



Sustainable formulation design: polymer-free ingredients boosting biocontrol impact

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From Fossil-Linear to Biobased-Circular



Sustainable Agriculture



Bioeconomy

Molecule by molecule, including co-formulants

Present in all pesticides ...

also under regulatory pressure



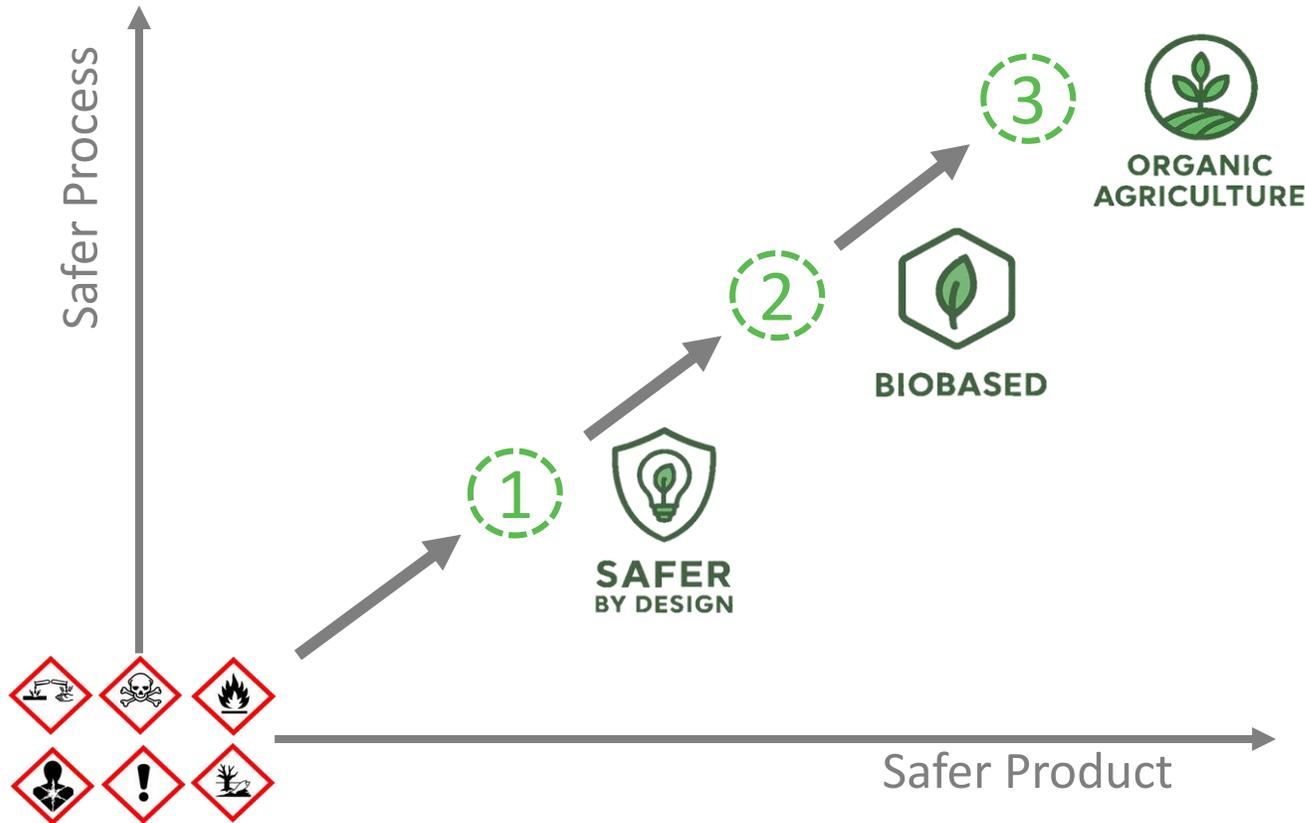
Active Ingredients
insecticides, fungicides,
herbicides, biostimulants...

Co-formulants
-present in **all** pesticides (up to 50%)



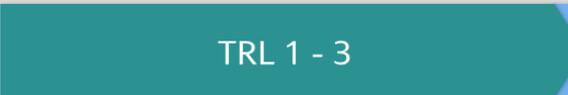
Our Solution - Applicative Platform

Supporting the entire agrochemical sector transition



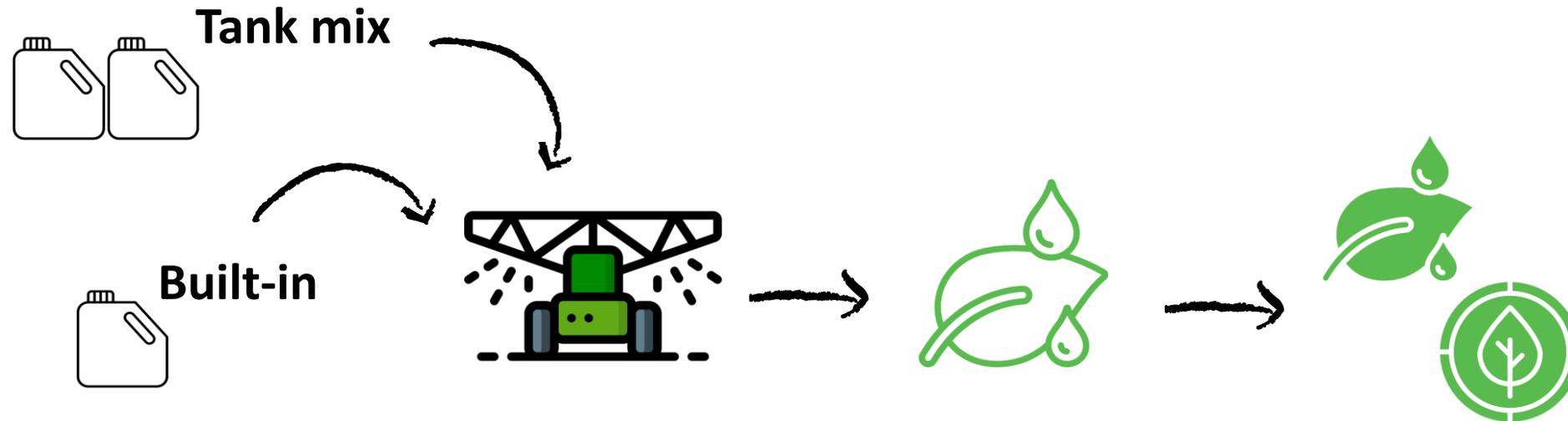
Minagro with co-formulants is driving a sustainability shift, easy to implement and scalable across the entire industry

Our Solution - Platform of alternative chemicals

			Current CRL	Maturity year
 In-can Preservatives <i>7 products</i>	  		8	2028
 Adjuvant <i>5 products</i>	  		8	2030
 Biofertiliser / Stabiliser <i>2 products</i>	 		5	2030
 Solvent <i>2 products</i>			3	2035
 Functional ingredients <i>Green defoamer, sticker, coating...</i>	<i>R&D project on biobased adjuvant to be initiated in 2026.</i>			

Adjuvants - Context

Molecules without biological activity that can enhance the efficacy of the delivery system



No sustainability without performance

Case study - Adjuvants Sovinol A (Built-in)

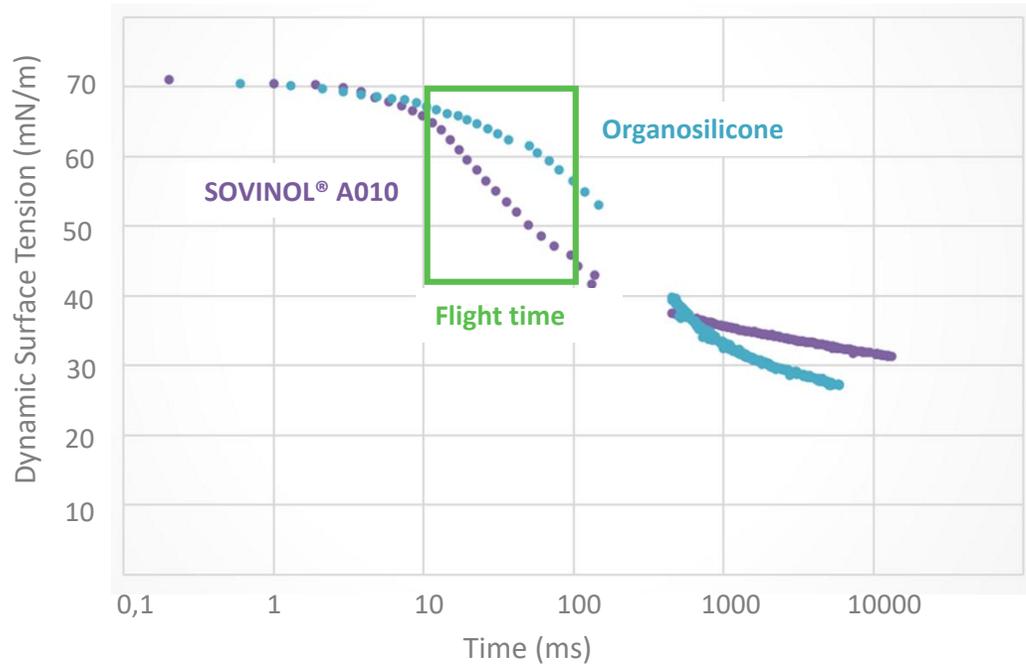
Product	REACH	Recommended dosage (on leaf)	Wetting	Spreading	Penetration
Sovinol A800 Sovinol A800/N  Biobased		0,5%			
Sovinol A010 Sovinol A010/N <i>Expected in 2030</i>  Biobased		0,03%			

- ▶ Readily biodegradable
- ▶ Safe tox-ecotox profile

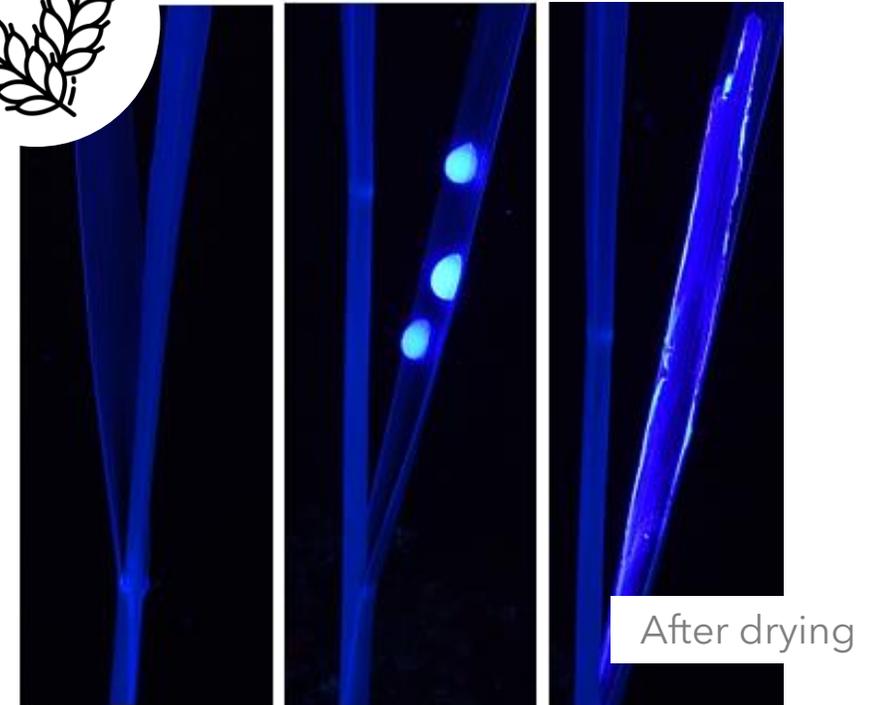


SOVINOL® A010 – Retention & Sticking

Sovinol® A010 vs Organosilicone at **0,035%**



Drops of 2µl under UV light



H₂O

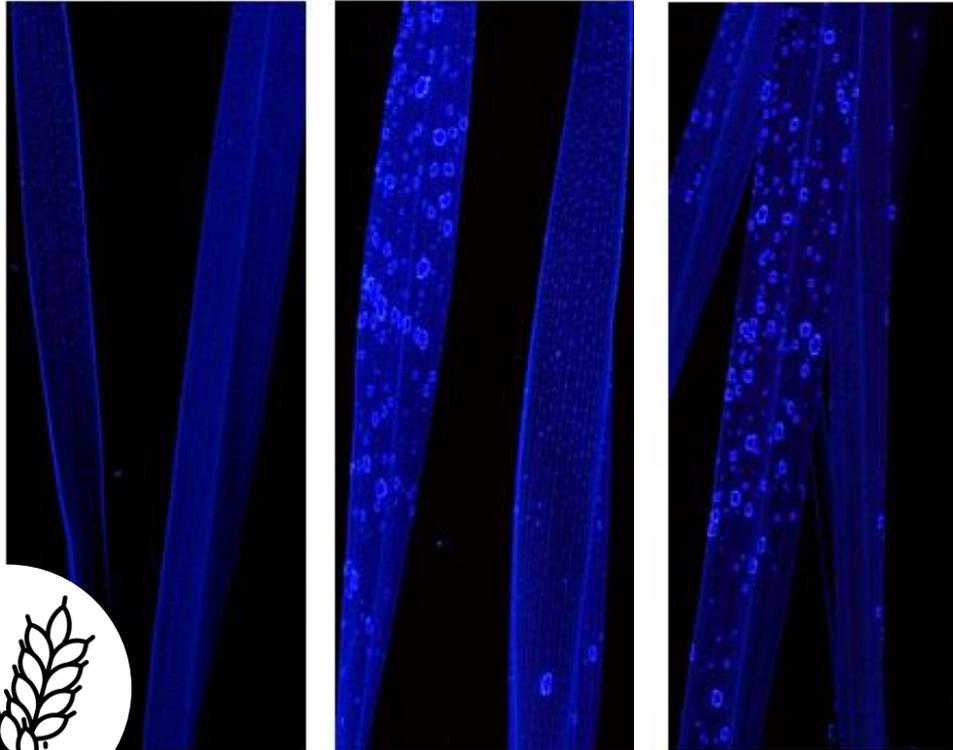
SOVINOL® A010 **0,03%**



Faster reduction DST with sticking and wetting effects at 0,03%



SOVINOL® A010 – Spraying

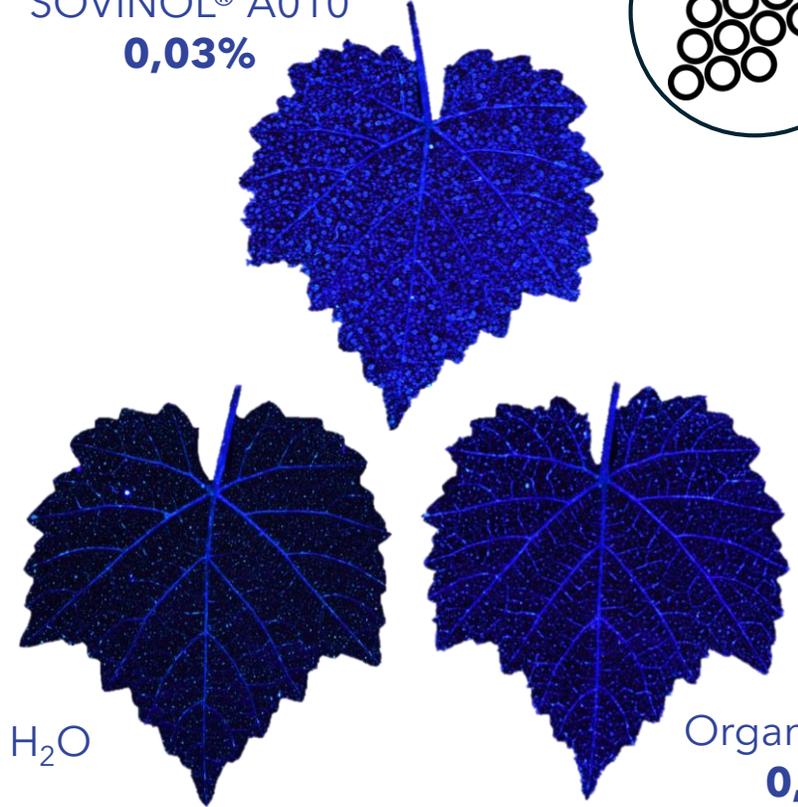


H₂O

SOVINOL® A010
0,03%

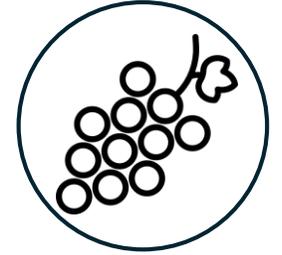
Organosilicone
0,05%

SOVINOL® A010
0,03%



H₂O

Organosilicone
0,05%



Very good coverage





SOVINOL[®] A010 – Penetration

SOVINOL[®] A010 - **0,03%**



Methylated Seed Oil - **0,5%**



The dye becomes fluorescent inside the cell
Higher fluorescence means higher penetration

00:00

00:05

00:10

00:15

00:20

00:25

00:30

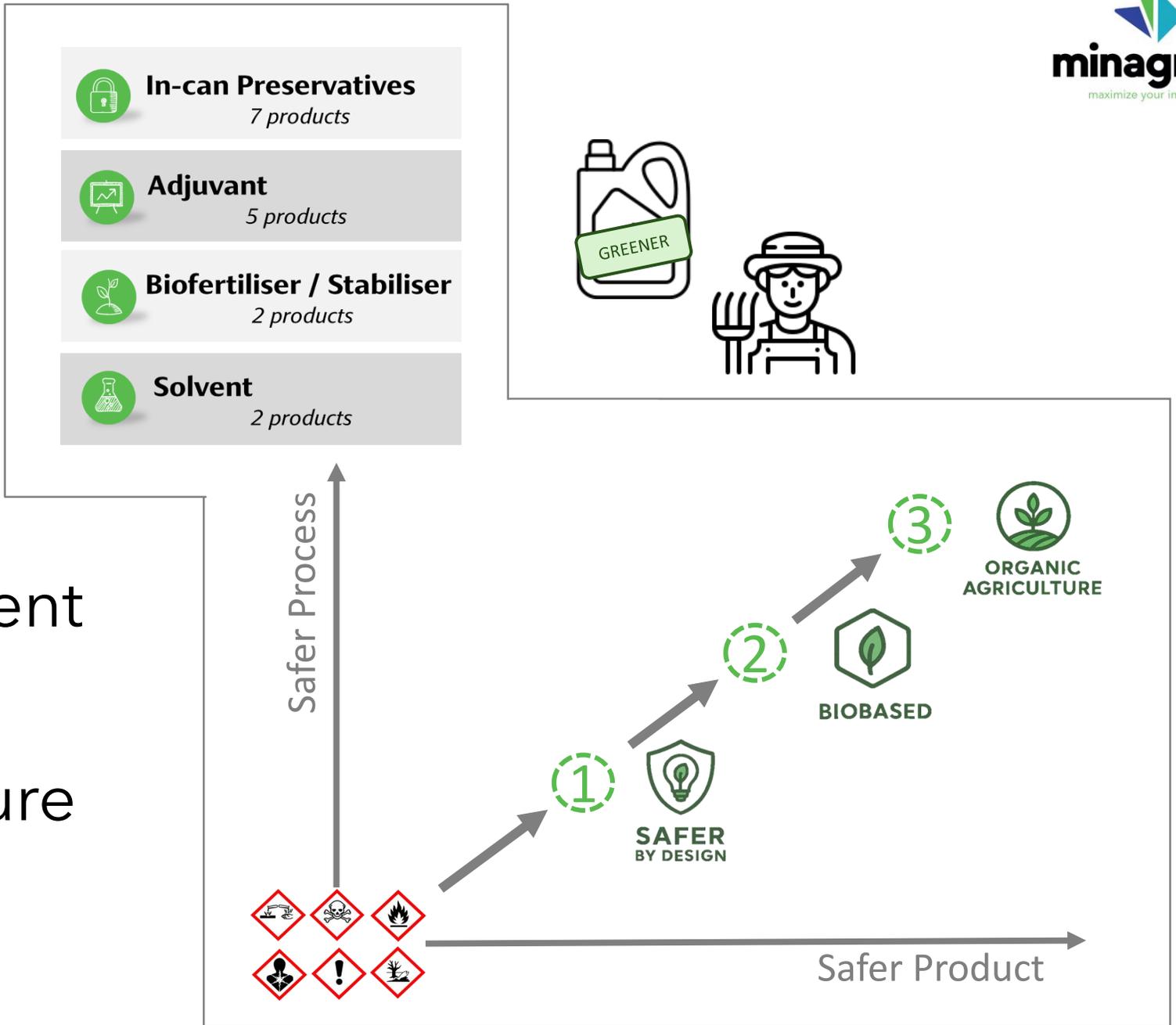
Time (min) after 1 μ L deposition under UV light

Excellent penetration driving force at 0,03% ✓

Our contribution

Easy-to-implement sustainable shift

Anticipating future changes



Sustainable alternatives are ready, what's blocking the shift?

As always, innovation moves first and regulation follows

A rigid regulatory framework:

- ▶ **No proactive substitution**
- ▶ **Long timeline** for new registrations

Agriculture and the bioeconomy remain disconnected

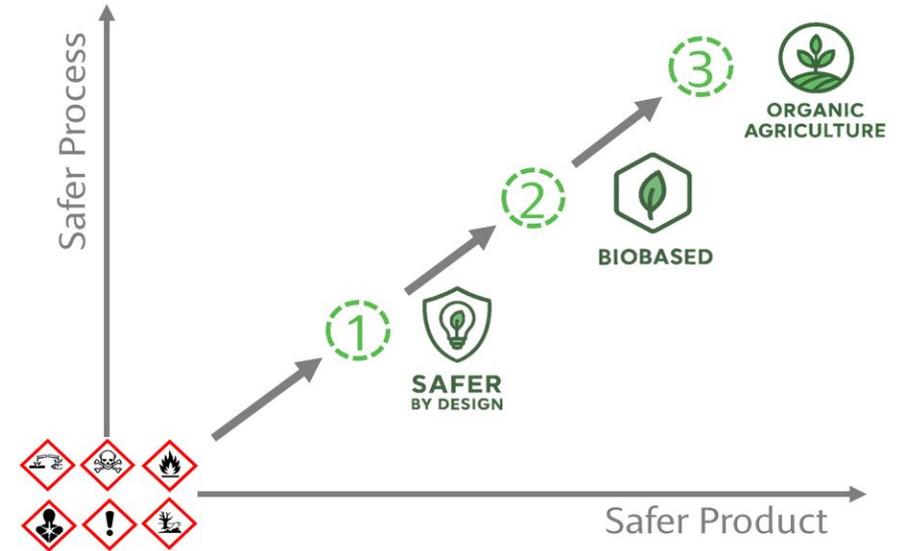


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				Current CRL	Maturity year
In-can Preservatives <i>7 products</i>	TRL 1 - 3	TRL 4 - 6	TRL 8	8	2028
Adjuvant <i>5 products</i>	TRL 1 - 3	TRL 4 - 6	TRL 8	8	2030
Biofertiliser / Stabiliser <i>2 products</i>	TRL 1 - 3	TRL 5		5	2030
Solvent <i>2 products</i>	TRL 3			3	2035