

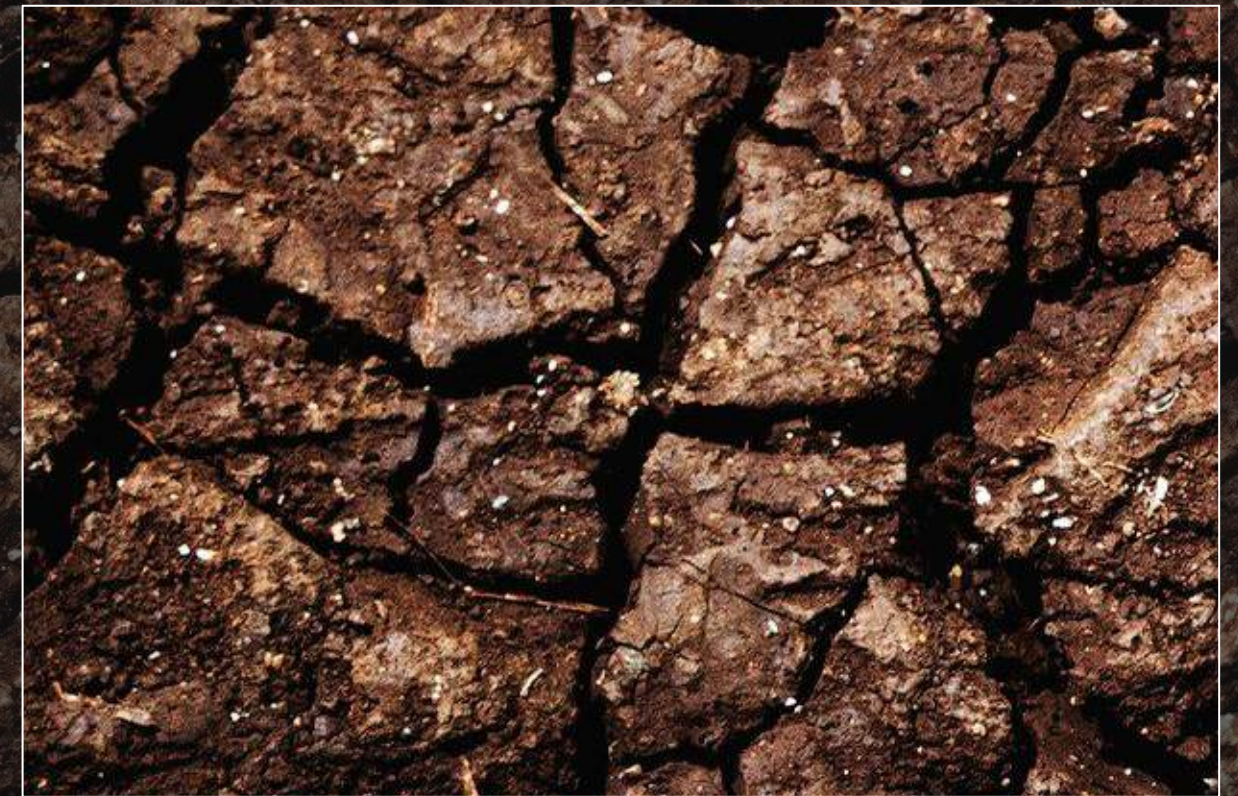
Nunatak Biotech

with nature on our side

SOIL DEGRADATION & CLIMATE CHANGE

LOSS IN LAND PRODUCTIVITY

- > 1/3 of agriculture land is degraded
- > 490B USD annually
- > Increasing adverse and stress conditions



AGRICULTURE INDUSTRY

UNTAPPED POTENTIAL

Biologicals **enhance soil health and crop resilience** with biofertilizers, biopesticides, and biostimulants.

- > Focus on fertile soils
- > Lack compatibility with other products
- > Limited microbial diversity



EXTREME BIOTECHNOLOGY

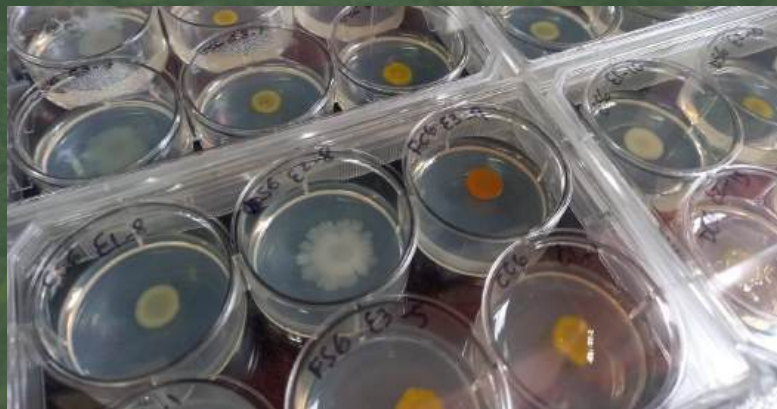
- > Scientific team with 20 years of experience in Antarctica
- > Specialists in bacteria and fungi bioprospecting and plant-microorganisms associations



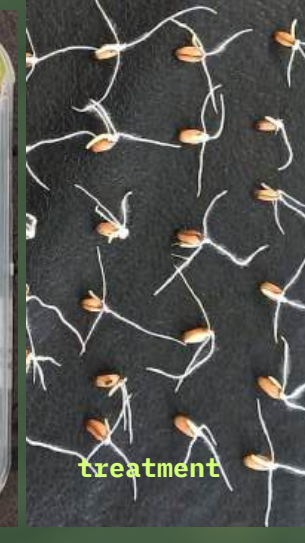
We decoded how **this grass survives** in antarctic conditions

SYMBIOSIS PLATFORM

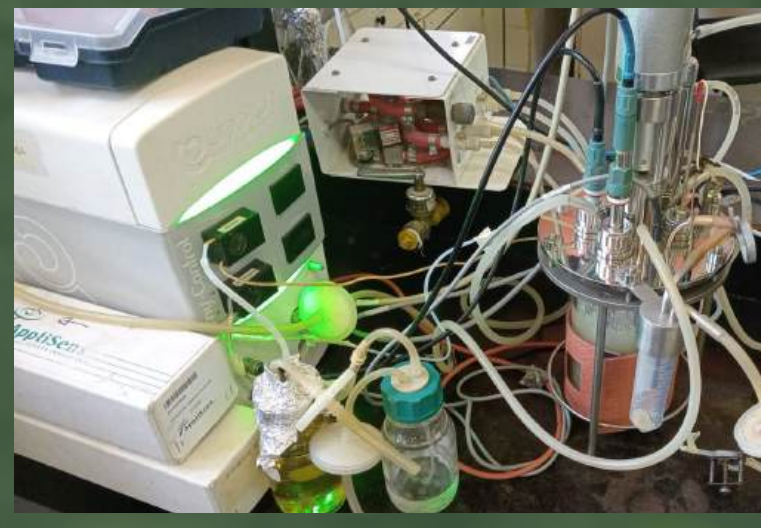
EXPLORING MICROBIAL FRONTIERS



PLANT-MICROORGANISM INTERACTION



PRODUCT DESIGN

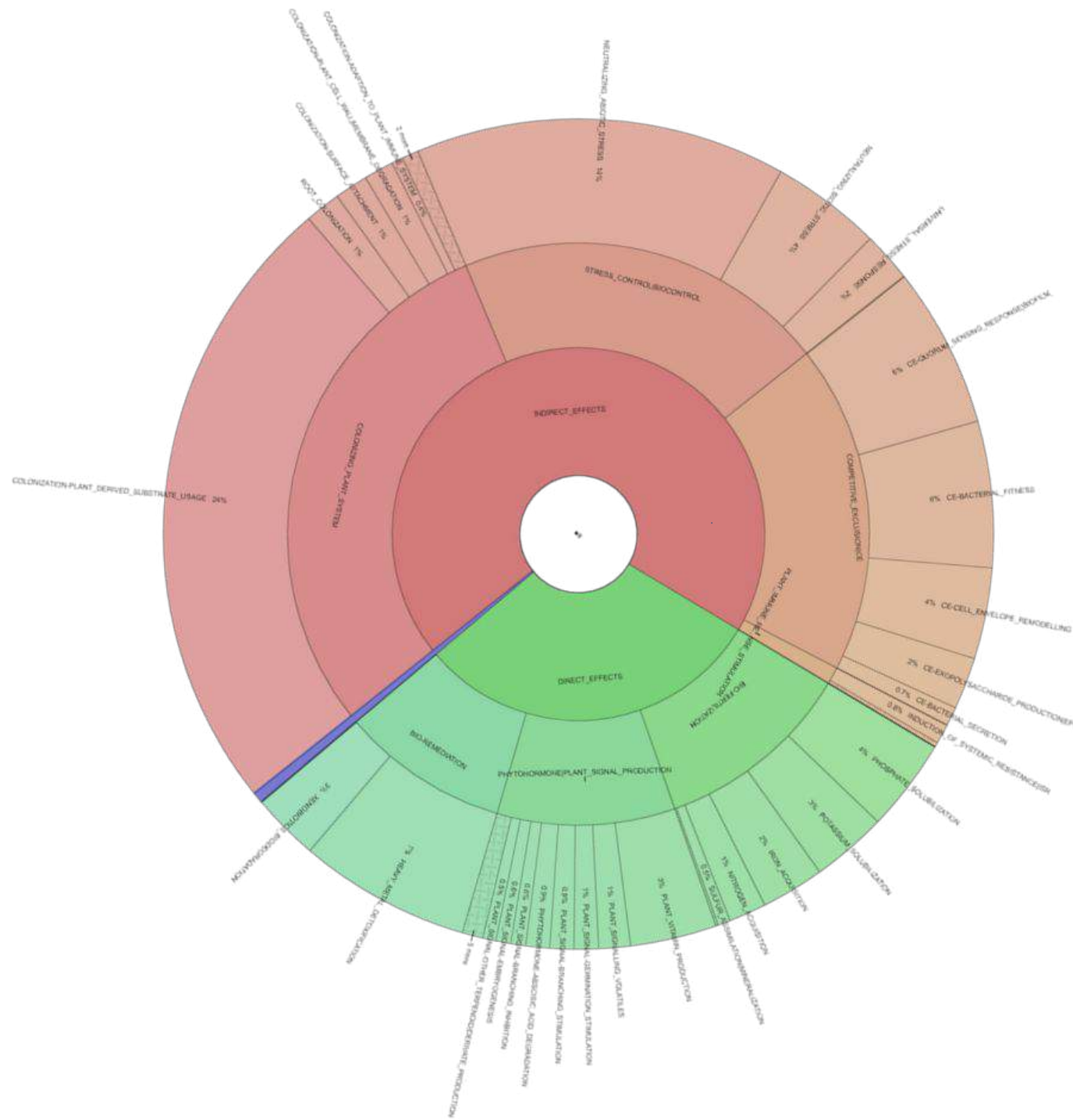


PRODUCT TEST, REGULATORY AND LAUNCH



BIOINFORMATICS TO ADDRESS BIOLOGICAL COMPLEXITY

- > Tools to enhance microbiome functions for crop stress adaptation.
- > Whole genomes analysis and microorganism functionalities for product design.



MARKET OPPORTUNITY

\$15.8B

Global biologicals market (TAM)

CAGR 10%

\$4.5B

Biologicals for
gramineas (SAM)

\$470M

USA, Canada,
Argentina
(SAM)

1ST PRODUCT (TRL7):

Biofertilizer YAMANA

Microorganism consortium for seed and foliar treatment

> Field trials preliminary results:

2.2-11.3% ↑ in yield and 30% more root development

> Crops: wheat and barley (potential use in corn and pastures)

> Provisional patent USA & PCT

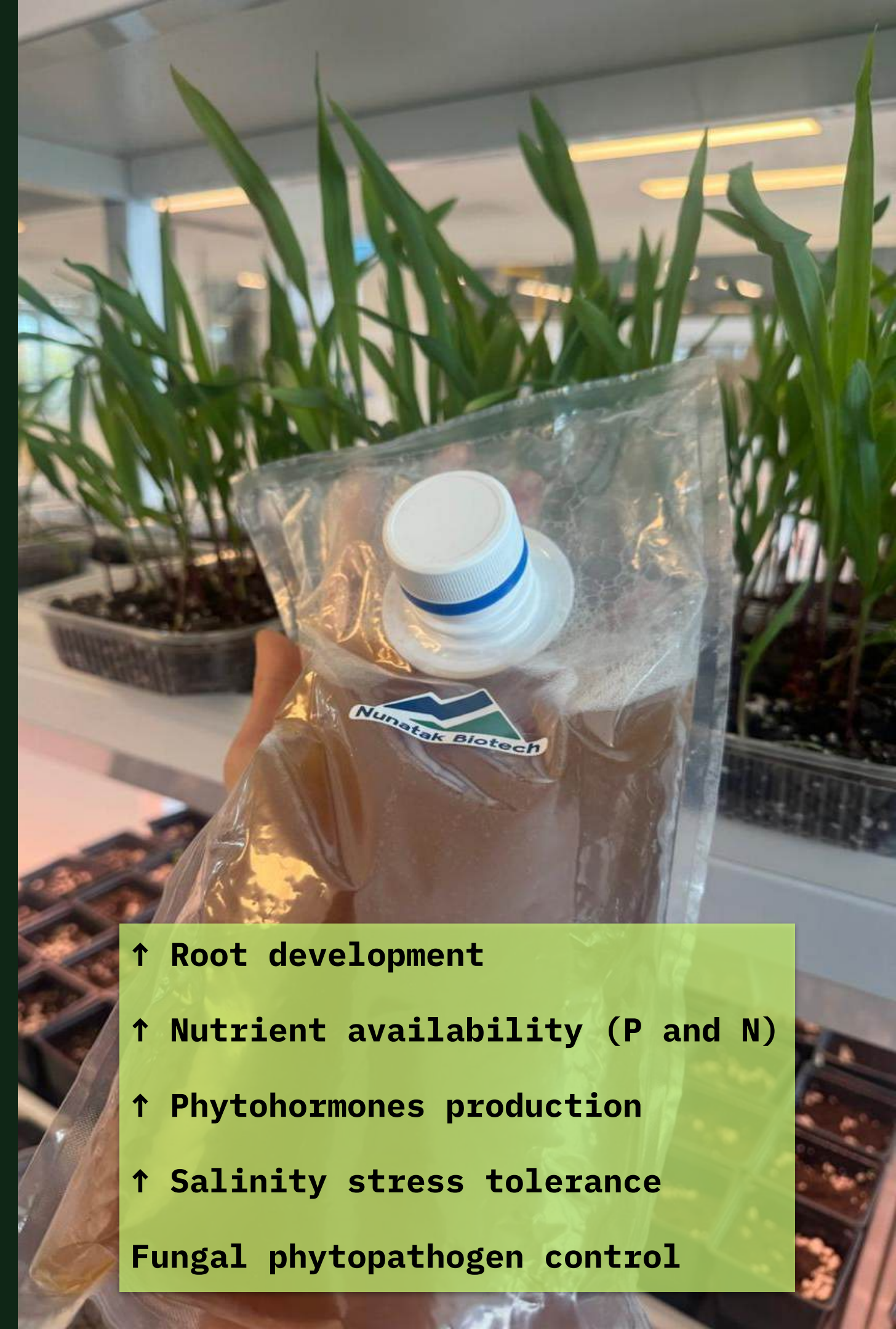
↑ **Root development**

↑ **Nutrient availability (P and N)**

↑ **Phytohormones production**

↑ **Salinity stress tolerance**

Fungal phytopathogen control



INCREASING CHALLENGE

SOIL SALINITY

- > 10 % of global soils
- > 20-50% of irrigated land
- > Impact: ↓ soil fertility and food production
- > Economic loss: up to \$27.3B/year

YAMANA potential

↑ germination

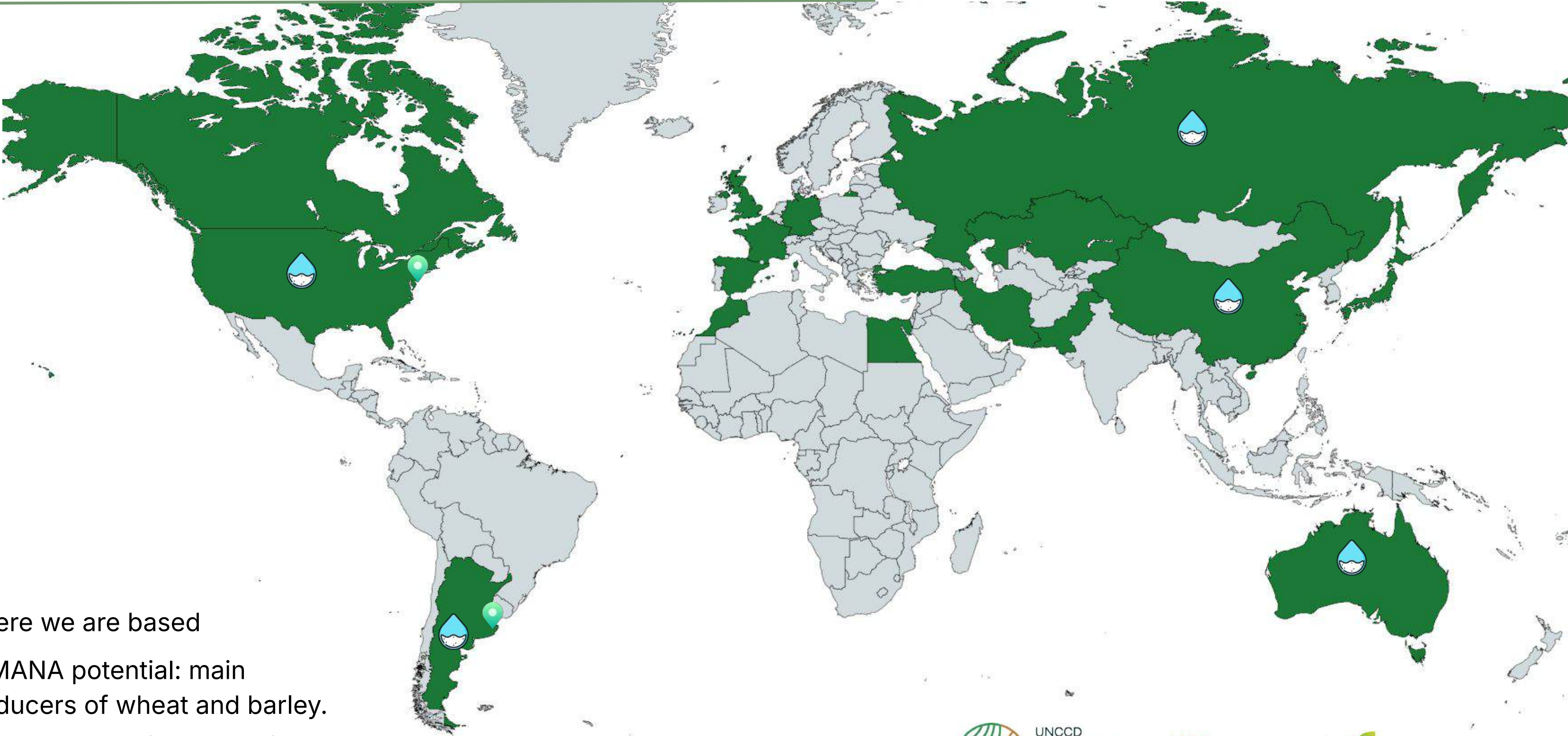
↑ biomass




↑ grain yield

Better plant establishment



GLOBAL IMPACT



-  Where we are based
-  YAMANA potential: main producers of wheat and barley.
-  YAMANA potential: Countries more affected with salinity soils

Invited to showcase at



YAMANA is just the beginning

- > Focus on adverse soils conditions
- > Nunatak's extreme sampling campaigns:
 - Cold tolerance
 - Salt tolerance
- > Constantly growing strain collection

400 MICROORGANISMS

bacteria | fungi | actinobacteria



R&D Nunatak

TRL : Technology Readiness Level

TRL 1 Principles	TRL 2 Concept	TRL 3 Proof	TRL 4 Validation	TRL 5 Environm.	TRL 6 Demonst.	TRL 7 Prototype	TRL 8 Qualified	TRL 9 Operation
	<p>Seed treatment of pastures</p> <p>Carry over mitigation</p> <p>Biostimulant based on metabolites</p>	<p>Foliar Nitrogen biological fixation</p>		<p>Biofertilizer pastures in saline soil</p> <p>Remediation solutions</p>		<p>Biofertilizer wheat and barley YAMANA</p>		

B2B MODEL

Ideal Customer Profile:

- > Fertilizer, chemical, and biological companies
- > Agriculture Retailers

Revenue model:

- > Technology licensing
- > Supply of final product

UNIQUENESS

- > Bioprospecting expertise
- > Plant-microorganism symbiosis
- > Focus on adverse environmental conditions
- > 20 years of Antarctic scientific experience



Nunatak vision

The extreme bioinput powerhouse

- > Provide microbial solutions for salinity soils
- > Driving impact with strategic alliances, co-developments and tech licensing.
- > Beyond agriculture, provide microbial solutions to solve environmental challenges

Our TEAM



Julia Mensa

/ CEO - co-Founder

Business and international relations



Martha Martorell, PhD

/ COO - co-Founder

Mycology and bioprospecting



Federico Cá

/ Team

Biotechnology analyst



Laura Recalde

/ Team

Plant-science analyst



Fran Massot, PhD

/ CTO - co-Founder

Bacteriology and plant-science



Lucas Ruberto, PhD

/ R&D Head - co-Founder

Environmental Biotechnology



Lucas Borque

/ Team

Biotechnology assistant



Lucía Núñez

/ Team

Biotechnology assistant

FUNDRAISING

1.5M USD

Milestones:

- > Initiate field trials and registration process in key new regions
- > New product development
- > R&D deals with larger companies



Thank you!
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