

NPP Natural Plant Protection by UPL

Company transformations from chemistry to biology

- Ezio Costa, NPP BU Leader

Annual BioControl Industry Meet, Basel, Switzerland. 25th October 2022



Our Purpose drives everything we do

UPL

OpenAg[®]

Reimagining Sustainability with an open network to
create sustainable growth for all –
no limits, no borders.

We are changing the game

Making every single food product more sustainable

Our Challenge

People

Worldwide, 500 million smallholder households live on less than \$2 per day.

World bank

Planet

Agricultural activity is the source of 30% of global Greenhouse Gases.

Farm Carbon Toolkit

Patterns

Each year, 1.3 billion tons of food goes to waste globally.

FAO

Pests

Rice blast is responsible for ~30% of rice production losses globally — the equivalent of feeding 60 mn people.

FAO

By the next century, 11bn people will need to eat 33bn meals per day.

WRI

Agriculture accounts for 70% of water usage worldwide.

OECD

Agricultural production is limited by the increasing scarcity and diminishing quality of land and water resources

FAO

A single swarm of locusts can eat the same as 35,000 people every day.

World Bank

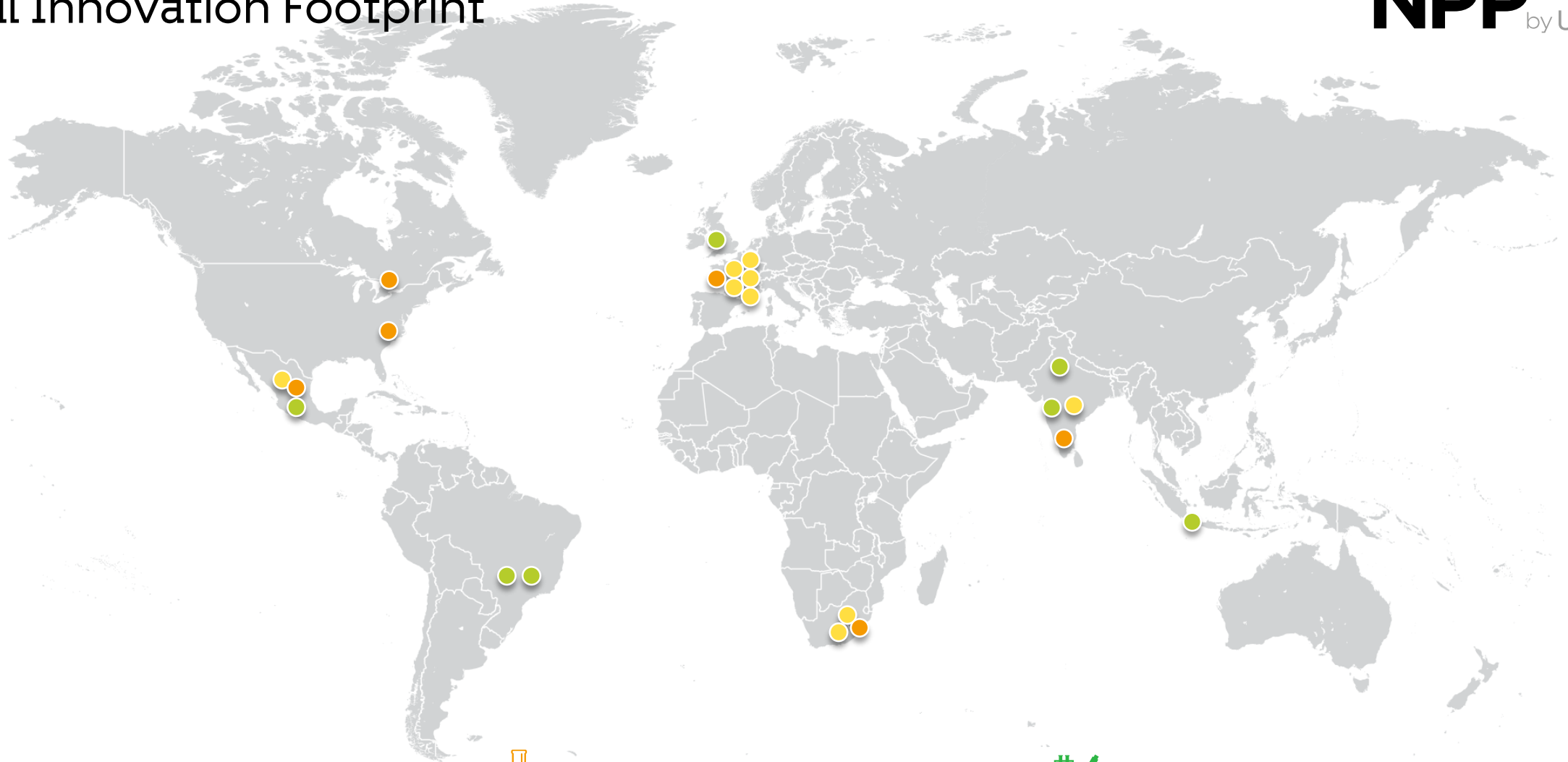


The world in perfect balance



At NPP, we reimagine the micro impacts of biosolutions to create a macro impact – contributing in measurable ways to food security, farmer resilience and the environment.

Global Innovation Footprint



9 Manufacturing Sites

- Cerexagri, France
- Goemar, France
- NPP, India
- NPP, France
- GBM, Mexico
- Stimuplant, South Africa
- Veriosis, South Africa



6 Labs

- NAT Lab, Cary, USA
- Guelph lab, Canada
- GBM, Saltillo, Mexico
- Veyrios, South Africa
- Laboratories Goemar, St. Malo & Pau, France
- NPP Bangalore, India



7 Experimental Centres

- Abasolo, Mexico
- Ituverava, Brazil
- Pereira, Brazil
- Shray Hill, UK
- Karnal, India
- Pune, India
- Karawang, Indonesia



One global brand

NPP

Natural Plant
Protection



Capabilities:
Plant extracts – Acids –
Folcysteine - Hormones



Capabilities:
Seaweed extraction/
concentration
expertise



Capabilities: Formulation
R&D
superior, user-friendly
copper and sulphur
formulations

3 Manufacturing
sites in France



Capabilities:
Microbials
>
Inoculants



Capabilities:
Microbials
>
Soil Health



NATURAL PLANT
PROTECTION
France

Capabilities:
Microbials
>
Bio-Insecticides



NATURAL PLANT
PROTECTION
India

Capabilities:
Fermentation platform
>
Microbials and
Metabolites for biocontrols
and biostimulants

BioControl and Plant & Soil Health categories

Biocontrol

Focus on Biocontrol Solutions



Weed Management

Natural herbicides to protect your crop



Disease Management

Natural fungicides for healthier crops



Pest Management

Natural insecticides with low ecosystem impact



Soil biocontrol

Natural protection from diseases and pests

Plant & Soil Health

Focus on Plant & Soil Health Solutions



Nutrient availability

Naturally boosting how your crops use nutrients



Water Management

Natural products for more yield with less water



Soil Health

Naturally improving your soil for better crops



Seed & plant stimulation

Natural help through the plant life cycle for better yields



Abiotic Stress Management

Naturally maintaining crops in extreme conditions



Integrated crop health

Proactive, protective, profits

Our pioneering programme integrates bio and conventional solutions to improve crops around the world, meaning greater efficiencies, yields and profits – delivered more sustainably.

Integration Pioneers

pronutiva[®]
Crop Protection + BioSolutions

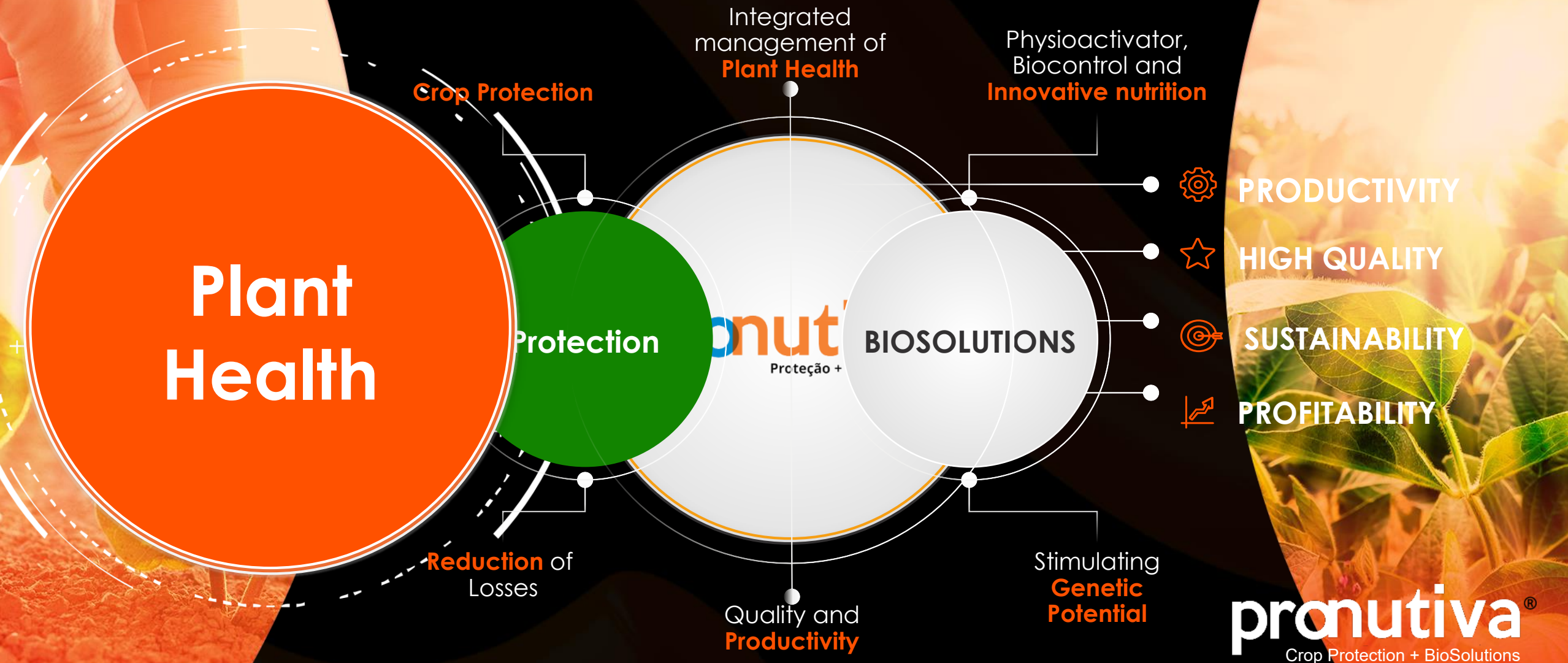
Since 2009, UPL offers integrated crop health solutions through the ProNutiva[®] programme – combining targeted conventional crop protection and Biosolutions for increased crop and soil health. Higher yields, healthier crops with lower residues. Available through UPL's global distribution network.

UPL
OpenAg[™]



Plant Health is: **Pronutiva**

An EXCLUSIVE UPL PROGRAM



pronutiva[®]
Crop Protection + BioSolutions

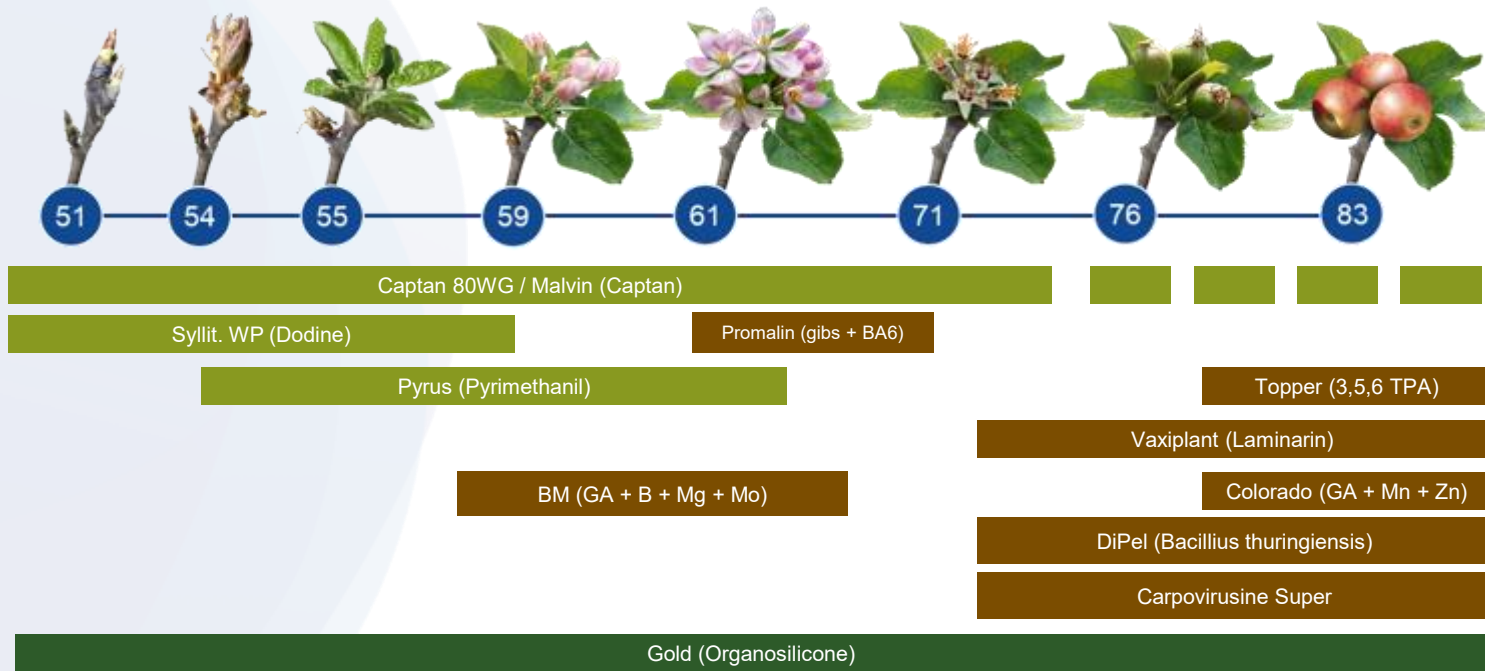
Examples & Application: Apple Program

+15% Average Yield Increase

+34% Average Russet Improvement

+13.5% Average Color Improvement

-25% Average Residue Reduction



= PGR's
 = Fungicide
 = BioControl
 = BioStimulant



Examples & Application: Soybean

Seed Treatment

Selectivity

Pre-Closing

Flowering

Grain Filling

BIOZYME

FOLTRON

FOLTRON

FOLTRON

POLIQUEL

GLYPHOTAL

TRIDIUM

UNIZEB

START

SELECT

VITAVAX

K FOL

SPERTO

+10%
PROFITABILITY

+13%
YIELD

PURPOSE

Focus



Thank you

