



PTB project “Metrology for Digital Transformation – International Cooperation” CABUREK Global Program

Working Group: **WG1 - NMI's DT strategy**

National project title: **Digital Transformation Strategy of CENAM - MEXICO**

National Metrology Institute: CENAM Mexico

Coach

INTI Argentina

Main Objective: To establish a digital transformation strategy aligned with the Digital Quality Infrastructure (DQI), enabling international connectivity and offering new digital products and services based on FAIR data principles.

Specific Objectives

- **FAIR Data: Findable, Accessible, Interoperable, Reusable**
- **Process Digitalization: Operational optimization**
- **Knowledge Transfer: Digital tools for metrology knowledge**
- **Measurement Automation: Integrated strategies**
- **Legal Metrology: Digital framework for certification and inspection**
- **Cybersecurity: Data protection and availability**
- **National Time Network (NTN): Resilient infrastructure**
- **AI in Metrology: Real-time analysis and predictive maintenance**

Implementation Plan

- **Planning & Evaluation: Infrastructure analysis**
- **Development: Platforms, automation, security**
- **Deployment & Training: Staff training, pilot tests, AI applications**
- **Monitoring & Improvement: Performance tracking, feedback, international collaboration**

Impact

- **Strengthened international collaboration**
- **Increased efficiency and innovation**
- **Enhanced cybersecurity and data integrity**
- **Reliable time and frequency standards**
- **AI-driven metrological solutions**
- **National infrastructure reinforcement**



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