

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

Working Group:

3 - DIGITAL PROCESS MANAGEMENT

National project title:

Digitalization of Quality Management Processes

National Metrology Institute

INTN Paraguay

Coach:

PTB

Project General Objective: To increase the efficiency related to the management of national measurement standards through the development of an internal software.



Software for the management of
national measurement
standards.

Expected results



Metrology staff conscious and
motivated to participate in projects
of digital transformation

Metrology for digital transformation: reliability, efficiency, and traceability.

Key Benefits

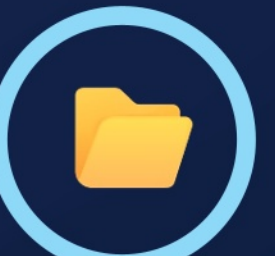
Automatic reminders
for calibration and
maintenance



Data-driven
recalibration intervals
and drift studies



Traceability and
security for ISO/IEC
17025 compliance



Instant access
to certificates
and histories

Standardized
workflows across
all laboratories



Digital Transformation” → “Automation & Intelligence”

BEFORE

All records managed on paper by
one person.

Calibration, verification, and mainte-
nance dates often tracked manually.

No automatic alerts or trend analysis
for drift or performance.

Limited traceability, slow reporting,
and high risk of missed deadlines.

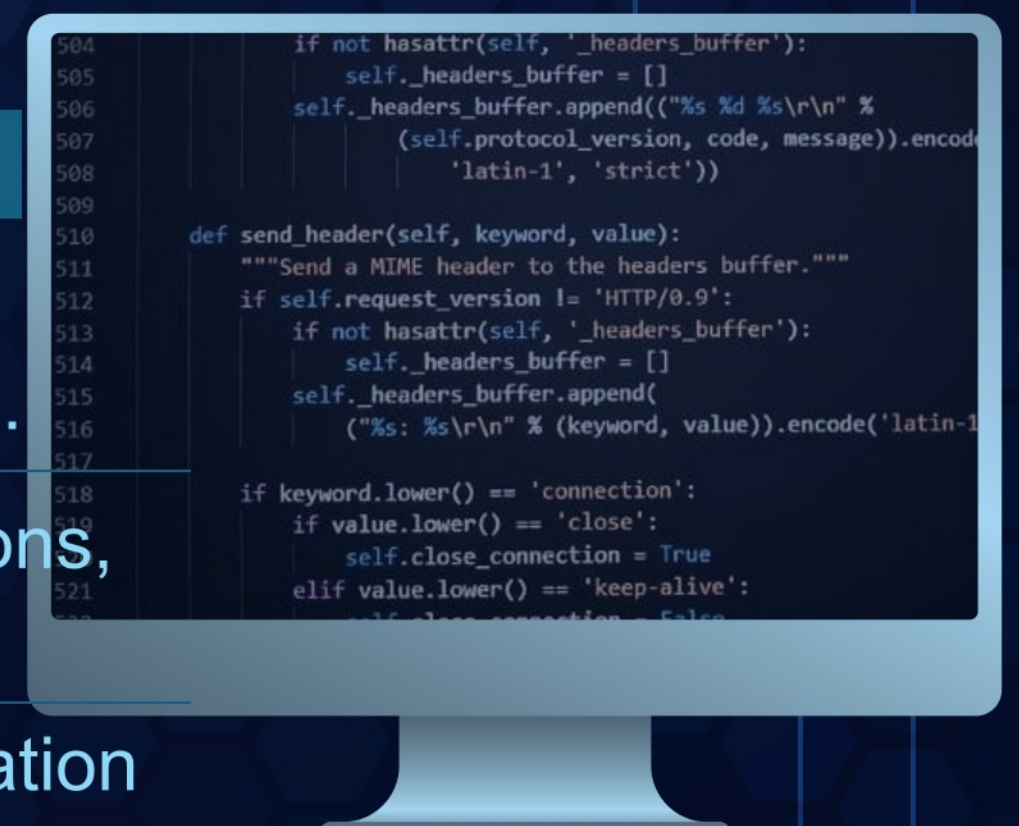
AFTER

Centralized digital system
accessible to all authorized users.

Automatic reminders for calibrations,
verifications, and maintenance.

Built-in drift analysis and recalibration
period optimization.

Real-time dashboards, traceability,
and audit-ready data.



METRA - Ensuring traceability through intelligent management