



Avantium

Investor Relations toolkit

Last update: 30 September 2025

IR toolkit | getting up-to-speed with the investment case

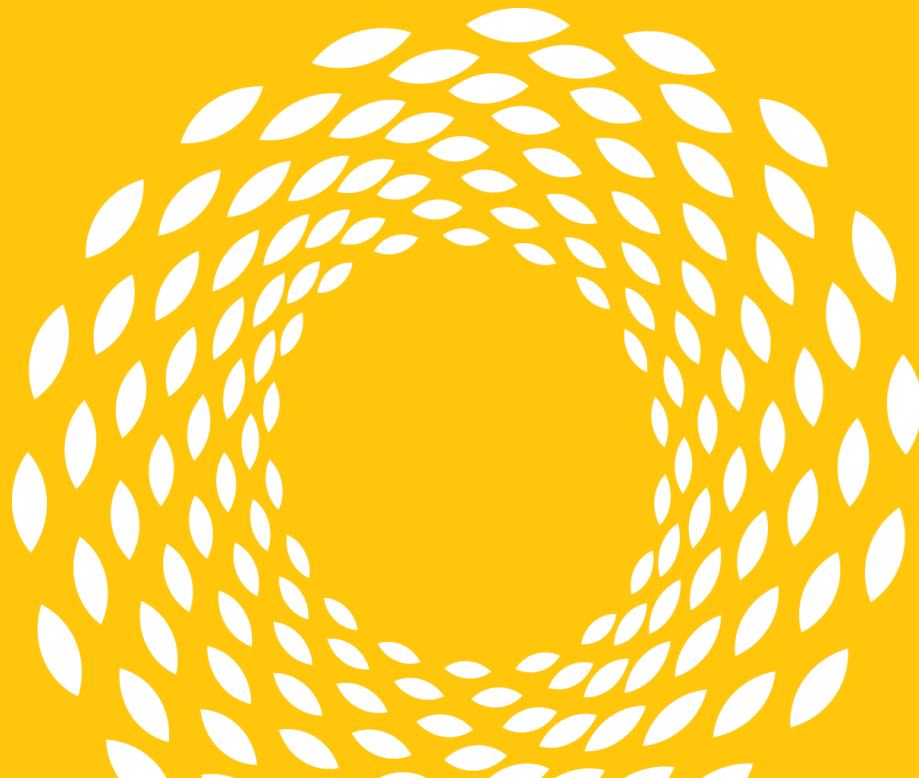
- This IR toolkit provides a collection of previously published slides, data and references to resources in order to get up-to-speed with the Avantium investment case.
- This IR toolkit may be a useful source for both investors that are new to Avantium and investors and shareholders already familiar with Avantium.
- This IR toolkit is periodically being updated.



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1. Key investment highlights, financial reporting and analyst coverage



Avantium key investment highlights

Avantium is a leading renewable chemistry technology developer specialized in bio-based polymers.

Through its core technology YXY®, the company introduces a better and cleaner monomer and polymer, FDCA and PEF (known under the brand name Releaf®), to the market, addressing a €200B+ market (e.g., packaging, fibers, films, molding, etc.).

- World's first FDCA Flagship Plant, including secured offtake agreements
- Scalable asset-light licensing model
- Innovative technologies and CO₂ utilization
- Proven R&D Solutions business
- ESG-Centric business strategy

Financial Reporting

Full Year 2024 Results materials:

- [Press release](#)
- [Presentation](#)
- [Analyst call transcript](#)
- [Annual Report 2024](#)

Half Year 2025 Results materials:

- [Press release](#)
- [Presentation](#)
- [Analyst call transcript](#)
- [Condensed Consolidated Interim Financials Statement](#)

For more historical financial results information visit:

<https://avantium.com/financial-performance-annual-reports/>



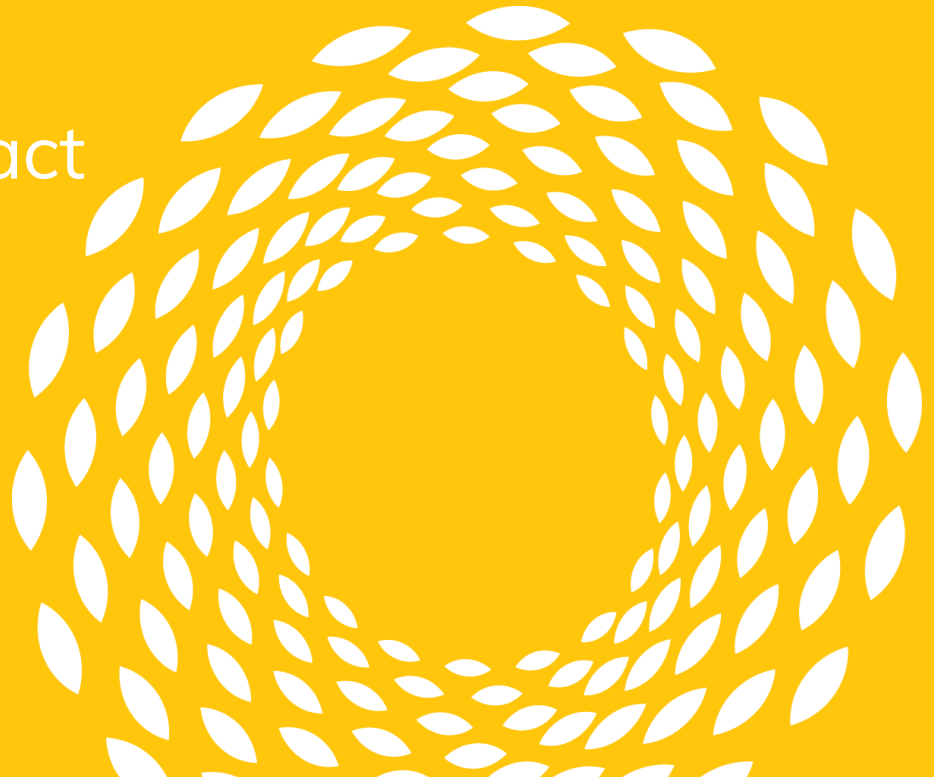
Analyst coverage

Sell-side analysts currently covering Avantium:

Bank	Recommendation	Target Price	Analyst
ABN Amro - Oddo BHF	Outperform	€9.20	Usama Tariq
Berenberg	Buy	€17.00	Andrés Castanos-Mollor
STIFEL	Buy	€49.00	Paul de Froment
Degroof Petercam	Buy	€14.00	Fernand de Boer
ING	Buy	€95.70	Reg Watson
Kepler Cheuvreux	Hold	€13.50	Patrick Roquas

Last update: 30 September 2025

2. Sustainability, impact and GRI



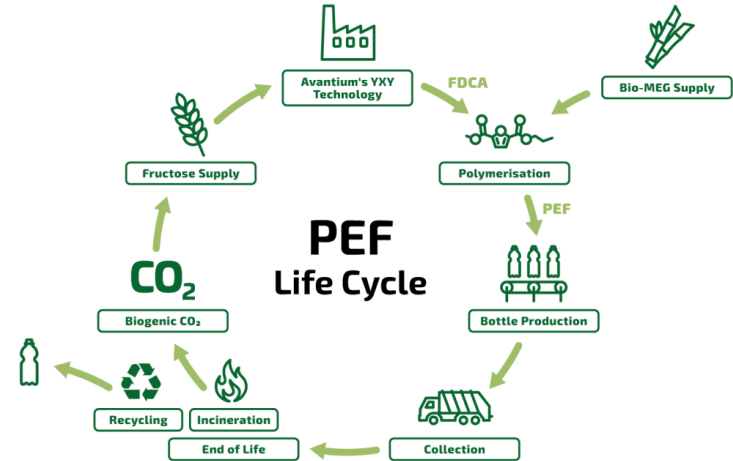
Understanding the sustainability benefits

Life Cycle Assessment (LCA) is fundamental to understanding how Avantium's technologies compete with fossil-based alternatives, as well as the potential sustainability benefits of our technologies.

LCA is the most recognised method to quantitatively assess potential environmental impacts of products, services or processes.

Third-party peer-reviewed and ISO-certified Life Cycle Assessments show that Avantium's PEF can enable a **73% reduction in GHG emissions** over the life cycle of a 500 ml PET bottle.

- [Source: releaf® \(PEF\) LCA Applications 500ml bottle \(2024\)](#)



For more information visit: <https://avantium.com/products-technologies/lca/>

ESG and GRI

Avantium's [Annual Report](#) follows the Global Reporting Initiative (GRI) Standards, ensuring full transparency and accountability. The report covers:

- General Disclosures: Information on our organizational profile, strategy, ethics, and integrity.
- Material Topics: Our identified significant economic, environmental, and social impacts.
- Economic Performance: Financial implications, market presence, and economic impacts.
- Environmental and Social Impact: Our contributions to sustainability, covering areas such as energy, water, emissions, and social responsibility.

A comprehensive GRI index can be found here:

<https://avantium.com/sustainability/reporting-and-governance/#section-number-5>



ESG ratings



Avantium was awarded a Gold Medal by EcoVadis, after a thorough audit of our performance in four categories: environment, labor and human rights, ethics, and sustainable procurement.

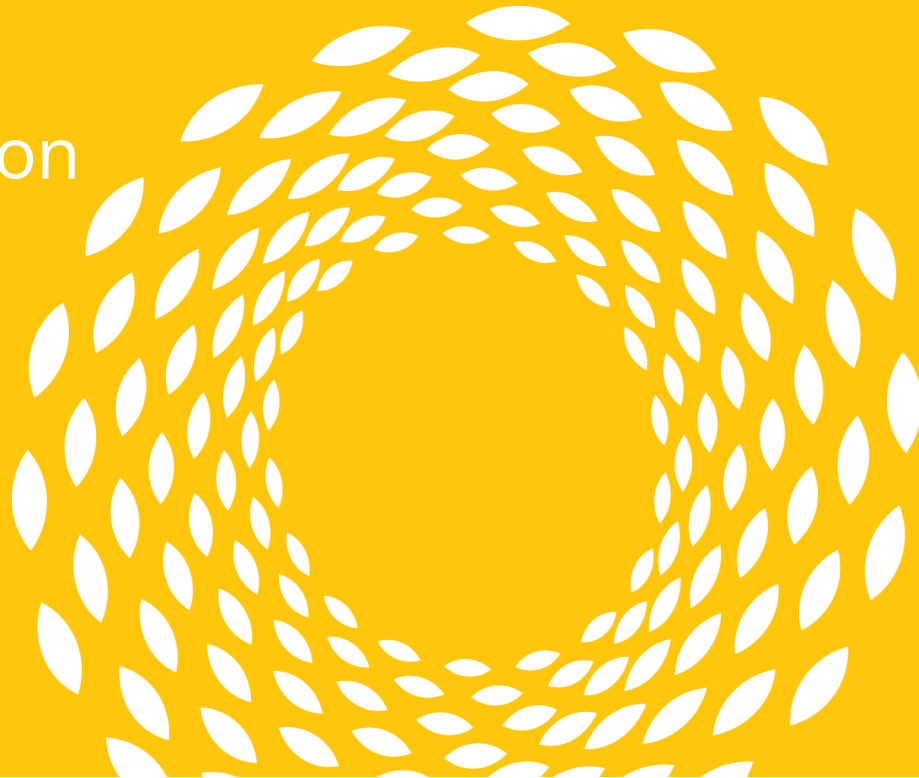


Sustainalytics recognized Avantium as having medium risk for material financial impacts driven by ESG factors.



3. Investor Presentation

Selection of previously published slides



Avantium at a glance



avantium

Transforming sugars into next-generation bio-based plastic releaf®



Established
In 2000



HQ in Amsterdam
(NL)



World's 1st FDCA Plant
Opened in Oct 2024
Expected to be on stream
in Q1 2026



20 Offtake Agreements
7 Capacity Reservations
1 License Agreement



175 patent
families



EURONEXT

Publicly listed
Amsterdam & Brussels



300+
FTE

Key pillars and investments highlights



FDCA / PEF –
Innovative &
unique product

Introducing a better &
cleaner monomer and
polymer: FDCA and PEF



Flagship Plant
Project
execution

Finalized construction &
anticipates sales under
the offtake agreements
in Q1 2026



Commercialization

Successfully
paving the way
towards future licenses

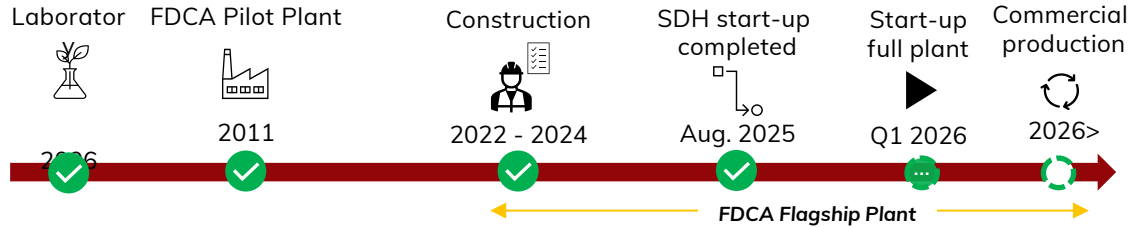


From sugars
to the next
generation
polymer



FDCA / PEF

- ✓ 100% bio-based feedstock
- ✓ Fully recyclable in PET stream
- ✓ Lower carbon footprint
- ✓ With superior properties

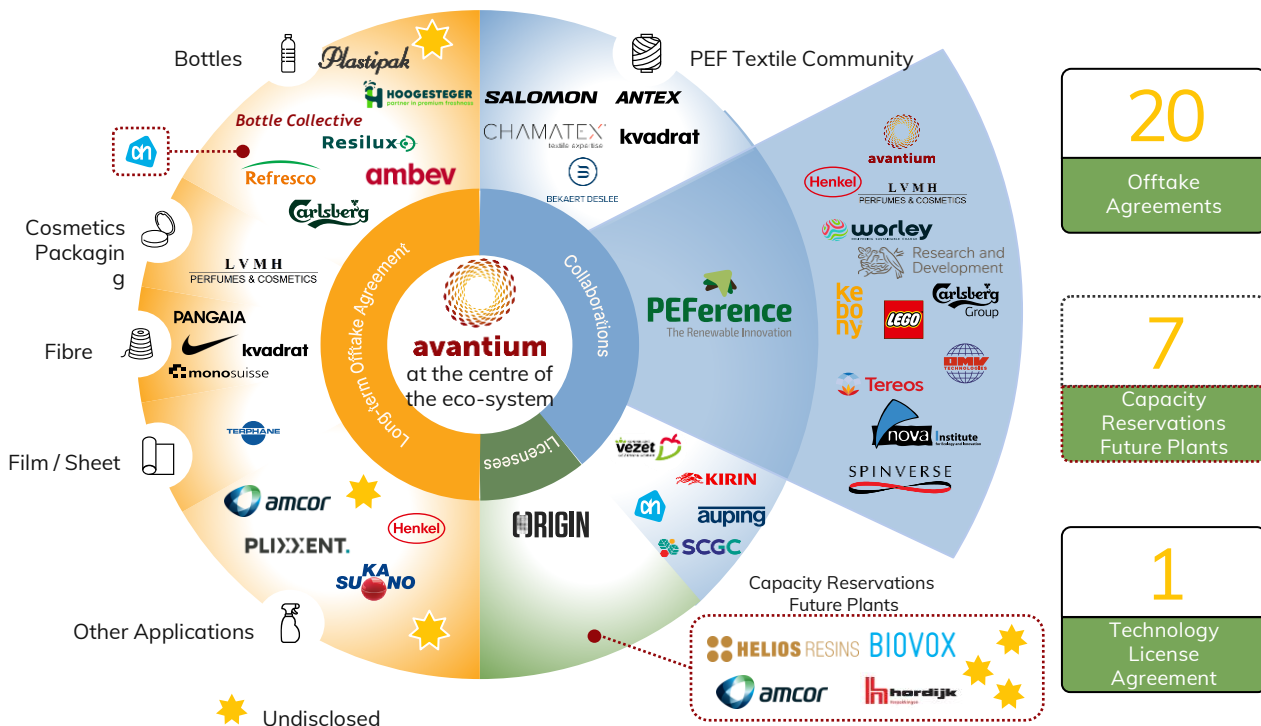


20
offtake
agreements

7
capacity
reservations
for future plants

1
license
agreement
signed

Commitments from leading brands



Marit van Egmond
Former CEO of



Besides packaging reduction, recyclability and reuse, fossil-free materials are high on our wish list. With the use of PEf, we are giving substance to this."



Simon Boas Hoffmeyer
Senior Sustainability
Director at



The things that lured us into looking at PEf are the quality properties, and that PEf is able to retain the fizz of the beer 8 times better than PET."



Anders Byriel
CEO at



We have been positively surprised about the properties of PEf, the look and feel [of the textile] is impressive."





What drives us?

The why

CURRENT FOSSIL, LINEAR ECONOMY

- × Atmosphere: CO₂ Climate change
- × Environment: Pollution & Microplastics
- × Human body: Microplastics & Health effects



BARRIERS FOR TRANSITION

- Inadequate recycling solutions
- Insufficient performance of bioplastic
- Economic barriers (virgin plastic)
- Economic interests: increasingly more oil is used for plastics production

RENEWABLE, CIRCULAR ECONOMY

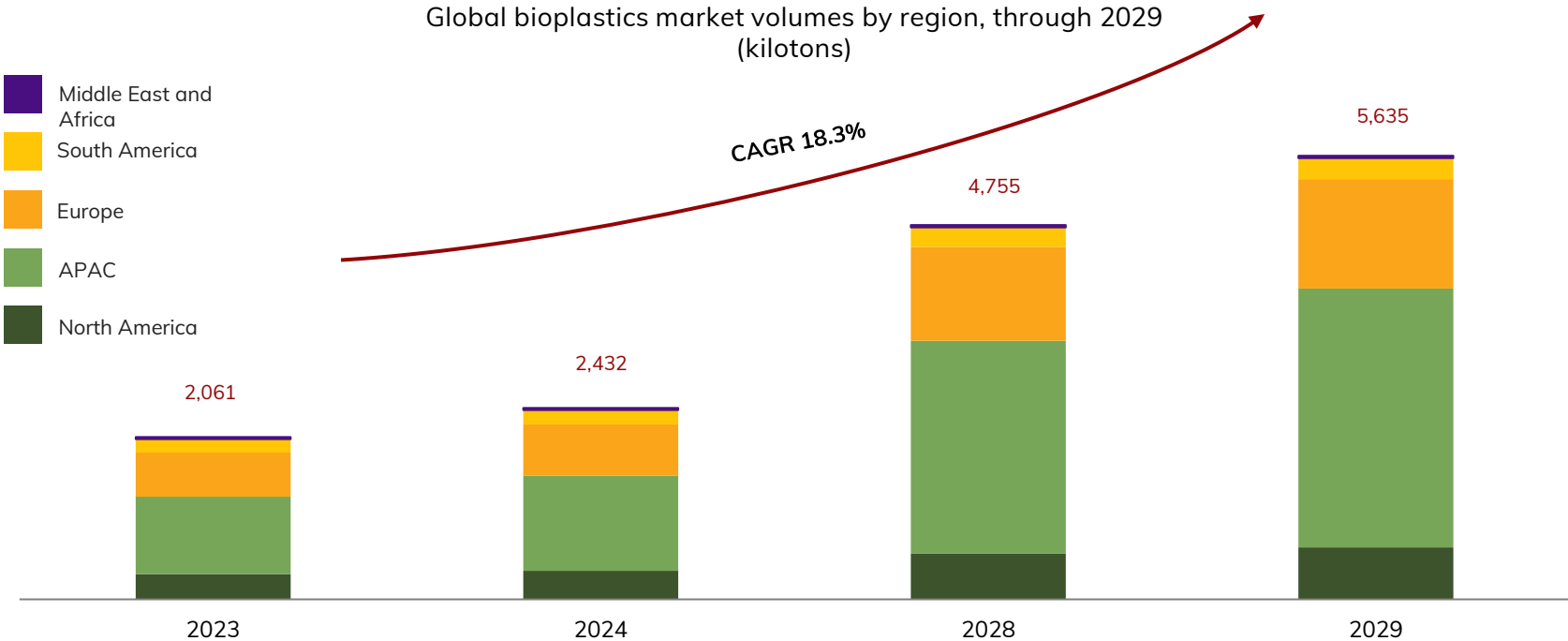
- ✓ Atmosphere: Oil-independent & lower CO₂ emissions
- ✓ Environment: Not persistent & fits with existing recycling infrastructures
- ✓ Human body: Safe & no migration to human body



Opportunities

- ❖ Strong market demand driven by consumers
- ❖ Shifting regulatory landscape favoring biobased materials
- ❖ Innovative materials delivering advantages beyond what fossil-based plastics can offer

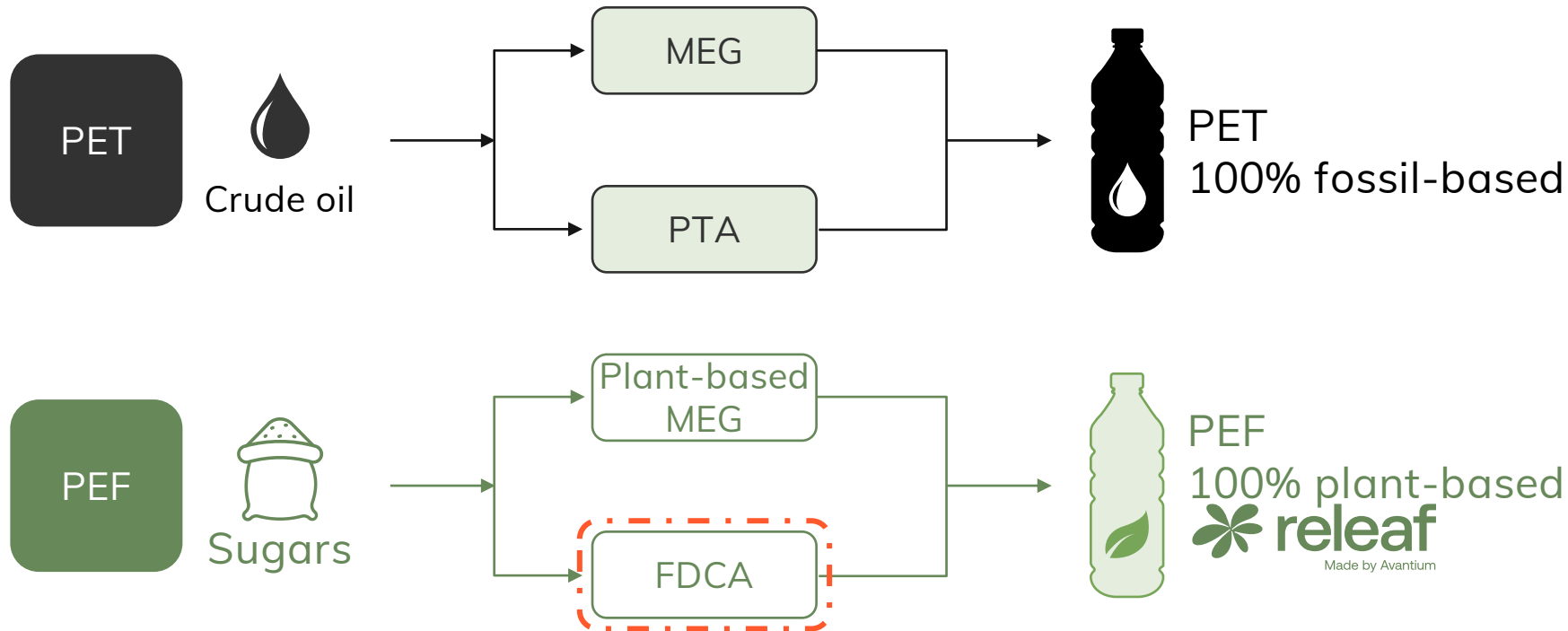
Promising market outlook for bioplastics





FDCA / PEF: Superior performance and sustainability benefits

FDCA: the key building block of PEF



PEF can be used in a very broad range of applications

Key applications

Competing materials

Addressable market¹

Avantium's partners

Bottles



Beer, Juices, Waters,
Soft Drinks

Glass, Aluminium,
PET, Multi-layer

>50 million
ton/year
>€100bn TAM



Refresco



Fibers



Textile, Upholstery,
Car Tires, Industrial
Fibers

PET, Nylon,
Cotton

>40 million
ton/year
>€80bn TAM

PANGAIA

kvadrat



Packaging & More



Food Packaging,
Non-Food
Packaging

Glass, Aluminium,
PET, Multi-layer

>25 million
ton/year
>€50bn TAM



avantium

IR Toolkit | September 2025

Notes: (1) estimated volume reflects Total Addressable Market (TAM) in 2035 with PEF at 2€/kg

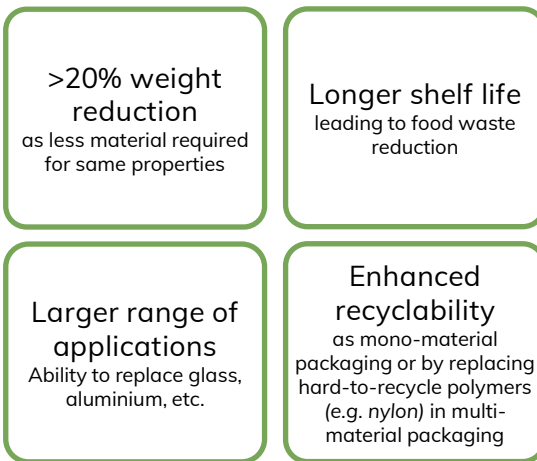
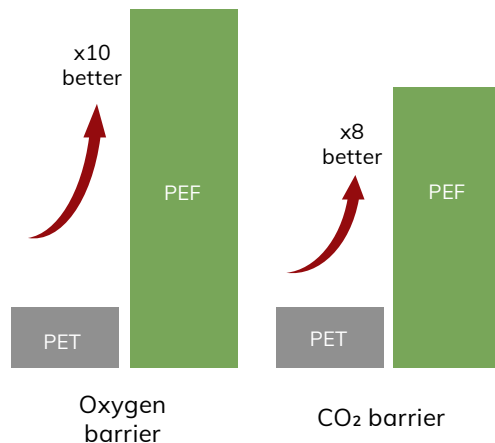
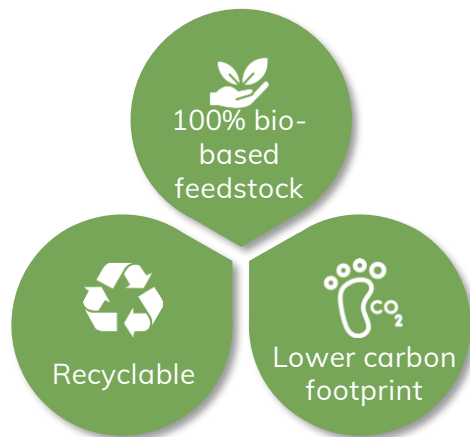
Sources: Smithers, The future of high barrier packaging films to 2024, 2021; Smithers, The future of global flexible packaging to 2026, 2021; Smithers, The future of rigid plastic packaging to 2026, 2021; Thermoformed Packaging Market to 2025, 2018; PCI Wood Mackenzie, Abstract report global Multilayer PET bottles industry to 2024, 2016; Allied Market Research

PEF sustainable and superior alternative for PET

A more sustainable product...

...with superior properties...

...providing distinctive value proposition



PEF outperforms other sustainable polymers

Key features for a viable sustainable polymer Sustainable polymers side-by-side

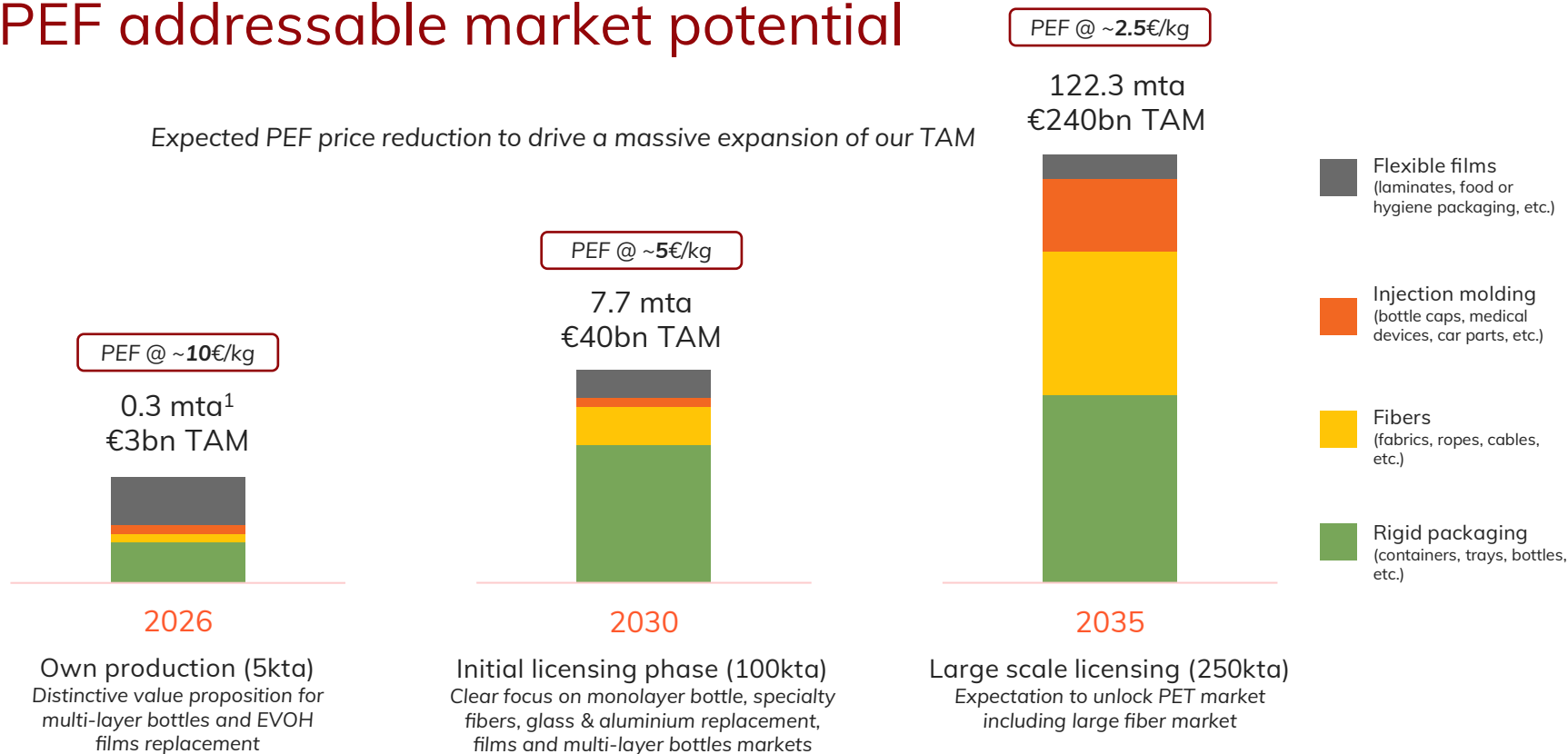
PEF combines all characteristics of a high-performance sustainable polymer

- Renewable feedstock**
Bio-based polymers reduce GHG emissions
- Performance**
High gas barrier extends shelf life and unlocks mono-material packaging
- End-of-life**
Recyclability through existing infrastructure
Degradability in industrial & natural environment

PEF	rPET	bioPET	PBS	PHA	PLA
 Bio-based	 Fossil-based	 70% fossil-based	 Bio-based	 Bio-based	 Bio-based
 High gas barrier	 Medium gas barrier	 Medium gas barrier	 Low gas barrier	 Low gas barrier	 Low gas barrier
 High recyclability (mono & multi-material)	 High recyclability (mono-material)	 High recyclability (mono-material)	 Low recyclability	 Low recyclability	 Low recyclability
 Medium-Low degradability	 Very Low degradability	 Very Low degradability	 High degradability	 High degradability	 Medium degradability

PEF addressable market potential

Expected PEF price reduction to drive a massive expansion of our TAM



PEF is both sustainable and price-competitive at scale

100kta

Competing with aluminium and glass at €5.0/kg PEF



PEF Bottle
33cl – 13.5g
PEF material cost¹
€0.07 = ~7% of end price



Glass Bottle
33cl – 200g
Glass material cost¹
€0.13 = ~13% of end price



Aluminium Can
33cl – 13g
Alu material cost¹
€0.03 = ~4% of end price

PEF reducing Global Warming Potential

↓ **76%** vs. glass

↓ **67%** vs. aluminium

250kta

Competing with mono-material PET at €2.5/kg PEF



PEF Bottle
50cl – 17.5g
PEF material cost²
€0.044 = ~3.7% of end price



rPET Bottle
50cl – 22g
rPET material cost²
€0.055 = ~4.6% of end price



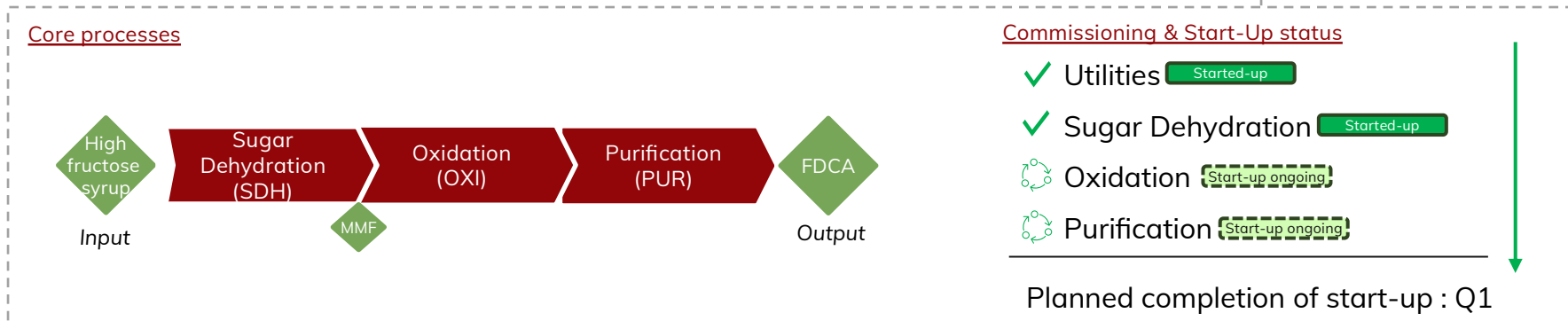
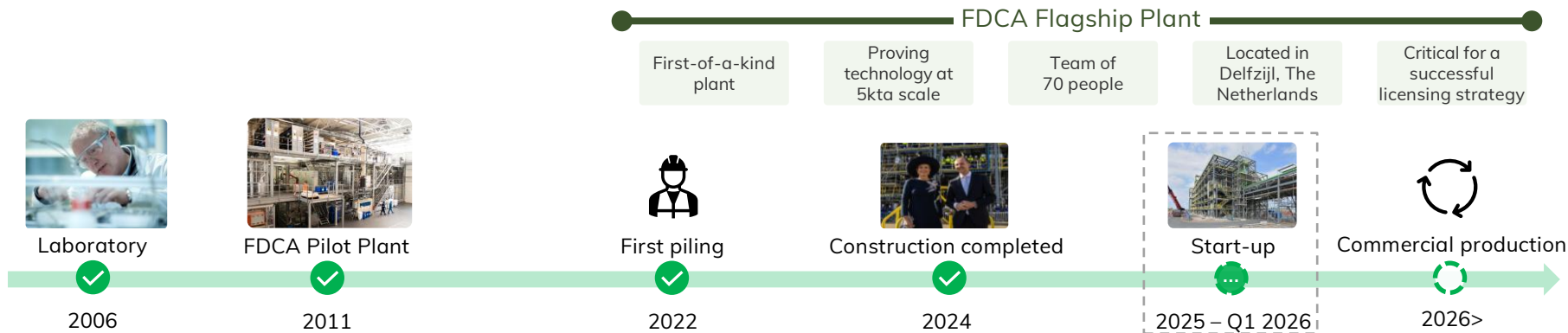
PET Bottle
50cl – 22g
PET material cost²
€0.037 = ~3.1% of end price

↓ **73%** vs. PET

Only a c. 85% recycled content PET bottle can equal PEF bottle carbon footprint

FDCA Flagship Plant

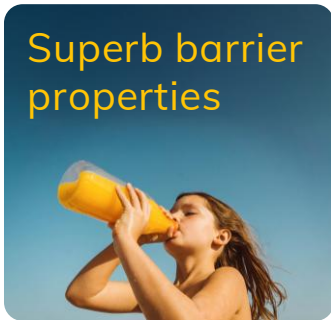
FDCA Flagship Plant start-up status



Commercializing releaf®

Releaf® | The next generation polymer, with superior performance benefits¹

Superb barrier properties



10x
better
oxygen barrier



Circular,
enhanced
recyclability,
100% plant-
based

73%
GHG emissions
reduction



8x
better
CO₂ barrier



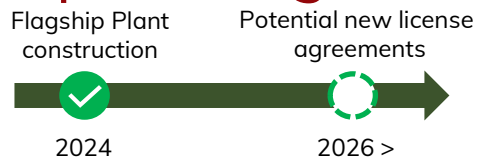
Food waste reduction:
Up to 5-6 times longer
shelf life



>20%
weight reduction



Optimizing licensing strategy through the supply chain



Feedstock

Mitigating feedstock risk through 1st and 2nd gen strategy

Commercial

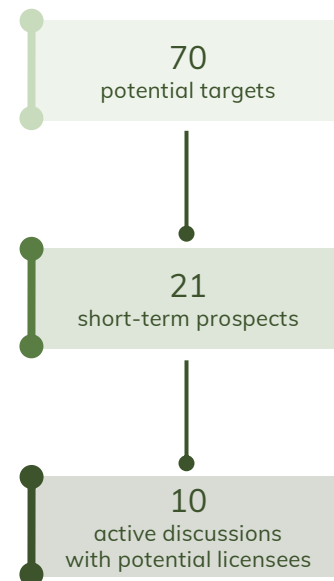
Capacity reservations for future license plants



Technology

Mitigating technology risk through FDCA Flagship Plant

Current licensing pipeline



Global FDCA licensing opportunities for Avantium

Technology licensing target customers – On a standalone or consortium basis

Customer type	Feedstock suppliers	Chemical companies	PET (/polymer) producers
Activity	Process agricultural raw materials (corn, sugar beets, wheat) to produce sugar and starch	Produce basic units of monomers (MEG, PTA, FDCA)	Combine basic units of monomers (MEG, PTA, FDCA) together to form long-chain polymers (PEF, PET)
Illustrative companies	    	        	         
Rationale for licensing	Interested in expanding their value chain	Meet their 2030 CO ₂ reduction goals by portfolio expansion	Moving from PET to PEF production using existing assets for a greener value and superior performance proposition

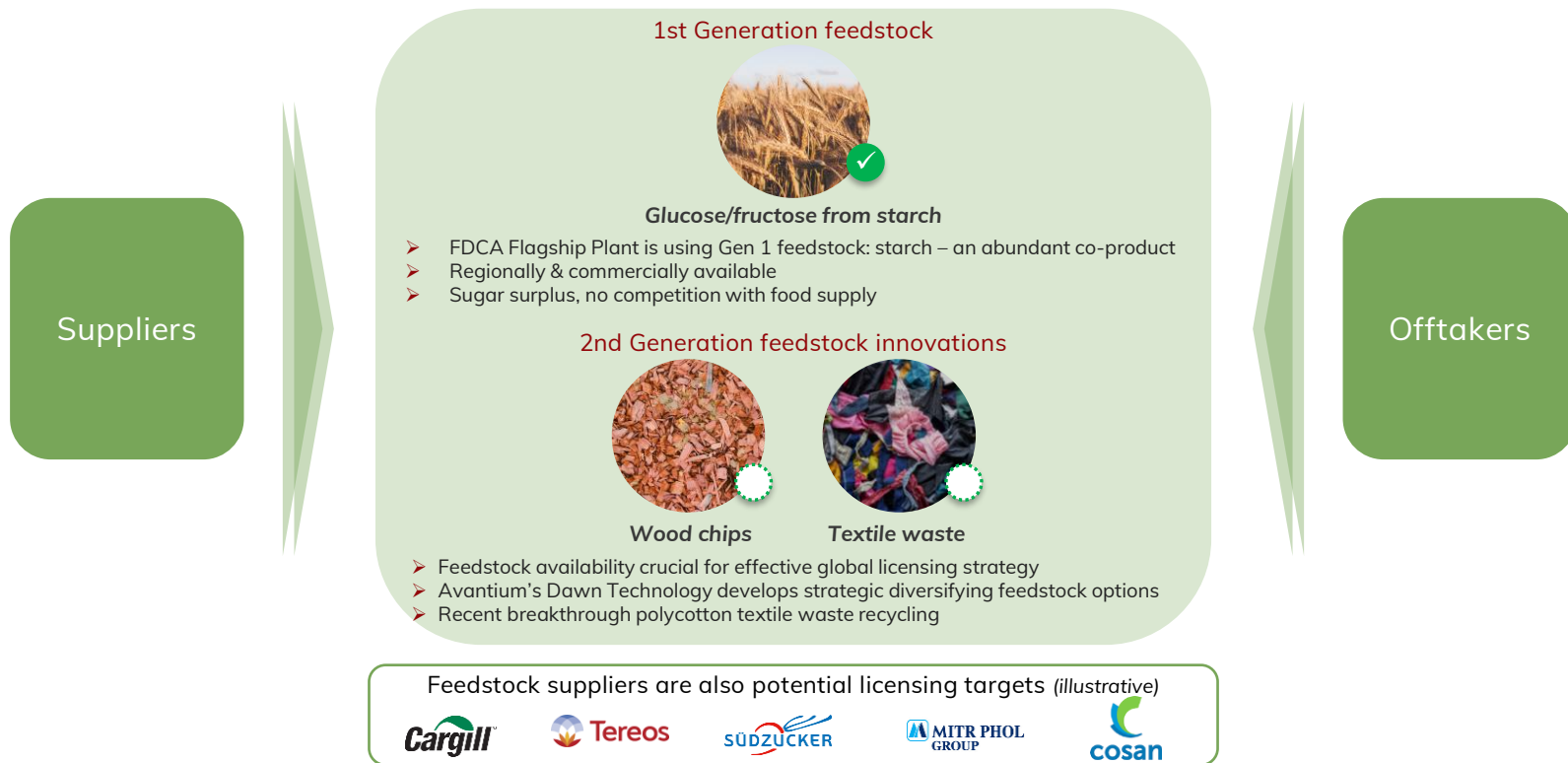
Key considerations on licensing



Our ambition

4 licenses in place by end of 2027

FDCA – feedstock agnostic, utilising Gen 1 and 2 feedstocks



2nd generation feedstock: Dawn/Yukon technology enabling to use polycotton textile waste for feedstock

The technology

- Avantium (together with the University of Amsterdam) developed a patented technology to break down cotton in polycotton textile waste into an intermediate for **FDCA/PEF (based on 2G feedstock)**, while leaving the polyester intact for fiber-to-fiber recycling



Textile waste management

- Addressing global waste problem
149m tons of expected textile production by 2030
< 1% - current recycling rate¹
- Avantium's technology aligns with new regulations that make textile producers responsible for waste management

Business case

- Scalable and cost competitive: successful Avantium Dawn pilot plant tests demonstrate high yields from polycotton waste, proving the method's scalability and cost-effectiveness

Strategic importance

- Feedstock agnostic approach: reinforces the commercial potential of FDCA / PEF, supports Avantium's licensing strategy



Key takeaways

1

Most advanced
FDCA & PEF
player worldwide

Most advanced technology, strong IP portfolio, global leader in the commercialization of FDCA/PEF

2

FDCA Flagship
Plant start-up

Successfully started up the utilities and Sugar Dehydration (SDH) unit. Oxidation unit and Purification unit start-up underway

3

Strong commercial
momentum

- i. Commercial scale FDCA production start-up in Q1 2026
- ii. 20 Contracted offtakes by industry leaders
- iii. 7 Capacity reservations for future plants
- iv. Pro-active licensing strategy; 1 license agreement in place

4

Comprehensive
financing package

As part of a comprehensive financing package, raising €65million in equity, with a €15 million cornerstone placement from Dutch Ministry of KGG, to fund completion of start-up of the Flagship Plant, accelerate licensing deployment and expand FDCA/PEF applications

5

Clear path to
profitable growth

Ambition: €90 million¹ revenues and EBITDA break-even in 2027



Appendix

Glossary

FDCA: Furandicarboxylic Acid

FDME: Furandicarboxylic Methyl Ester

FEED: Front End Engineering Design

FID: Final Investment Decision

HFS: High-Fructose Syrup

JV: Joint-Venture

MEG: Mono-Ethylene Glycol

MF: Methylfurfural

ML: Methyl Levulinate

MTA: Million Metric Tons Annually

NPV: Net Present Value

PEF: Polyethylene Furanoate

PET: Polyethylene Terephthalate

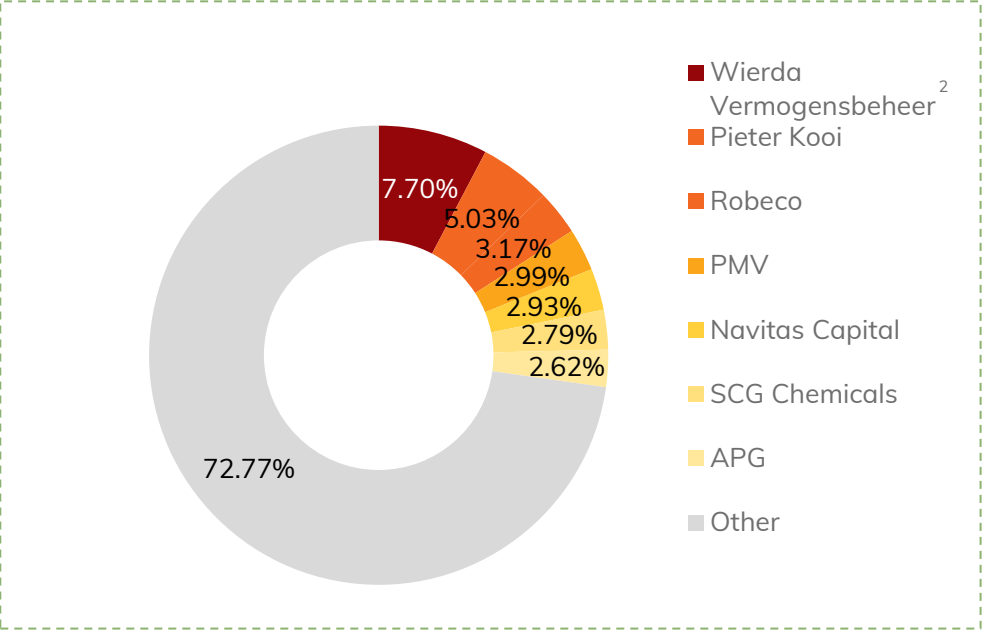
PTA: Purified Terephthalic Acid

RDS: R&D Services

TAM: Total Addressable Market

Capital market snapshot

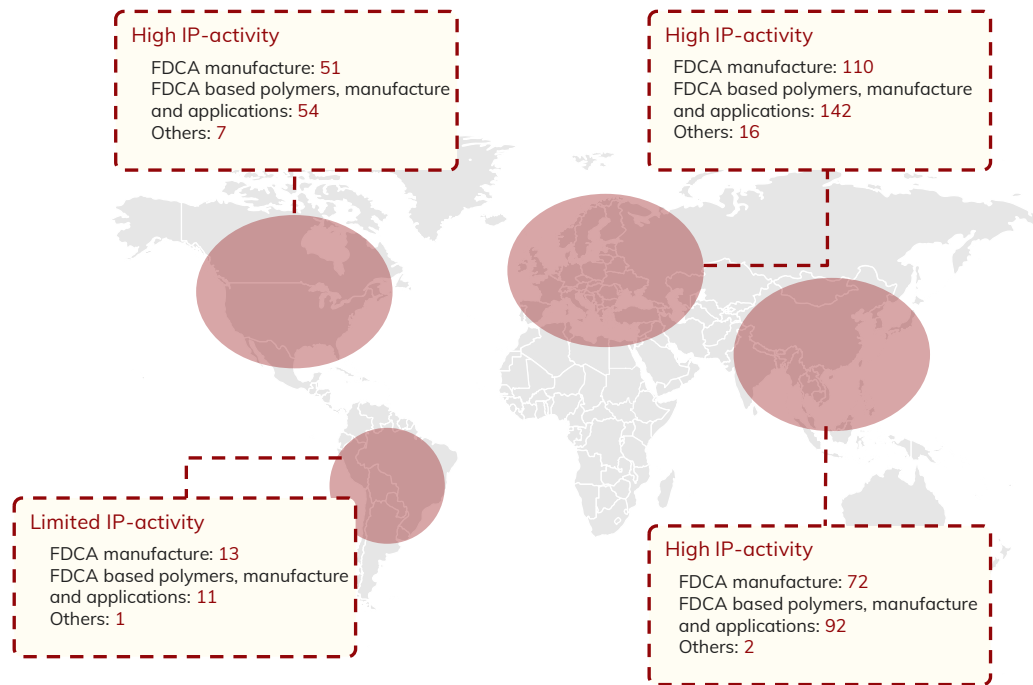
Shareholding structure¹



Share Capital²

Shares Outstanding	8,802,388
Dilutive instruments ³	2,147,476
Stock Exchange	- Euronext Amsterdam - Euronext Brussels
Ticker	AVTX

Avantium owns the necessary IP for production and licensing of FDCA and its high value applications

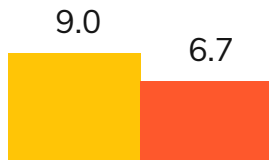


IP across further businesses

- Avantium has **175+ patent families¹** containing **1,125 rights**
- Besides FDCA (72 families, 578 rights), Avantium holds the IP required for the execution of its commercial strategy for all other technologies (R&D Solutions, Ray Technology, Volta Technology and Dawn Technology)
- Avantium actively manages its IP portfolio including review of third-party patent positions
- Avantium has a dedicated team of in-house patent attorneys

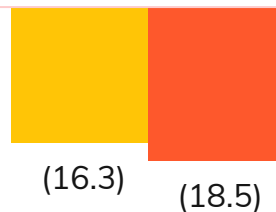
1H 2025 financial highlights (€ millions)

Revenues



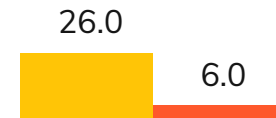
■ 1H24 ■ 1H25

EBITDA



■ 1H24

Investments



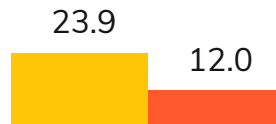
■ 1H24 ■ 1H25

Other income (grants)



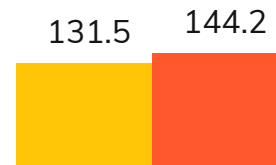
■ 1H24 ■ 1H25

Cash position



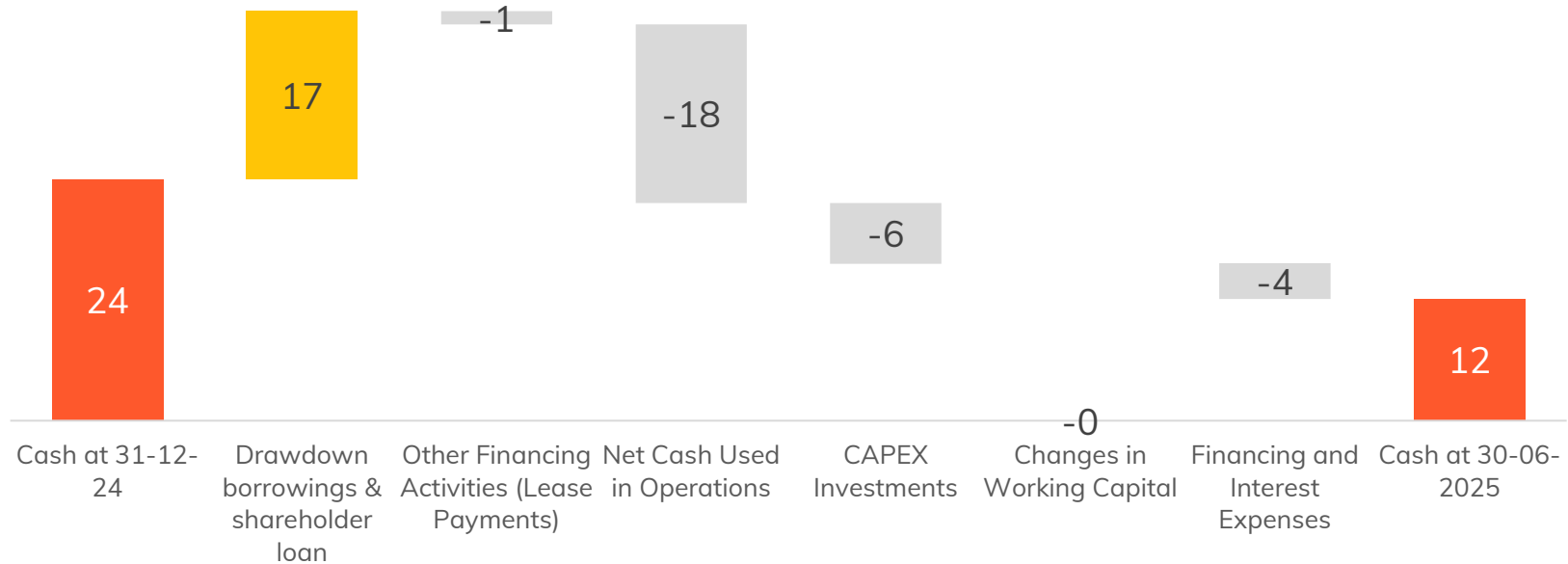
■ FY24 ■ 1H25

Borrowings



■ FY24 ■ 1H25

1H 2025 cash flows (€ millions)



Broad range of applications



Stricter European regulations increase the need for truly sustainable solutions, requiring short-term investments



Packaging and Packaging Waste Regulation (PPWR): regulates what kind of packaging can be placed on the EU market, as well as packaging waste management and prevention measures

Entered into force on February 11, 2025

2030 - packaging full recyclability
2040 - 15% reduction in per capita packaging waste
2050 - climate neutrality in the packaging sector



Clean Industrial Deal: outlines concrete actions to turn decarbonization into a driver of growth for European industries, including actions for the use of recycled and biobased materials *Presented on February 26, 2025, by European Commission*

2026
Public procurement rules revised to favor sustainable and European products, with €100bn mobilized for clean manufacturing

4. IR contact

Questions about investing in Avantium?
Please don't hesitate to reach out!



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