



The path towards COStomized agriculture

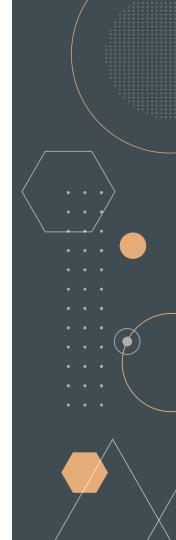












<u>Problem statement - Background</u>





Fungal diseases







Month 0

Month 6



2.7 billion tonnes of pesticides annually used



Reduce pesticide use by 50% by 2030

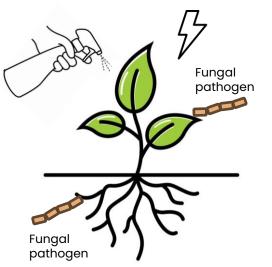
<u>Problem statement - Background</u>





Fungal diseases

<u>Solution:</u> Biological plant priming agents





Inconsistent results due to batch variations



Limited affordability due to labor costs upon frequent foliar application

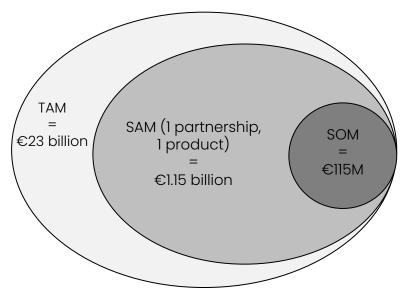


B-COS we offer an effective biological plant priming agent

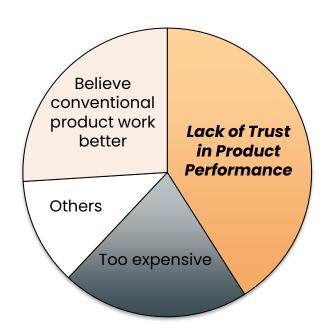
Crop protection market EU:



BASF, Bayer, Globachem, Biobest, Corteva Agriscience, Syngenta, etc.



Barriers for adoption of biologicals in company:

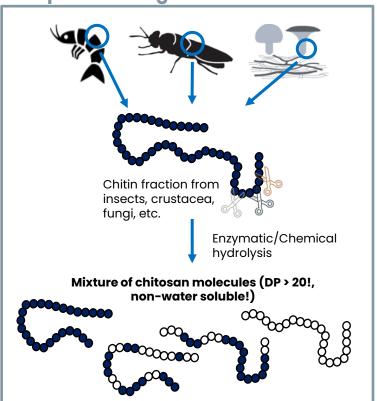




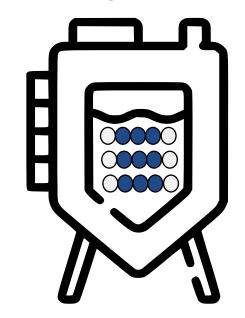
B-COS we are innovative - Competition

Scalable & Specific

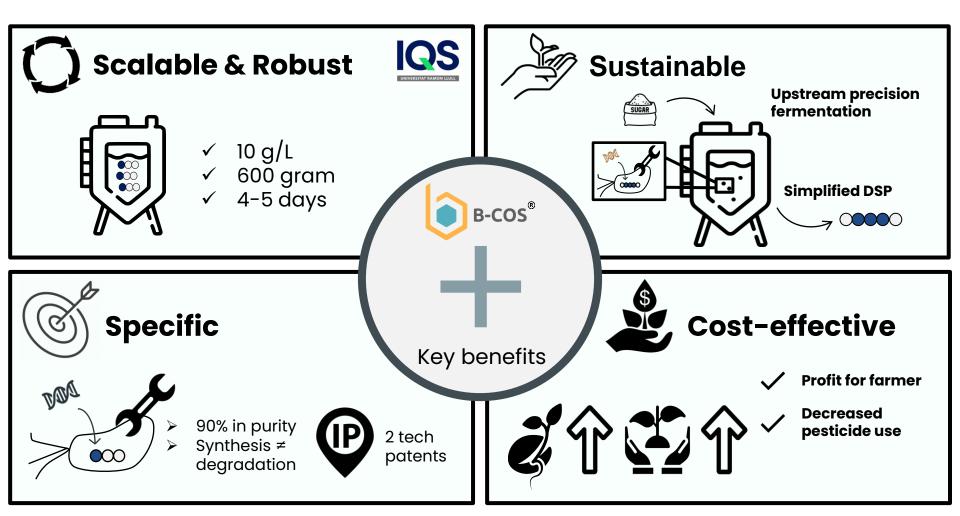
Competitors: Degradation



B-COS: Precision fermentation (synthesis)



Chitooligosaccharides (COS) DP < 20, water-soluble





B-COS we are <u>innovative</u> - **Competition**

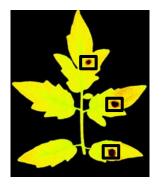
				B-COS
	Chitosan (1 st generation)	<i>Undefined</i> COS-mixture (2 nd generation)	Commercial biological priming agents (fungal diseases)	B-COS product (3 rd generation)
Water solubility	NO	YES	YES	YES
Price	Low	High (€400/ha)	Low to medium (€45-200/ha)	Low (€45/ha)
Regulation	Basic substance EU	EFSA-registration	EFSA-registration/ Basic substance	EFSA-registration
Batch variation	YES	YES	YES	NO
Bioactivity	50%	50-60%	50-60%	80%
Administration	Foliar (Acute effect)	Foliar (Acute effect)	Foliar (Acute effect)	Seed (Long effect)

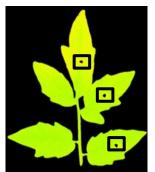


B-COS we offer tailor-made COS-product - plant priming agent

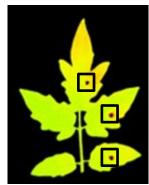
Control

B-COS product

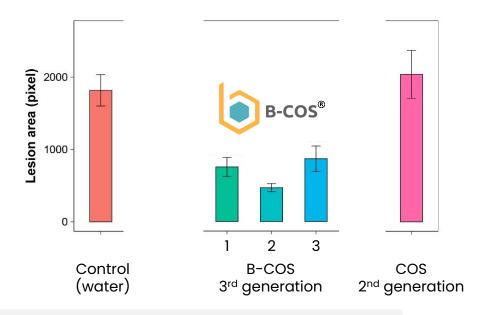








<u>Tomato – Grey mold fungus infection:</u>



- ✓ No effect on final biomass
- ✓ Safety tests performed on animal cells







B-COS we need a go-to-market strategy - Business model

Business model: application-driven (biomanufacturing)
Customer(s): biostimulant/crop protection distributors (B2B)

Step	Objective	Year 1 2024	Year 2 2025	Year 3 2026	Year 4 2027	Year 5 2028
1. Time to market	4 years (2028)	R&D UGent	Field trials/	Seed coating	formulation	Biostimulant on market
2. Revenue	Biostimulant sale Crop protection sale		b	File piostimulant	File crop protection	1 st sale!
3. IP roadmap	2 tech patent applications, 1 application patent in preparation	Filing applicati patent	on Filing	of additional	application/te	ech patents
4. Market share	x% for plant	Complete toma business case	Scale-up te	echnology + Strate	egic partnership	COS-distribution

Current partners: IQS Bioprocess pilot plant (**upscaling**), LAMP (UGent, **application testing**)



Seed round (€3M)

Milestones:

- Production scale-up to 1.5kL
- 2. Field trial(s)
- 3. Seed coating strategy
- 4. Strategic partnership
- 5. Filing for biostimulant
- 6. 1st application patent granted

Series A (+€7M)

Milestones:

- 1. File for active substance registration
- 2. 1st sale biostimulant (drought stress)
- 3. Production scale-up to 15kL

Series B/C

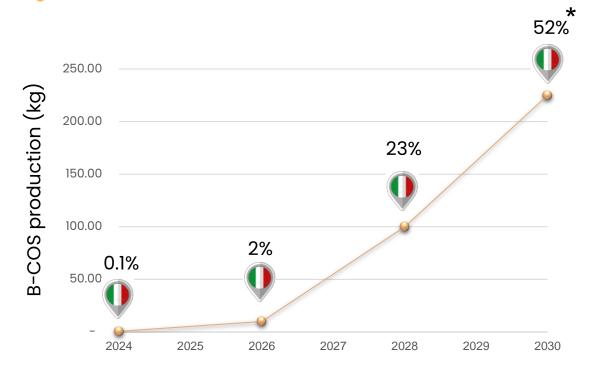
Milestones:

- 1. COS-production plant
- 2. Registered COSproduct to prevent fungal infection



B-COS we need a go-to-market strategy





Product pipeline:

B-COS as biomanufacturing company for efficient biological priming agents:

- ✓ Biostimulant tomatoes (drought stress)
- Crop protection tomatoes (fungal diseases)

^{* %} of tomato area Italy



Who is the team?



dr. ir. Chiara Guidi

- PhD in Bioscience Engineering
- Inventor of technology, BD, grant writing, (pre-)incubator participation, patent writing
- · CEO



dr. ir. Wouter Demeester

- PhD in Bioscience Engineering
- (Co-)author and vast experience in synbio, metabolic engineering
- CTO



Prof. dr. ir. Marjan De Mey Dr. ir. Nele Ameloot

Scientific advisor

Business develor



Business developer
 Biomolecules



Dr. ir. Maaike PerneelBusiness developer Cropfit



Prof. dr. ir. Kris
Audenaert
• Scientific advisor



Call to action



Scientific advisors + team members in the agronomic sector



Third parties to help/assist on the regulatory process & seed coating technology



Pre-seed funding: €3M for 2 years (Scale-up, IP strategy, Product testing in field trials, Start registration process, R&D)









B-COS (B-COS.eu BCOS_ info@b-cos.eu chiara-guidi-

