



Avantium Full Year 2024 Results

19 March 2025

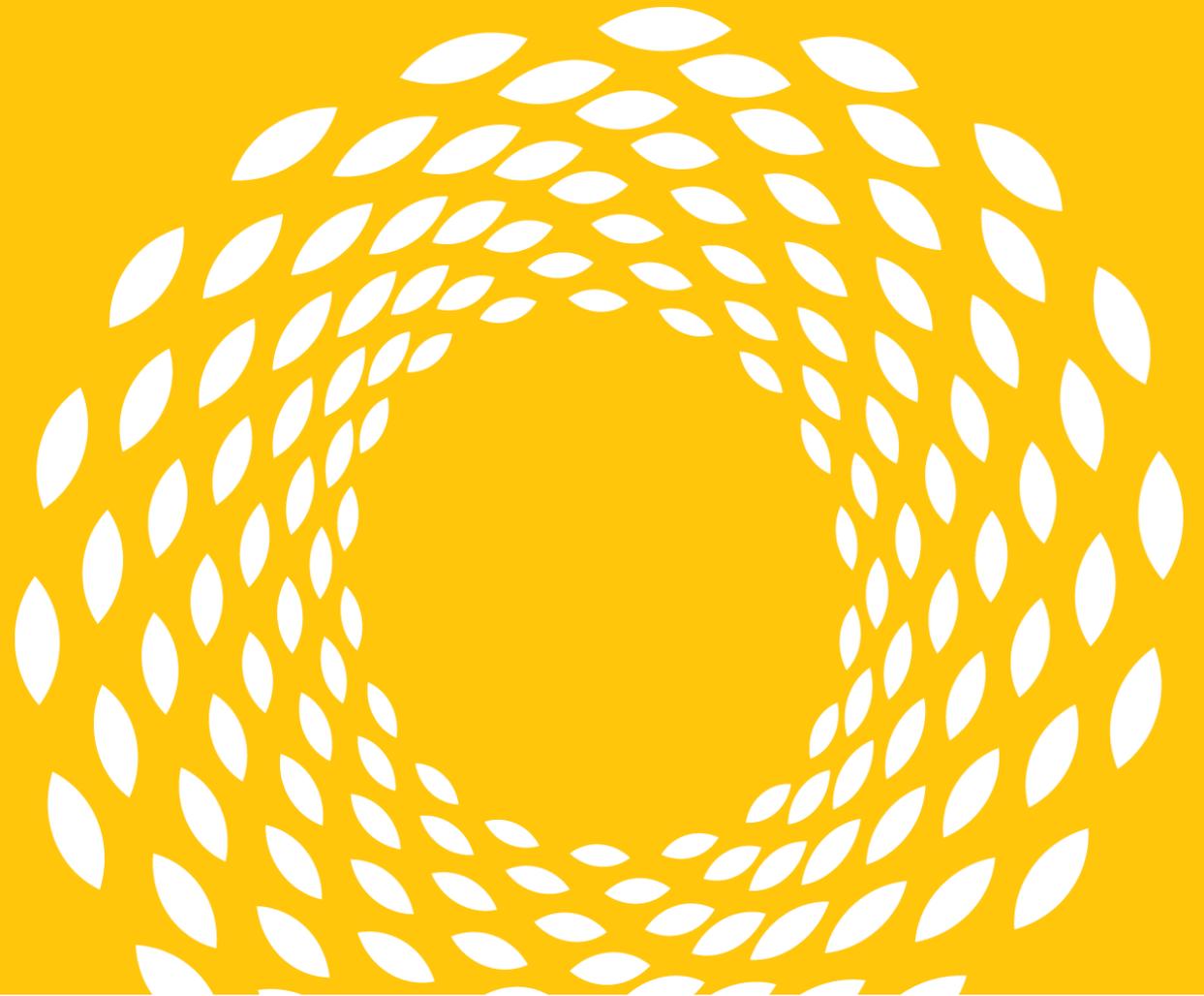
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Full Year 2024 Results



Highlights



Project execution

Anticipated sales under the offtake agreements in H2 2025



Commercialization

Creating the right conditions for future licensees

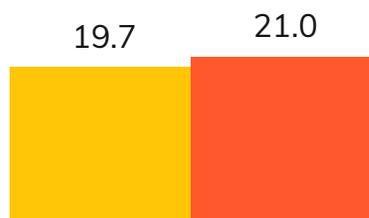


Strategic innovation

Groundbreaking polycotton textile waste technology

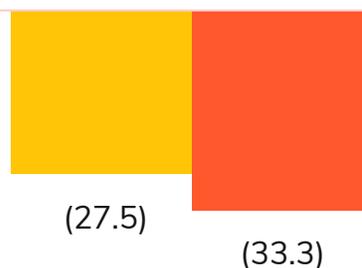
Financial highlights FY 2024 (€ millions)

Revenues



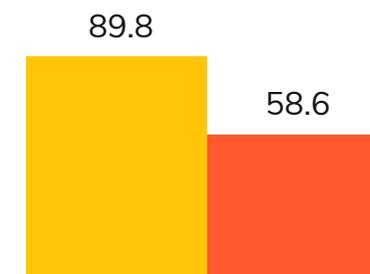
■ 2023 ■ 2024

EBITDA



■ 2023 ■ 2024

Investments



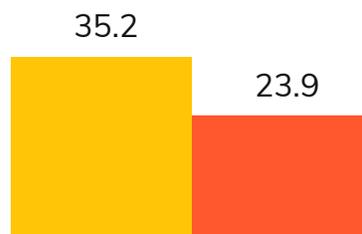
■ 2023 ■ 2024

Other income (grants)



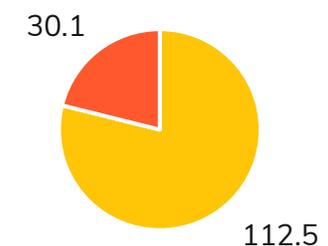
■ 2023 ■ 2024

Cash position



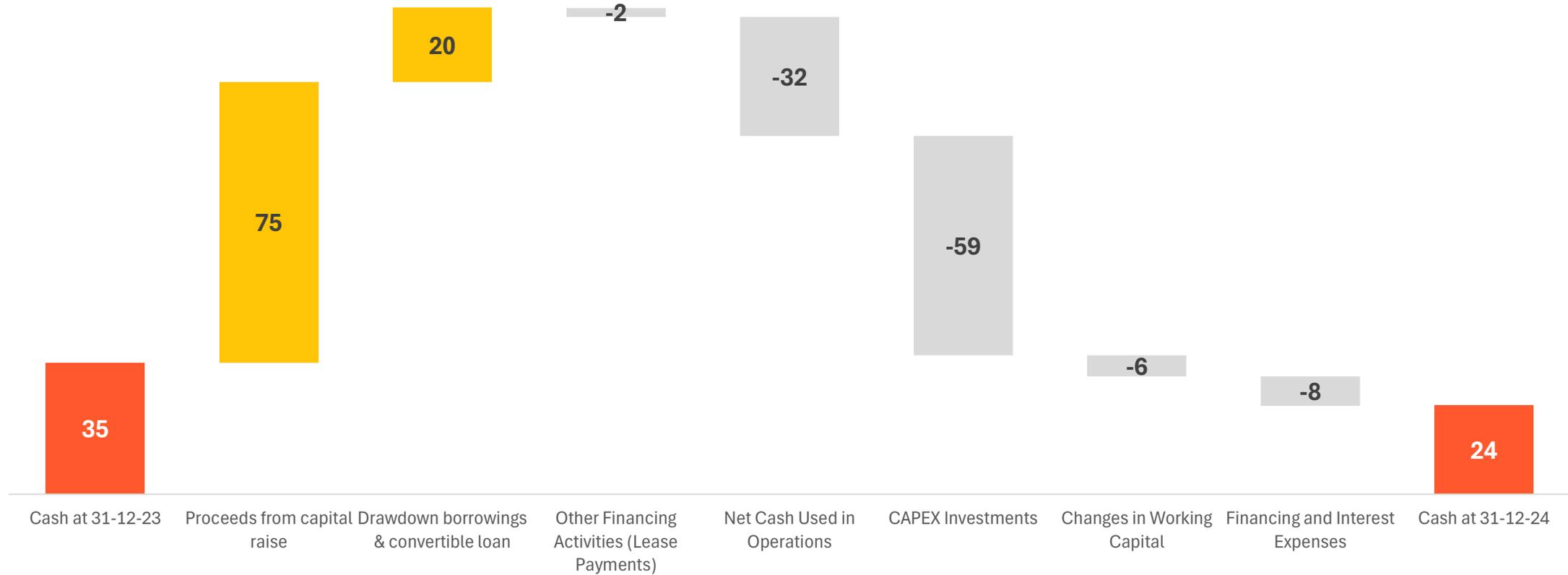
■ 2023 ■ 2024

Borrowings



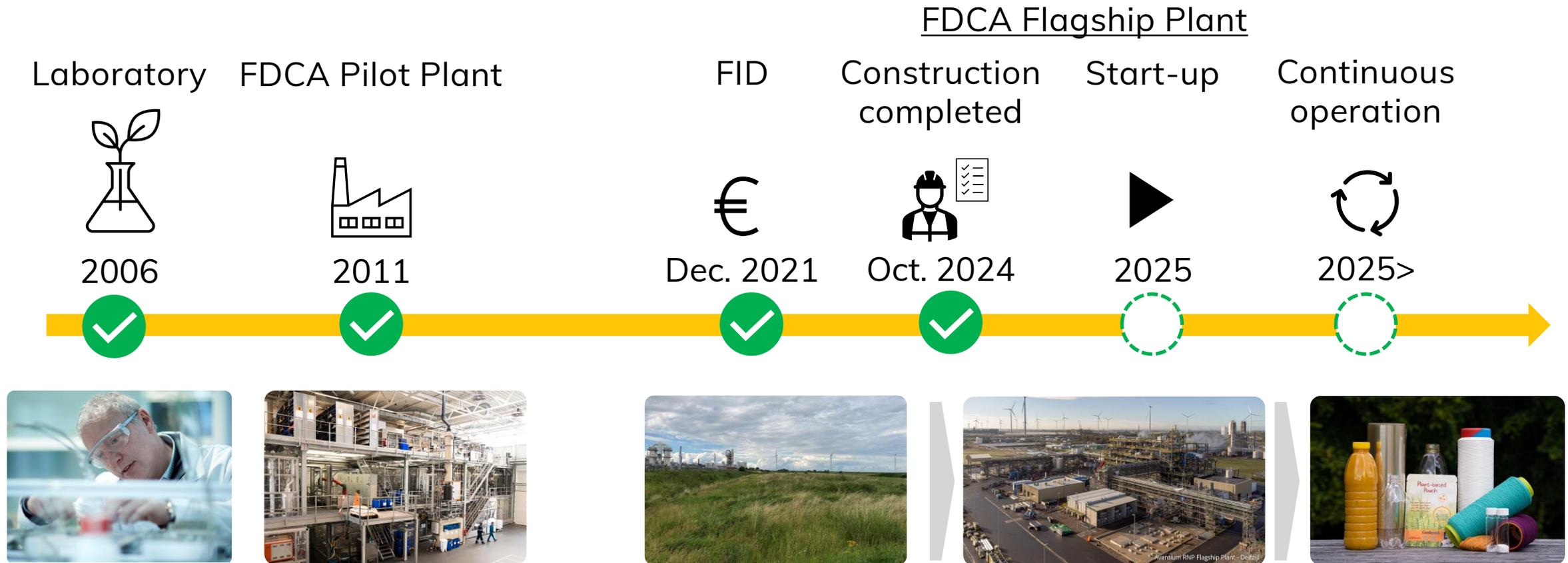
■ Drawn ■ Undrawn

Cash flows 2024 (€ millions)



Project execution: FDCA Flagship Plant

A journey of almost two decades...



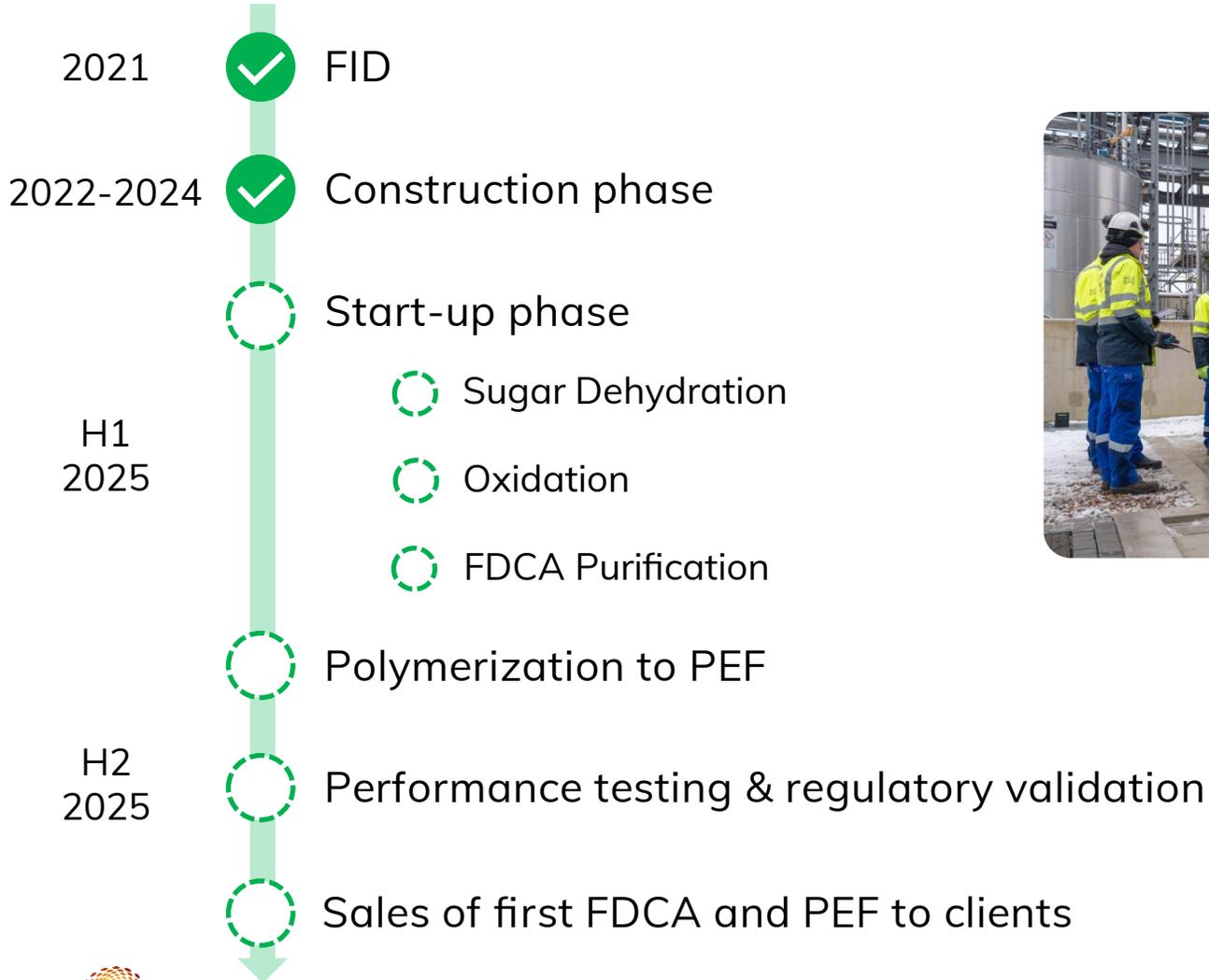


The FDCA Flagship Plant

- First-of-a-kind plant
- Enabling sales of FDCA & PEF at commercial scale
- Proving technology at 5kta scale
- Located in Delfzijl, The Netherlands
- Recruited operations team of 70 people
- Critical for a successful licensing strategy



Starting up the FDCA Flagship Plant



First unloading of High Fructose Syrup – February 2025



Full Year 2024 Results

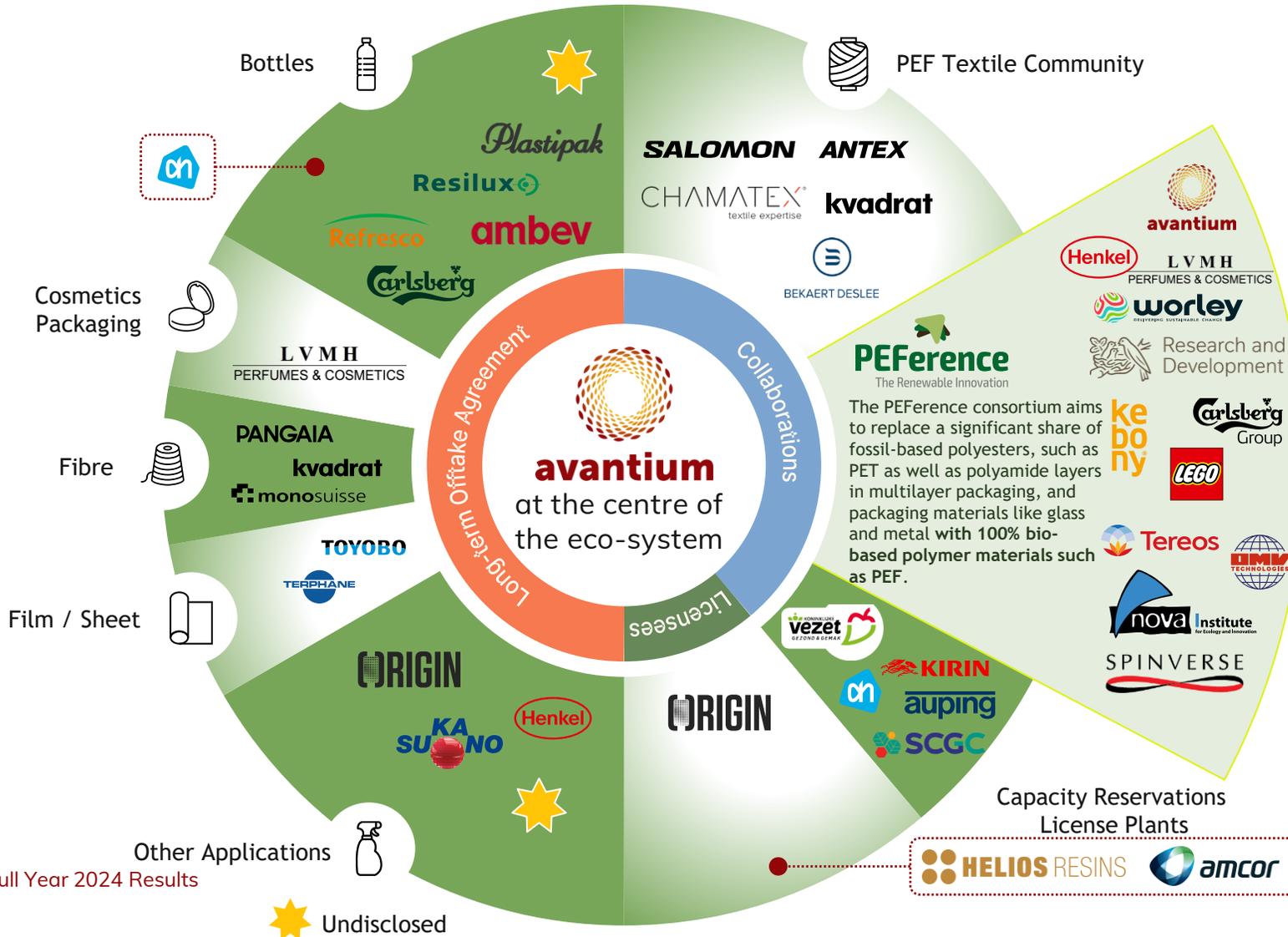
Note: reflects anticipated timeline

Commercializing releaf®

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



Commitments from leading brands



16
Offtake Agreements

2
Capacity Reservations
Future Plants

1
Technology License Agreement



Other Applications
Full Year 2024 Results

Releaf® | Engaging brands and consumers

Lower carbon footprint

Fully recyclable

100% plant-based

releaf
Made by Avantium

Quench your thirst,
not the planet's future

The future: from pilot and flagship plant to license plants



Pilot Plant



2011



Flagship Plant



2024



Potential License Plants

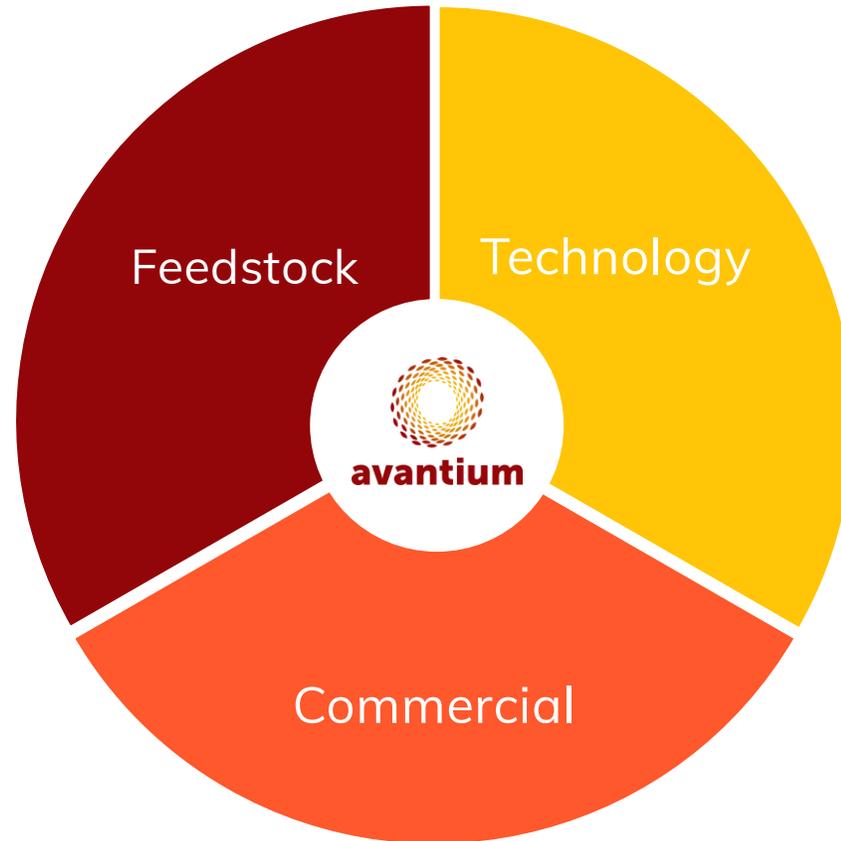


2025>



Optimizing licensing strategy through the supply chain

Mitigating feedstock risk through 1st and 2nd gen strategy



Mitigating technology risk through FDCA Flagship Plant

Capacity reservations for future license plants

FDCA – feedstock agnostic, utilising Gen 1 and 2 feedstocks

1st Generation Feedstock



Glucose/fructose from starch

- FDCA Flagship Plant is using Gen 1 feedstock: starch – an abundant & low value co-product
- Regionally & commercially available
- Sugar surplus, no competition with food supply

2nd Generation Feedstock Innovations



Textile waste



Wood chips

- Feedstock availability crucial for effective global licensing strategy
- Avantium's Dawn Technology develops strategic diversifying feedstock options
- Recent breakthrough polycotton textile waste recycling

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 the cotton in polycotton textile waste into glucose (2nd generation feedstock source for FDCA/PEF), while leaving the polyester intact for fiber-to-fiber recycling

Business case

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

Textile waste management

- Addressing global waste problem: with global textile production expected to reach 149 million tons by 2030 and a recycling rate of currently less than 1%, this technology can address a major textile waste problem
- Aligned with new regulations: Avantium's technology aligns with new regulations that make textile producers responsible for waste management

Strategic importance

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



Publication in Nature Communications

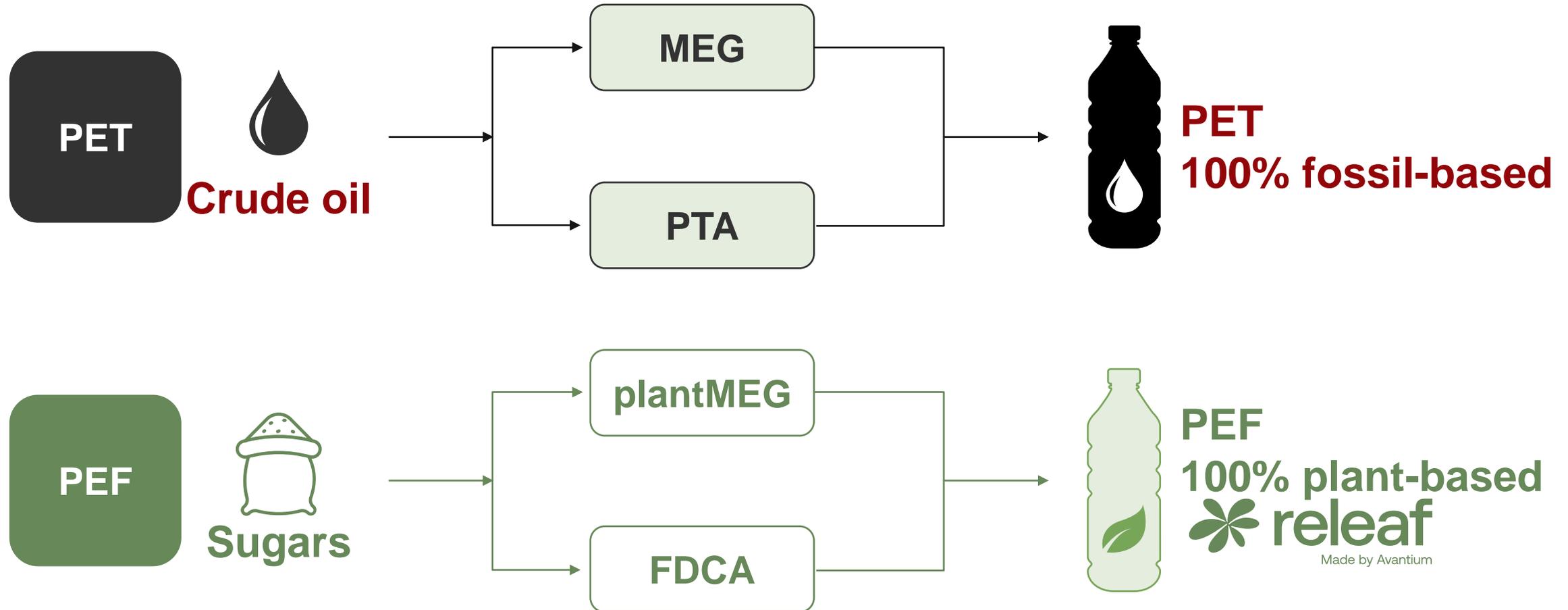


Polyester residue of postconsumer polycotton waste textiles in the DAWN pilot plant

Appendix: FDCA & PEF



PEF: made from our focus product FDCA



PEF can be used in a very broad range of applications

Bottles



Beer, Juices,
Waters, Soft Drinks

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

>50 million ton/year¹



Fibers



Textile, Upholstery, Car
Tires, Industrial Fibers

Competing materials: PET, Nylon,
Cotton

>40 million ton/year¹



Films & More



Food Packaging,
Non-Food Packaging

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

>25 million ton/year¹



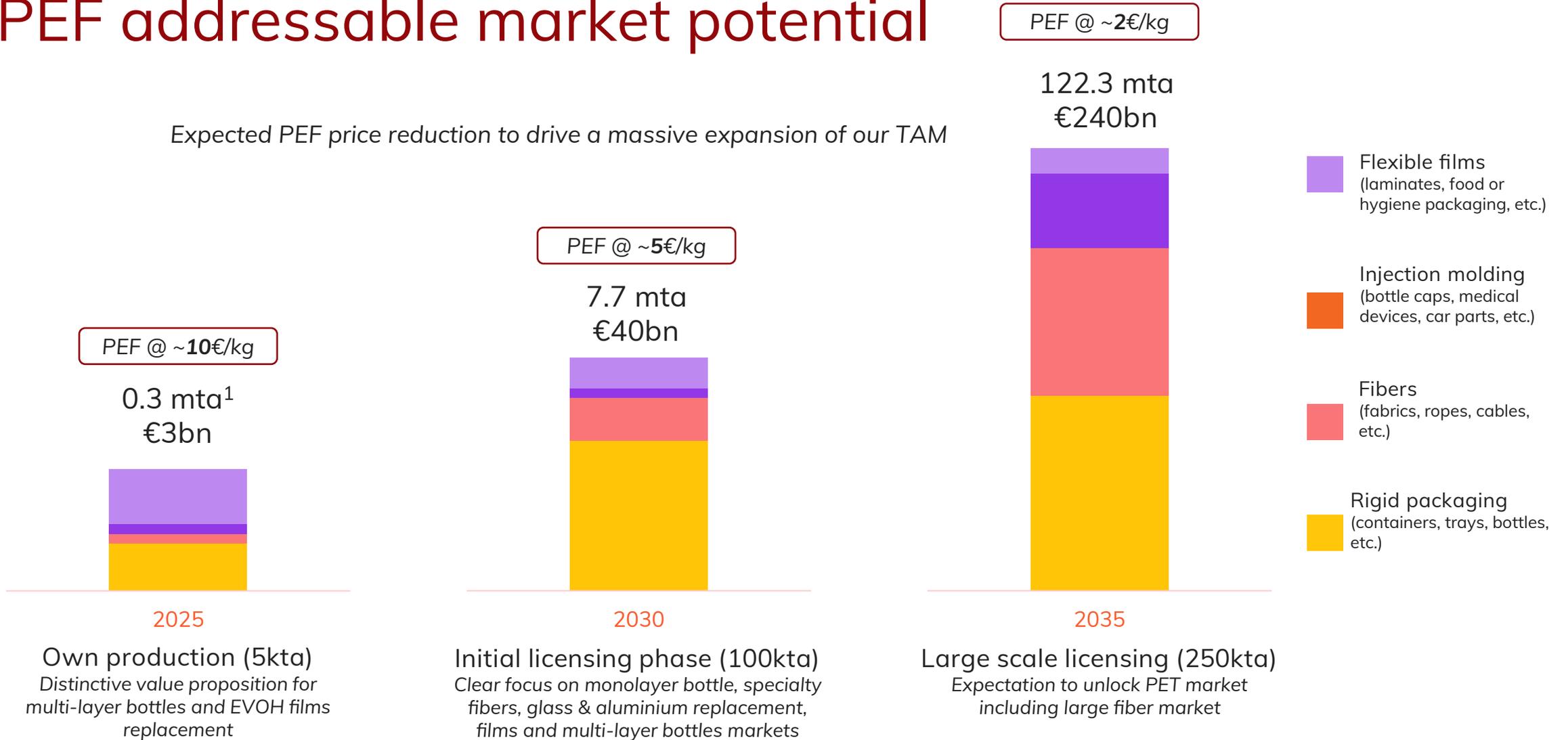
Full Year 2024 Results

Notes: (1) estimated volume reflects Total Addressable Market (TAM) in 2035

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 addressable market potential

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



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Full Year 2024 Results

Notes: (1) Million Metric Tons Annually, 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 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

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

PEF reducing Global Warming Potential

↓ **88%** vs. glass

↓ **74%** vs. aluminium

↓ **61%** vs. PET



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Notes: (1) a 33cl bottle made with PEF at €5.0/kg sold at €1.00, a 33cl glass bottle sold at €1.00 and a 33cl aluminium can sold at €0.67; (2) Assuming PEF at €2.5/kg, rPET at €2.5/kg and PET at €1.7/kg, and a 50cl sold at €1.20.
Sources: enzymatic rPET, Company's estimates; Glass, Food grade rPET & PET prices, BusinessAnalytIQ.com, average Europe & USA Aug.22-Aug.23; Aluminium prices, markets.businessinsider, average Aug.22-Aug.23, NAPCOR, Beverage Container LCA Report 2023, 2023; Nova Institute

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