

Avantium Investor Presentation

October 2026

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Today’s speakers



Tom van Aken

CEO

avantium Since 2002

30y of industry experience

Selected previous experience:

DSM



Rogier van Wijk

CFO

avantium Since 2026

25y of industry experience

Selected previous experience:

cyclomedia PHILIPS TPV intertrust



Aarne Luten

Director IR

avantium Since 2023

17y of industry experience

Selected previous experience:

SBM OFFSHORE newmotion A Member of the Shell Group

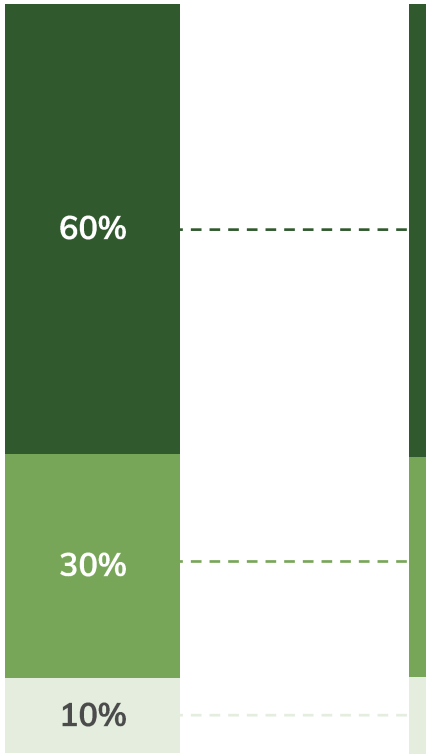
Terms of the Rights Offering

Issuer	▪ Avantium N.V. (the "Company")
Listing venue | Ticker | ISIN	▪ Ordinary shares: Euronext Amsterdam and Euronext Brussels | AVTX | NL0015002IE0 ▪ Rights: Euronext Amsterdam | AVTRI | NL0015074EO7
Offer type	▪ Fully committed and underwritten Rights Offering
Offer size	▪ c.€55m, corresponding to 33,608,956 Offer Shares and with expected net proceeds of c.€50m ▪ Potential additional issuance of up to c.€7.4m through a separate placement: o up to €2.4m to the cornerstone investors, to the extent their cornerstone commitment cannot be satisfied in full through the Rights Offering and the Rump Offering o up to €5m upsize option to investors who subscribed in the Rump Offering but whose subscriptions could not be allocated in full
Subscription price	▪ €1.65 per share
Subscription ratio	▪ 4 new shares for 3 existing shares (1 right per existing share)
Theoretical ex-rights price (TERP)	▪ €2.88 (based on €4.515 closing price as of 26 October 2026)
Discount to TERP	▪ 42.7%
Pre-commitments	▪ €13.4m or 24.2% of the Rights Offering from existing shareholders and cornerstone investors
Underwriting	▪ The balance of €42.0 million is underwritten by Invest-NL Capital N.V., ABN AMRO, BNP PARIBAS and Stifel Europe
Distribution and Rump	▪ Offer to existing shareholders via exercise of Rights (subscription on an irreducible basis) ▪ Any Offer Shares not subscribed through the exercise of Rights will be offered for sale, at issue price: o to cornerstone investors who committed upfront and will have a guaranteed allocation (whether through placement of the rump or upsize offer) o via excess application for holders of rights (subscription on a reducible basis) o via private placement to institutional investors in a rump placement
Lock-up	▪ 180-day lock-up for the Company ▪ 90-day for Pre-Committed Shareholders and Cornerstone Investors
Syndicate	▪ Joint Global Coordinators & Joint Bookrunners; ABN AMRO, BNP PARIBAS and Stifel Europe ▪ Subscription, Listing & Paying Agent: ABN AMRO

Use of Proceeds

c.€50m

Expected Net Proceeds Rights Offering



Working capital

Provide the necessary liquidity to fund operating expenses and working capital needs for its core Avantium Renewable Polymers business. This includes, but is not limited to, raw materials and finished goods, and other costs required to maintain the Group's operations and financial stability. Of these working capital needs, approximately:

(i) 60% relates to the ramp-up of the FDCA Flagship Plant. These proceeds may, for example, be used to (A) cover the working capital necessary to keep the ramp-up process of the FDCA Flagship Plant going, (B) address process instabilities or product quality failures that arise and require action, which may involve troubleshooting and debottlenecking activities, and (C) any other issues or challenges that arise during the ramp-up; and

(ii) 40% relates to investments in strengthening the commercial, technology, and engineering activities within the Renewable Polymers business unit, such as marketing costs, business travel and commercial personnel costs, to facilitate and potentially accelerate the sale and execution of the YXY® Technology Licenses to third parties, supporting the Group's transition from an R&D- and capital expenditure-heavy project phase to an industrial and commercial company focused on the production and commercialization of FDCA and PEF and the sale of YXY® Technology Licenses

General corporate expenses

fund general corporate expenses related to the day-to-day management of the Company, executing the strategic portfolio review process of the non-core activities and providing overhead services (including finance, human resources, legal, marketing and communications, intellectual property, information technology and quality, safety, health and environment)

Financing costs

fund the Company's financing costs (cash interest costs related to the Debt Financing Facilities) and forecasted capital expenditures

These funds are expected to cover Avantium's funding requirements and ensure that Avantium remains properly capitalized until it reaches EBITDA break-even point at Group level, which is expected to occur by December 2027

Additional €20m Subordinated Loan Provided by NOM (Dutch Government related)

Term-sheet signed

- **Tranches & maturity**: 4 tranches of €5.0 million each, linked to milestones; maturity of 3 years
- **Cost**: 12-month Euribor plus 10% per annum, accruing on a payment-in-kind basis and capitalized and added to the principal amount
- **Closing conditions**: Approvals from the Province of Groningen and the Ministry of Economic Affairs and Climate Policy, successful completion of the Offering and other customary conditions. The parties aim to close before 31 December 2026
- **Conversion**: if not repaid at maturity, outstanding amounts (incl. PIK interest) may convert into shares on terms to be agreed in good faith

Indicative timetable

Event	Date and Time
Launch of the Offering and publication of the Prospectus	27 October 2026
Ex-rights date and start of trading in the Rights commences on Euronext Amsterdam and Euronext Brussels	28 October 2026 (09:00 CET)
Start of the Offering period and Exercise Period	28 October 2026 (09:00 CET)
Record Time	29 October 2026 (17:40 CET)
End of trading in the Rights on Euronext Amsterdam and Euronext Brussels	6 November 2026 (17:36 CET)
End of the Exercise Period and Excess Application	10 November 2026 (17:45 CET)
Start Rump Offering	10 November 2026 (after 17:45 CET)
End of Rump Offering	11 November 2026 (before 09:00 CET)
Allotment and issue of the Offer Shares and publication of a press release by the Company announcing the results of the Offering	11 November 2026 (before 09:00 CET)
Settlement Date (T+2)	13 November 2026
Listing of and start of trading in the Offer Shares on Euronext Amsterdam and Euronext Brussels	13 November 2026 (09:00 CET)

Avantium made significant progress over the last 12 months

Completion of FDCA Flagship Plant ✓	Flagship Plant Start-up: 1st FDCA batch produced; working toward 1st sales under offtake agreements to commence end of 2026
Commercial momentum ✓	23 offtakes for FDCA Flagship Plant product sales; 17 capacity reservations (totaling >150kta) for license plants product sales, representing product value of €750m per year
Financial discipline ✓	Headcount reduced by 15% since mid-year 2025; continuing to align organizational structure
Portfolio strategic focus ✓	Ray divested, Volta & Parana spin-outs completed
Profitability target	Financial ambition: c.€90m annualized revenue and EBITDA break-even point from December 2027 onwards

Avantium enters commercial stage

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

Technology Leader
Transforming sugars into FDCA, the key building block for PEF (branded as releaf®), at the world's first commercial-scale FDCA plant

Commercial Stage
Expecting first revenues from the FDCA Flagship Plant end of 2026; licensing model to generate future milestone & royalty revenues

Superior Performance
Higher oxygen & CO_2 barrier than PET: longer shelf life, lighter packaging

Commercial Pipeline
FDCA Flagship Plant: 23 offtakes license plants: 17 capacity reservations, >150kta secured

Global Market Development
Launching FDCA & PEF applications with leading brand owners worldwide

Strong IP Portfolio
70 patent families protecting the YXY® Technology

Pioneer since 2000
25+ years of expertise, Amsterdam HQ & 240 FTE

Publicly Listed
Euronext Amsterdam & Brussels



Note: PEF = Polyethylene Furanoate; YXY = Avantium's sugar to FDCA technology; FDCA = Furandicarboxylic Acid

Two revenue engines, one path to EBITDA break-even

The Avantium business model

avantium

FINANCIAL AMBITION:

c.€90m annualized revenue & EBITDA break-even point at the Group level from December 2027 onwards

1 FDCA FLAGSHIP PLANT PRODUCT SALES

Tangible, contracted, near-term revenue

PRODUCT: FDCA and PEF (releaf®) produced in-house

ECONOMIC VALUE: c.€55m revenue per annum at full capacity

PROOF TODAY: First commercial sales expected at the end of 2026 under the 23 offtake agreements

SCALE: 5 kilotons per annum

2 TECHNOLOGY LICENSING & ROYALTIES

Capital-light, project-driven, scalable cash-flow

PRODUCT: Licenses to build and operate FDCA plants

ECONOMIC VALUE: Upfront and milestone payments (c. <50% value) plus royalties (c. >50% value)

PROOF TODAY: >150kta of capacity reservations for future licensed plants

SCALE: Ambition of 2 licenses in place by end-2027

First FDCA produced, commercial inflection imminent

Transitioning from an R&D, pre-revenue Company...



FDCA Flagship Plant



releaf
Made by Avantium

Construction phase
2022 - 2024

Start-up & Commissioning
2024 - 2026

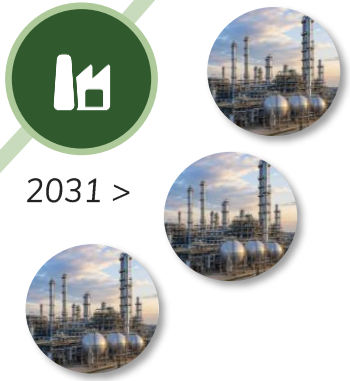
Titanium welding remediation program
April 2026

First batch of FDCA produced
September 2026

Commercial inflection: start of first commercial sales
Expected: End of 2026

Targeting c.€90m annualized revenue & EBITDA break-even point
December 2027

First potential license plants on-stream
2031 >



Illustrative License Plants

...to a commercial stage Company

Momentum through a wide network of committed partners



23
Offtake Agreements

17
Capacity Reservations, equaling >150kta, baseloading multiple license plants

1
Technology License Agreement

avantium

Commercial agreements status as of 1 October 2026

= Confidential / undisclosed

PEF: the next-generation performance material

Superior barrier properties

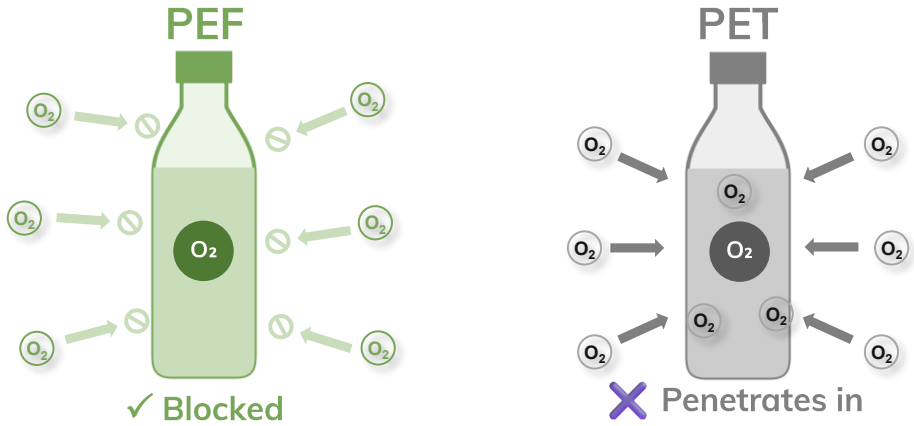
PEF vs PET

CO_2 Barrier – Keeping CO_2 IN



PEF CO_2 barrier is **15x** better than PET

O_2 Barrier – Keeping O_2 OUT



PEF O_2 barrier is **10x** better than PET

Distinctive value proposition

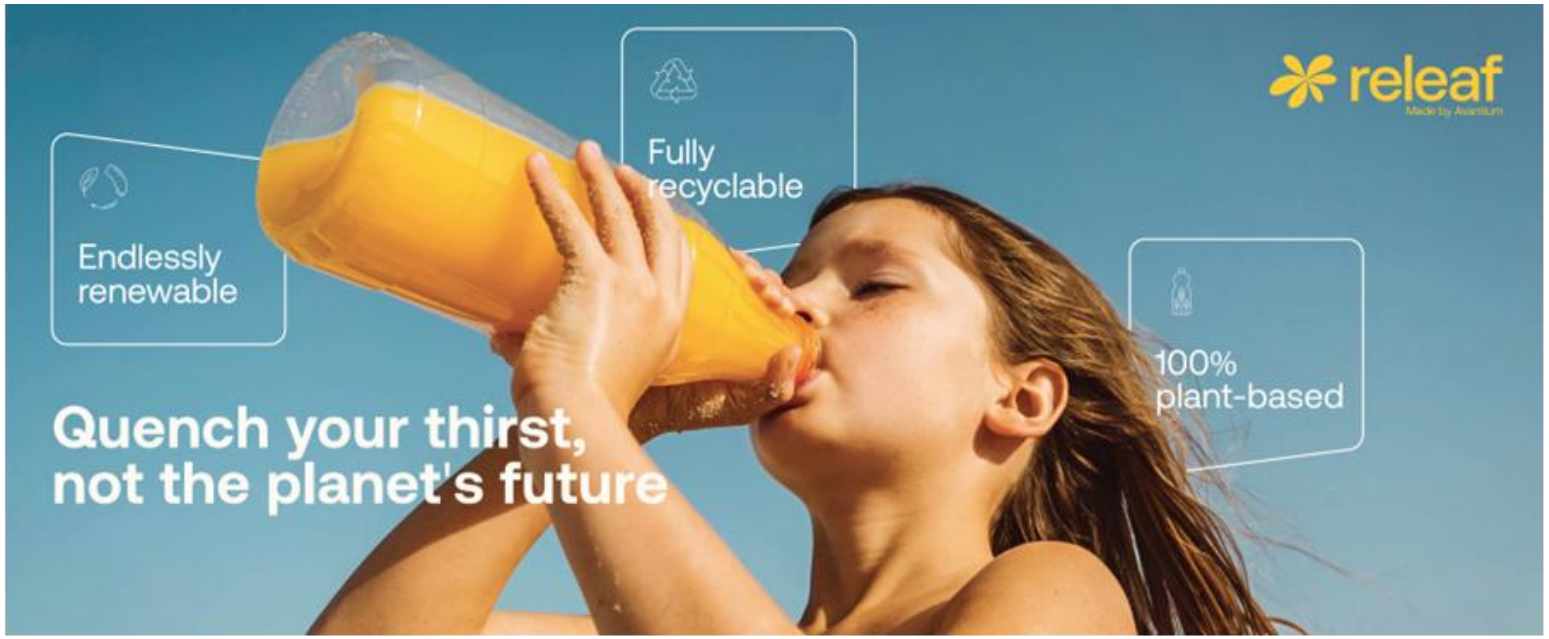
- **>20% weight reduction** — Less material required for same performance
- **Longer shelf life** — Food waste reduction
- **Broader applications** — Replaces glass, aluminium and PET
- **Better recyclability** — Mono-material, replaces nylon layers

Sustainability benefits

- 100% bio-based feedstock
- Fully recyclable
- Up to 88% lower carbon footprint

Sources: Avantium and Nova Institute, PEF – A Sustainable Packaging Material for Bottles - ISO Certified LCA of Avantium's PEF products, 2022; University of Aberdeen, PEF plastic synthesised from industrial carbon dioxide and biowaste, 2020; Journal of Ecological Engineering, Energy Inputs on the Production of Plastic Products, 2022; RECORD, Chemical and physico-chemical recycling of plastic waste, 2022; Avantium, The Journey of Avantium's PEF towards Commercialisation, 2021

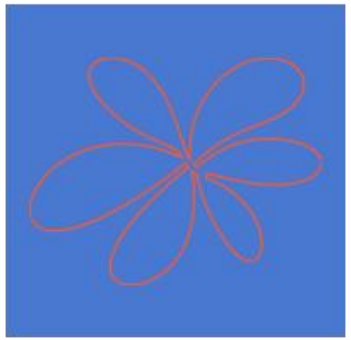
Marketed as releaf®











Scalable licensing model enables early milestone payments and stable recurring royalty revenue

Economics of Avantium's licensing model

License value

<50% Milestone payments € *pre-FID & EPC phases*

+

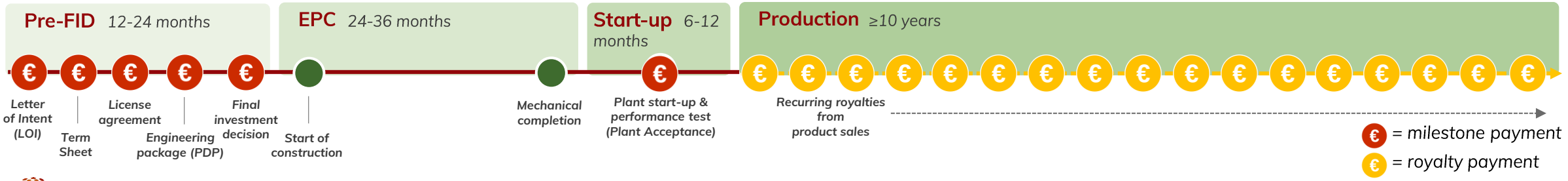
>50% Royalty payments € *product sales*

- ✓ **Capital-light model**: plant CAPEX is funded by licensees
- ✓ **Accelerating cash generation**: receipt of milestone payments during pre-FID, start-up and plant acceptance, ahead of recurring royalties in production phase
- ✓ **Long-term recurring revenue**: royalties on product sales over a period of ≥10 years per licensed plant across a scalable licensing portfolio

Licensed Plant – *Illustrative economics for prospective licensees*

FDCA (PEF) Capacity	100kta (c.115kta)
Site	Brownfield in Europe / Access to existing polymerization plant
Capital Investment	c.€500-700m[1]
Revenue	c.500m €/yr
EBITDA Margin	>35%[1]
Project IRR	≥17%

Illustrative timeline[2] and cash flows[2] of Avantium's licensing model



Note: 1) Pertains to W-EU Brownfield, fructose-to-FDCA, fully equity funded scenario; 2) timeline and cash flows not to scale, structuring of milestone payments and royalty revenues is contract dependent and may vary per contract

Three-pillar licensing strategy to de-risk adoption for future licensees

Validating and de-risking the licensing model for future licensees

1 Commercial

>150kta of cumulative signed capacity reservations for future license plants

= more than one license plant (100kta)

Signed capacity reservations:

amcor · hordijk Verpakkingen · HOOGESTEGER partner in premium freshness · BIOVOX · Packamama · Logoplaste · HELIOS RESIN · KA SUNO Driven by expertise · kp · + 8 undisclosed companies

2 Technology

De-risking technology risk by proving **commercial-scale production** in the **FDCA Flagship Plant**







3 Feedstock

Ensuring feedstock flexibility through a **1st and 2nd generation** sourcing strategy

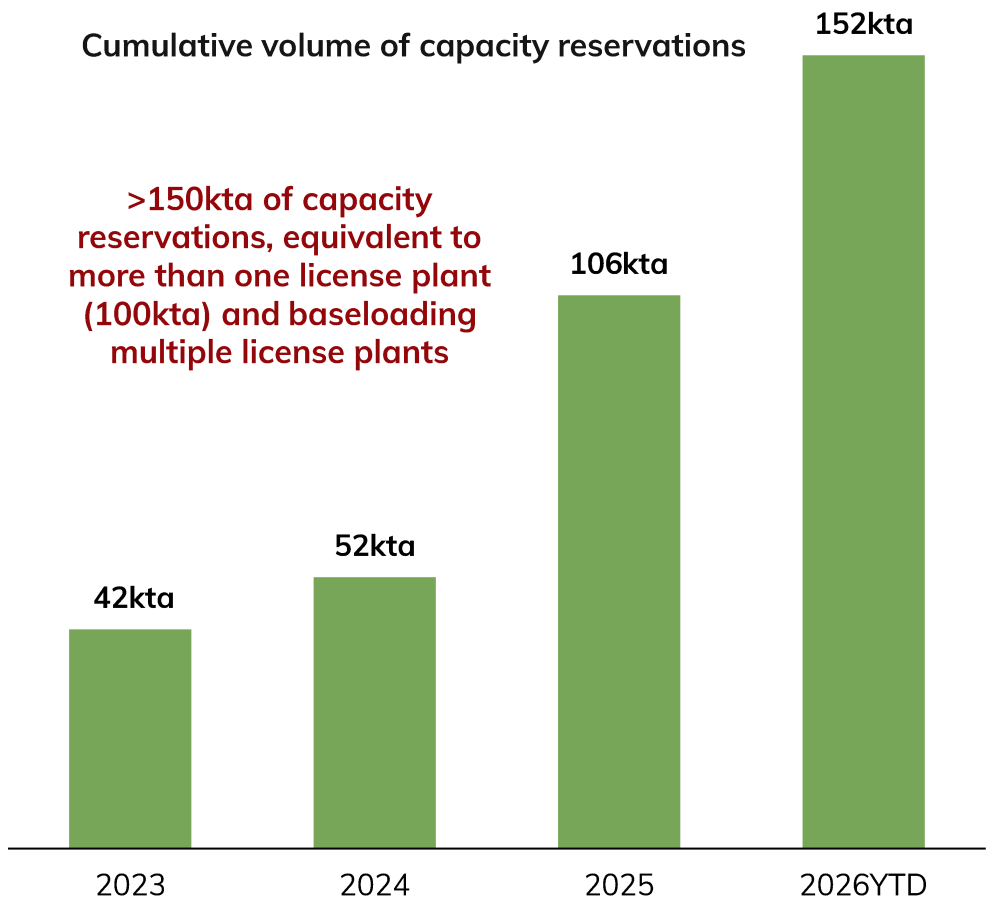




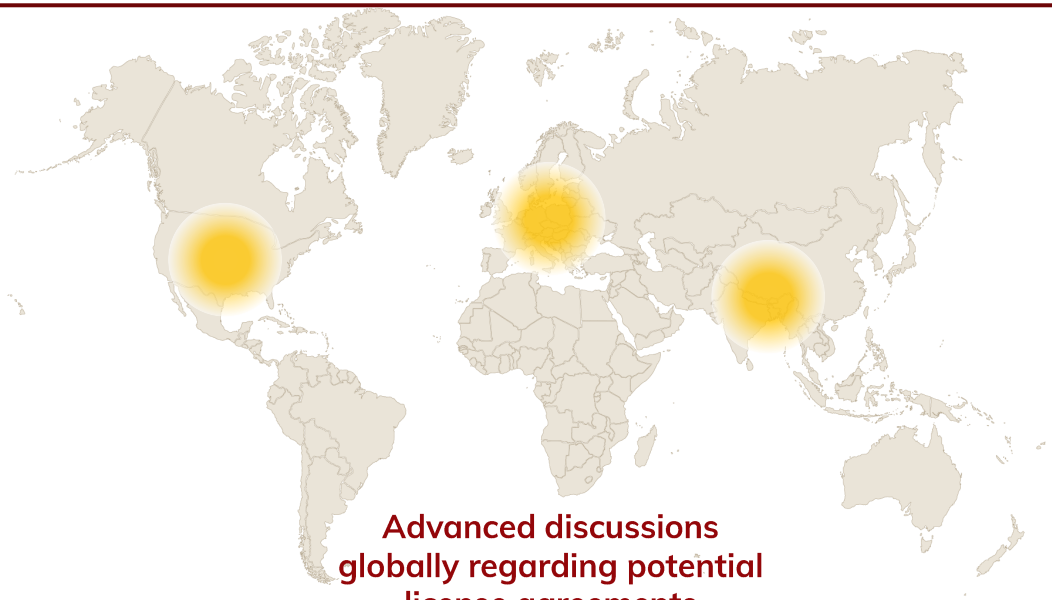


Strong capacity-backed licensing momentum

Growing number of capacity reservations for future plants...

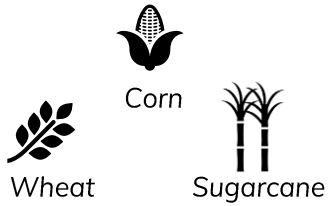


...supports active engagement with potential licensees

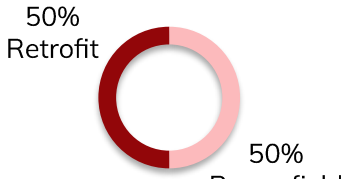


Advanced discussions globally regarding potential license agreements

Type of feedstock



Type of project



Type of licensee

- Global industrial players
- Consortium
- Family-owned enterprise

Global FDCA licensing opportunities for Avantium

Technology licensing target customers; on a standalone or consortium basis

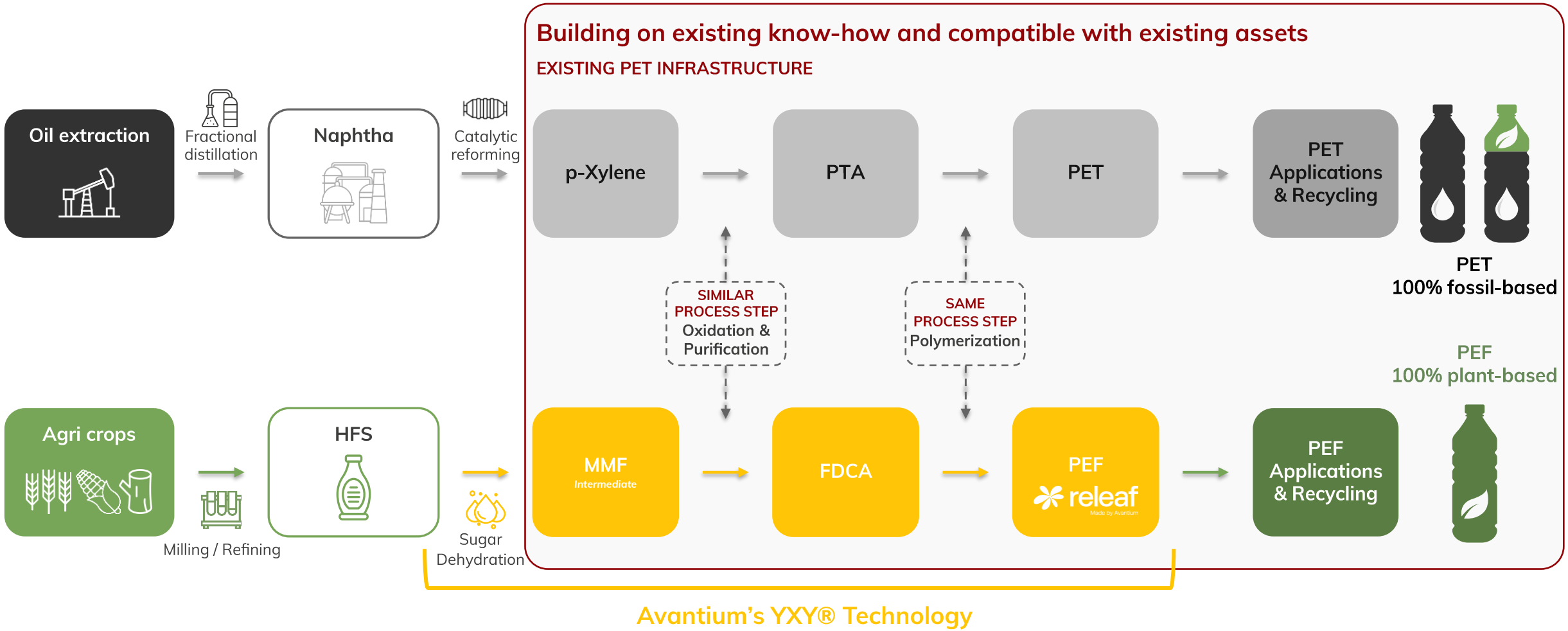


Key considerations on licensing

- **Attractive market and business case**
- **Ability to retrofit existing assets vs brownfield** (proximity to existing production infrastructure)
- **Regulations and incentives**
- **De-risked technology, proven at scale**
- **Feedstock availability**

Industrializing the technology

Value chain comparison of PEF and PET



FDCA Flagship Plant: first FDCA produced



Ramp-up phase of 24 months

1st FDCA produced
✓
September 2026

1st commercial volumes
Expected: end of 2026

Full production
Expected: H2 2028

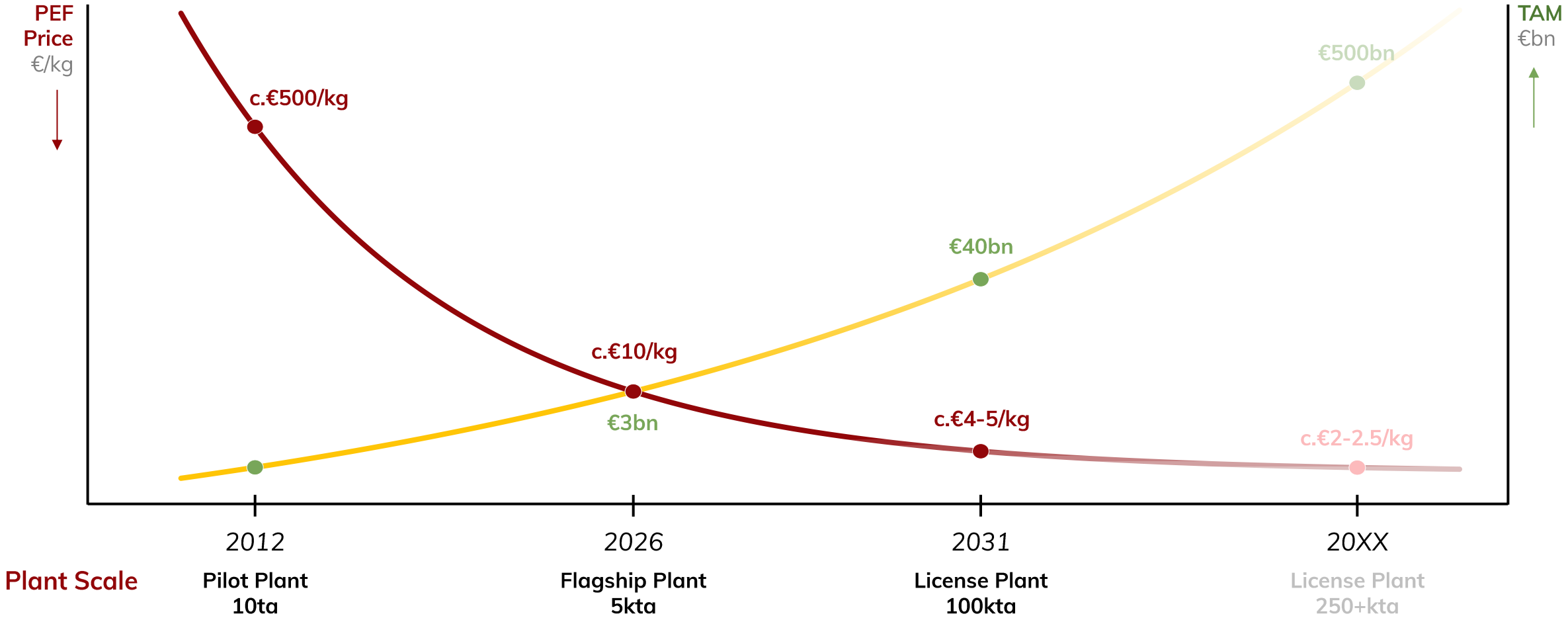
FDCA Flagship Plant

1st	5kta	€55m	70
First-of-a-kind commercial FDCA plant	Nameplate production capacity, proving technology at scale	Revenue at full capacity per annum[1]	People working in a dedicated Flagship Plant team

Note: 1) Includes sale of humins: a plant-based, carbon-rich by-product produced during the production of FDCA

Scale drives economics

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



Note: chart is not to scale

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 is price-competitive at scale

Costs per unit for material, manufacturing and filling[1]

100kta scale PEF at €5/kg



PEF	Aluminium	Glass
€0.11	**€0.10**	**€0.11**

Scale drives price-competitiveness

PEF vs Glass and Aluminium

100kta scale: 330ml PEF bottle roughly similar price level versus glass bottle or aluminium can (energy costs of aluminium cans and glass bottles are significantly higher than PEF bottles)

PEF vs PET

250kta+ scale: potential to unlock price levels making PEF competitive with PET

Source: Beverage Containers in Europe: A Cost Chain Comparison, Schönwald Consulting (2025). Note 1.) applies to 330 mL carbonated CSD manufactured in EU

FDCA / PEF: Superior performance and sustainability benefits

Plant-based releaf ® juice drinks

Keeps it fresh

- **Protect O_2 sensitive beverages**
  10x higher barrier vs PET
- **Protects vitamin C content**
- **Preserves natural color**



Plant based & Future proof

- **Recyclable**
- **Reduced carbon footprint**

Addressable market for bottles

> 50 million ton/year
> €250 bn

More value & Cost competitive

- **Robust material & Lightweighting**
- **Roughly similar price level as glass & aluminium (330 mL)**

Avantium's partners

Examples

Refresco

HOOGESTEGER
partner in premium freshness

Notes: estimated volume reflects Total Addressable Market (TAM) in ton PEF equivalent (2030). (2) Addressable Market is presented by bottles (glass, aluminium cans, and PET), Packaging (Trays, Flexibles, Cosmetics), and Textiles. (3) Sources: Global Glass Bottles Market Forecast to 2033 (Spherical insights, 2024) - The Future of Metal Packaging and Coatings to 2029 (Smithers, 2024), Global PET long-term supply and demand outlook H2 2024 (WoodMackenzie, 2024). The Future of Rigid Plastic Packaging to 2026 (Smithers, 2021), The Future of High-Barrier Films for Packaging to 2024 (Smithers, 2019) Textile Exchange Materials Market Report (2025)

Plant-based releaf ® carbonated soft drinks

Keeps the fizz

- **Protect O2 sensitive beverages**
  10x higher barrier vs PET
- **Protect CO2 sensitive beverages**
  15x higher barrier vs PET



Plant based & Future proof

- **Recyclable**
- **Reduced carbon footprint**

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Avantium's partners

Examples

ambev Resilux Plastipak

Notes: estimated volume reflects Total Addressable Market (TAM) in ton PEF equivalent (2030). (2) Addressable Market is presented by bottles (glass, aluminium cans, and PET), Packaging (Trays, Flexibles, Cosmetics), and Textiles. (3) Sources: Global Glass Bottles Market Forecast to 2033 (Spherical insights, 2024) - The Future of Metal Packaging and Coatings to 2029 (Smithers, 2024), Global PET long-term supply and demand outlook H2 2024 (WoodMackenzie, 2024). The Future of Rigid Plastic Packaging to 2026 (Smithers, 2021), The Future of High-Barrier Films for Packaging to 2024 (Smithers, 2019) Textile Exchange Materials Market Report (2025)

Mono and multilayer releaf ® for food trays

Keeps it Fresh & Safe

- **High oxygen Barrier**
  10x vs PET
- **Improved water barrier**
  3x vs PET



Plant based & Future proof

- **Reduced carbon footprint**
- **Improved recyclability**
- **Lightweighting**

Addressable market for packaging

> 20 million ton/year
> €100bn

More value & Cost competitive

- **Replacing high-cost barrier materials**
- **Lower EPR fees due to improved recyclability**

Avantium's partners

Examples

Notes: estimated volume reflects Total Addressable Market (TAM) in ton PEF equivalent (2030). (2) Addressable Market is presented by bottles (glass, aluminium cans, and PET), Packaging (Trays, Flexibles, Cosmetics), and Textiles. (3) Sources: Global Glass Bottles Market Forecast to 2033 (Spherical insights, 2024) - The Future of Metal Packaging and Coatings to 2029 (Smithers, 2024), Global PET long-term supply and demand outlook H2 2024 (WoodMackenzie, 2024). The Future of Rigid Plastic Packaging to 2026 (Smithers, 2021), The Future of High-Barrier Films for Packaging to 2024 (Smithers, 2019) Textile Exchange Materials Market Report (2025)

Plant-based releaf® for cosmetics packaging

Excellent Barriers & Design advantages

- High moisture barrier
- Lightweight
- Transparent
- Compatible with variety of formulas



Plant based & Future proof

- Reduced carbon footprint
- Improved recyclability

Addressable market for packaging

> 20 million ton/year
> €100bn

Cost competitive

Cost competitive with high-end technical plastics and glass

Avantium's partners

Examples

LVMH PERFUMES & COSMETICS

texen

Notes: estimated volume reflects Total Addressable Market (TAM) in ton PEF equivalent (2030). (2) Addressable Market is presented by bottles (glass, aluminium cans, and PET), Packaging (Trays, Flexibles, Cosmetics), and Textiles. (3) Sources: Global Glass Bottles Market Forecast to 2033 (Spherical insights, 2024) - The Future of Metal Packaging and Coatings to 2029 (Smithers, 2024), Global PET long-term supply and demand outlook H2 2024 (WoodMackenzie, 2024). The Future of Rigid Plastic Packaging to 2026 (Smithers, 2021), The Future of High-Barrier Films for Packaging to 2024 (Smithers, 2019) Textile Exchange Materials Market Report (2025)

Plant-based releaf® for textile

Performance

- Less odor due to higher antibacterial activity
- In process of discovering additional benefits



Plant based & Future proof

- Reduced carbon footprint

Addressable market for textile

> 100 million ton/year
> €200bn

Energy & cost saving

Savings due to lower dyeing temperature

Avantium's partners

Examples

Casa da Malha

Lacatoni

monosuisse

kvadrat

TRICOVER SINCE 1979

Notes: estimated volume reflects Total Addressable Market (TAM) in ton PEF equivalent (2030). (2) Addressable Market is presented by bottles (glass, aluminium cans, and PET), Packaging (Trays, Flexibles, Cosmetics), and Textiles. (3) Sources: Global Glass Bottles Market Forecast to 2033 (Spherical insights, 2024) - The Future of Metal Packaging and Coatings to 2029 (Smithers, 2024), Global PET long-term supply and demand outlook H2 2024 (WoodMackenzie, 2024). The Future of Rigid Plastic Packaging to 2026 (Smithers, 2021), The Future of High-Barrier Films for Packaging to 2024 (Smithers, 2019) Textile Exchange Materials Market Report (2025)

Why Avantium, why now

After 20 years of development and construction of the FDCA Flagship Plant, Avantium started up its plant and is transitioning towards a commercial-stage company

1 FDCA Flagship Plant started up	First FDCA batch produced in its first-of-a-kind FDCA Flagship Plant; expecting to commence first commercial sales at the end of 2026
2 Construction risk retired	The primary construction risk has been addressed. The focus now shifts from process commissioning to ramp-up, paving the way for industrial-scale technology validation
3 Increased commercial momentum	1st commercial sales expected end of 2026 under the 23 offtake agreements and 17 capacity reservations for future plants across multiple applications with >150kta of capacity reservations secured, to baseload multiple license plants
4 Superior-performance material targeting a multi-billion market	Offering superior performance, PEF addresses sizeable bottles (>€250bn), packaging (>€100bn), and textile (>€200bn) markets as a renewable substitute for PET, glass, and aluminium
5 Financial ambition	c. €90m annualized revenue and EBITDA break-even point at the Group level from December 2027 onwards



Appendix

Glossary

BioPET: Bio-based Polyethylene Terephthalate

CCU: Carbon Capture and Utilization

EPC: Engineering, Procurement, and Construction

FDCA: Furandicarboxylic Acid

FDME: Furandicarboxylic Methyl Ester

FEED: Front End Engineering Design

FID: Final Investment Decision

GHG: Greenhouse Gas

HFS: High-Fructose Syrup

IRR: Internal Rate of Return

JV: Joint-Venture

MEG: Mono-Ethylene Glycol

MF: Methylfurfural

MMF: Methoxymethylfurfural

ML: Methyl Levulinate

MTA: Million Metric Tons Annually

NPV: Net Present Value

PBS: Polybutylene Succinate

PDP: Process Design Package

PHA: Polyhydroxyalkanoates

PEF: Polyethylene Furanoate

PET: Polyethylene Terephthalate

PLA: Polylactic Acid

PTA: Purified Terephthalic Acid

RDS: R&D Solutions

rPET: Recycled Polyethylene Terephthalate

TAM: Total Addressable Market

Retrospective view on current funding requirement

Financing Need
to reach EBITDA break-even point by December 2027

€50.0m

To be covered by rights offering



Incurred CAPEX cost for the Titanium Weld Repair Program

Postponed product sales from the FDCA Flagship Plant due to Plant delay

Deferred licence income due to FDCA Flagship Plant delay

Net funding gap vs. 2025 Prospectus assumptions

Lower proceeds from non-core technology divestments and spin-outs

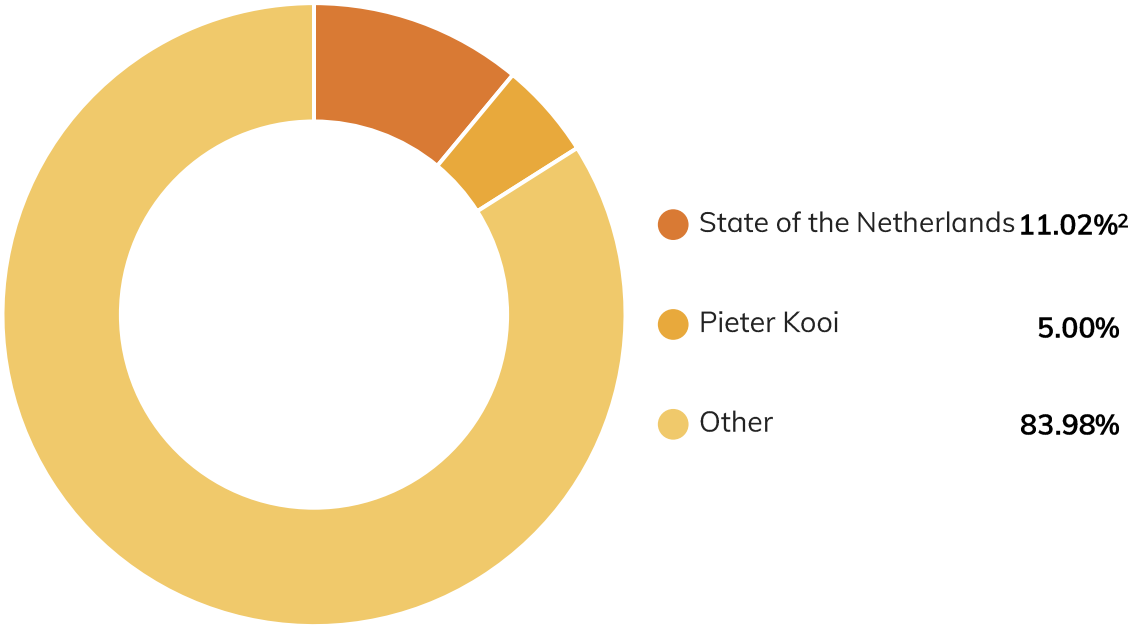
Additional €20.0m Subordinated Loan
- term-sheet signed -

Provided by NOM
Dutch Government Related Investment Initiative, part of the program "Nij Begun"

- **Tranches & maturity**: 4 tranches of €5.0 million each, linked to milestones; maturity of 3 years
- **Cost**: 12-month Euribor plus 10% per annum, accruing on a payment-in-kind basis and capitalised and added to the principal amount
- **Closing conditions**: Approvals from the Province of Groningen and the Ministry of Economic Affairs and Climate Policy, successful completion of the Offering and other customary conditions. The parties aim to close before 31 December 2026
- **Conversion**: if not repaid at maturity, outstanding amounts (incl. PIK interest) may convert into shares on terms to be agreed in good faith

Capital market snapshot

Shareholding structure[1]



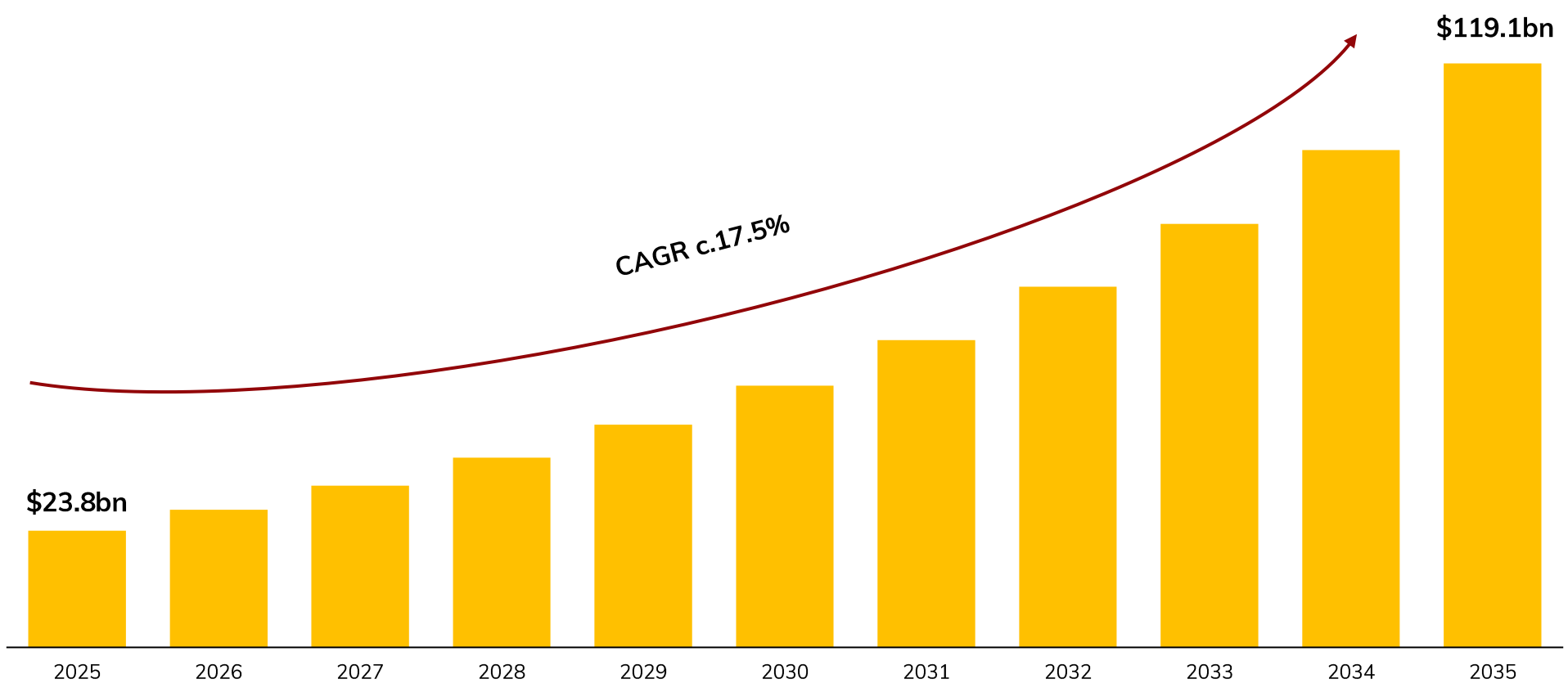
Share Capital

Shares Outstanding	25,206,719
Dilutive Instruments[3]	1,826,216
Stock Exchange	Euronext Amsterdam · Brussels
Ticker	AVTX

Note: (1) Based on AFM notifications, actual shareholdings may differ; (2) excluding 4.13% of warrants held by Invest-NL Capital N.V.; (3) Includes long-term incentive plan shares and outstanding warrants issued to lenders as per 30 June 2026
Source: AFM, Avantium

Global bioplastics market: significant growth ahead

Global bioplastics market size, 2025-2035 (USD bn)



5x
Bioplastics market growth by 2035

<1%
Plastics Market supplied by bioplastics today

#1
Packaging - Largest application for bioplastics in 2025

Source: Precedence Research, "Bioplastics Market Size, Share, and Trends 2026 to 2035", July 2026

EU policy is shifting decisively towards bio-based materials

2026 - 2027

SCALE-UP PRODUCTION

Industrial Accelerator Act

- Supports European industrial scale-up through Made-in-EU preferences, faster permitting and incentives for low-carbon production routes (incl. biomass, recycling or CCU)

Biotech Act II — technology pillar

- Faster permitting
- Support for industrial scale-up

2026 - 2028

CREATE LEAD MARKETS

Packaging and Packaging Waste Regulation (PPWR)

- 2028 review may introduce bio-based feedstock requirements

Biotech Act II lead markets

- Bio-based plastics designated as a lead market

2027 - 2032

EXPAND MARKET INCENTIVES

Circular Economy Act (CEA)

- Potential Extended Producer Responsibility (EPR) advantages for bio-based materials

Ecodesign for Sustainable Products Regulation (ESPR) – (from 2027)

- Supports adoption of sustainable and circular materials across value chains

Funding follows policy: proposed EU funding programs increasingly prioritize the bioeconomy and industrial scale-up

PEF outperforms other sustainable polymers

PEF releaf

Combines all characteristics of a viable sustainable polymer

- **Renewable feedstock**
  Bio-based polymers reduce GHG emissions
- **Gas barrier**
  High gas barrier extends shelf life and unlocks mono-material packaging
- **Recyclability**
  High (mono & multi-material) - Recyclability through existing infrastructure
- **Degradability**
  Medium-Low
  Degradability in industrial & natural environment

Comparison with other sustainable polymers

	rPET	bioPET	PBS	PHA	PLA
Renewable feedstock	Fossil-based	70% fossil-based	Bio-based	Bio-based	Bio-based
Gas barrier	Medium	Medium	Low	Low	Low
Recyclability	High (mono-material)	High (mono-material)	Low	Low	Low
Degradability	Very Low	Very Low	High	High	Medium

Strong · Medium · Medium-low · Weak / Low

FDCA – feedstock flexibility



STARCH · GEN 1

- FDCA Flagship Plant uses Gen 1 feedstock: starch – an abundant co-product
- Regionally and commercially available
- Sugar surplus, no competition with food supply



WOOD CHIPS · GEN 2



TEXTILE WASTE · GEN 2

- Feedstock availability crucial for effective global licensing strategy

Releaf® | The next generation polymer, with superior performance benefits[1]





10x better oxygen barrier



Circular, enhanced recyclability, 100% plant-based



Up to 88% GHG emissions reduction

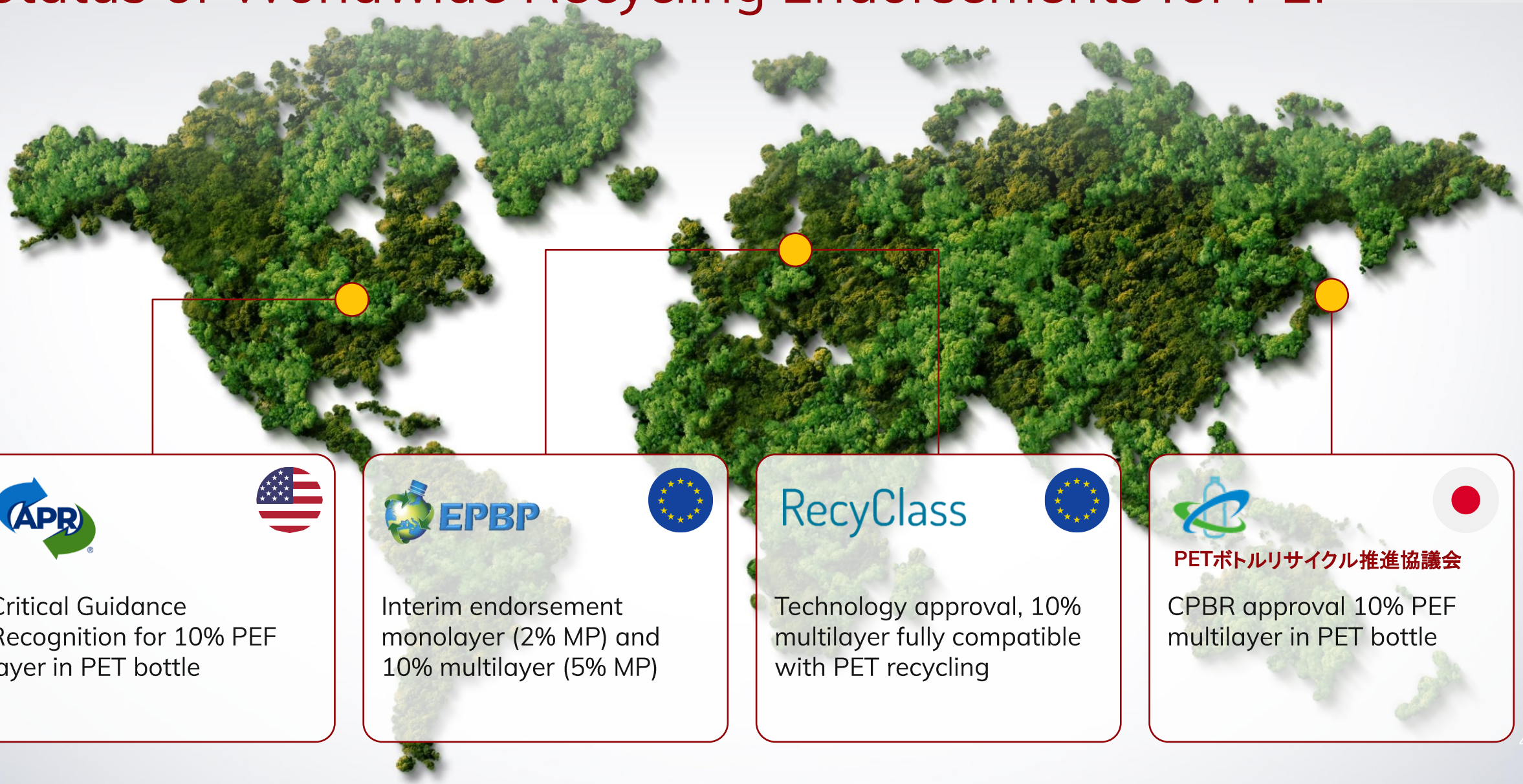






Note: (1) Compared to PET

Status of Worldwide Recycling Endorsements for PEF



APR

Critical Guidance Recognition for 10% PEF layer in PET bottle

EPBP

Interim endorsement monolayer (2% MP) and 10% multilayer (5% MP)

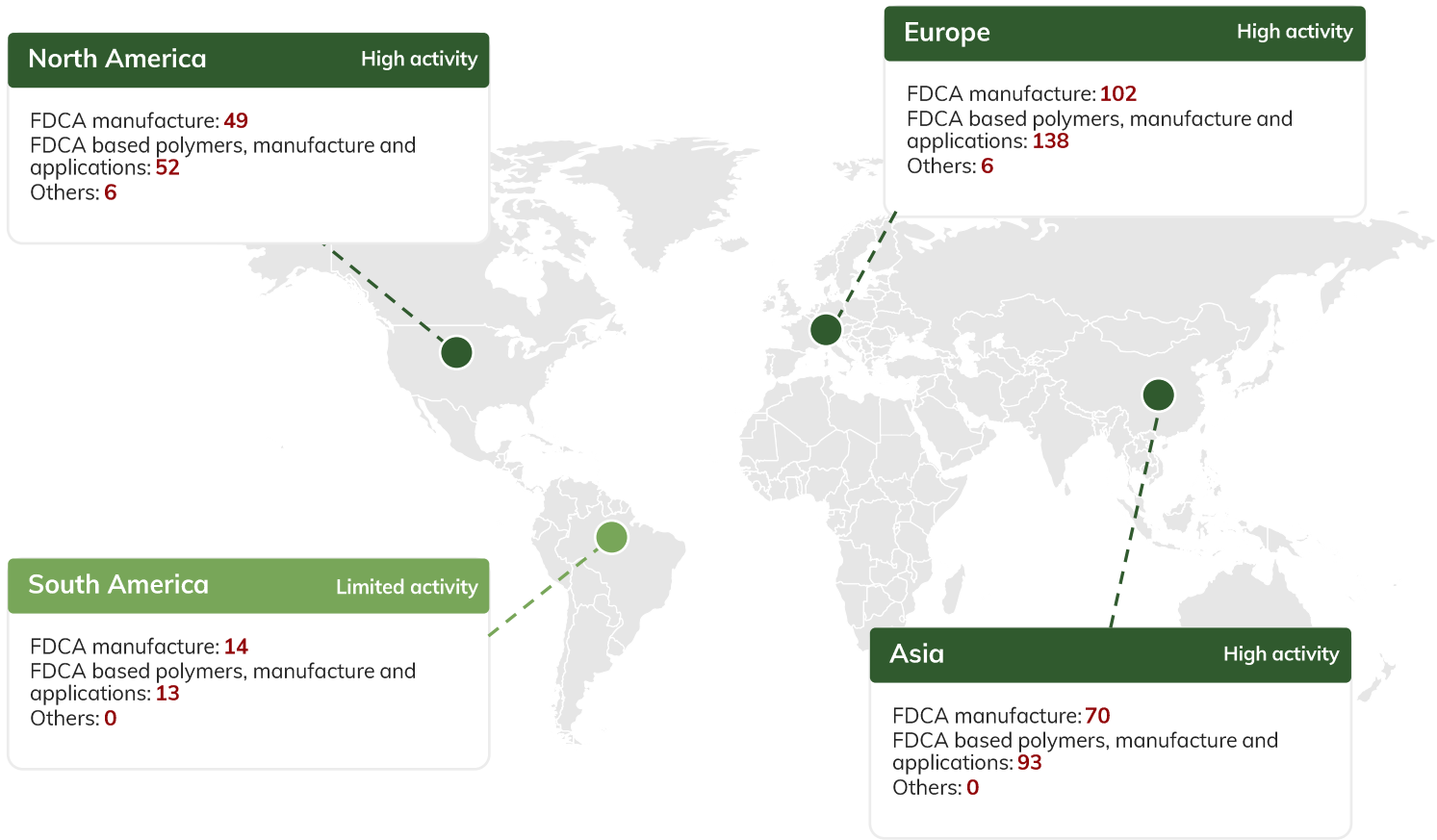
RecyClass

Technology approval, 10% multilayer fully compatible with PET recycling

PETボトルリサイクル推進協議会

CPBR approval 10% PEF multilayer in PET bottle

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



North America — High activity

FDCA manufacture: **49**
FDCA based polymers, manufacture and applications: **52**
Others: **6**

Europe — High activity

FDCA manufacture: **102**
FDCA based polymers, manufacture and applications: **138**
Others: **6**

South America — Limited activity

FDCA manufacture: **14**
FDCA based polymers, manufacture and applications: **13**
Others: **0**

Asia — High activity

FDCA manufacture: **70**
FDCA based polymers, manufacture and applications: **93**
Others: **0**

IP across all businesses

90+
patent families[1]

675
patent rights

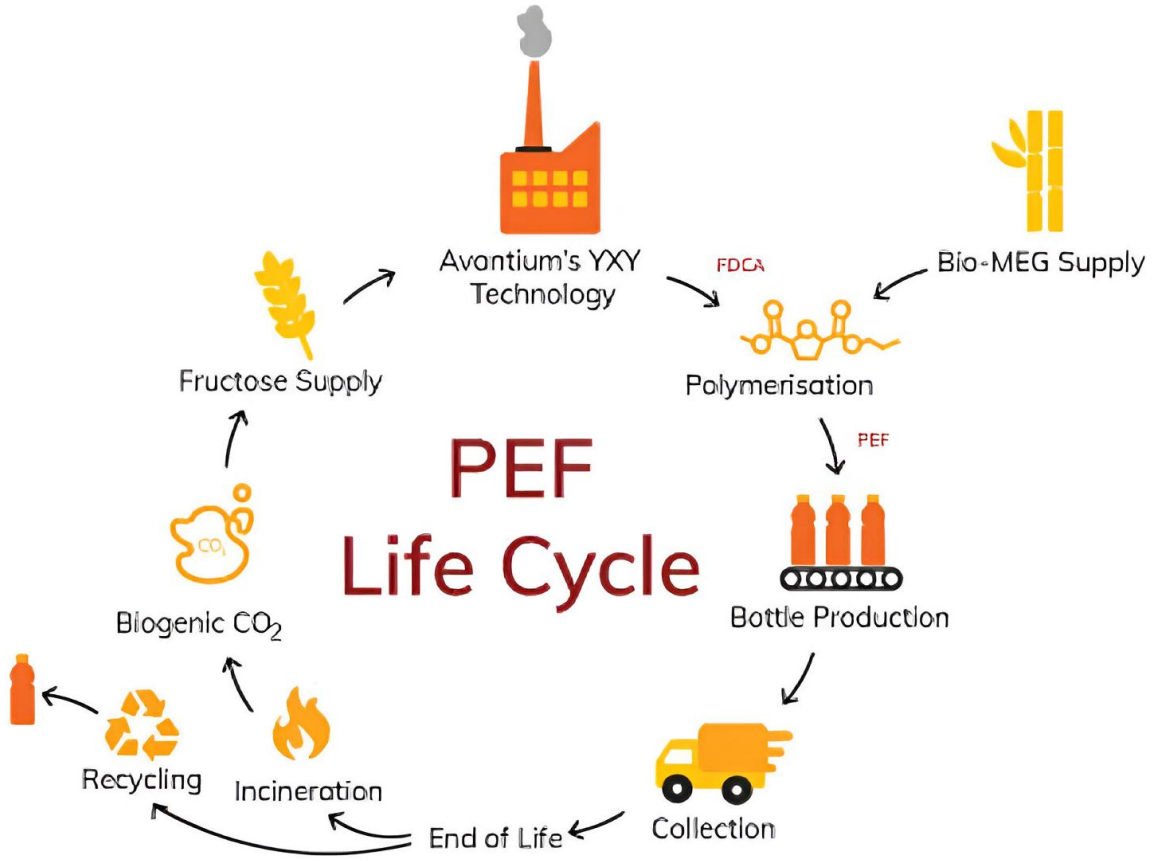
70 / 552
FDCA&PEF families / rights and applications

- Avantium actively manages its IP portfolio including regular review of third-party patent positions
- Avantium has a dedicated team of in-house patent attorneys

Note: (1) Includes not yet published families while geographic overview excludes these and WO applications

Understanding the sustainability benefits

PEF life cycle



Why LCA matters

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 recognized method to quantitatively assess potential environmental impacts of products, services or processes

88% **reduction in GHG emissions over the life cycle of a 500 ml PET bottle**
ISO-certified, third-party peer-reviewed LCAs

ESG ratings

SILVER | Top 15% ecovadis Sustainability Rating NOV 2025

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

SUSTAINALYTICS

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

Supporting LCA reports

- Releaf® (PEF) LCA Applications 500ml bottle (2026)

Thank you!