



Factores como
el cambio climático +
la creciente demanda
de alimentos

CARBONO INTELIGENTE - BIODIVERSIDAD

46,6% de los bosques del mundo se concentran en América Latina y el Caribe. **COP27:**

EDUCACIÓN:

Informe PISA de la OCDE, muchos países de América Latina estaban por debajo del promedio mundial en lectura, matemáticas y ciencias.

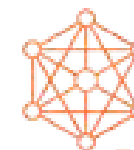
TRANSFORMACIÓN DIGITAL AGRO + EMPRESAS (INDUSTRIA 4.0):

Alta dependencia de desarrollo internacional.

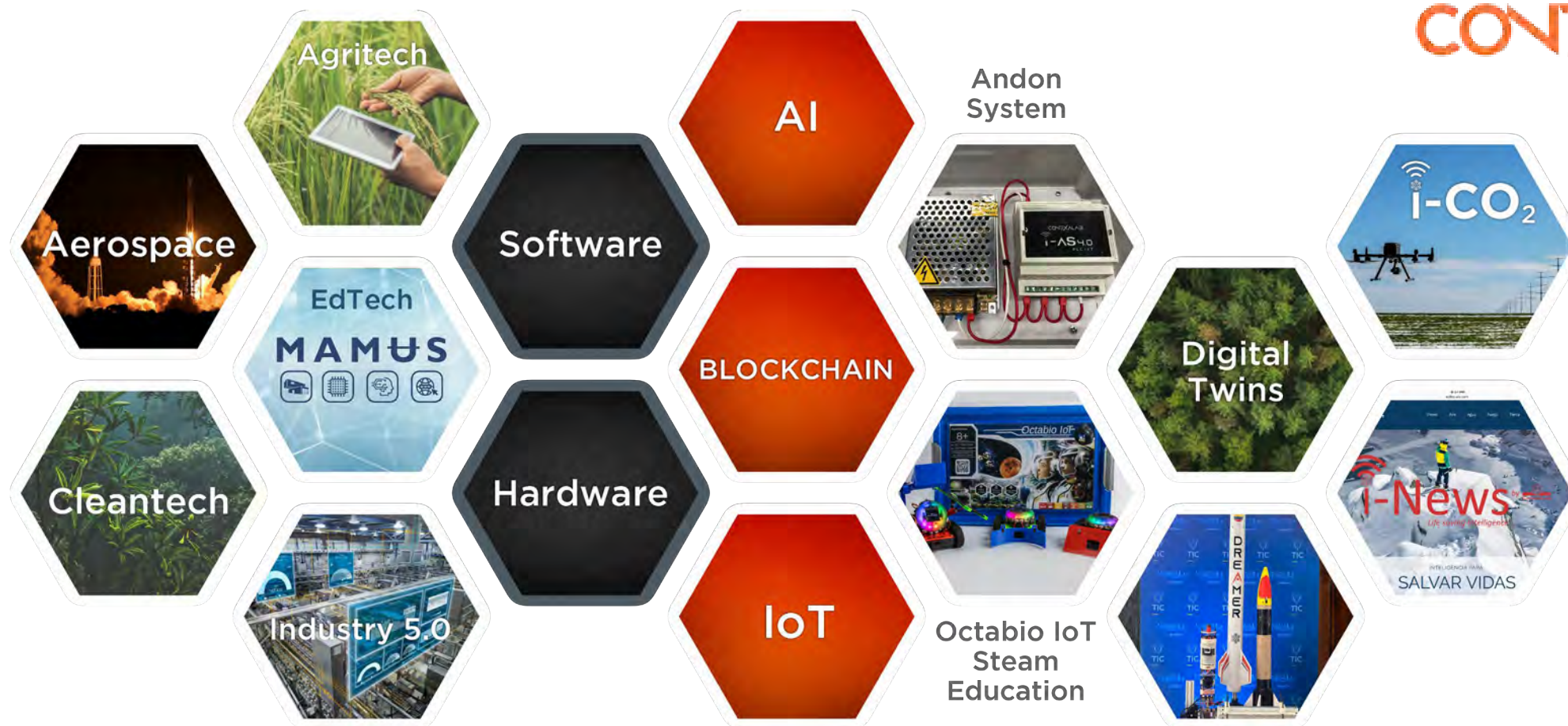


70%

Aumento en la producción
de alimentos para el 2050
FAO



CONEXALAB
Advance the future



Alianza
**Carbono
Neutralidad**



ANDI | **MÁS PAÍS**

CÁMARA DE EMPRENDIMIENTO Y
ACELERACIÓN - ANDI DEL FUTURO

CONEXALAB
Advance the future





IMPACTS

4 SDGs positively impacted

+ 2 mm
of people positively impacted by our solutions

SDGs Impacted

- 13 Climate action
- 9 Industry, Innovation and Infrastructure
- 4 Quality Education
- 1 No Poverty



8 Startup

+ Innovative Business Innovation Ranking 2022 Colombia

1 100OPEN Innovation Ranking –Category Edutech 2022



1 Startup

70 National 2022

4 Company (Santander 22)



MAMUS

Innovation project selected in the call for proposals 616 of 2020

Sustainability program aerospace focus with 2 aerospace missions

Dreamer y Legacy

3 Countries Colombia Brazil Guatemala



+3 developed hardware tools



+8.734 children and youth trained

+178 Trained teachers



AWARDS AND RECOGNITIONS

Certification STEM
ConeXaLAB + Mamus + Octabio
(Stem.org – SA 2023 - 2024)

Winner
Santander Innovators Award - Education 2021 category

Winners
Innovate Ecopetrol - UNIRED /22
AceleraTec 2021
Ecopetrol – CCB

Colombia Productive
Sena Innova I y II





MAMU MARS MISSION



Mamus Misión Marte

La brecha tecnológica es una de las mayores barreras para el desarrollo social. Nuestro propósito superior es hacer herramientas que eleven la calidad de vida. Por eso creamos a **MaMus**, nuestro programa de sostenibilidad, para reducir esta brecha apoyando a niños y jóvenes en su formación a través de desarrollo de capacidades STEAM enfocado a los desafíos de la de la 5ta revolución industrial y la era espacial.





Mamus Misión Marte

Misiones Aeroespaciales



2023LASC
LATIN AMERICAN
SPACE CHALLENGE
AUGUST 24 - 27, 2023
CAPE CANAVIAL, FLORIDA



El proyecto incentiva a niños y jóvenes, en el mundo aeroespacial a través de la desarrollo de la misión Dreamer. La misión busca desarrollar un cohete con capacidad de apogeo 500mts a 1km y un nanosatelite.

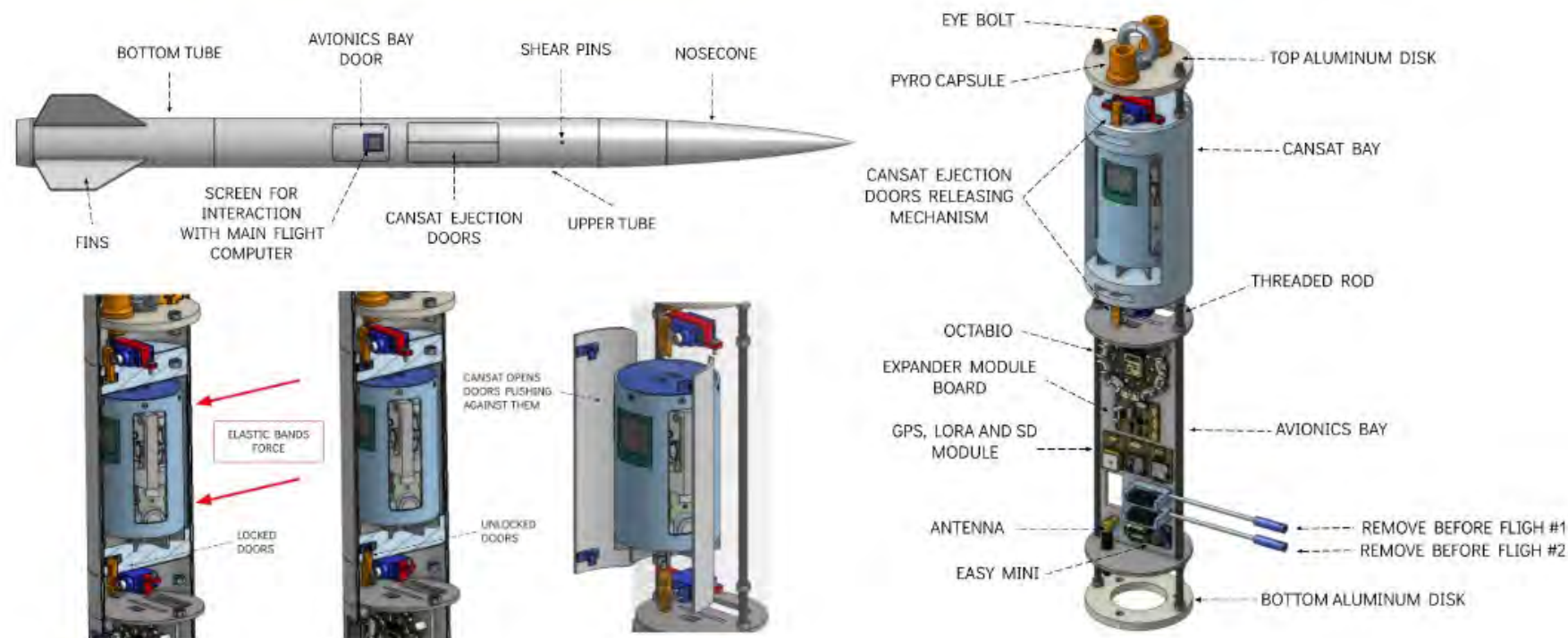
Dreamer I desarrollo el prototipo OctabioSAT, un nanosatélite tipo Cansat que mide variables atmosféricas y esparce semillas para reforestar las zonas cercanas a su aterrizaje.



OctabioSat is an educational CanSat developed with Octabio which is the brain of an IoT robotics kit that incorporates a variety of sensors and actuators, this Octabio communicates with another on the ground station through LoRa to send flight data, location (GPS), atmospheric variables such as CO2, Humidity, temperature, among others.



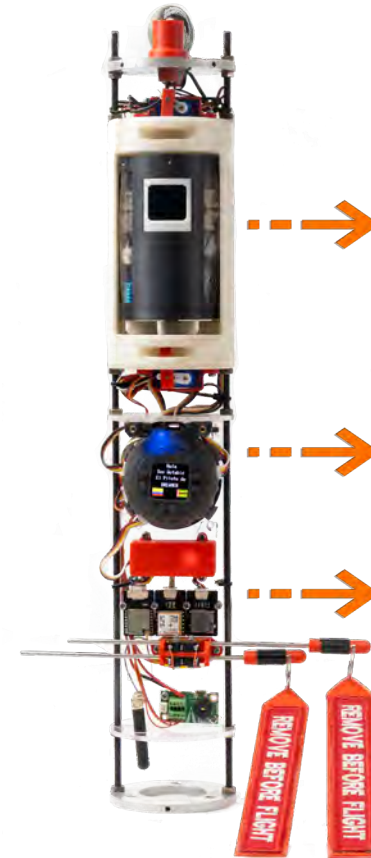
Diseño de Cohete Dreamer



ROCKET CONTROLLED BY OCTABIO

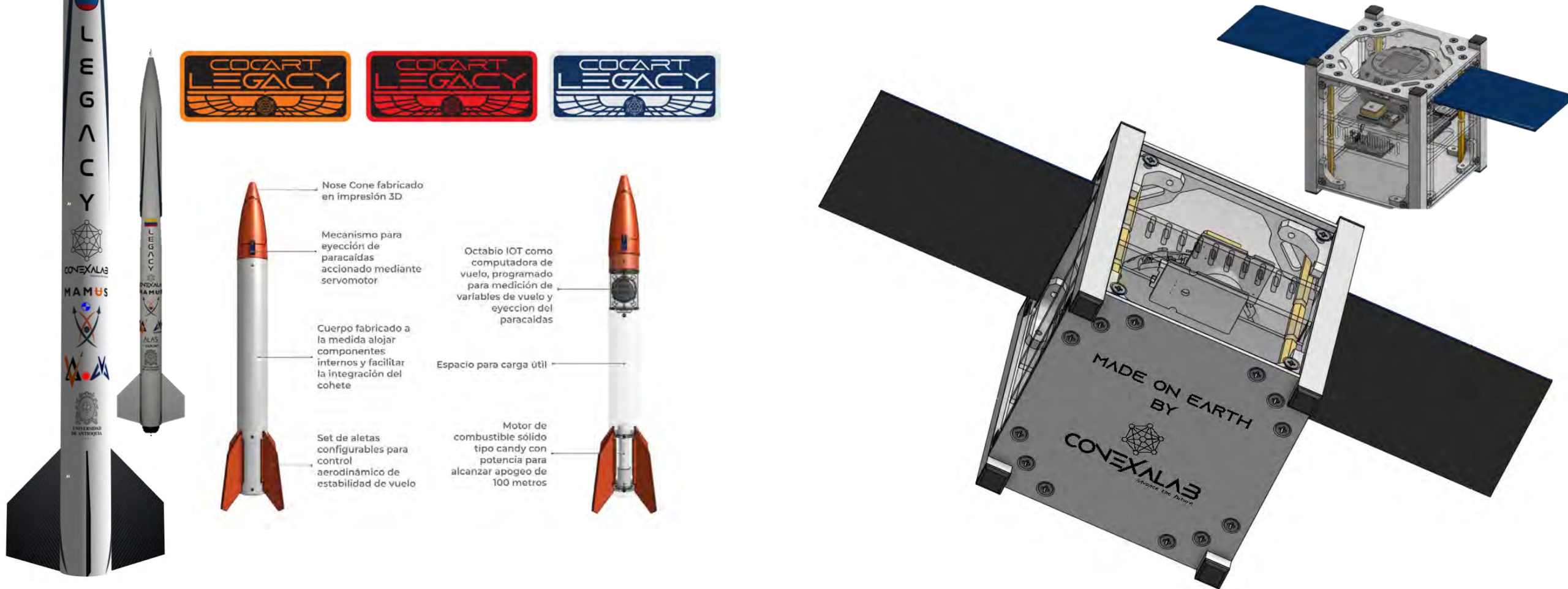


Octabio is the flight computer of the Dreamer rocket. It collects data from atmospheric variables such as temperature and pressure, and is also responsible for transmitting telemetry data from the rocket to the ground. Its main function is to detect the apogee of the rocket, which is the maximum point of the trajectory, and deploy the parachute to enable its safe recovery.



2025-2026

Legacy Mission is not just about launching a rocket; it's about continuing the launch of a dream. It's about igniting a passion for aerospace throughout Colombia, inspiring a new generation of scientists, engineers and explorers. We are creating a future in which Colombia will be a key player in the global aerospace arena, and Legacy is a crucial step in bringing this vision to life. Legacy is a joint project between **ConeXalab** and the aerospace seedbed [Volta of UDEA](#), where collaborative work invites us to infinity and beyond.





Gracias

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