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Today's speakers



Tom van Aken CEO



Boudewijn van Schaïk CFO





Key themes



Inflection point ahead



Strategic focus



Securing funding





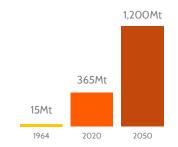
Addressing the plastics pollution problem

Plastics pollution: a real problem...



PET / Plastics GHG¹ Emissions Plastic end-of-life pollution

...the problem is getting bigger...



Global plastics production will triple by 2050

...and it can't be solved only by recycling

11% Low recycling rate

65-95% Limited recovery rate through recycling depending on technologies

26% High share of hard-to-recycle plastics multi-material packaging

Constant need for new virgin plastics unless we find a circular alternative

Note: (1) Greenhouse Gas



Accelerating shift to bio-plastics



Increasing consumer pressure, demanding sustainable solutions



Increasing regulatory support for plant-based plastic and recycling:



Major brands setting ambitious targets but struggling to meet them







20-50% reduction of virgin fossil-based plastic by 2025-20301



























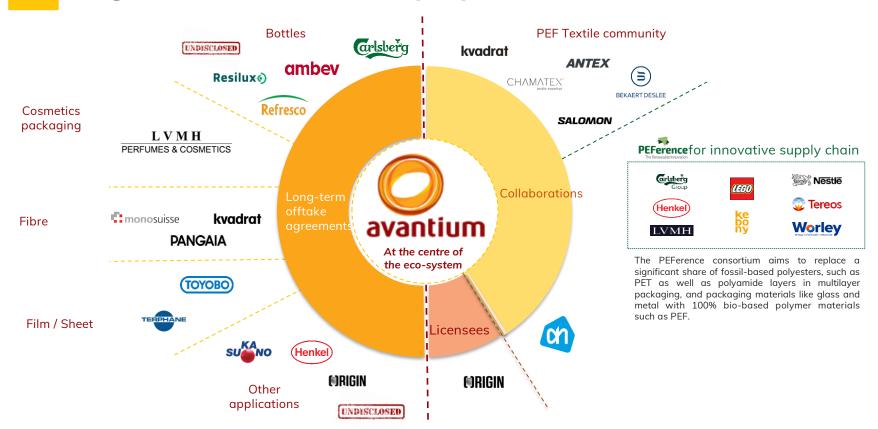




Note: (1) Summary illustrative targets



Driving renewable & circular polymers

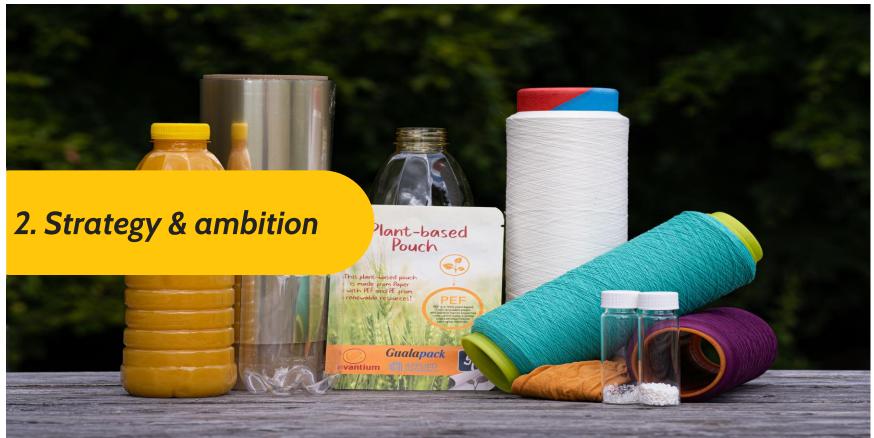




Market traction through wide range of applications









Commercial-stage company in renewable & circular polymers

Mission

To bring to the market new, cost competitive renewable polymer materials with superior performance characteristics, contributing to reducing carbon emissions, plastic pollution and our dependency on fossil resources

Ambition

Be a €100m+ revenue & EBITDA positive company by 2026, with 500kta of committed capacity for sustainable polymers¹

ESG at the heart

SDG-linked targets

Chain Reaction 2030

External recognition













Reaching the inflection point

Technology & product deployment through commercialisation



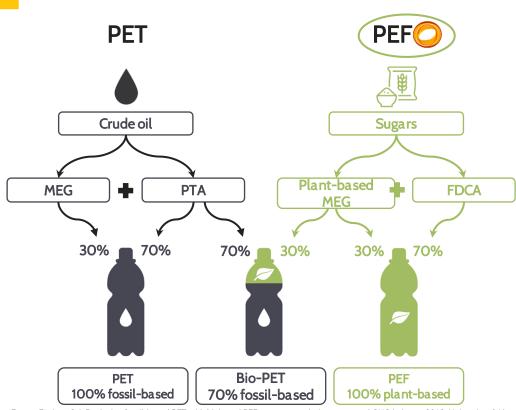
2005-2023 2024 and onwards Today







PEF: made from our focus product FDCA



Compared to PET

PEF is a renewable, circular plant-based polymer material

Low carbon footprint

Superior technical properties

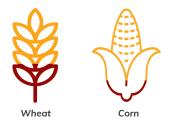
Enhanced recyclability

Cost competitive



FDCA – feedstock agnostic, utilising Gen 1 and 2 feedstocks

FDCA Flagship Plant is using Gen 1 feedstock: starch – an abundant & low value co-product



Starch is part of the low value co-products
Glucose/Fructose from starch





Avantium's FDCA Flagship Plant

Regionally & commercially available

Sugar surplus, no competition with food supply



Current Gen 2 feedstock



Future Gen 2 feedstock options





PEF sustainable and superior alternative for PET

A more sustainable product...



100% bio-based feedstock

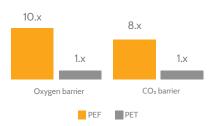


Recyclable



Circular

...with superior properties...



...providing distinctive value proposition

- ✓ Up to 20% weight reduction
- Longer shelf life leading to food waste reduction
- Larger range of applications and ability to replace glass, aluminium, etc.
- / Enhanced recyclability as monomaterial packaging or by replacing hard-to-recycle polymers (e.g. nylon) in multi-material packaging



EPBPⁱ interim approval on multilayer PET/PEF and monolayer PEF bottles in the PET recycling stream





APR² Critical Guidance Recognition on compatibility with standard PET recycling practices



Notes: (1) The European PET Bottle Platform is a voluntary initiative of industry organisations representing waste collectors, plastic recyclers, PET material producers and brand owners; (2) The Association of Plastic Recyclers, non-profit organisation focused exclusively on improving recycling for plastics



PEF can be used in a very broad range of applications



Beer, Juices, Waters, **Soft Drinks**

Competing materials: Glass, Aluminium, PET, Multi-layer

100 million ton/year















Textile, Upholstery, Car Tires, Industrial Fibers

Competing materials: PET, Nylon, Cotton

>50 million ton/year





kvadrat



Food Packaging, Non-Food Packaging

Competing materials: Glass, Aluminium, PET, Multi-layer

>5 million ton/year















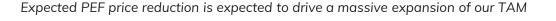


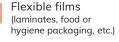


PEF addressable market potential

PEF @ ~**2**€/kg

122.3 mta **€240bn**





Injection molding

(bottle caps, medical devices, car parts, etc.)









2025



Rigid packaging (containers, trays, bottles, etc.)

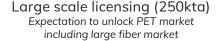
Own production

Distinctive value proposition for multi-layer bottles and EVOH films replacement



Initial licensing phase (100kta) Clear focus on monolayer bottle, specialty

fibers, glass & aluminium replacement, films and multi-layer bottles markets



2035



PEF is both sustainable <u>and</u> 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 - 200q Glass material cost¹ €0.13 = ~13% of end price



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

250kta

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



PEF Bottle 50cl - 17.5qPEF material cost² €0.044 = ~3.7% of end price €0.055 = ~4.6% of end price €0.037 = ~3.1% of end price



rPET Bottle 50cl - 22q rPET material cost²



PET Bottle 50cl - 22qPET material cost²

PEF reducing Global Warming Potential



74% vs. aluminium





First-of-a-kind FDCA Flagship Plant on stream in 2024

- Sale of PEF & FDCA at commercial scale
- Prove technology at 5kta scale
- 10-year feedstock supply partnership with
 Tereos
- Commissioning expected to start in Q1 2024
- FDCA production expected on stream in H2 2024
- Further accelerate licensing deployment









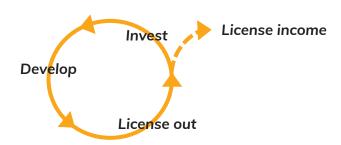
Licensing the FDCA / PEF technology

licensees

Generate income Deployment Licensees Through up-front accelerate product fees and royalties deployment and global market entry Technology Asset light model development Technology and Access capabilities, IP development capital accelerated by de and resources of velopments at licensees

- Avantium to license out technology and IP
- Technology licensing deemed to offer the optimal combination of risk and reward
- Licensing closely aligned with our capabilities and capacities
- Multiple licensee market model preferred by converters / brand owners

Virtuous licensing circle





Owning necessary IP for production and licensing of FDCA and its high value applications

FDCA manufacture: 46 FDCA manufacture: 80 FDCA based polymers, FDCA based polymers, manufacture and applications: 54 manufacture and applications: 143 Others: 6 Others: 15 FDCA manufacture: 13 FDCA manufacture: 68 FDCA based polymers, FDCA based polymers, manufacture and applications: 13 manufacture and applications: 91 Others: 1 Others: 2

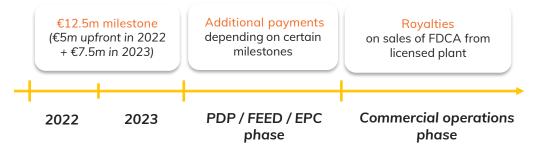
- Avantium has 166 patent families¹ containing 998 rights
- Actively managing IP portfolio including review of third-party patent positions
- Dedicated team of in-house patent attorneys
- Figures include patents and patent applications

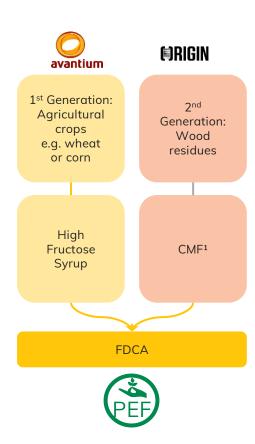


First license a greement signed with Origin

- Non-exclusive technology license agreement for conversion of Origin-produced CMF derivatives into FDCA at a 100 kta scale facility
- Avantium and Origin already secured capacity reservations for the future plant, for example from Terphane

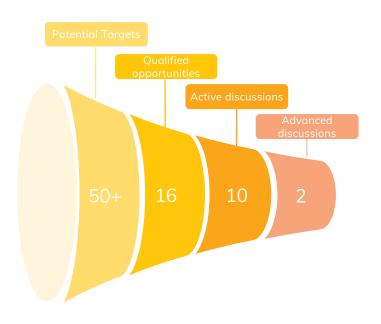
Technology license agreement model with Origin







Global FDCA licensing opportunities for Avantium



Technology licensing target customers

- → Feedstock suppliers
- Chemical companies
- PET (/polymer) producers

Key considerations on licensing

- Proximity to feedstock
- Proximity to existing production infrastructure (brownfield)
- → Local market proximity & size
- Local regulations & incentives

Potential pipeline of technology licenses



We can almost touch it...













Reinforcing strategic focus: the FDCA/PEF commercial opportunity

FDCA/PEF technology

Volta Technology (PLGA)

R&D Solutions

Ray Technology (plantMEG/MPG)

Prioritising getting Flagship Plant on stream in 2024 and commercialisation and licensing of FDCA / PEF

Exploring strategic or financial partnerships to fund the next phase of development EBITDA positive, targeting sustainable chemistry opportunities

Further investments on hold





Ray Technology investments on hold

FDCA/PEF technology



Ray Technology to produce plantMEG & plantMPG



Further investments on hold



Pursuing potential strategic equity partnerships



Reallocating and reducing workforce



Anticipated direct and indirect cost savings







Funding focused on the FDCA / PEF opportunity

Renewable Polymers Business FDCA/PEF technology

Completing
Construction of the
FDCA Flagship Plant

Commissioning and Start-up of the FDCA Flagship Plant

Licensing acceleration

- Commercial strength

and pipeline

Avantium

Financial stability, general corporate items and R&D



Focus on financial stability to execute on our strategy

Strong financing fundamentals for long-term success



Lenders remain committed



Shareholders in Renewable Polymers remain committed



FDCA Flagship nearing completion with strong commercial traction



Promising licensing pipeline



Priority is now to secure funding for Avantium



Securing additional funding



Equity raise of € 50m

with the option to increase by up to €20m to further strengthen its financial profile

- Fund Avantium's share of the financing package for Avantium Renewable Polymers
- Fund ongoing activities incl general corporate and R&D
- Be properly capitalised and a financially stable partner for future licensees



Avantium Renewable Polymers cost update



- Interest impacted by unprecedented rise in interest rates
- Running costs impacted by inflation, longer commissioning period, and additional business requirements
- FDCA Flagship Plant CAPEX driven by inflation and supply chain challenges



Financing package Avantium Renewable Polymers



Use of the proceeds

Financing the cost increase of approximately €64.5m

- €33m CAPEX
- €19m OPEX
- €11m interest
- €1.5m contingency



Use of proceeds

FDCA/PEF 80% Execution €50m & Growth General Corporate 15% Volta 5% €20m Strengthening financial profile



Focus on revenue and EBITDA generation

R&D Solutions Business:

Growing revenue from products and services business – pursuing strategic growth opportunities



Installed capacity

price

Annual turnover Illustrative **EBITDA** margin

5kta

~€9-10/kg

Average

selling

= ~€45-50m

~35-40%

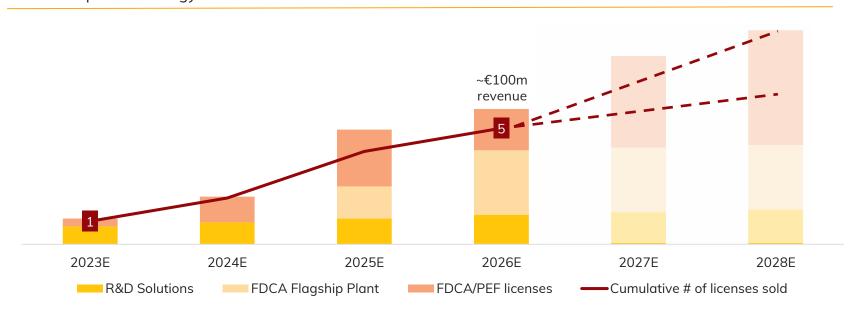
Technology Licenses:

Milestone payments and royalties from multiple technology license agreements



Focus and execution leading to growth

Illustrative financial performance: based on assumption that FDCA Flagship Plant is on stream in 2024 and multiple technology licenses have been sold





Funding key for growth & execution

Commissioning and start-up of FDCA Flagship Plant is imminent

Focusing on capital and cost discipline

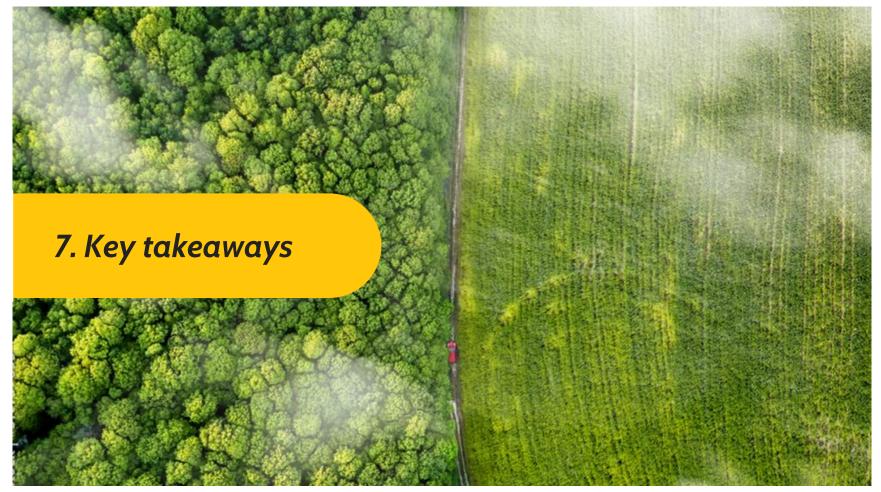
Strong support from banks/partners

Commercial traction ~€500m contracted revenue¹

Raising equity to be properly capitalised to reach the inflection point

ABN AMRO and Bryan Garnier
 EGM on 24 January 2024







Key takeaways / Investment highlights



Strong commercial traction, with 15 offtakes and 1 technology license to date

Most advanced FDCA and PEF player worldwide, contributing to the transition of the chemical industry towards renewable and circular polymer materials

Reaching a key inflection point in the transition to a commercial-stage company: 1/ commercial-scale FDCA production start-up in 2024, 2/ contracted offtake by industry leaders and 3/ license sales

Clear path to revenue growth with the ambition to be a €100m+ revenue & EBITDA positive company in 2026¹

Raising €50 – €70m to bring the FDCA Flagship Plant on stream in 2024, accelerate our licensing activities by strengthening our global commercial capabilities, and continue the development of the Volta Technology

Conclusion



Inflection point ahead



Strategic focus



Securing funding

