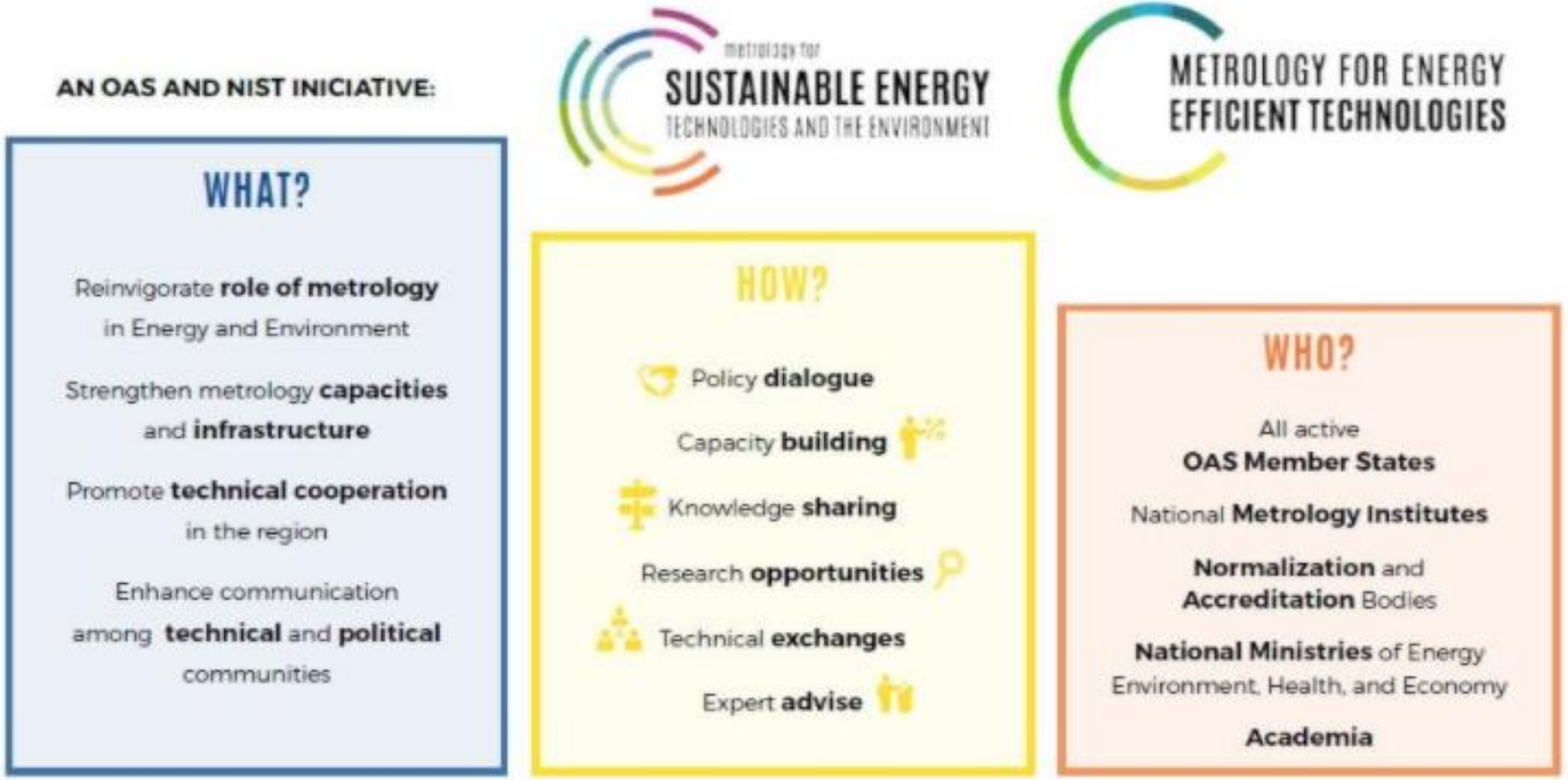
Metrology for Energy and Environment

Lessons and Opportunities

Agenda

- ❑ Program description
- ❑ Implementation
- ❑ Project's highlights
- ❑ Lessons and opportunities

Description



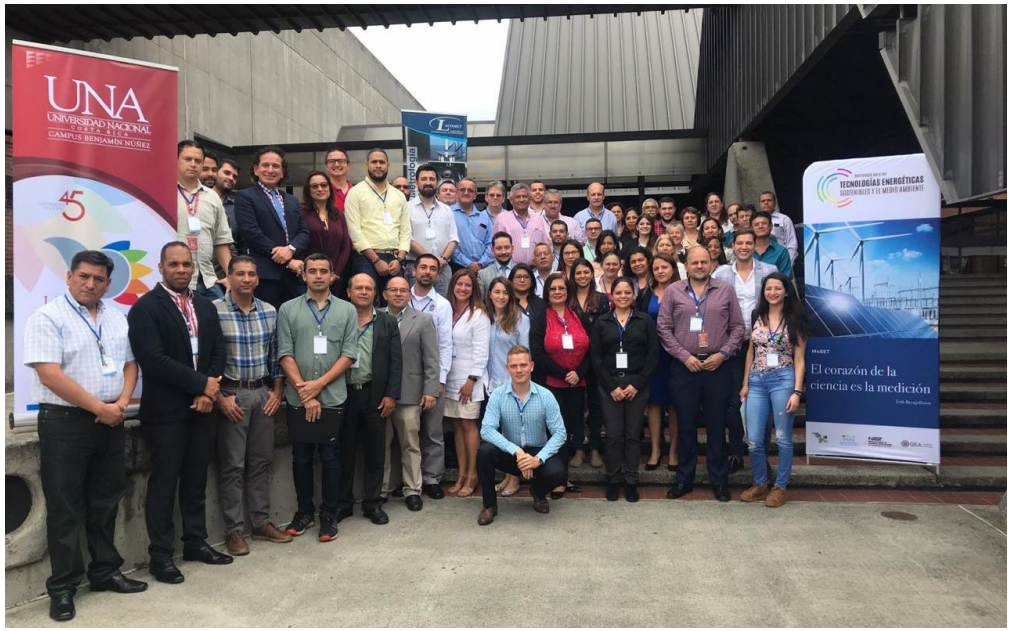
- ❑ 4-year program
- ❑ Funded by US-OAS
- ❑ NIST as technical counterpart

Implementation

OPPORTUNITIES	ACTIONS	RESULTS
Limited technical capabilities.	• Funded 10+ country-driven sub- projects. • Enable scientific research opportunities and technical cooperation.	• 28 LAC countries beneficiated. • 21 actions started by beneficiaries • 4 new metrology services supported
Communication gap between key stakeholders.	• High-level awareness-raising. • Support policy development. • Inter-institutional coordination.	• Raised visibility of Metrology. • Supported adoption of Central America energy efficiency. technical regulation.
Diverse set of country's needs and challenges.	• Established champions by theme. • Prioritized country joint initiatives. • Enabled opportunities for regional cooperation.	• Created a network of 40 cities collaborating on air quality measurements. • 55% of projects executed were joint initiatives.

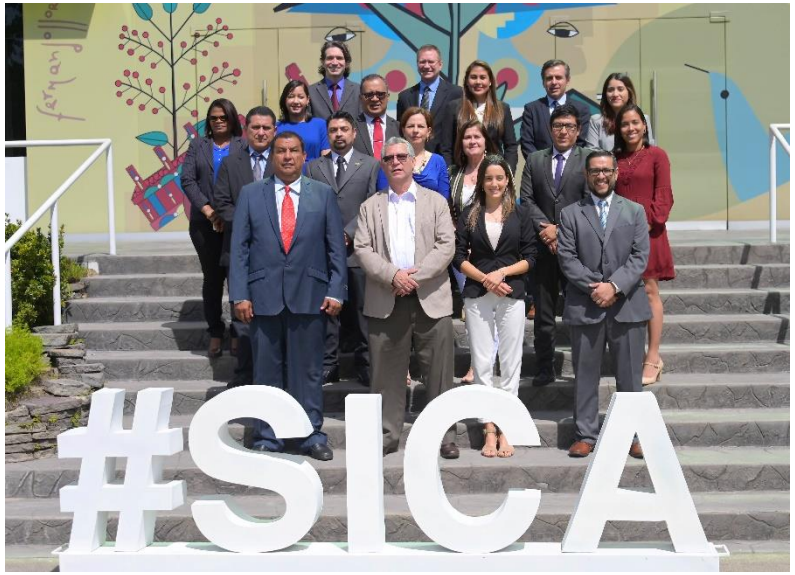
Air Quality Monitoring in LAC

- 2018: Quality assurance of air quality measurements (Costa Rica, Mexico, United States)
- 2019: Traceability of air quality measurements (Mexico, Argentina, Colombia, United States)
- 2020- 2022: Traceability of Ozone Measurements (Mexico, Argentina, Colombia, United States)



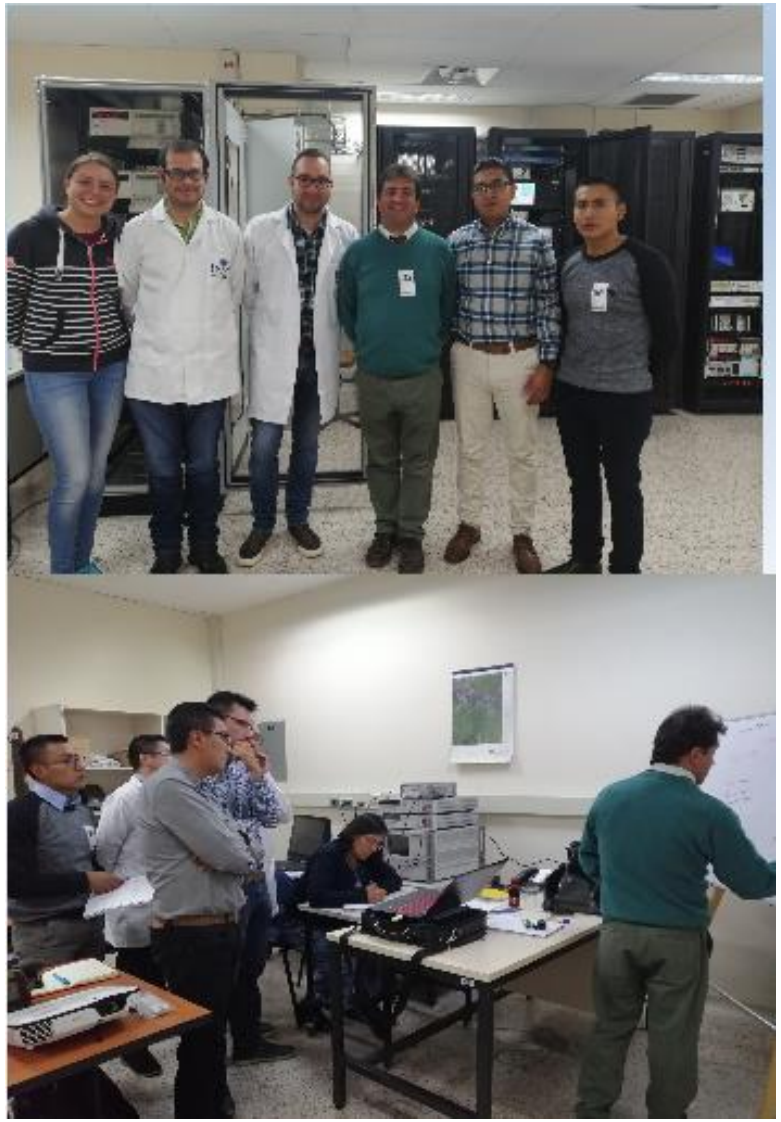
Energy Efficiency

- 2017-2020: Technical support in the process of harmonization of EE lighting standards in Central America.
  - Technical exchanges, trainings, expert advice
  - Recommendations to the EE regulations (general and public lighting)
  - Market analysis each CA country
- 2018: Energy Efficiency Testing for Refrigerators and Air Conditioners (Jamaica)
- 2018: Energy Efficiency tour at Intertek - CARIMET
- 2019 -2020: Capacity Assessment of BSJ and TTBS to operate EE testing laboratories (refrigeration, air conditioning and lighting)



Other initiatives

- Awareness raising on the role of Metrology on the Environment, the Energy, and the Public Health.
- Technical Exchange on the Development of a Solar Simulator (UV irradiance levels).
- Scientific exchange to strengthen services associated to power quality.



Lessons and opportunities

- Country driven proposals focus, helped improved sustainability of actions and their impact.
- Communication gap between key stakeholders continues to be a challenge.
- Diverse set of needs and challenges create opportunity for north-south and south-south cooperation.
- More opportunities for scientific exchanges and cooperation for emerging technologies.

Thanks

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