

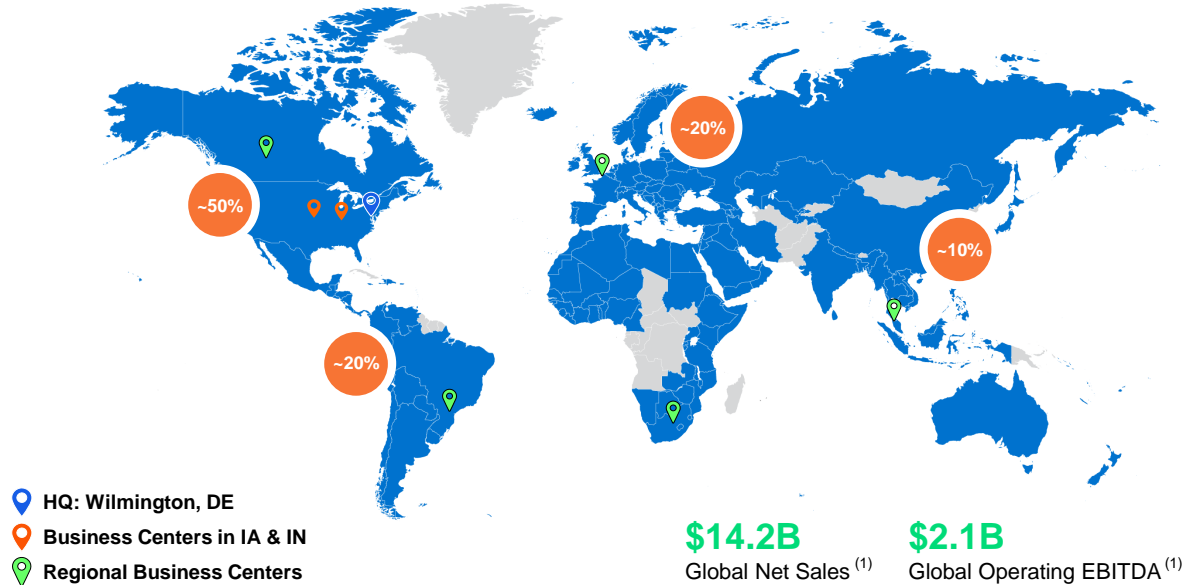
“This presentation covers a snapshot of the crop protection industry view of new biologicals developments and how R&D investments are contributing to these achievements. In this context the presenter also gives an overview of the latest farmers experience feedback accessing these new technologies and mindset change of key industry stakeholders’ in the direction of development of more sustainable solutions. The fast ramp up of the launch and penetration of the seed treatment biological offers demonstrate the successful outcome across Europe.”

Future industry innovations towards more sustainable solutions

March 28th 2022

Corteva Agriscience Global Scale and Market Presence

One Company, One Culture, One Focus: Enabling Farmers to Meet Record Demand



We provide the right mix of seeds, crop protection, and digital solutions to maximize yield and improve profitability, ensuring an abundant food supply for a growing global population

Our Company

~21,000 ~140
Colleagues Countries

150+ **15,900**
R&D Facilities Granted Patents

~100 **65+**
Production & Active Ingredients
Mfg. Facilities

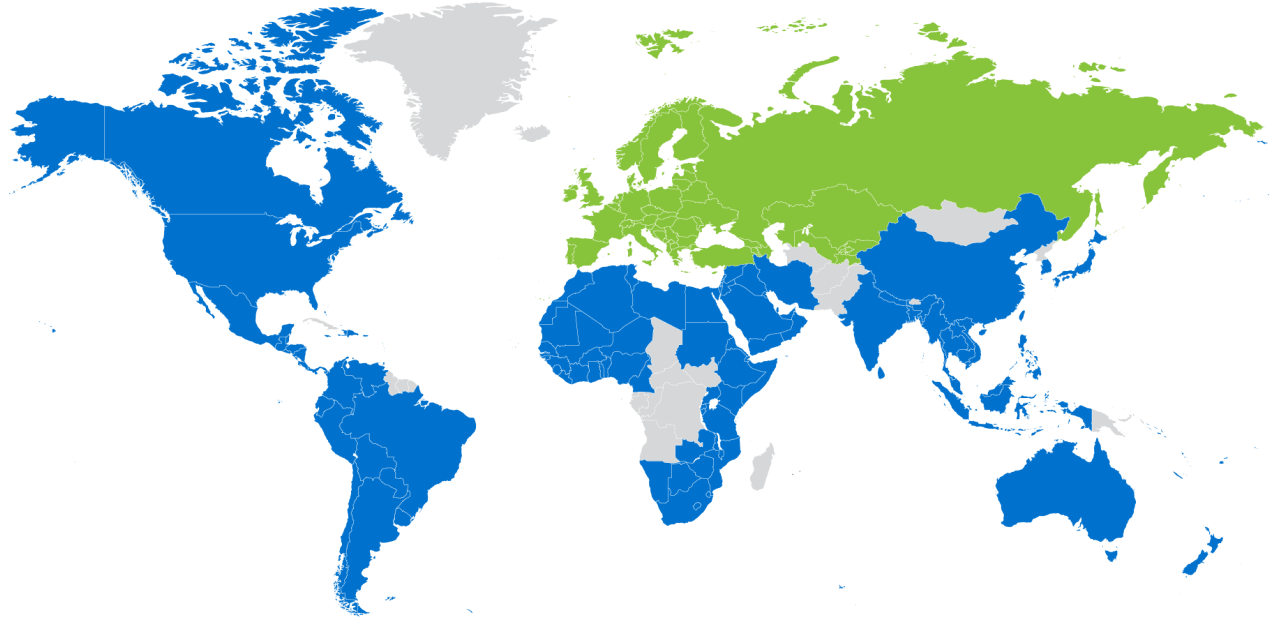
100+ **8,000+**
Crops Sales Force⁽²⁾

10 million+
Customers



1. Operating EBITDA is defined as earnings (i.e., income from continuing operations before income taxes) before interest, depreciation, amortization, non-operating benefits, net and foreign exchange gains (losses), excluding the impact of significant items (including goodwill impairment charges). Non-operating benefits, net consists of non-operating pension and other post-employment benefit (OPEB) credits, tax indemnification adjustments, environmental remediation and legal costs associated with legacy businesses and sites of Historical DuPont. Tax indemnification adjustments relate to changes in indemnification balances, as a result of the application of the terms of the Tax Matters Agreement, between Corteva and Dow and/or DuPont that are recorded by the company as pre-tax income or expense.

REGIONAL PROFILE:
Europe



Integrated Solutions for European farmers



Seed Applied Technologies



Giving your crops A HEAD START



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Biologicals

Biocontrol

Biostimulants

Biochemicals

Pheromones

Microbials

Biostimulants

e.g., plant extracts,
fermentation-based
natural substances

e.g., bacteria, fungi,
viruses

Fertilizers

Our commitment

The Challenge:

- Exactly how biologicals work is complex. The mode of action for some biologicals is not always fully known or understood.
- The biologicals industry continues to evolve with greater attention paid to verifying product efficacy, safety and ensuring composition is consistent with labeling and registration.

Our Commitment:

- Corteva will test all products with the same scientific rigor as with conventional crop protection products to confirm their modes of action, reliability, safety and efficacy.

biologicals



Increase
Trust

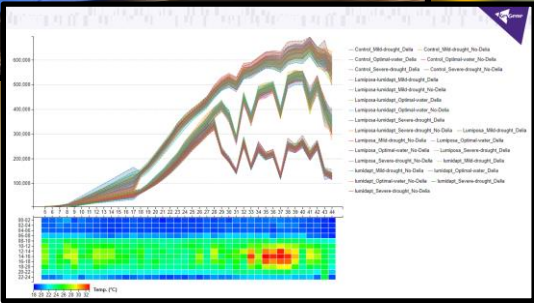
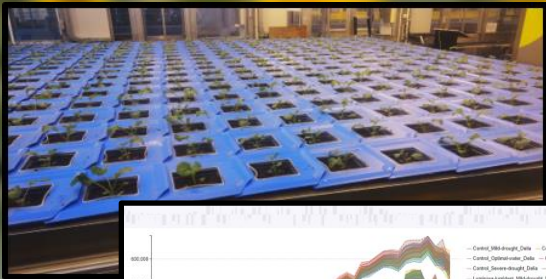
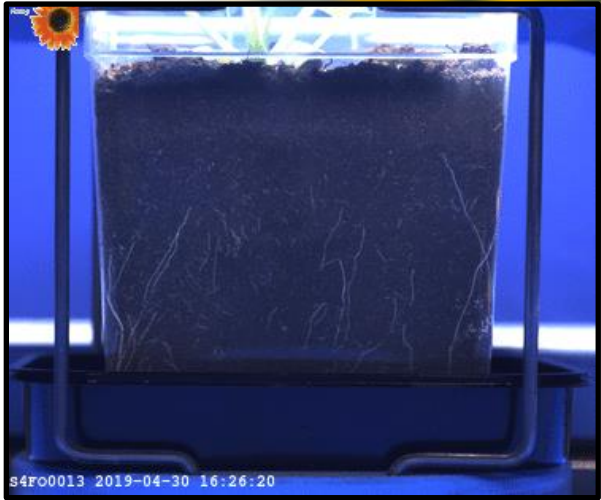
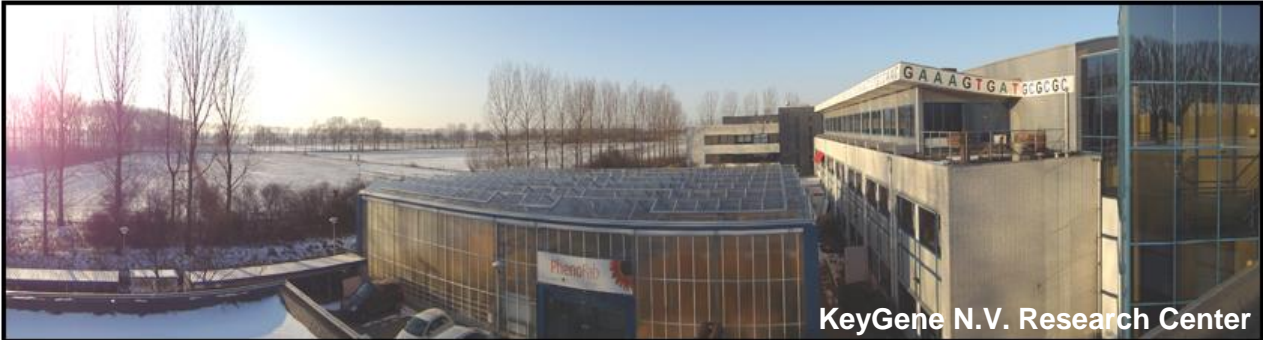


Reduce
Risk



Grow
Demand

R&D Investment over 3 years



SAT Biologicals Portfolio





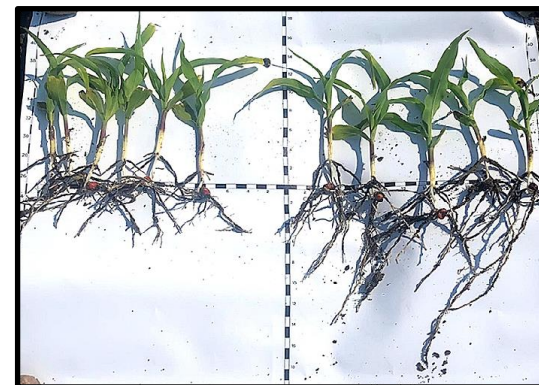
Treated plants have thicker root neck, larger and stronger main root, more lateral roots, taller stem and higher biomass.

Lumidapt™

GROWTH NUTRITION SEED TREATMENT



Treated plants have stronger root system in autumn = better winter survival.

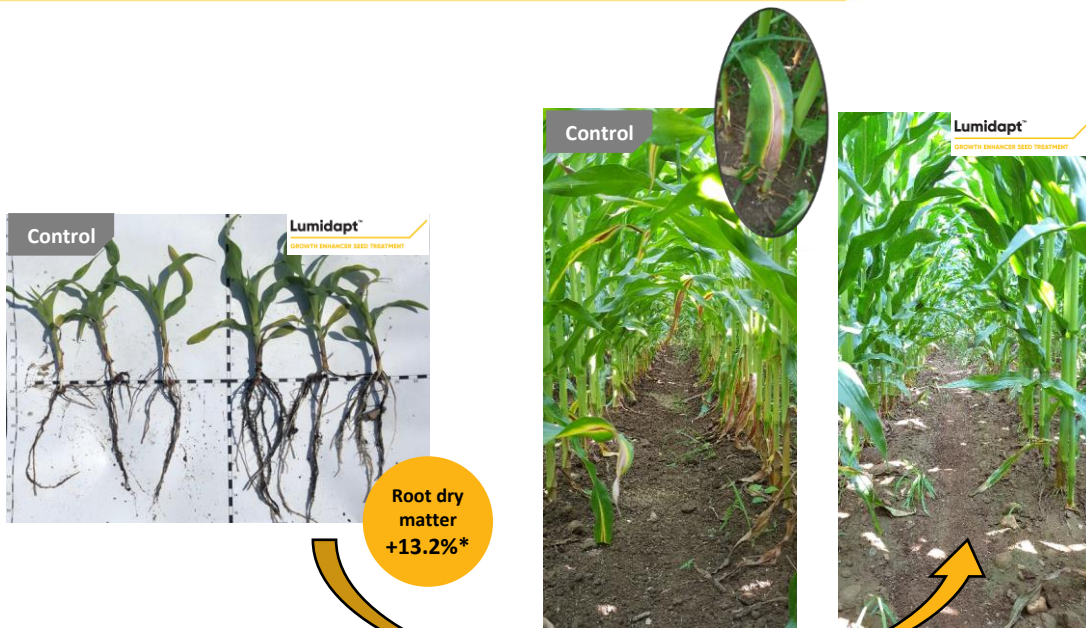


Treated plants have longer roots and advanced nodal root growth.

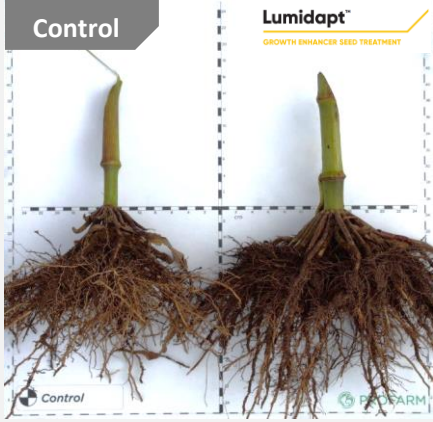
Standard treatment

Standard Treatment + Lumidapt

Greater root development for better soil exploration



**+6.3% of N uptake measured
on 8 locations in EU**

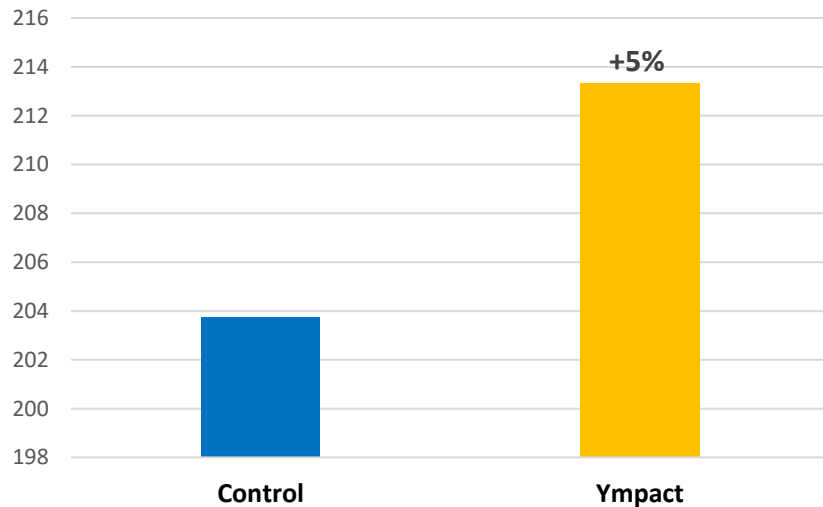


- Root = storage organ of plant
- Root biological decomposition:
 - Source of carbon and nutrients for soil microorganisms
 - Base element of soil organic matter

**Root dry biomass in % of control at BBCH14-17 – avg of 11 Europe locations*

YMPACT SEED TREATMENT PROMOTES SEED GERMINATION

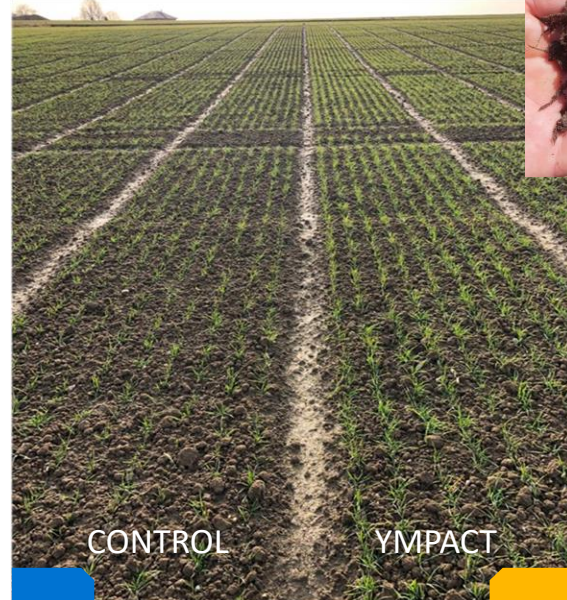
Increased germination % in field conditions



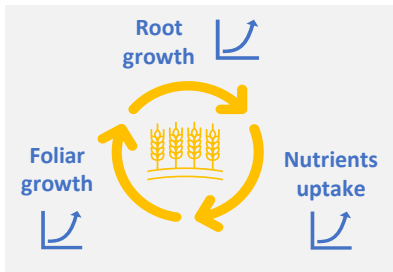
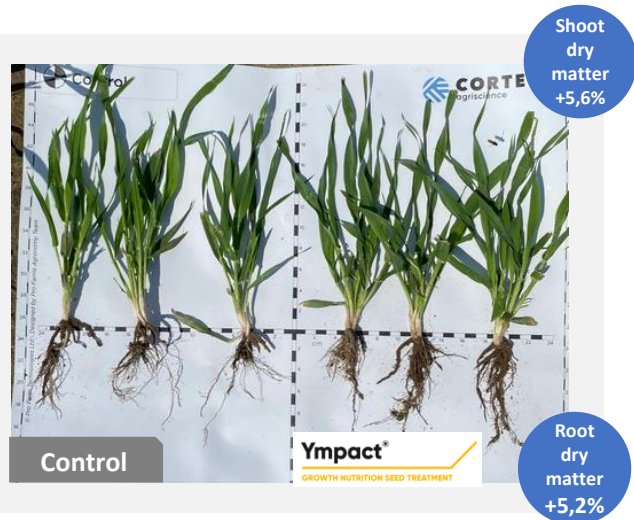
Average of 6 locations in France (4), Romania and Estonia, 2020
Average of w. wheat (2), w. barley (2) and s. barley (2) trials

Control in 5 loc = difenoconazole + fludioxonil
Ympact in 5 loc = difenoconazole + fludioxonil + Ympact

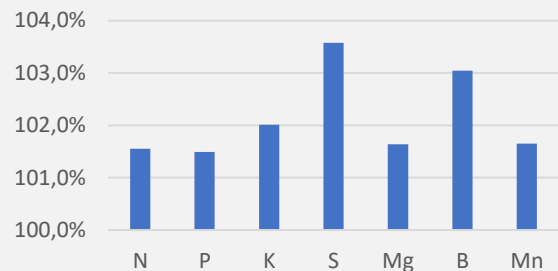
Control in 1 loc = sedaxane, fludioxonil, triticonazole
Ympact in 1 loc = sedaxane, fludioxonil, triticonazole + Ympact



Ympact improves root development for better access to nutrients



Nutrient content in leaves, avg of 5 locations at flag leave stage (in % of control)



France, Hungary and UK (2020-2021)

Better root and shoot early development

Ympact improves root system development and leads to better:

- Deep soil exploration
- Acquisition of water and mineral nutrients (mobile and non mobile)



Biological growth nutrition seed treatment for hybrid crops, as corn, sunflower and rapeseed (Lumidapt) and cereals (Ympact)

- Based on a byproduct of paper production from Nordic Conifer trees
- Optimize plant's metabolic activity, physiology and stress durability
- Stimulating root growth to increase the rate of nutrient uptake and improve the drought tolerance of the plant

Ympact®

GROWTH NUTRITION SEED TREATMENT

A man and a woman are standing in a field of mature crops, possibly soybeans, during the golden hour of sunset. The woman, on the left, is wearing a grey jacket with the Corteva Agriscience logo on the sleeve. The man, on the right, is wearing a dark green button-down shirt. They are both smiling and looking at a tablet computer that the woman is holding. The background shows a vast field stretching to a line of trees and a few buildings in the distance under a warm, orange-hued sky. A blue diagonal graphic element is present in the upper right corner of the image.

KEEP GROWING.

We are keeping discovering and developing novel actives for new options



Discovery begins by understanding what farmers need, drawing on a century of experience in seed.




The Corteva Agriscience pipeline provides access to a range of actives and options.



We actively nurture partnerships across the industry to identify new seed treatment product possibilities.



A photograph of three men standing in a field of harvested corn. The man on the right is wearing a blue and white baseball cap, a dark vest over a light shirt, and light-colored pants; he is holding a tablet. The other two men are looking at the tablet. The background shows a green combine harvester working in the field under a blue sky with scattered clouds.

Thank You

Any Questions?



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agriscience

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