



IDB PROJECT

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A large, stylized green graphic of the map of South America is positioned in the center of the slide. The map is composed of horizontal lines of varying lengths, creating a sense of motion or data flow. To the right of the map, the letters "IM" are written in a large, bold, green, sans-serif font.

IM

SISTEMA INTERAMERICANO DE METROLOGÍA



IDB PROJECT

**“Metrology for DT to Support health services in LAC
& address measurement challenges associated with pandemics such as
COVID-19”**

Feb 2021- Feb 2024

Extension for one year more (February 2025)

IDB Funding: U\$S 500.000

Counterpart: U\$S 601.400





GENERAL OBJECTIVE

New digital metrology services developed, regionally accepted and deployed to address emerging technologies, such as technologies developed as a consequence of the COVID-19 crisis.

COMPONENTS

1. Awareness and Information
2. Development of regional pilot projects to foster the implementation of new digital metrology services
3. Institutional Strengthening



COMPONENT 1. Awareness and Information

- Diagnosis on the current situation of health related digital metrology services in at least 4 NMIs in the region. Action plan for at least 2 pilot projects.

Status: CENAM is leading a proposal related to this topic. First survey developed.

- Awareness workshops (4)

ANDIMET: INM - Colombia – May 23, 2023

CAMET: CIM – El Salvador – August 18, 2023

SURAMET: INTN – Paraguay – November 08

CARIMET: Dominica, December 2023





COMPONENT 2: Development of regional pilot projects to foster the implementation of new digital metrology services

-3 courses on technology for digitalization: translation of virtual M4DT Colloquium (2021).

Next activities!!: Phyton training (December 2023- Dominica); ANDIMET, 2024- Software Certification

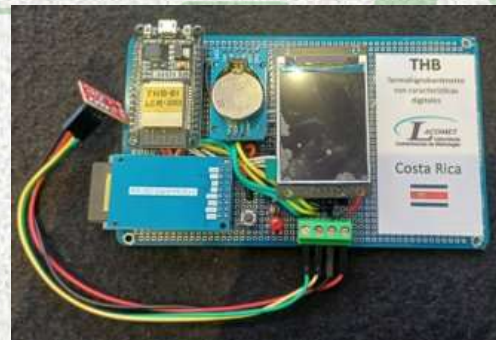
- 4 joint R&D projects in execution, among NMIs

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1. Development of a thermohygrobarometer with digitalization criteria (ENAER, IB METRO, INEN, CENAM, LCM, CENAMEP, INACAL)- Finished !!!

Results: development of 8 different designs of 8 low cost and functional THBs with digitalization components





2. Metrological evaluation of lung ultrasound using virtual vector machine for diagnosis of acute respiratory distress syndrome (INTI, CENAM, INMETRO, NIST)

Objective: To finish on March 2024, the project aims to promote the competitiveness of digital companies related to health tech and healthcare applications, through the reliable automated tool to be applied to diagnosing diseases after Lung Ultrasound imaging

3. Time and Frequency digital platform (CENAMEP, INTI, ICE, CENAM, INM)

Objective: To create an economic and open platform for T&F measurements

4. Optical 3D measuring systems - Dimensional traceability for industrial and medical applications (INTI, INMETRO, CENAM, IBMETRO)

Objective: development of specific patterns and the study of optical 3D systems



- 4 Pilots: new services to be implemented, with regional support

CABUREK: To be finished in a few days !!

WG1: Digital Calibration
Certificates



WG2: Automation of labs
and remote calibration



WG3: Digital Process Management



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- Pilot N° 4: Regional SIM Metrology Cloud: The DT MWG is working together with a consultant in the development of the ToRs of the proposal.



- COMPONENT 3: Institutional Strengthening

The objective is to support and contribute to the participation of SIM members in international fora, on Metrology and Quality Infrastructure

Through the IDB Project, up to now, 5 SIM representatives attended to different meetings (CIPM Consultative Committees, JCRB meeting, etc)

Possible proposals: To support the participation in the NSCLI Early Career Award.





FUTURE CHALLENGES AND STEPS !!

- To finish the execution of the research projects
- To develop the diagnosis and plan action, and the pilot proposal of regional metrology cloud
- To organize some courses on technology for digitalization of metrology

To make an effort in order to show the impact, the benefits and the results, not only within SIM and our NMIs but also to IDB and other partners, of the different initiatives developed during the execution of this second project.

MUCHAS
GRACIAS!!

<https://sim-metrologia.org/about-us/>



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