanie Reichertz
Support to SAARC in strengthening regional integration and cooperation in the field of quality infrastructure in South Asia

Objective:
Improvement of the access to trade-relevant and demand-oriented QI services through regional division of work and cooperation

Important Outputs:
• Strengthen SARSO as regional platform for QI within SAARC
• Demand-oriented cross-border cooperation in Metrology & Accreditation
• Sensitization and Awareness on QI (ministries & private sector)

Main Partner: SAARC-Secretariat and SARSO
Implementation Phase: 2018-2022
Project Coordinators: Patrick Dolle Uwe Miesner
Bilateral Projects in Asia

**Myanmar:** Strengthening QI in Myanmar, 2015-2020, 2.8 Mio EUR

**India:** Strengthening quality infrastructure for the solar industry, 2014-2019, 1.8 Mio EUR

**Cambodia:** Strengthening QI, 2018-2020, 0.8 Mio EUR

**Mongolia:** Promotion of QI with emphasis on the mining sector, 2018-2021, 0.6 Mio EUR

**Promotion of QI with emphasis on the energy sector, 2016-2019, 0.6 EUR**

**Nepal:** Support to Nepal in the field of QI, 2018-2021, 2 Mio EUR

**Sri Lanka:** Strengthening QI in Sri Lanka, 2016-2019, 1 Mio EUR

**Indonesia:** Strengthening QI for the Energy Sector, 2016-2020, 1.5 Mio EUR

Quality assurance in environmental and food analysis, 2017-2019, 0.6 Mio EUR
Thank you very much for your attention!