

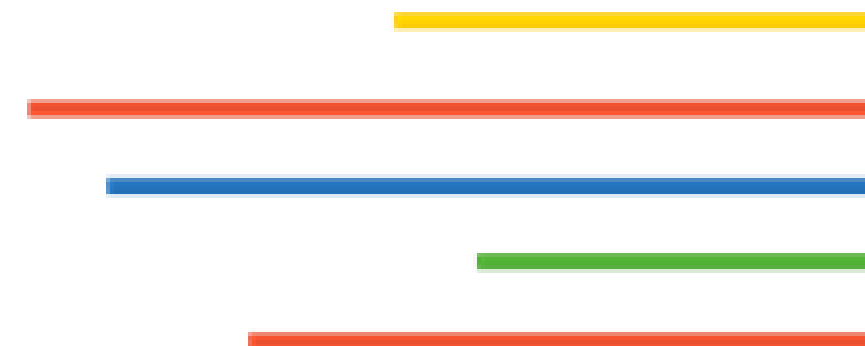
## Infoshare Series on Earth Observations Support Through NRENs



22 April, 2025

## Scope

To strengthen capacity development and knowledge management in thematic areas in earth observation in the region, articulating from RedCLARA, the NRENs and their institutions, with organisations such as AmeriGEO, GEO, Copernicus that directly impact the SDGs.



## Guideline for action

Advocating for the use and dissemination of open access knowledge in innovation, science and technology.

Building international, regional and local engagement for capacity development

Promoting the development of specific products



# Copernicus Academy LAC

# Copernicus Programme

The Copernicus Programme uses vast amounts of global data from satellites and measurement systems on land, air and sea to provide information that helps service providers, public administrations and other international organisations to improve the quality of life.

The information services provided are freely and openly accessible to its users.

<https://www.copernicus.eu/en>



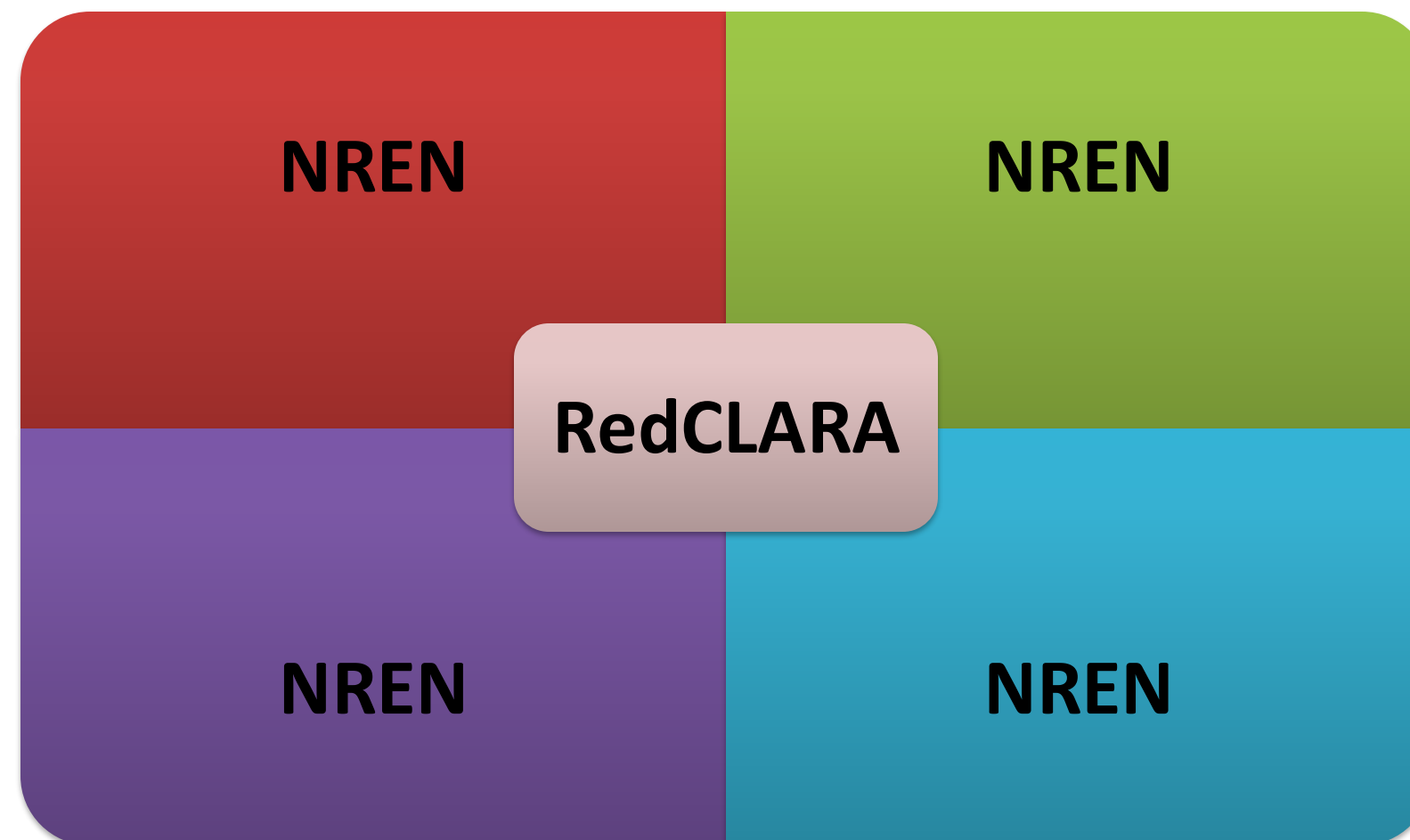
## Objetives of the Copernicus Academy

Support the European Commission in bridging the gap between skills and data use and enable the adoption of Copernicus data in new sectors.

Its aim is to encourage the development of interdisciplinary training programmes and the promotion of new skills.



## Regional Copernicus Academy

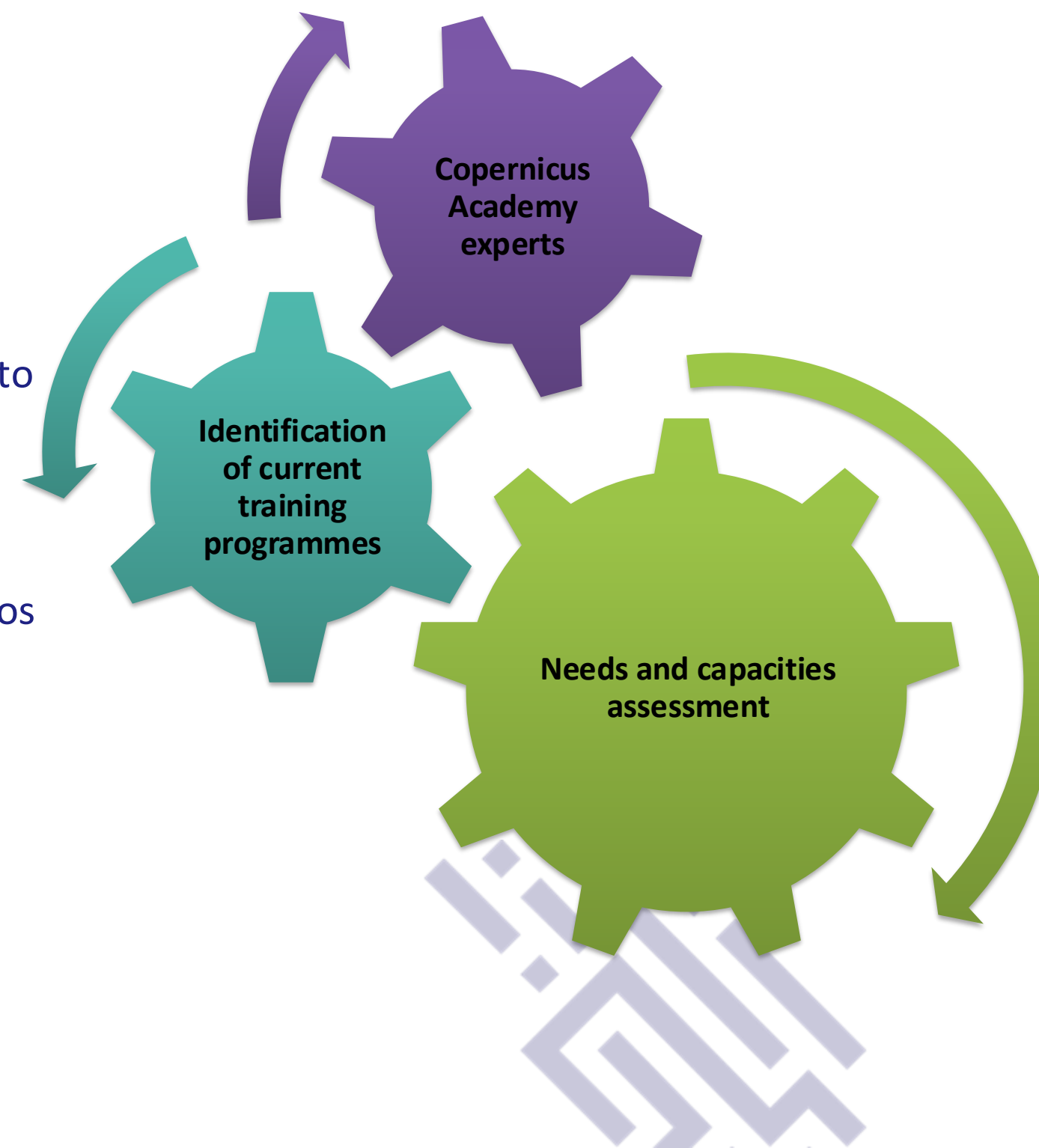


## Regional Agreement for the development of the Earth Observation Strategy in the region's NRENs - March 2023



## Strengthening of the Scientific Collaboration Group on Climate Change

- Identify synergies and opportunities for collaboration between researchers in the region.
- Identify the infrastructure requirements of researchers to enable them to develop their collaborative research with international peers.
- Articulate, together with national networks, the construction of scenarios for scientific collaboration on climate change.

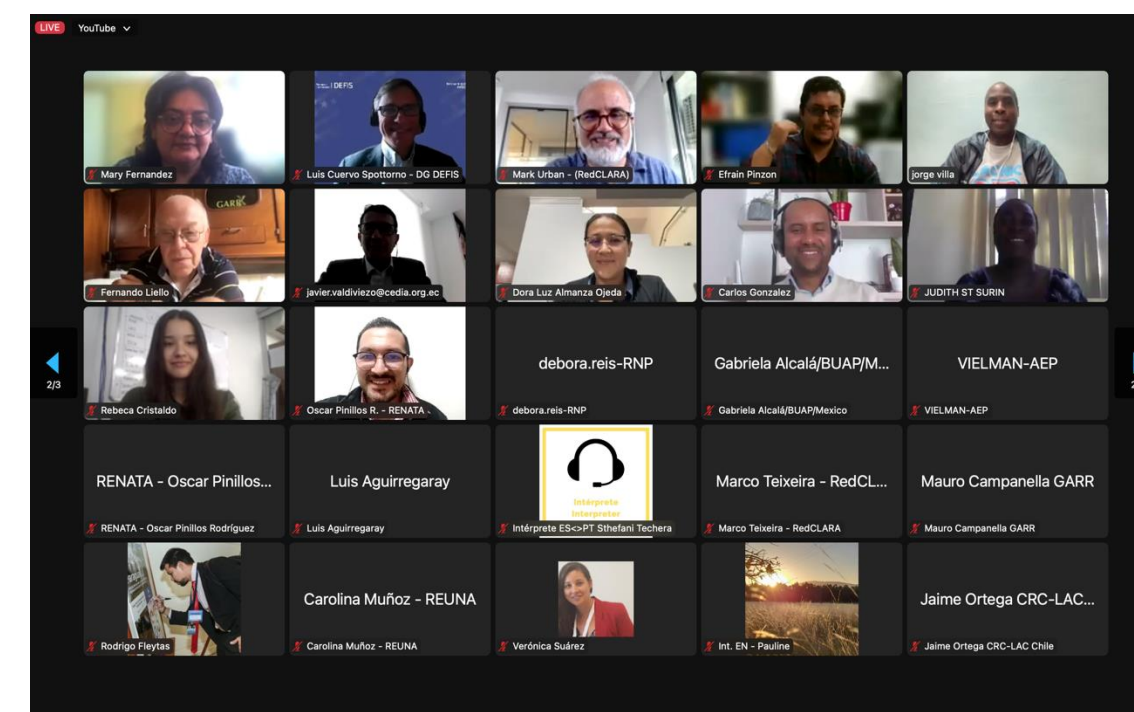
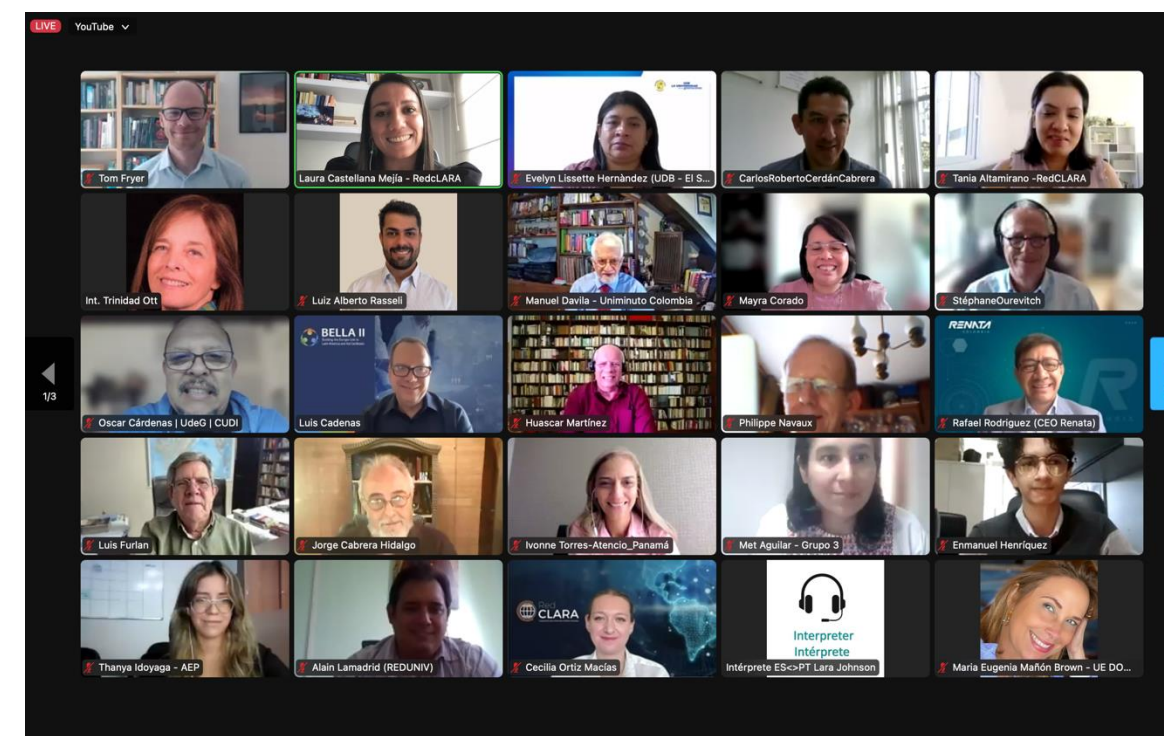


# Innovation activities Latin America, Caribbean and Europe



# Ideathon BELLA: Copernicus Innovation Challenge - March 2023

- LAC - EU Partnership
- 82 registered
- 17 LAC countries, 2 European countries
- 8 groups, 8 concept notes submitted
- 4 winning concept notes:



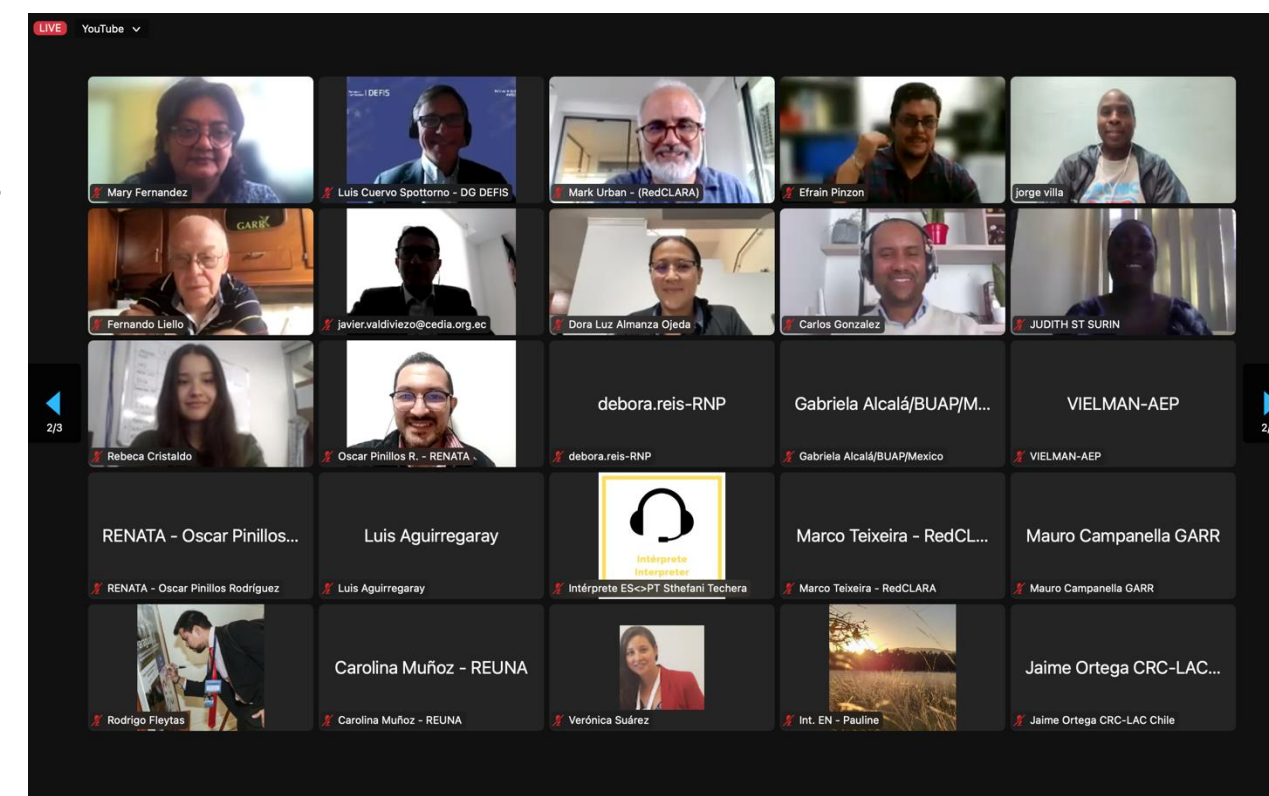
## BELLA Ideathon - winners

**1st place: Group 3** - Monitoring model of the spatio-temporal distribution of vegetation in the region for the protection and sustainable management of biodiversity through open access processing in the Copernicus Wekeo cloud for academia, citizens and institutions - **Colombia, El Salvador, Argentina, Panama, Mexico and Peru.**

**2nd place: Group 7** - Remote Sensing Applications for Biodiversity Conservation in Forest Ecosystems - **Mexico, Cuba**

**3rd place: Group 8** - Satellite Data Interpreter - SADAI -- SAD - Decision Support System + AI - Artificial Intelligence - **Paraguay, Dominican Republic**

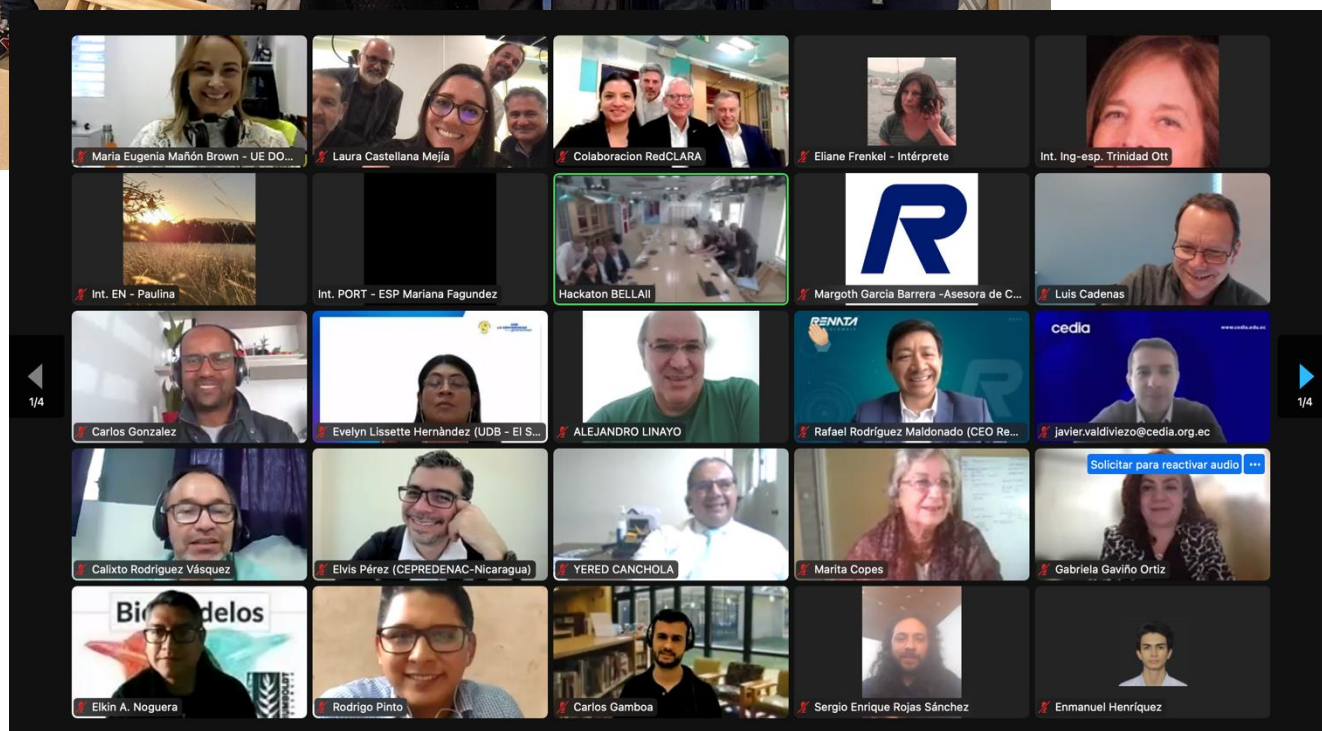
**4th place: Group 4** - Platform for visualisation and interpretation of climate data to support family farming in Latin American countries. - **Colombia, Panama, El Salvador, Chile, Mexico, Dominican Republic.**



## BELLA Hackathon: Copernicus innovation development - July 2023



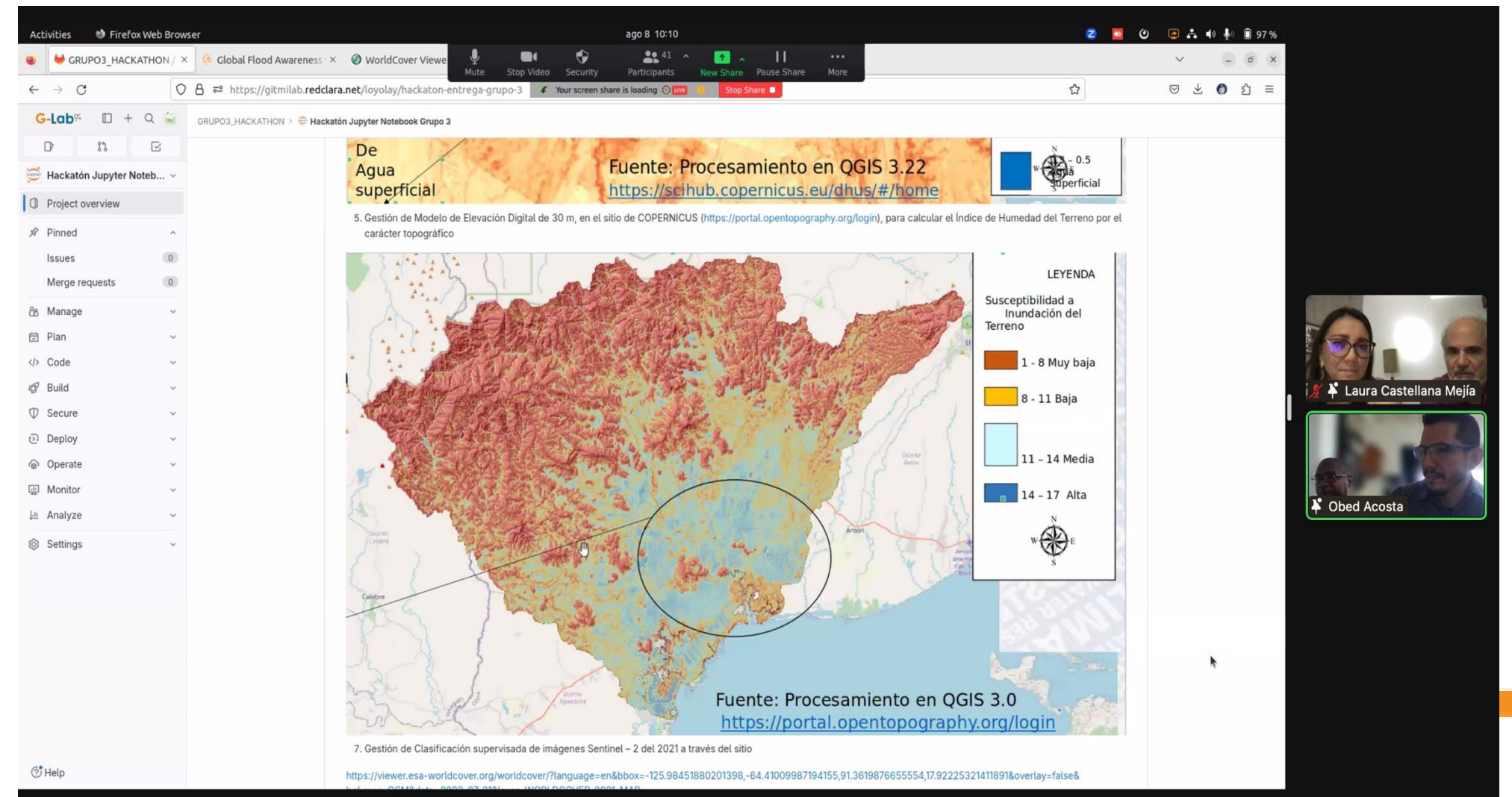
- 160+ registered participants –
- 53 groups
- 14 LAC countries, 2 European countries
- 4 speakers
- 5 mentors
- 1 technical expert



# BELLA Hackathon: Copernicus innovation development

## 2 challenges:

1. Satellite Data Interpreter - SADAI (SAD - Decision Support System + AI - Artificial Intelligence).
2. Climate data visualisation and interpretation platform to support family farming in Latin American countries



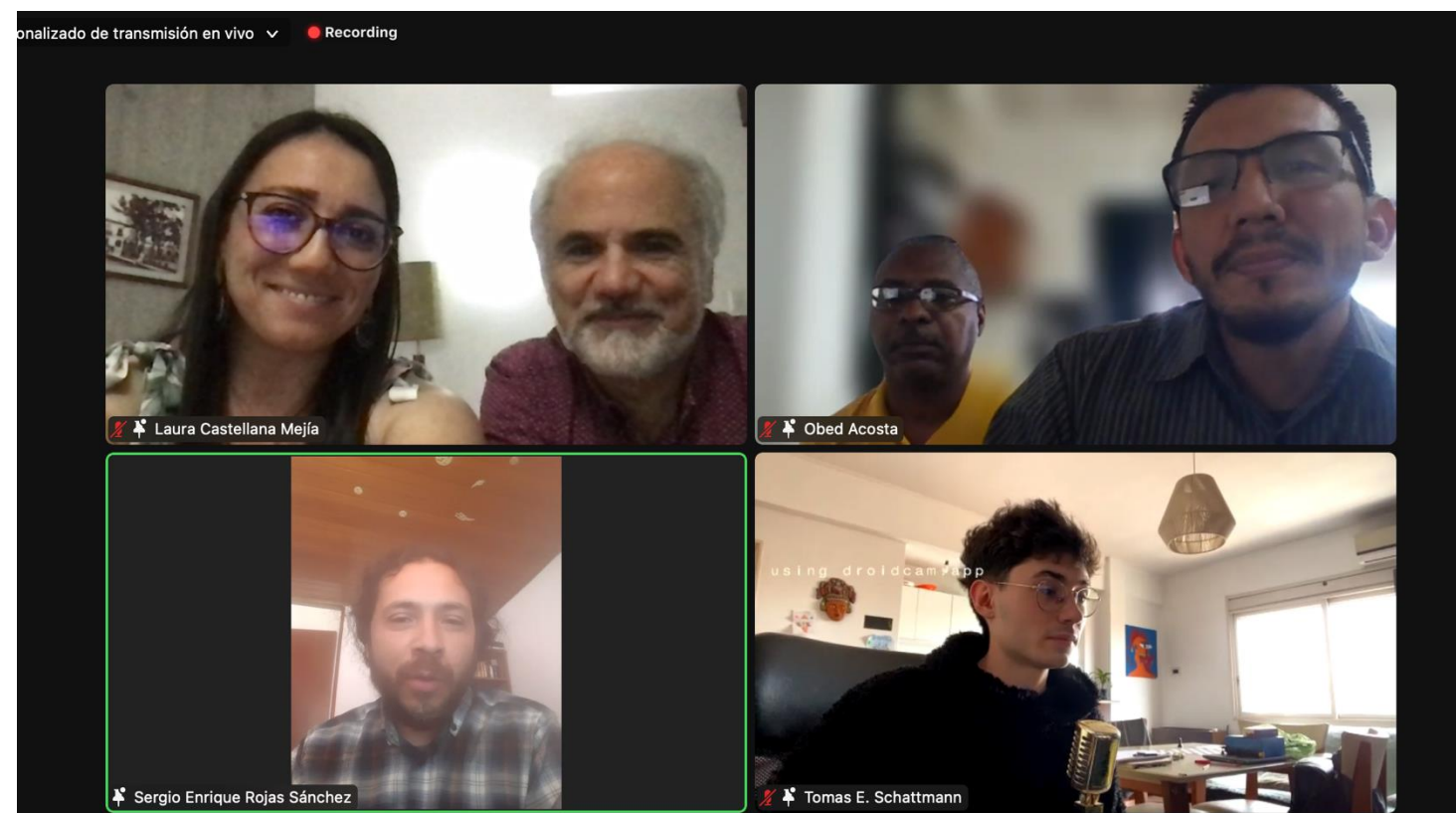
The screenshot displays a web browser window with a Jupyter Notebook interface. The main content area shows a map titled "De Agua superficial" (Surface Water) with a legend for "Susceptibilidad a Inundación del Terreno" (Flood Susceptibility of the Terrain). The legend categories are: 1 - 8 Muy baja (Very low), 8 - 11 Baja (Low), 11 - 14 Media (Medium), and 14 - 17 Alta (High). The map shows a geographical area with a color-coded overlay representing flood susceptibility. The interface includes a sidebar with navigation options like "Project overview", "Pinned", "Issues", and "Merge requests". The browser's address bar shows the URL: <https://gitmilab.redclara.net/loyolay/hackaton-entrega-grupo-3>. The browser's taskbar at the top shows the time as 10:10 on August 8th.

# BELLA Hackathon: Copernicus innovation development

**Group # 52: Application developed in Google Earth Engine for the visualisation of agroclimatic variables and their overlap with polygons of interest.** Colombia - Instituto de Investigacion en Biodiversidad Alexander von Humboldt: Sergio Rojas, Gabriel Perilla, Luis Romero, Elkin Noguera, Cristian Cruz, Elkin Noguera..

**Group #25: SPI: Fire Prevention System: Tackle Fire, Protect Tomorrow**  
Argentina and Trinidad and Tobago - Facultad de Ingeniería, Facultad de Informática - UNLP, The University of the West Indies, Universidad Nacional De La Plata: David Akim, Tomas Emanuel Schattman, Aldana Tedesco.

**Group #3: Web Platform to Optimize Crops with NDVI and NDWI**  
Panama and Cuba - CATHALAC: Yordany Morejon, Octavio Smith, Obed Acosta





## MARCH 2024

- Copernicus
- + climate change
- + Agriculture
- + AI
- + Data processing

### •RESULTS OF THE 2024 IDEATHON:

- Total registered: 125 / 12 working groups (2 in English and 10 in Spanish)
- 9 jurors / 6 mentors / 2 lecturers 10 concept notes delivered
- Launch on 29 February with 93 participants
- Closing on 11 March with 80 participants

### WINNING NOTES

1st place: AgrolN4: INclusive and Smart INtegration of Industry 4.0 for the Sustainable Agri-Food Sector in Central America and the Caribbean

•2nd place: Research and Monitoring Centres focused on the generation of technological strategies to strengthen resilient livelihoods in farming families in the dry corridor of Central America and the Caribbean with emphasis on Malnutrition and Food Security.

•3rd place: Interconnection of the agro-industrial ecosystem with integral solutions Platform or Observatory: Collaborative Planet Health (OSPC) for the Central American Dry Corridor, through technology, triple impact and regenerative economy.

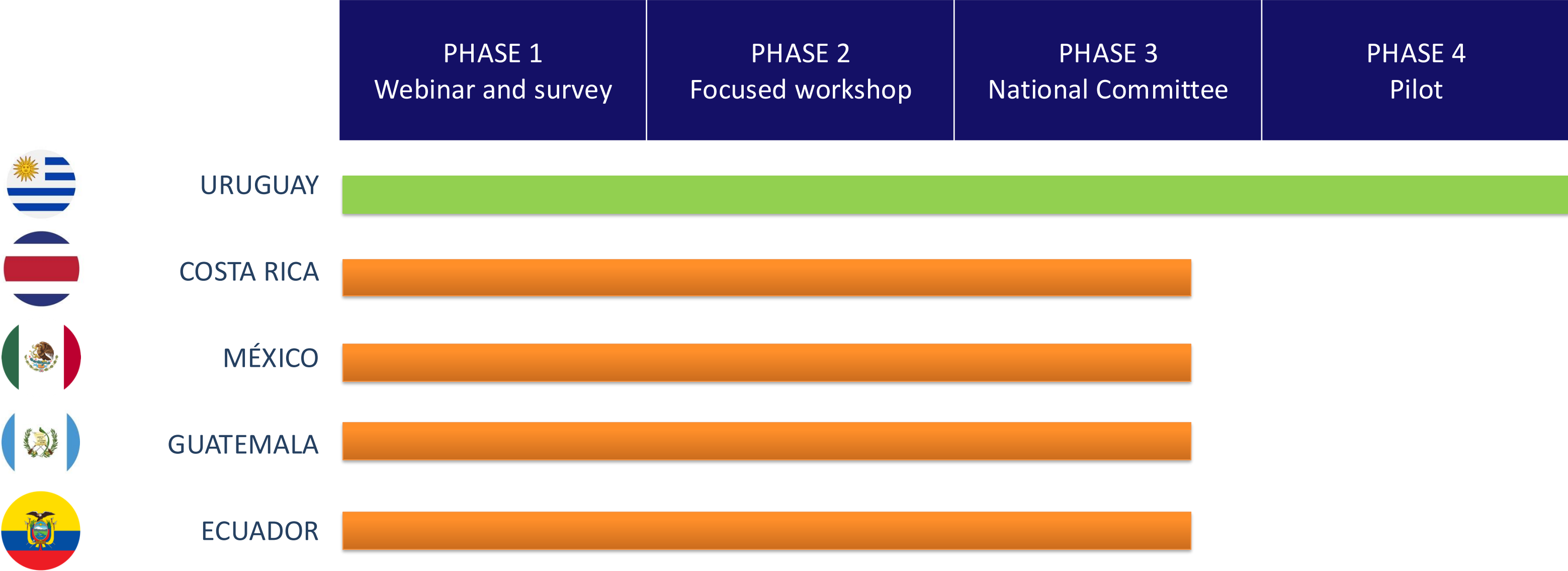
## RESULTS OF INNOVAINVEST

- 8 speakers
- 8 Innovators
- 7 Funders and articulators
- 11 panellists+ 30 attendees
- 2 visits to innovation centres
- Articulation by CAF, IICA, EUreCA and EU and Cathalac projects for the 5 concept notes presented.
- In-kind funding by ESRI Panama, Panal ED-Tech and SCALAC for the 3 products presented
- Press interviews at the event and 1 radio interview



OCTOBER 2024

- Copernicus
- + climate change
- + Agriculture
- + AI
- + Data processing





Let's stay connected



[colaboracion@redclara.net](mailto:colaboracion@redclara.net)

**RedCLARA**

Cooperación Latinoamericana  
de Redes Avanzadas

