



BELLA II

Building the Europe Link to
Latin America and the Caribbean

From sky to Earth:

the world we want to see
through the Copernicus
Academy satellites



BELLA II receives funding from the European Union through the Neighbourhood, Development and International Cooperation Instrument (NDICI), under agreement number 438-964 with DG-INTPA, signed in December 2022. The implementation period of BELLA II is 48 months.





RedCLARA is the ecosystem of cooperation for developing science, education, technology and innovation in Latin America and the Caribbean through the articulation, connection and strengthening of its National Research and Education Networks.





Copernicus

Europe's eyes on Earth





Copernicus in short

- 01** European Union program that monitors the Earth, its environment and ecosystems.
- 02** Helps prepare for crisis, security risks and natural or man-made disasters.
- 03** It has a full, free and open data policy.
- 04** In situ data = observational data from ground-based, airborne or maritime sensors, as reference and auxiliary data ground-based, maritime or airborne sensors, as reference and auxiliary data, authorized for use in Copernicus.



Copernicus Services



Atmosphere



Marine



Land



Climate Change



Security

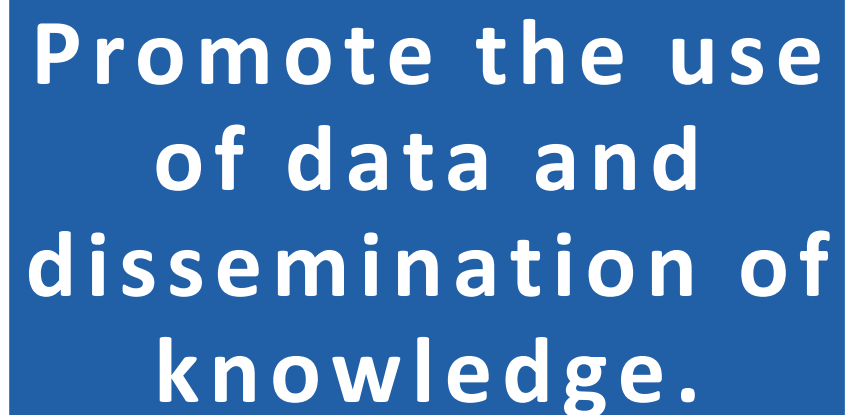


Emergency

Earth Observation Strategy

Aims to strengthen capacity building and knowledge management in the region in thematic areas of earth observation, articulating by RedCLARA with NREN of the region, involving organizations and programs such as Copernicus, GEO and AmeriGEO.







March 14, 2023: Launch of Digital Alliance: Signing of the Regional Agreement for the development of the Earth Observation Strategy in LAC



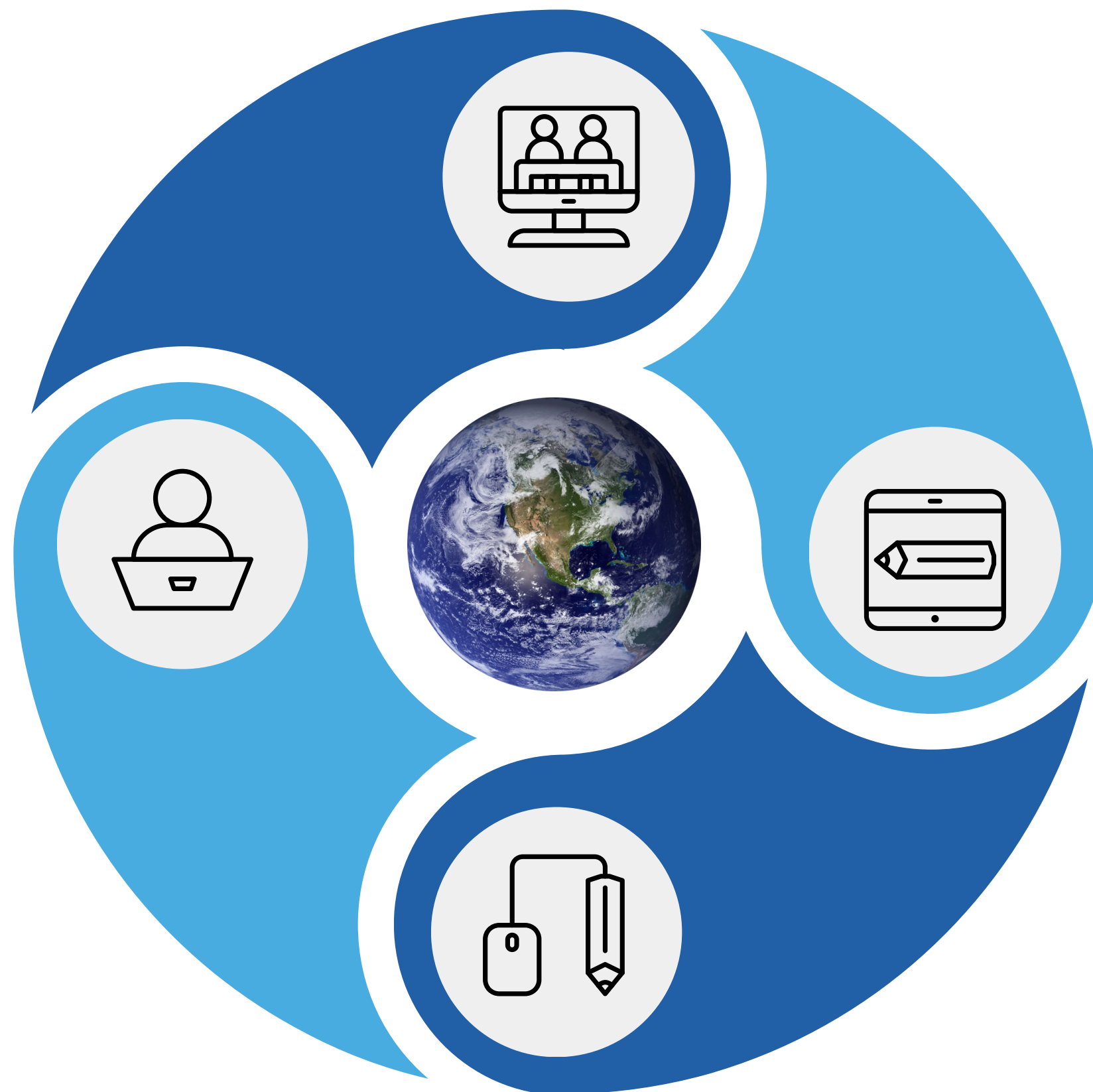
Copernicus LAC Academy





It is a network that enhances **capacity building and knowledge management** of thematic areas in **earth observation** and also **allows collaboration between the different actors of the digital ecosystem** (universities, research centers, private organizations, and government) in Latin America, the Caribbean, and Europe **to develop skills to train** researchers, scientists, professionals, and entrepreneurs with the right skills to exploit the full potential of Copernicus data and information services.





Goals

- 01** Capacity building and knowledge management to enable the adoption of Copernicus data in new sectors: academic, governmental and private.
- 02** Encourage the development of interdisciplinary training programs and the promotion of new competencies.
- 03** Articulate efforts between academia, government, companies and citizens to provide solutions through Copernicus to problems related to climate change, disasters, water and emergencies.
- 04** To make visible successful experiences of implementing the skills and knowledge developed with Copernicus Academy to solve the needs of LAC countries.



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**Which is the
first step?**





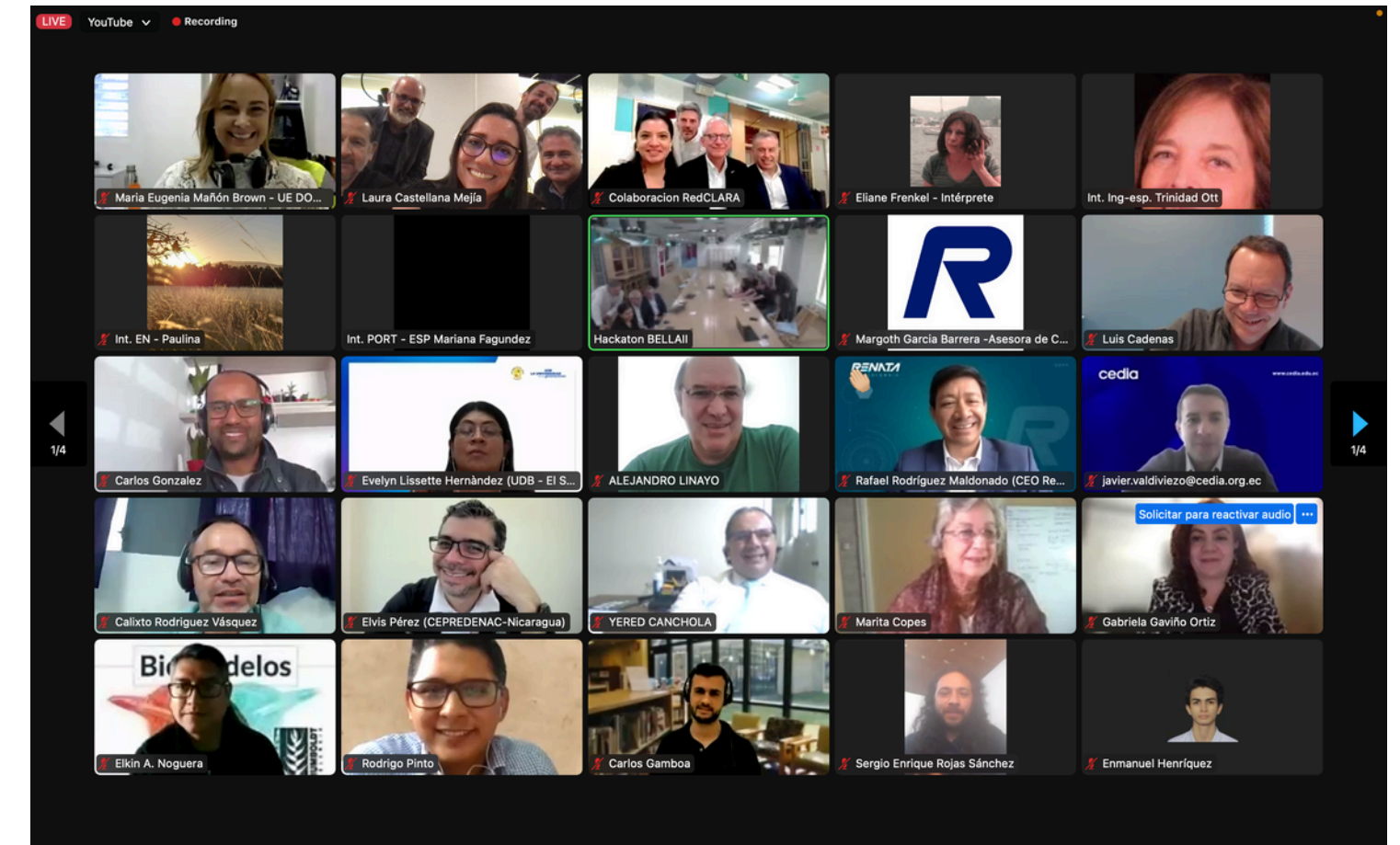
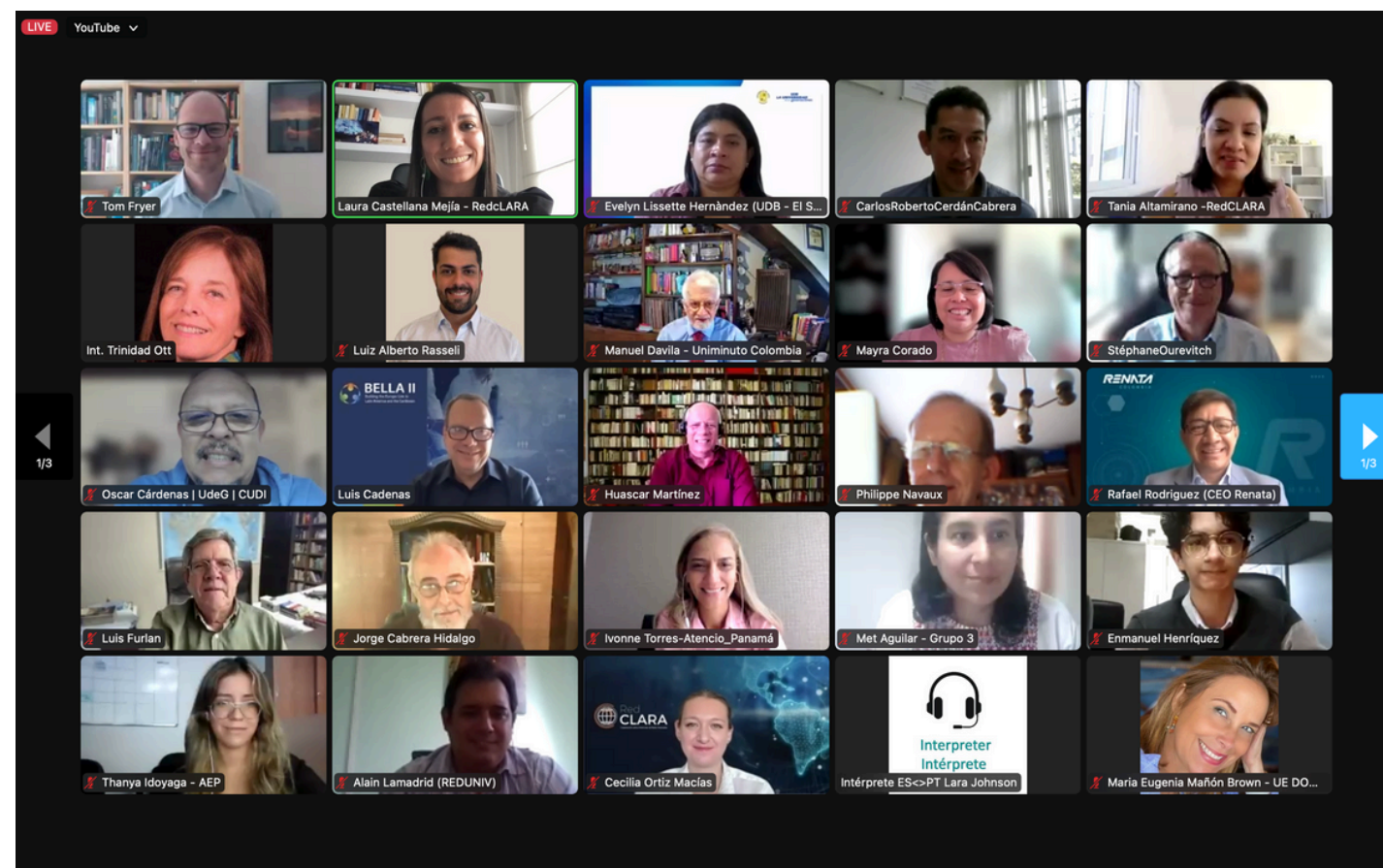
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Copernicus

Europe's eyes on Earth



Innovation activities:





BELLA Ideathon

Copernicus innovation challenge

Copernicus
+ Climate change
+ Agriculture
+ Artificial Intelligence
+ Processing data

- 82 participants
- 17 countrys LAC,
2 EU
- 8 groups
- 4 mentors
- 1 speaker
- 7 jurors
- 4 winning groups



BELLA Hackathon

Copernicus Innovation Development

Copernicus
+ Satellite Data
Interpreter
+ family agriculture

- 53 groups
- + 250 participants
- 14 countrys LAC, 2 EU
- 4 speakers
- 4 mentors
- 1 training
- 8 jurors
- 3 winning group



Outreach activities



From Heaven to
Earth: live
application of
Copernicus data
use.





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And then?





Copernicus Academy: local deployment





1

Stakeholder
webinar and
Survey

2

Specific
workshop

3

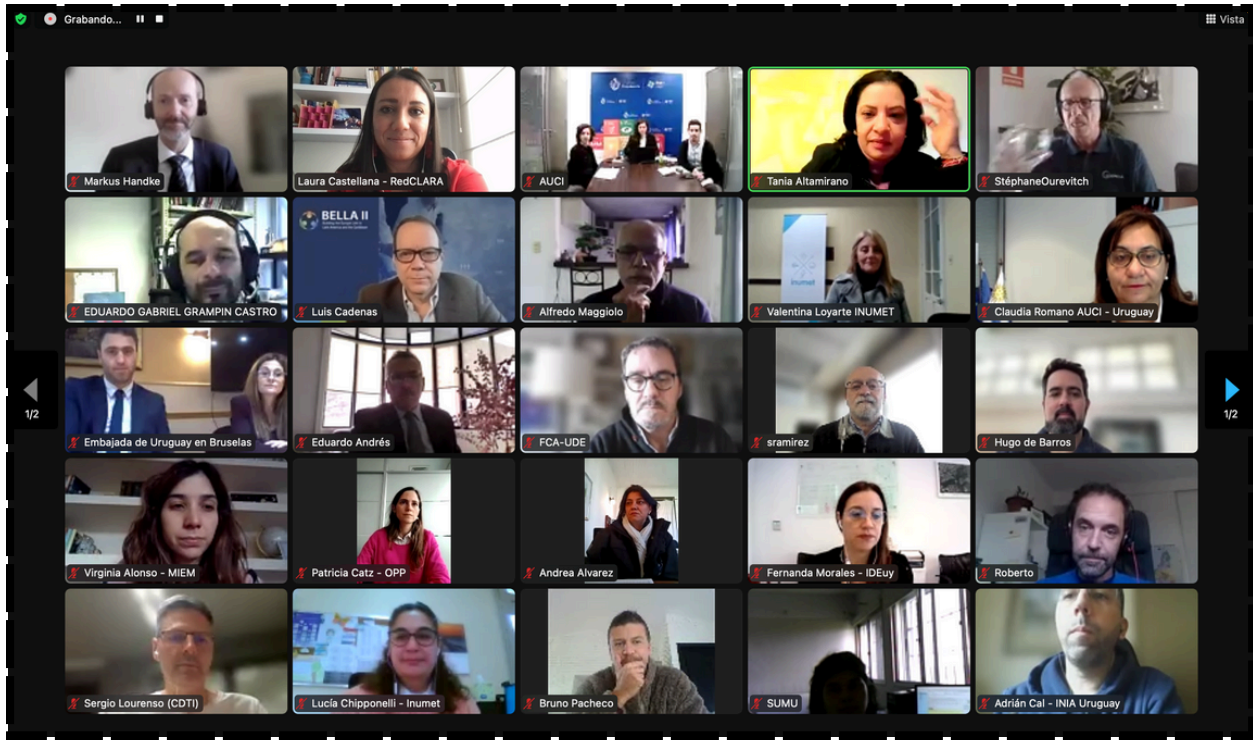
National
committee

4

Pilot



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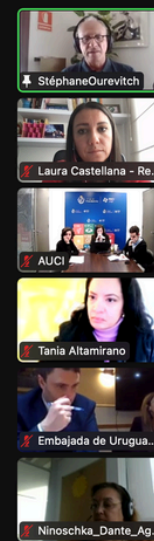
Los satélites SENTINEL

Misión y estado de Sentinel

 <p>SENTINEL-1: Resolución de 4-40m, revisita de 6 días ecuatorial</p>	1 satélite en órbita	<p>Características principales</p> <p>Imágenes de radar, órbita polar, todo tiempo, día y noche</p> <p>Imagen óptica multispectral de alta resolución, órbita polar</p> <p>Sensores ópticos y altimétricos para el control de los parámetros marinos y terrestres</p> <p>Carga útil para la vigilancia química de la atmósfera en el MTG-5</p> <p>Para reducir la falta de datos entre Envisat, y S-5</p> <p>Carga útil para la vigilancia química de la atmósfera en MetOp 2ndGen</p> <p>Altimetro de radar para medir la altura de la superficie del mar en todo el mundo</p>
 <p>SENTINEL-2: Resolución de 10-60m, tiempo de revisita de 5 días</p>	2 satélites en órbita	
 <p>SENTINEL-3: Resolución de 300-1200m, <2 días de revisita</p>	2 satélites en órbita	
 <p>SENTINEL-4: Resolución de 8 km, tiempo de revisita de 60 minutos</p>	Primer lanzamiento en 2024	
 <p>SENTINEL-5p: Resolución de 7-68km, revisita de 1 día</p>	1 satélite en órbita	
 <p>SENTINEL-5: Resolución de 7,5-50km, revisita de 1 día</p>	Primer lanzamiento en 2024	
 <p>SENTINEL-6: Tiempo de revisión de 10 días</p>	1 satélite en órbita	

6





Stéphane Ourevitch

Laura Castellana - Re...

AUCI

Tania Altamirano

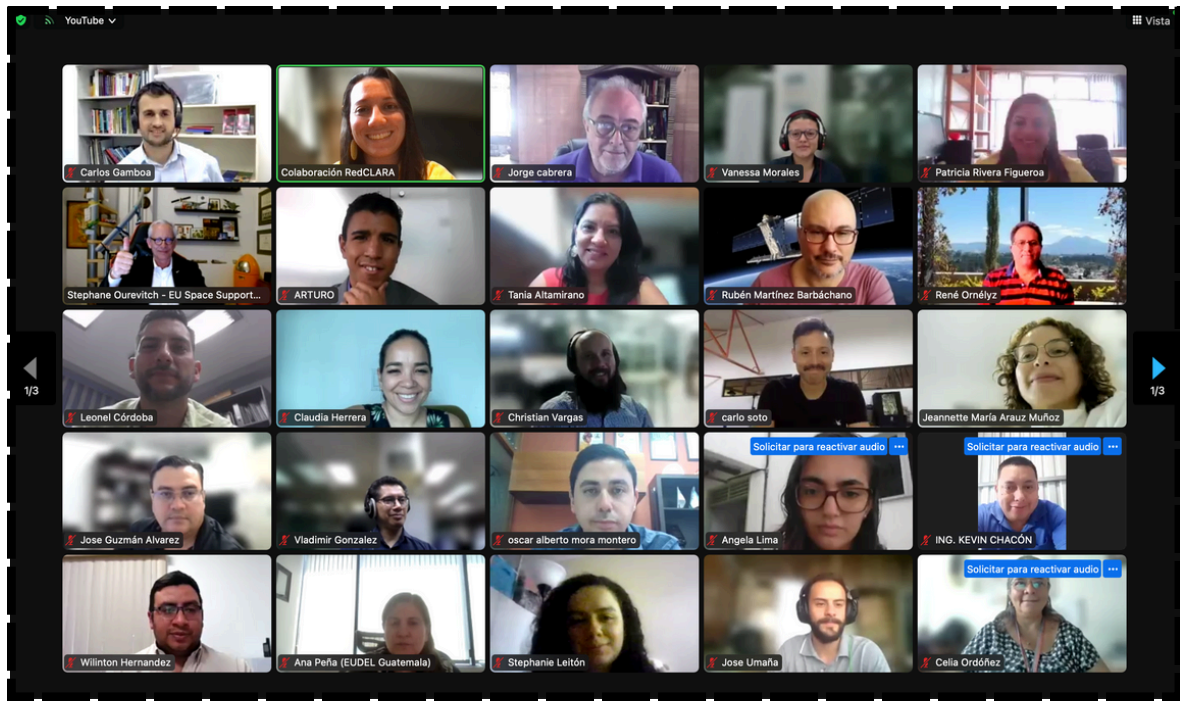
Embajada de Urugua...

Ninoschka_Dante_Ag...



Uruguay





Costa Rica



RedCLARA

Cooperación Latinoamericana de Redes Académicas

Academia Copernicus América Latina y Caribe

Laura Castellana
Coordinadora de proyectos académicos

Martha Avila - CUDI

Tania Altamirano López

Oscar Cárdenas | CUDI | UdeG

Stephane Ourevitch - EU Space Support...

Luis Cadenas (RedCLARA)

Laura Castellana - RedCLARA

Grabando... ES

Un participante ha habilitado los subtítulos ¿Quién puede ver esta transcripción? Grabación activada

Moises Torres Martínez

Luis Cadenas (RedCLARA)

Laura Castellana - RedCLARA

Martha Avila - CUDI

Oscar Cárdenas | CUDI | UdeG

Stephane Ourevitch - E...

Tania Altamirano López

Eduardo Romero | VC...

Jorge Cabrera

Marco Tulio A...

Arturo Legar...

Fátima Robles

Julio Flores

Liliana Valencia

Malvina Hort...

Moises Torres Martínez

Luis Cadenas (RedCLARA)

Logo CUDI

Corporación V... para el Des...

Reactivar audio

Detener video

Seguridad

Participantes

Compartir pantalla

Iniciar resumen

AI Companion

Reacciones

Levantar la mano

Aplicaciones

Pizarras

Notas

Más

Abandonar

Ourevitch - ...

Laura Castellana - Re...

Martha Avila - CUDI

Oscar Cárdenas | CU...

Luis Cadenas (RedCI...

Tania Altamirano López

Moises T...

Cabrera

Pedro Damián Cruz S...

Marco Tulio Aldana P...

Arturo Legarda Sáenz

Fátima Robles

Liliana Valencia

Malvina H...

Introducción a Copernicus

Stéphane Ourevitch
Copernicus Support Office
support@eospace-programme.eu

Copernicus EU

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Grabando... ES

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Moises Torres Martínez

Tania Altamirano López

Eduardo Romero | VC-CUDI

Iliana Pérez

Nora García

Guillermo Valencia Pacheco

Luis Ivan Ruiz Flores

Marco Tulio Aldana Prillwitz

Fabiola Sánchez Guevara

César Daniel Ugalde Sánchez

Francisco AQUINO

Jorge Cabrera

Gabriel Salinas Calleros

Jacobo Medina

Crhys Torres

Corazón De la Tierra

Mercurio Ceballos

Malvina Hortensia de León Méndez

MARILYN ROJAS

Lizett Núñez

De Hugo Villaseñ...

Gracias

Solicitar para reactivar audio

Solicitar para reactivar audio

Solicitar para reactivar audio

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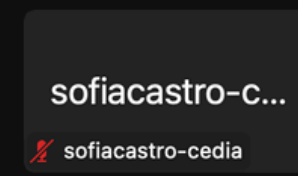
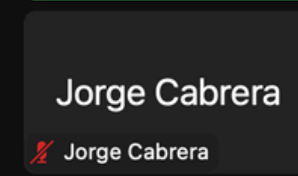
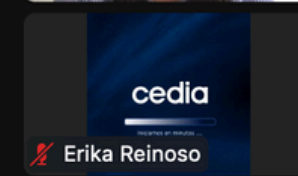
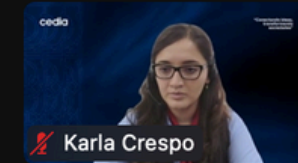
Más

Abandonar (XV)

Abandonar

México

Ecuador





Guatemala



Bolivia





RedCLARA Countries 2024 - 2025



Colombia
RENATA



Brazil
RNP



Guatemala
RAGIE



Ecuador
CEDIA



Countries 2024 - 2025



Cuba



**Dominican
Republic**

Laura Castellana Mejía

Academic projects
coordinator
RedCLARA



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