



This project is co-funded by the European Union



Federal Ministry  
for Economic Cooperation  
and Development

**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH



# 3<sup>rd</sup> Executive Committee Meeting Nexus Regional Dialogue Programme



*Latin America and the Caribbean*  
**Main achievements and outcomes of phase I**

**Marina Gil**

**Natural Resources Division**

**ECLAC**



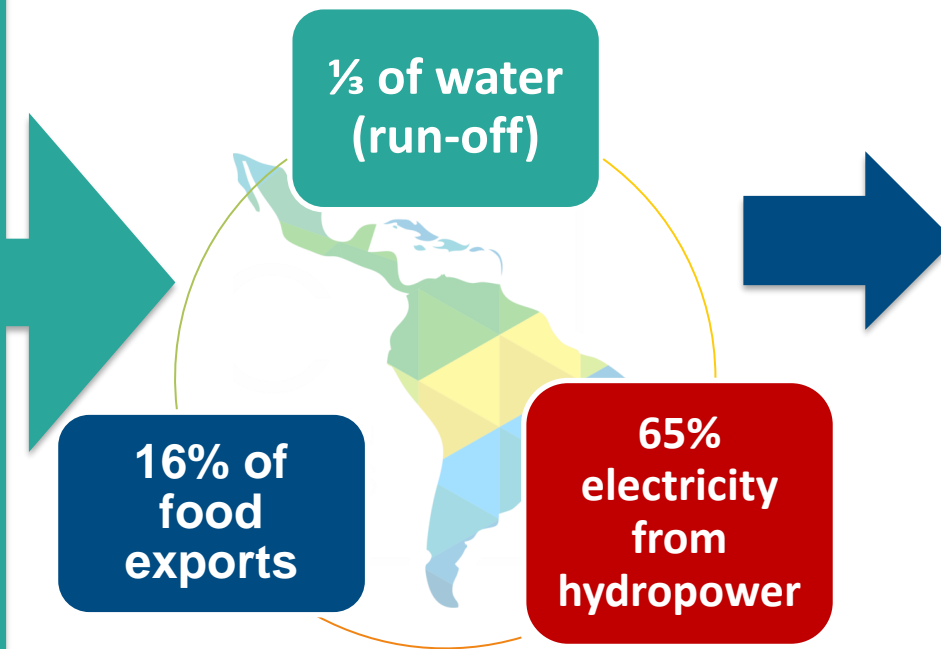
**ECLAC**



# Overview of the Nexus Dialogue in Latin America and the Caribbean

## Traditional LAC economies:

- Based on natural resources
- Exports
- International commodity prices
- Concentrated in cities



- Integrate nexus into policies
- Reduce vulnerability
- Sustainable development

Water allocation priorities,  
Competition for water and energy in mining, hydroelectricity and irrigation  
Biofuel production in Brazil, Argentina and Paraguay

# Main achievements and outcomes of phase I

- Nexus concept on Water, Energy and Food in Latin America and the Caribbean
- Nexus potential for managing interactions through Public Policies

**POLICY  
MAINSTREAMING**

- Now this concept is increasingly used in important national and regional forums on water, energy, agriculture and climate change
1. At the national level (Argentina, Bolivia, Brazil, Chile, Costa Rica, Ecuador, Dominican Republic, Guatemala, Mexico, Peru, Uruguay and Venezuela)

Concept already used in national communications prepared by the countries for the 8th World Water Forum (Brasilia, Brazil, 18-23 March 2018)

2. At the regional level

Central American Integration System (SICA), Iberoamerican Conference of Water Directors (CODIA), Association of Water and Sanitation Regulatory Entities of the Americas (ADERASA)).

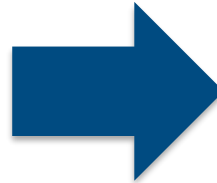
# Main achievements and outcomes of phase I

1. Action Plan with requests from 10 countries in LAC for 17 proposed projects PLUS three regional supporting activities
2. Trained 95 professionals from 15 countries, 29% female
3. Regional Nexus priority study
4. Two Country Assessments (Peru and Costa Rica) validated by national NEXUS forum
5. Two small scale Nexus pilot applications implemented (pilot analysis of solar pumps in Chile and pilot SPIS in Bolivia)

# Main achievements and outcomes of phase I

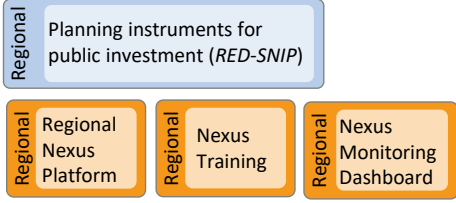
Document: Regional policy guidelines for better management of the nexus interrelations

Regional dialogue and national implementation (Costa Rica)



**National case study:**  
**Positive evaluations by MAG and the Ministry of Environment and Energy** in that it allowed to analyse long-existing conflicts from a **new (nexus) perspective** and to **formulate public policies** for a better balance between hydroelectric generation, irrigation and agriculture

# Overview of the proposed actions



# Overview of the proposed actions

## Framework conditions

Reg

Planning instruments for public investment (*RED-SNIP*)

ARG

Policy for Energy subsidies in irrigation agriculture

COL

Integration of Nexus in the new water authority

CUB

Assessing the country's bioenergy potential

BOL

Nexus smart river basin planning guidelines

BOL

Nexus smart operation of multipurpose dams

C. R.

Nexus smart river basin committee

ECU

Nexus smart river basin committee

ARG

Establishment of a Nexus committee

## Nexus Pilot Projects

C. R.

Nexus smart water distribution statutes

GUA

Nexus pilot project to improve WEF securities in rural areas

NIC

Integration of Nexus in the design of a hydropower plant

ARG

Integration of Nexus in the design of the *Hidrovia Continental*

CUB

Development of sustainable Bioenergy projects

PER

Nexus smart river basin planning

PER

USE of PES to improve WEF securities

HO

Design of a multipurpose dam

## Supporting Activities

Reg

Regional Nexus Platform

Reg

Nexus Training

Reg

Nexus Monitoring Dashboard

# Short overview Action Plan

## LAC opportunities

- Integrated Water Resources Management
  - Energy and Agriculture
- Green infrastructure and ecosystem approaches
  - Environmental protection
- Bioenergy
  - Impacts of energy crops
- Energy and water efficiency in agriculture
  - Solar irrigation
- Multipurpose infrastructure
  - Better realization of potential
- Urban Nexus:
  - Biomass energy from waste treatment and reuse of wastewater.

## ECLAC contributions

- Upscaling and transferability of projects - dissemination of lessons learned
- Help regional structural change (energy transition, bioeconomy and water)
- Regional policy recommendations on the sustainability of nexus within national policies
- Regional metrics of nexus: relevant indicators for Latin America and the Caribbean



# Lessons learnt and way forward

## ■ ECLAC:

- Nexus tool for integrated structural change in LAC
- Indicators of nexus can inform policy making
- A very useful tool in our work on **SDGs** (water, energy, agriculture), that are inseparable, and hence intrinsically imply a nexus approach

## ■ Priorities:

- To improve and strengthen the governance of all nexus sectors, with emphasis on planning, coordination, control and information
- Criteria for decision-making, evaluation, thresholds, etc.
- Moving towards implementation of Action Plan
- Nexus approach: Economic instruments (taxes, subsidies), state-financed projects, budgetary allocations and environmental impact assessment
- To introduce nexus considerations in water legislation
- Coordination between different regulatory agencies and authorities



This project is co-funded by  
the European Union



Federal Ministry  
for Economic Cooperation  
and Development

**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH



# Thank you very much for your attention!

**Marina Gil Sevilla**

División de Recursos Naturales / *Natural Resources  
Division*

CEPAL/ ECLAC  
(+562) 2210 2428

[marina.gil@cepal.org](mailto:marina.gil@cepal.org)



ECLAC

