



german
cooperation

DEUTSCHE ZUSAMMENARBEIT

INTERNATIONAL
COOPERATION

The background of the slide is a photograph of a hand holding a glowing, spherical network of white lines and nodes, symbolizing global connectivity. The hand is positioned at the bottom, with fingers slightly curled as if supporting the sphere. The background is a soft, out-of-focus blue and white.

PTB and international cooperation

May 20, 2021

The Physikalisch-Technische Bundesanstalt

The Physikalisch-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.



Technical Cooperation

For 50 years, PTB has shared its core competence in international development cooperation.

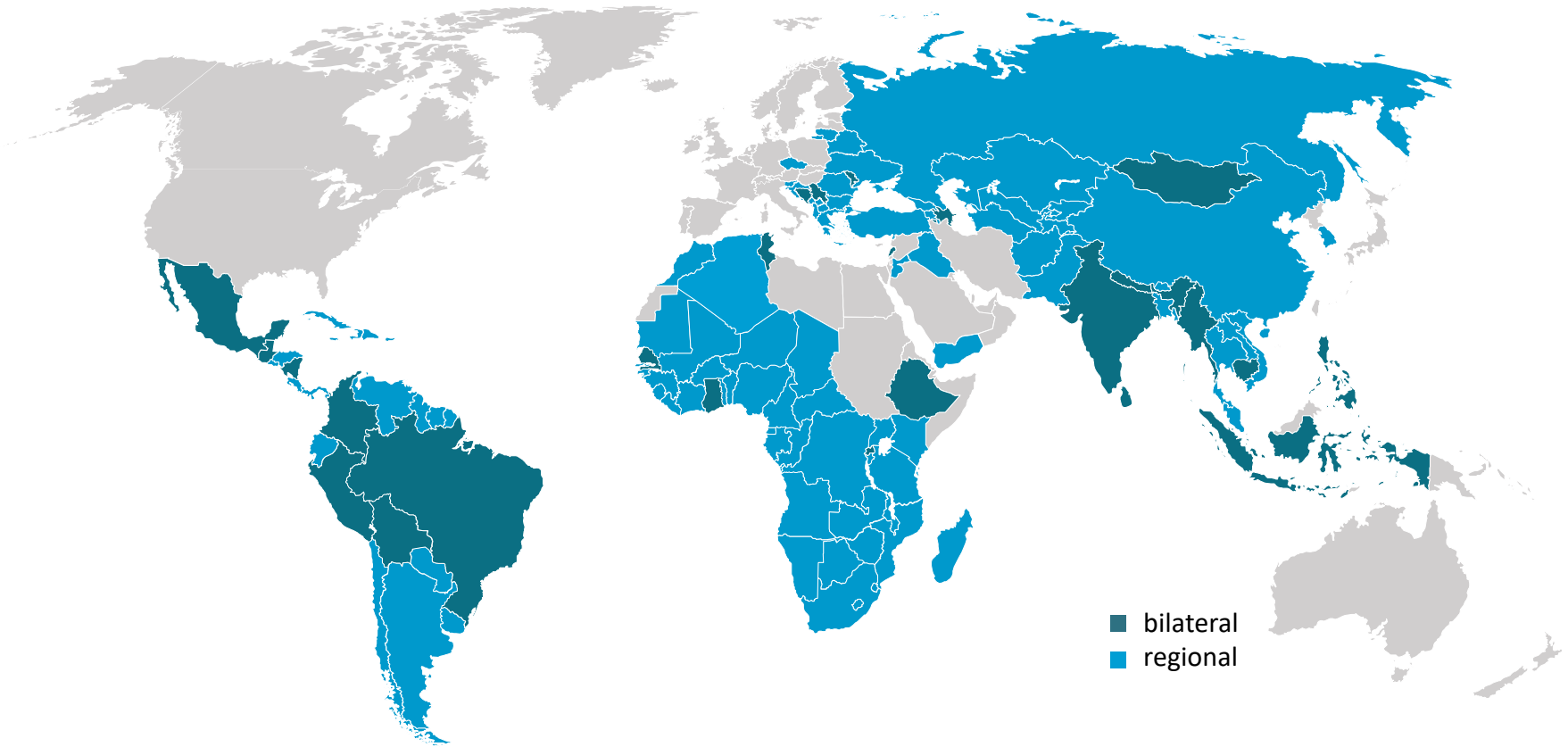
On behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) PTB cooperates with developing and emerging economies in the comprehensive field of quality infrastructure.



Our Project Partners. Worldwide.

55 projects in 85 countries
of which: 31 are bilateral projects
23 are regional projects
1 is a supra-regional project

Financial volume € 17,2 million annually
62 employees
Clients: BMZ, BMWi, EU, development banks, and
direct orders



Quality Infrastructure. A Complex Network.

We support our partner countries in the development and utilization of an appropriate and internationally recognized quality infrastructure.





EXAMPLE PROJECT

UPGRADING OF QUALITY INFRASTRUCTURE IN AFRICA

Project Overview

Our partners

African Union Commission

Pan-African Quality Infrastructure (PAQI)

Institutions (AFRAC, AFRIMETS, AFSEC, ARSO)

Regional Economic Communities



Our objective

The Pan-African Quality Infrastructure (PAQI) supports economic integration in Africa through the effective and efficient implementation of the African Continental Free Trade Agreement (AfCFTA)

Term

2019 – 2023

Commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ)

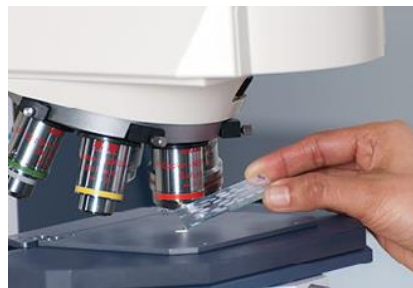
Cooperation in the pharmaceutical and health sector:

- ❖ Strengthening of pharmaceutical regulation, quality assurance, and quality control (inspection, testing, market surveillance) of pharmaceutical products.
- ❖ Support of framework conditions for local development and production of medicines, vaccines and medical devices in line with international standards
- ❖ Capacity development & awareness raising for pharmaceutical drug manufacturers, quality control laboratories & regulatory authorities in Africa



Upgrading of quality infrastructure in the pharmaceutical sector

- ❑ E-Learning courses on Hygiene concepts, cross contamination risks and cleaning validation (current Good Manufacturing Practices, cGMP)
- ❑ (virtual) Training on Quality Risk Management for pharmaceutical laboratories
- ❑ (virtual) Training on ISO/IEC 17025:2017 and quality management systems for pharmaceutical laboratories.
- ❑ E-Learning course on Herbal and Traditional Medicines
- ❑ Pharma Proficiency Testing (PT) scheme organised by ISO 17043 accredited PT provider MUHAS Research & Development Lab, Tanzania
- ❑ Awareness raising for quality assurance (e.g. Pharmacovigilance)
- ❑ Publications and studies



Publications

→ quality infrastructure in the pharmaceutical and health sector



Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
National Metrology Institute


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Accreditation of Medical Laboratories for PCR Testing

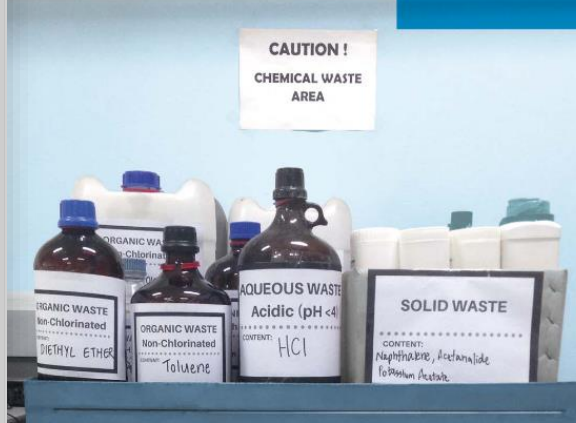
Guideline for the Accreditation of Medical Laboratories Performing
Molecular Tests for Covid-19
Aiki Stathopoulou, Ioannis Sitaras






Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
National Metrology Institute

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Chemical Waste Management for Laboratories

Dr. Roswitha Meyer





Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
National Metrology Institute

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Quality Infrastructure for the Health Sector

Every person is entitled to the best possible health care. To achieve this, medication has to be effective, medical equipment accurate and laboratories reliable. This is not guaranteed everywhere. To this end, a corresponding quality infrastructure is helpful as a precondition for improved health care – e.g. by monitoring whether medications contain the correct amounts of active ingredients or whether the measuring instruments are correctly calibrated.

Only healthy people can participate in social and economic life and contribute to the development of their country. Therefore, Sustainable Development Goal 2 – “Ensure healthy lives and promote well-being for all at all ages” – of the United Nations and several others expressly refer to the improvement of the health care situation in developing countries: improving health care for mothers, reducing childhood mortality, combating Aids, malaria and other severe diseases.

In many newly developed countries and in most of the developing countries, the majority of the people do not have access to adequate health care. Therefore, one focus of German technical cooperation is on building up the health care systems of its partner countries; the respective quality infrastructure is an important component for this. The task of the International Cooperation of PTB Braunschweig is to develop this quality infrastructure in partner countries in accordance with their needs.




PTB's Covid-19 response task force & website

<https://www.covid19.ptb.de/>

- ❖ Medical protective materials - standards, quality testing and approval
- ❖ Testing of Respiratory Equipment
- ❖ Calibration of infrared thermometers
- ❖ And other topics, continuously updated.



The background of the slide is a photograph of a laboratory, viewed through a large window. The laboratory is brightly lit with overhead fluorescent lights. In the center, a microscope is mounted on a white lab bench. To the left, there is a piece of electronic equipment, possibly a spectrophotometer. To the right, there is a metal railing and a small table with a stool. The overall color scheme is light blue and white.

Thank you very much
for your attention