

# INTERNATIONAL TECHNICAL COOPERATION

## Renewable Energy and Climate Change

# The project: background information



## Quality Infrastructure for Renewable Energy Sources and Energy Efficiency (R3E) in LAC - QIREEELAC



- Organization of American States as political partner

- regional approach focused on Accreditation, Metrology and Standards, represented by regional organizations COPANT, IAAC and SIM

- Objective: develop and strengthen QI services for R3E

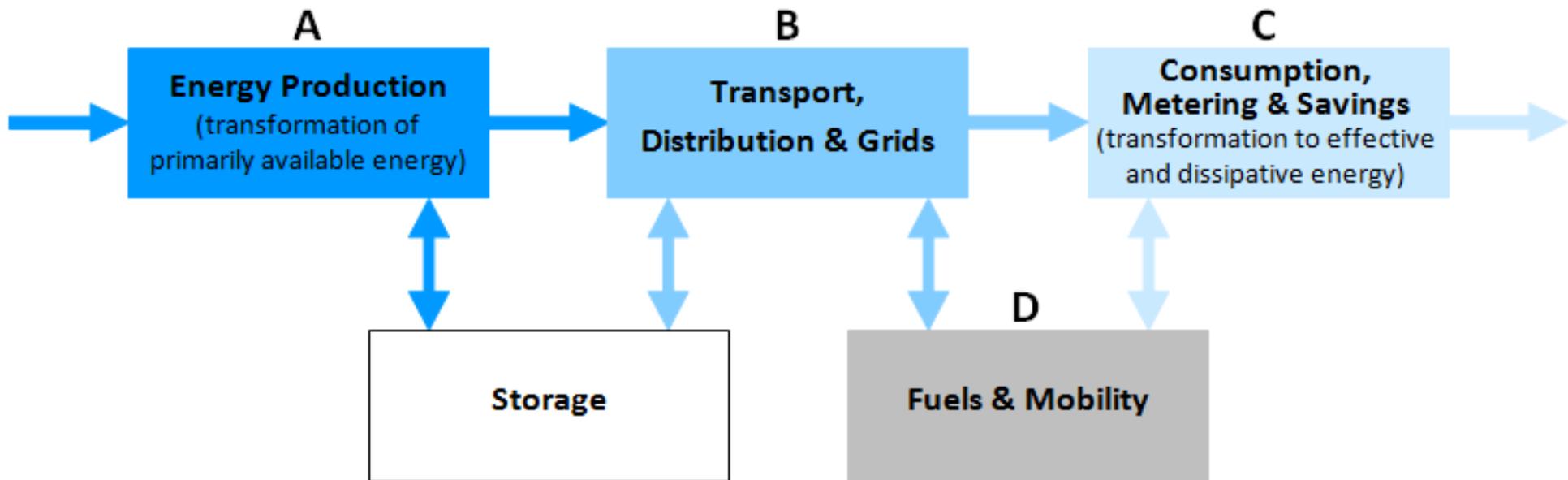
- German Funds for 2011-2015: 2 Mio €

- CEPAL, OLADE support on political level

- Is part of the German Development agenda to support R3E in Latin America and the Caribbean



# The Energy “Value Chain”



# Priority areas of activity

## Renewable Energies

### Solar Water Heaters



## Transmission & Distribution

### (Smart) Grids



## Transversal Awareness Building & Cooperation



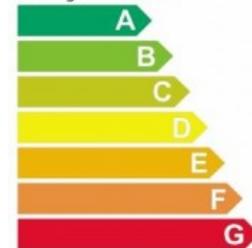
## Energy Efficiency Household Appliances



### Energie

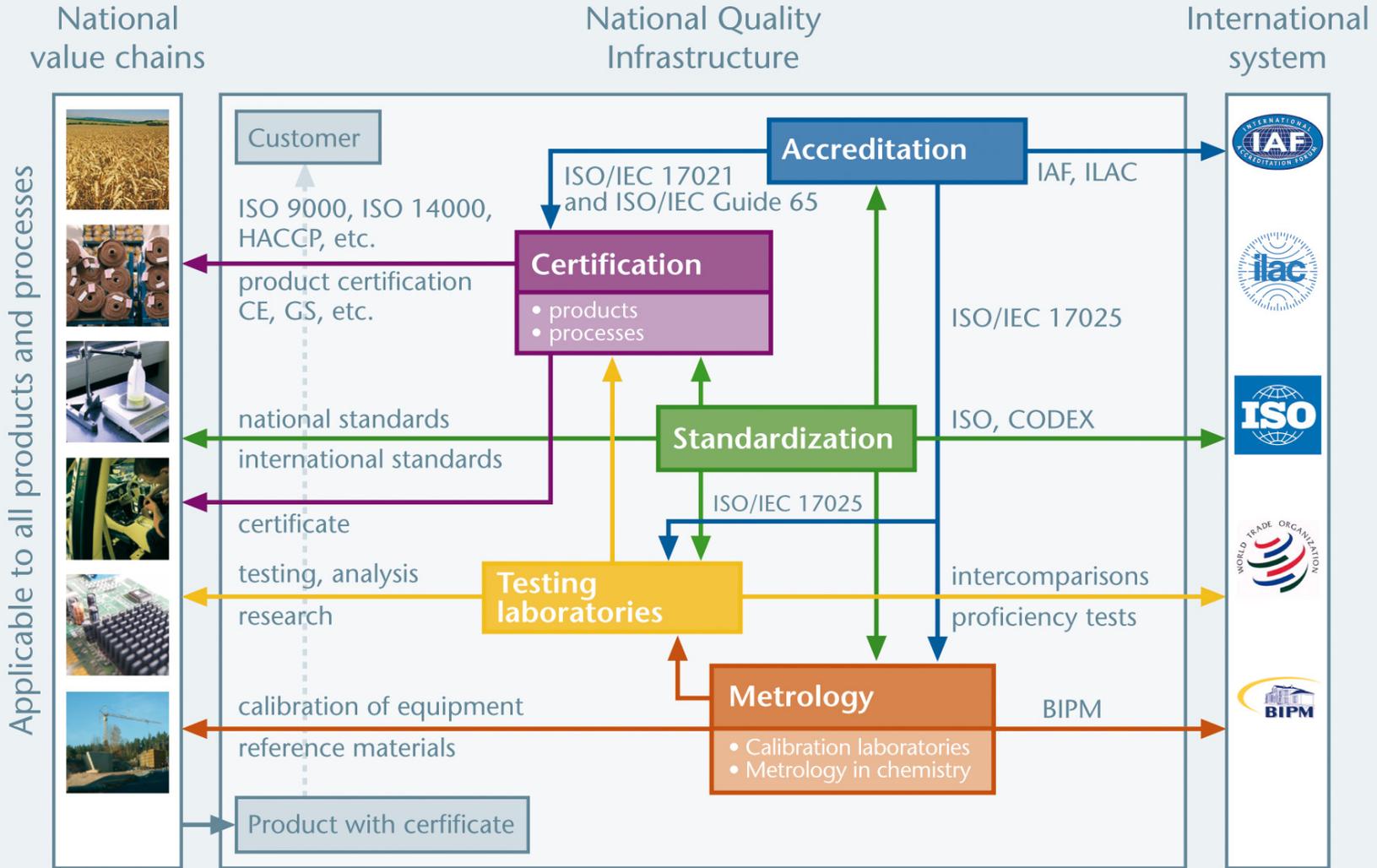
Hersteller  
Mustermarke

Niedriger Verbrauch



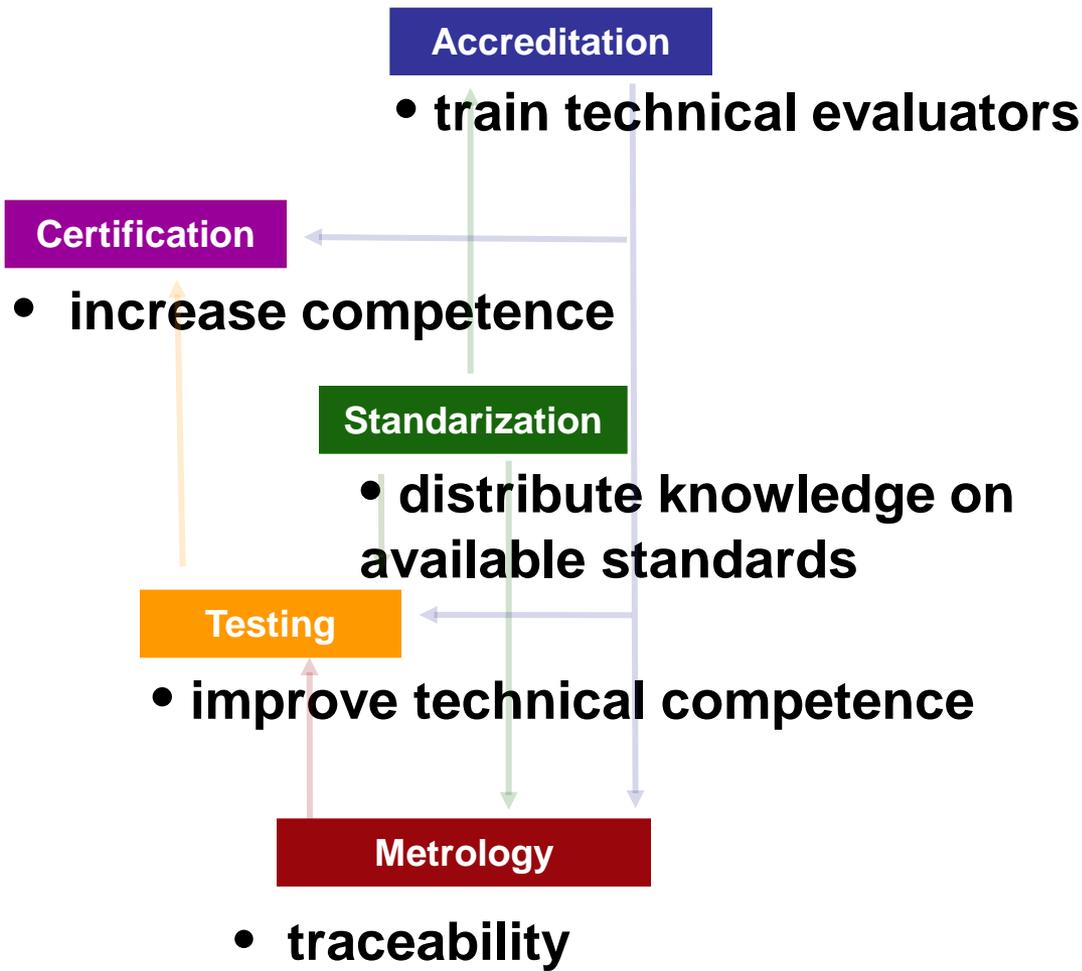
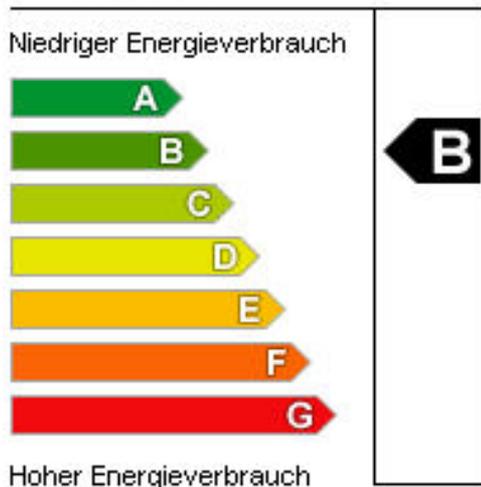
Hoher Verbrauch

# National Quality Infrastructure



## Example: Energy Efficiency Labelling

### Energie



# Activities 2013

2013	Solar Water Heaters	Household Appliances	Grids	Transversal: Awareness
Standardization	Program to support small NSBs to participate in international Stdzn (mirror committee formation) <b>2013</b>			Information Material on the benefits of QI for SWH ( <b>Oct</b> ) Impact studies (starting <b>Nov.</b> IRENA?) Satellite events to existing ones (IAAC GA – <b>Aug.</b> ) QI-Contributions to meetings of reg. Organizations OLADE – <b>May</b> , CEPAL – <b>Nov.</b> , OAS - <b>Nov.</b> )
	Exchange of experience: Labeling Best Practice, ( <b>July</b> ) with regulators and corresponding follow up (pilot awareness seminars)			
Accreditation	Capacity Building: Inspection Bodies ( <b>June</b> ) Certification Bodies ( <b>TBD</b> ) Peer Evaluators ( <b>May</b> )			
		PT (Fridges) ( <b>2013</b> )		
Metrology	Determine demand for metrological back up		Training on Power Quality ( <b>Sept.</b> )	
	Building capacities in Solar Radiation Thermal properties of materials Preparation of Intercomparisons	Capacity Building Energy Meter Verification – follow up to 2012 Training Seminar on Basic Elements for Energy Meter Verification ( <b>Nov.</b> )		

- New services offered by NMIs in the region
- RegOrgs recognize need to reach out to sector
- RegOrgs intensify their cooperation
- International Renewable Energy Agency IRENA recognizes QI as key success factor for their work → increasing cooperation
- Organización Latinoamericana de Energía OLADE increases attention to QI (International Energy Forum, element of their capacity building)
- ...



## Quality Infrastructure for Climate Change and Biodiversity in Latin America and the Caribbean



- Organization of American States as political partner

- regional approach focused on Accreditation, Metrology and Standards, represented by regional organizations COPANT, IAAC and SIM

- Objective: develop and strengthen QI services for climate change and biodiversity

- German Funds for 2013-2017: 2 Mio €

- Fund structure, 22 proposals were received and clustered in 7 major areas of activities

- Is part of the German Development agenda to support the implementation of policies related to biodiversity and climate change



# Cluster with relevance for Climate Change

PROJECT SUMMARY MATRIX

PROPOSAL NAME	DESCRIPTION	PARTICIPANT COUNTRIES	OBJECTIVE	IMPACT
ENVIRONMENTAL ALERT	Information system for relevant environmental standards and certifications	Brasil	Increase information access to SMEs on environmental requirements	Improve environmental performance of SMEs
ENVIRONMENTAL LABELING	Develop standards and accredited certification systems for sustainable products	Costa Rica, Ecuador	To have a reliable environmental labeling system	Increase competitiveness of companies with environmental labeled products on the market
PHYSICAL METROLOGY- UV RADIATION	Establish a traceable measurement system for UV radiations	Argentina	To count in Argentina and the region with the lowest uncertainty measurements for radiation	The South American region has reliable and traceable measurements to international system to define policies, projects and actions to adapt to climate change.
CHEMICAL METROLOGY- VEHICLE EMISSIONS	Establish a traceable measurement system for emissions and environmental concentrations	Peru, Argentina	Decrease measurement uncertainty in vehicle emissions	Mitigate transportation sector emissions.
CHEMICAL METROLOGY-GHG	Establish a traceable measurement system in GHG emissions	Mexico, Brasil	To have CRM for CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O	Increase credibility in carbon markets
INTERNATIONAL STANDARDIZATION	Strengthen the participation of COPANT members in ISO TC 207	LAC	Strengthen the member institutions on environmental issues	Sensitize companies, regulators and other stakeholders in their environmental performance

- Planning workshop in August 2013 in Port of Spain, Trinidad
- Project proposal to the Federal Ministry for Economic Cooperation and Development (October)
- First meeting of the Project Steering committee (OAS, PTB, SIM, COPANT, IAAC): final selection and approval of prequalified proposals
- 2014: 2nd call for proposals