

100% solid bio-coating to replace **PFAS/Microplastic** in food packaging



Plastic food packaging ruins our health and planet

Microplastic contamination



Non recyclable waste



Consumer brands are facing huge risks on packaging

Litigations due to microplastic contamination



Dependency on fossil byproducts



34 Million tons of non-recyclable waste



Compliance to EU regulation

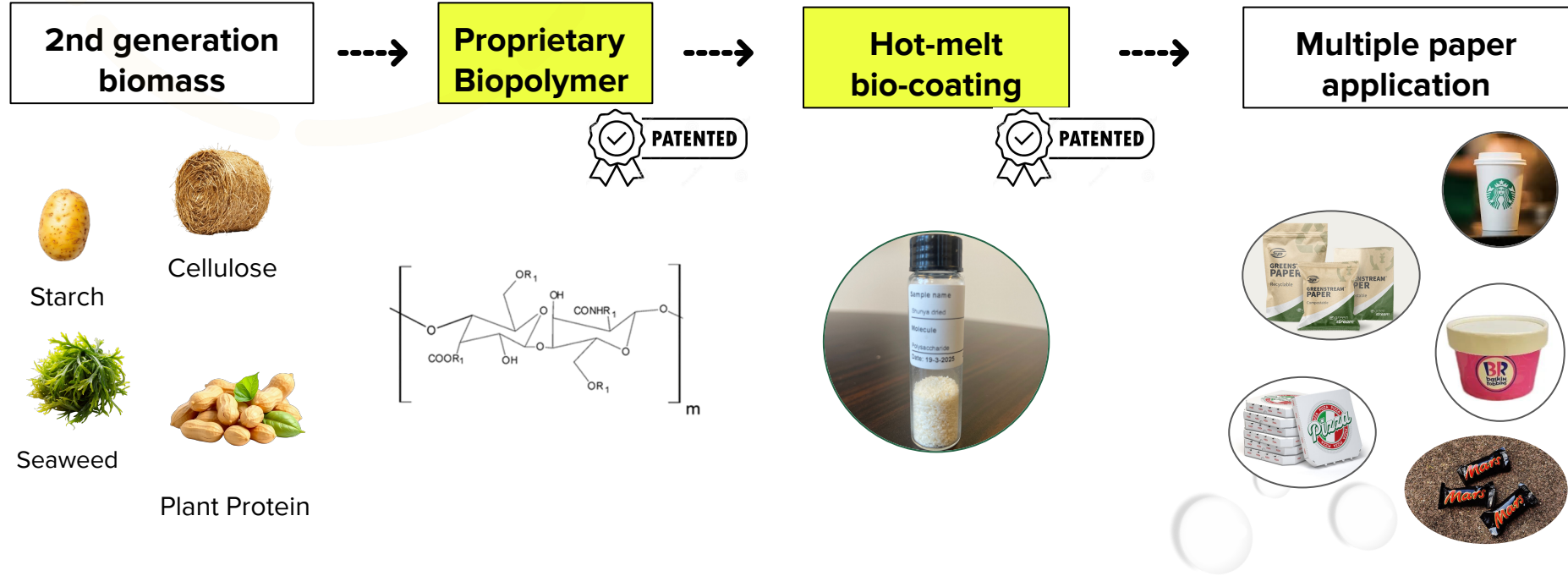


Leaching of PFAS, Plastics, into products

Consumer backlash against packaging waste



Novel bio-coatings from plants for paper



100% solid bio-coating for recyclable packaging



Room
temperature
Powder

At 110° C
Viscosity - 245
mPa.s



100% biobased :
PPWR, Microplastic law,
SUPD & CEPI compliant

Food contact safe under
BfR



Green chemistry based
biopolymer

Carbon negative per
biomass feedstock



VOC free and non-toxic to
aquatic life

Not just replacing fossil technology, but an **upgrade**

Current technology

35% coating &
65% water



Sustanix's technology

100% bio-coating

Water/Solvent based coatings are **expensive to apply, carbon intensive & operationally challenging**

Low energy usage, simpler line, fewer moving parts

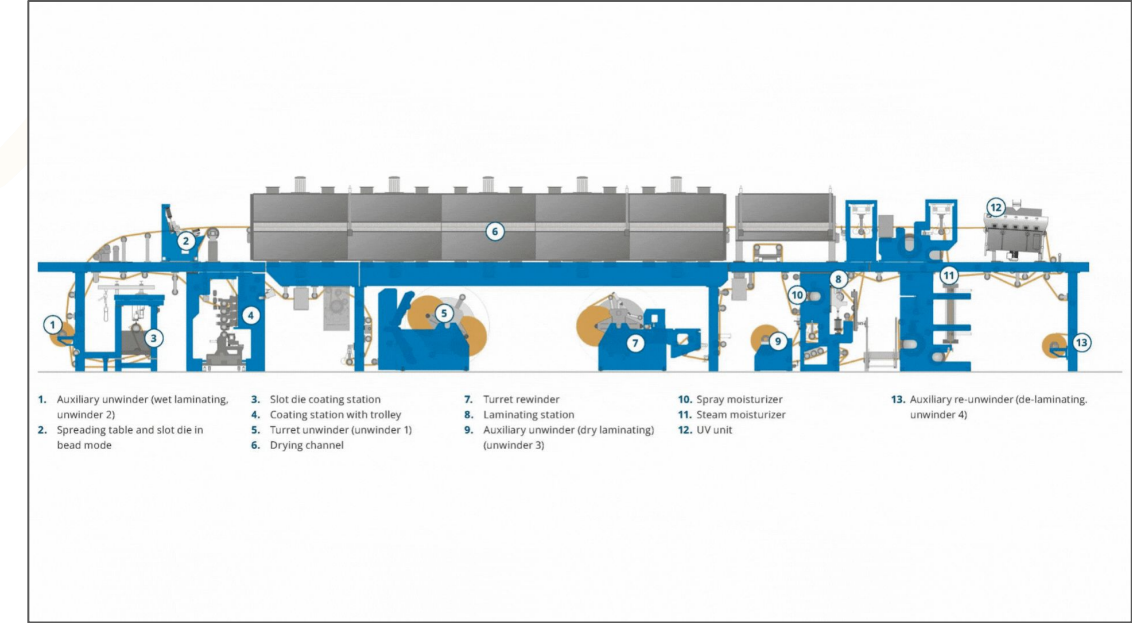
2 times speed

1/2 assembly line size,

4 times throughput

Curing time < 1 sec

NO



Drying / heating section
Remoisturizing system
Cooling rollers
Rusting/Erosion

Savings on operational costs per assembly line

Water saved



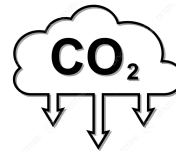
3,38 M
Tons



4X
throughput



Logistics cost saved
€ 1,5 M



CO₂ savings

1,567,500 Kg



Energy saved

€ 553K

Industrial partners across 3 continents, 34 companies

Coating companies

7

Licenses Sustanix's core technology

Coating machine

5

Retrofitting of existing machine

Paper companies

5

Buys coating from license partner

Packaging convertors

12

Customizes the coatings for the brands

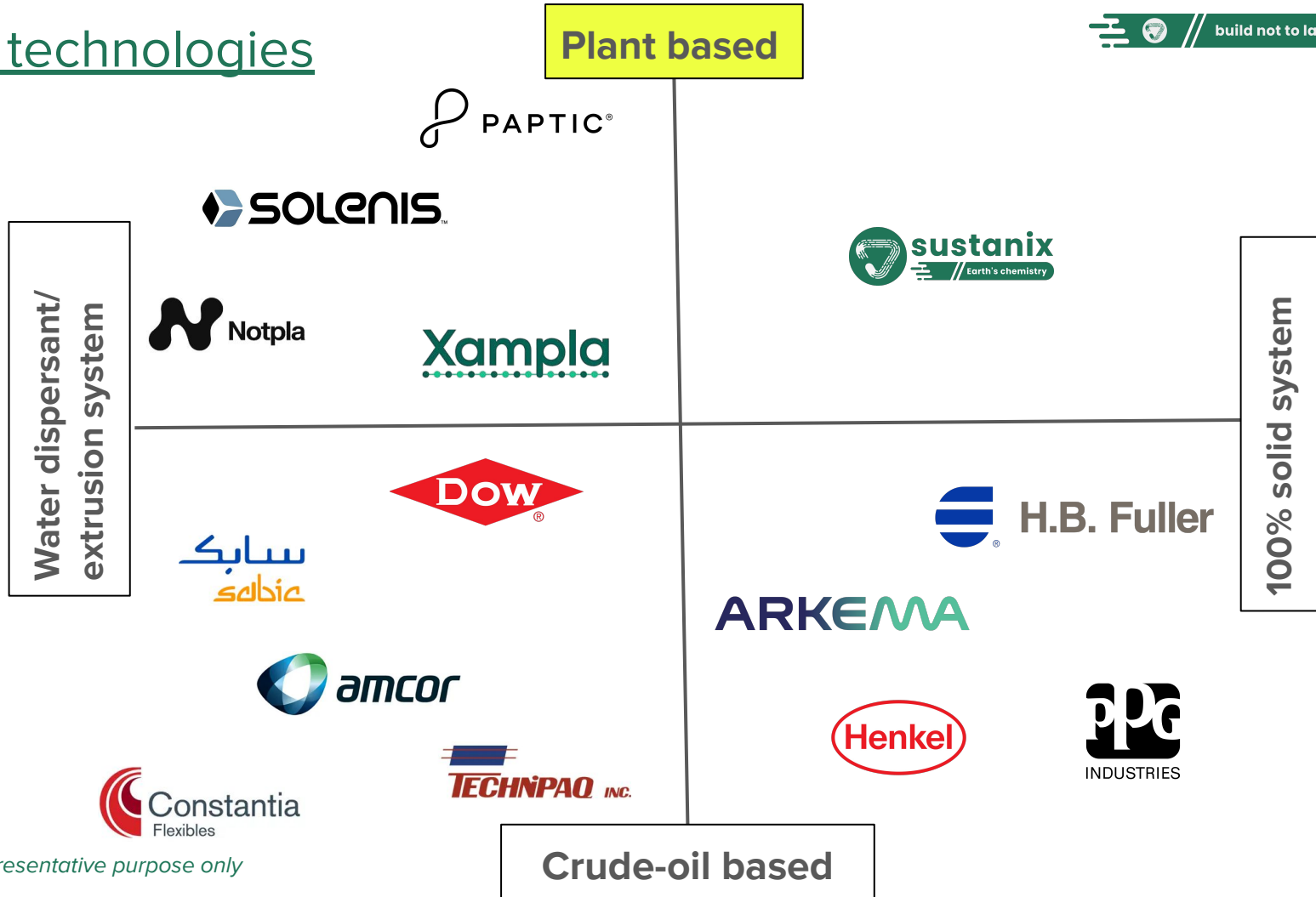
Brands

4

Buys the packaging



Current technologies



*Brand logos for representative purpose only

Compared against existing technologies

	Criteria	PLA	Seaweed	Plant protein	Plastic	Sustanix <i>(Biomass based)</i>
Properties	Water resistance	Low	Average	Average	High	Good
	Heat sealable	Yes	Yes	No	Yes	Yes
	Oil resistance	Low	Average	Average	Average	Good
Economics	Cost <i>(per square meter)</i>	Average	High	Low	Low	Low
	Coat weight	High	High	High	High	Low
	Existing machinery	Yes	No	No	Yes	Yes
Environment	Recyclable	No	Yes	Yes	No	Yes
	VOC & Radical polymer free	No	Yes	No	No	Yes
	Naturally Biodegradable	No	Yes	Yes	No	Yes

Team



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Derk Smid
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Achieve your **NET
ZERO**  with **ZERO** green premium

Thank you



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