

Biobased Innovations: Opportunities & Roadblocks

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WERKAGENDA
Chemie/Kunststoffen

SAMEN MAKEN WE
MORGEN MOOIER
OVAM



essenscia
Chemistry meets life sciences

vlaanderen-circulair.be





Mission

B4Plastics is a **sustainable technology developer** and **producer** of innovative and customized **renewable and/or recyclable/biodegradable materials** for all industries.

We embrace *fast* and *accurate* services to our customers.





About



Since 2018

- Over 50 R&D projects initiated and completed
- More than 600 biomaterials in the library



#greenteam

- 25 biomaterial experts



Business Development

- Engaging with over 3.600 companies in the business development pipeline



Equipment & Facilities

- Facilities equipped for production from gram to ton scale
- Expanding towards kiloton scale



Prototyping in 100+ product-market combinations:

- Bio-trimming lines, Tiewraps, Clips, Textile, ...

In preparation
“Home for Biomaterials” in Limburg
Bridging to cumulative Specialty Products capacity
of 10.000 TON/year
in 2026-2035





Biobased Innovations

Our Perspective

The biobased materials revolution stands at a crucial crossroad.

As pioneers in this evolving landscape, B4Plastics has identified key opportunities alongside persistent challenges.





Market Realities

Opportunities & Roadblocks



Uncontested Niche

We face minimal competition in our specialized segment



Price Barriers

Higher costs versus fossil-based alternatives persist



Performance Gap

Functionality lacks behind established materials



Regulatory Vacuum

Frameworks for biobased materials remain underdeveloped

Market Realities

With reference to the following pilot project: **Biodegradable Drainage Tubes**



- **Uncontested Niche Market**

B4P leads in fully biodegradable drainage tubes with no direct competitors.

- **Price Barriers**

Material cost is currently 4x more expensive/kg today
dropping to 30% premium.

- **Performance Gap**

Verdiflex has better handling (!) though discomfort about lifetime/biodegradation.

- **Regulatory Vacuum**

No clear laws or standards exist for biodegradable drainage tubing, however a lot of overregulation and certification requested on the other hand.





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Conclusion

Despite strong potential, widespread

adoption remains slow!

These challenges create both barriers and opportunities
for forward-thinking investors.

We need: (1) clear **regulations**, (2) clear **hidden cost** of current products,
(3) more **awareness**/urgency/accountability/responsibility