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We all face the same challenges worldwide





> Limited fossil resources







460 million tons ⁽¹⁾ of plastic produced per year (2019)

1. OECD, 2022.

99% of virgin plastic is **petrosourced**

> Extensive plastic pollution



353 million tons ⁽¹⁾ of plastic waste generated per year (2019)

<10% recycled today

1. OECD, 2022.

2. Jenna Jambeck, 2015, ADEME 2012





Carbios: a biotech pioneer reinventing plastic & textile life cycle

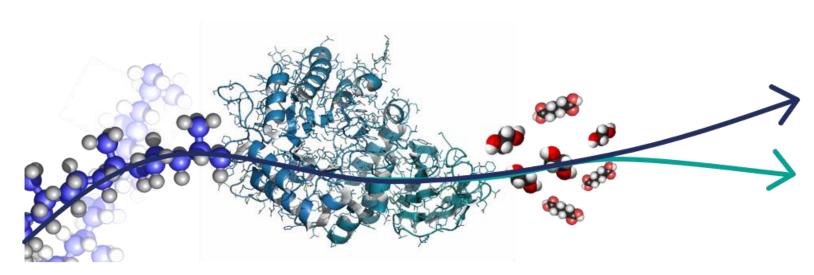






Carbios has developed enzymatic solutions to break down plastic

Enzymes are the new high-performance catalysts for the chemical industry



Polymers

(plastic and fibers)

Carbios' enzyme

Recovery of the initial monomers

Repolymerization of monomers into polymers



POTENTIAL RECOVERIES



Bioassimilation of the products of degradation by microorganisms present in nature





Carbios paves the way to the circularity of all plastics

Two disruptive technologies reaching industrial and commercial scale:





Ongoing research to bring an extensive portfolio of technologies to the market

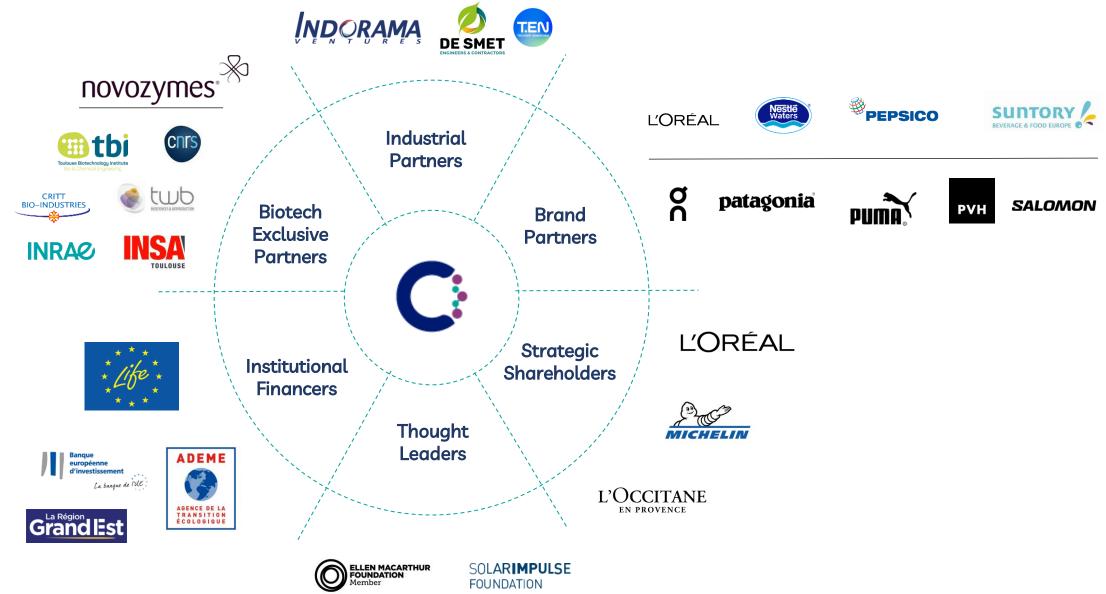


INNOVATION
on other polymers
(notably polyamides and polyolefins)





Carbios unites a strong ecosystem of leading partners





F

Public and shareholders renewed support to Carbios

Constant and strong public support

- Public support from the European Investment Bank, the European Commission, and French institutions, totaling ~€97m since Carbios' creation
- Includes the recent announcement of €42.5m non-dilutive funding to be granted upon EU approval (May 2023)



Strong shareholder base

- Global strategic shareholders (Bold by L'Oréal, L'Occitane, Michelin Ventures), Tier 1 institutional investors (Swedbank Robur, Fidelity, Axa, Blackrock, Mirova, Swedbank...) and solid retail investor base
- €314m raised since Carbios' creation. Includes recent capital increase of approximately €141m*, the largest on Euronext Growth since 2015.







Strong Industrial partnerships

INDORAMA

Carbios & Indorama Ventures reaffirm partnership (June 2023)

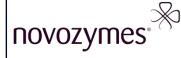
- Memorandum of Understanding signed for the construction of the world's first PET biorecycling plant in France
- Indorama Ventures to mobilize €110m in equity and non-convertible loan financing
- Indorama Ventures to ensure 100% of output repolymerization
- Contract documentation to be finalized in H1 2024
- Both partners to secure feedstock supply







Strong Industrial partnerships



Long-term supply of Carbios enzyme ensured at industrial scale (Jan. 2023)

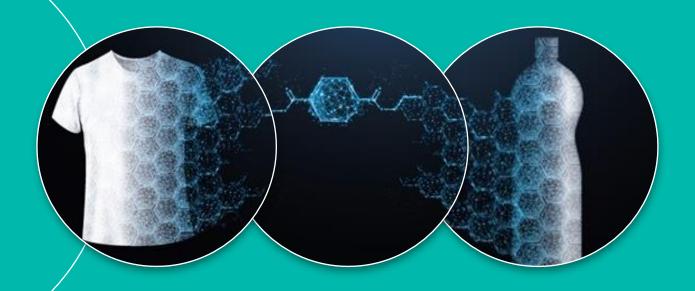
- Exclusive and global agreement with Novozymes, world leader in enzyme production, derived from initial partnership established in 2019
- Development, optimization, production and supply ensured for Carbios' proprietary enzyme





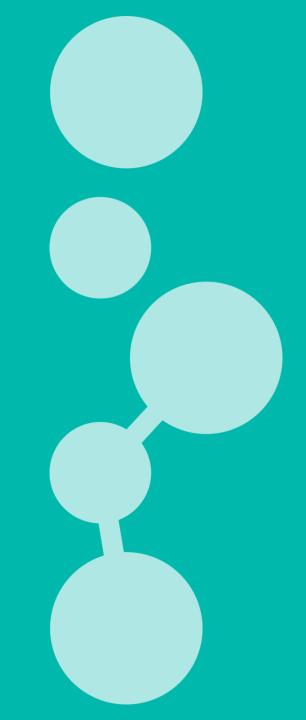


Carbios biorecycling



A game-changing technology





PET, a versatile material with broad scope of applications















Outdoor apparel Shoes













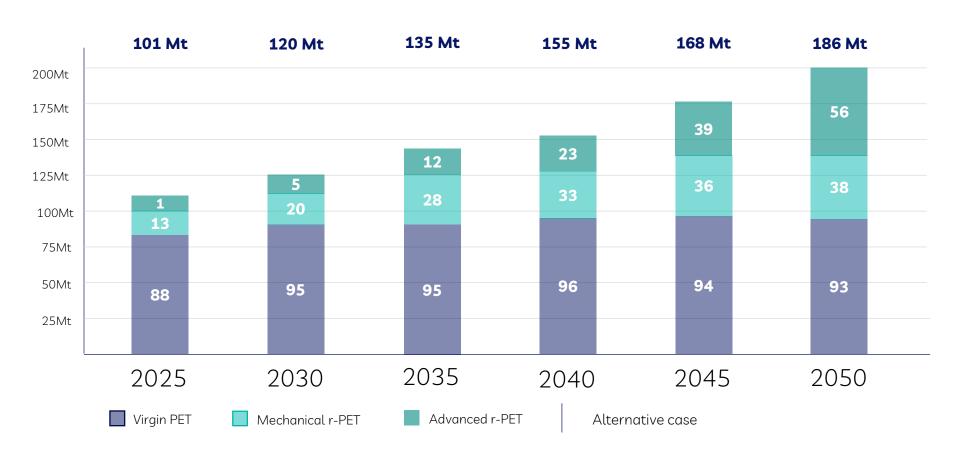






CARBIOS

PET market set to double over the next 25 years driven by advanced r-PET



Feedstock mix will limit mechanical r-PET growth *
Lower demand for petrosourced material will limit virgin PET growth

Advanced
56MT
€200B

Highly differentiated CAGR 2025-2050 per r-PET category:

- ➤ Total r-PET +8,4% CAGR
- Advanced r-PET +17% CAGR
- Mechanical r-PET +4% CAGR

^{*} Mechanical recycling allows lower PET waste recyclability

•••

Expanding governmental regulations accelerate trend worldwide







North America

2018 - Canada

Consultation on "Moving Canada toward zero plastic waste" by 2030

July 2022 – USA EPR* legal framework voted in California and Michigan

Similar bills in Maine, Oregon, Colorado, Washington, Tennessee and New Jersey since 2022

* EPR: Extended Producer Responsibility

Europe

2022 - EU

Draft Packaging and Packaging Waste Regulation:

- All packaging to be recyclable
- Incorporation of recycled PET up to 30% in packaging in 2030 and up to 65% in 2040

2022 - UK

Plastic Tax implemented on virgin plastic

2023 Jan - France

Ambitious recycling targets set for 2028 by EPR* textile ReFashion

2023 - EU

Intensification of collection rate by further implementation of deposit scheme in EU States

Asia

2018 - China

Waste import ban

2022 - China

Ban on non-degradable plastic bags in shopping malls, supermarkets

2022 - India

National ban on single use plastic

2022 - Japan

New national law promoting recycling



Brand pledges support r-PET market growth in all sectors



Housing



Sport & Apparel



Automotive



Food & beverage

IKEA

"... renewable or recycled materials by 2030 – reaching 56% renewable and 17% recycled materials ..."

PUMA

"... increase recycled polyester use to 75% (apparel & accessories) by 2025..."

BMW

"... secondary
materials in the
thermoplastics used in
new vehicles from
around 20% at
present to an average
of 40% by 2030..."

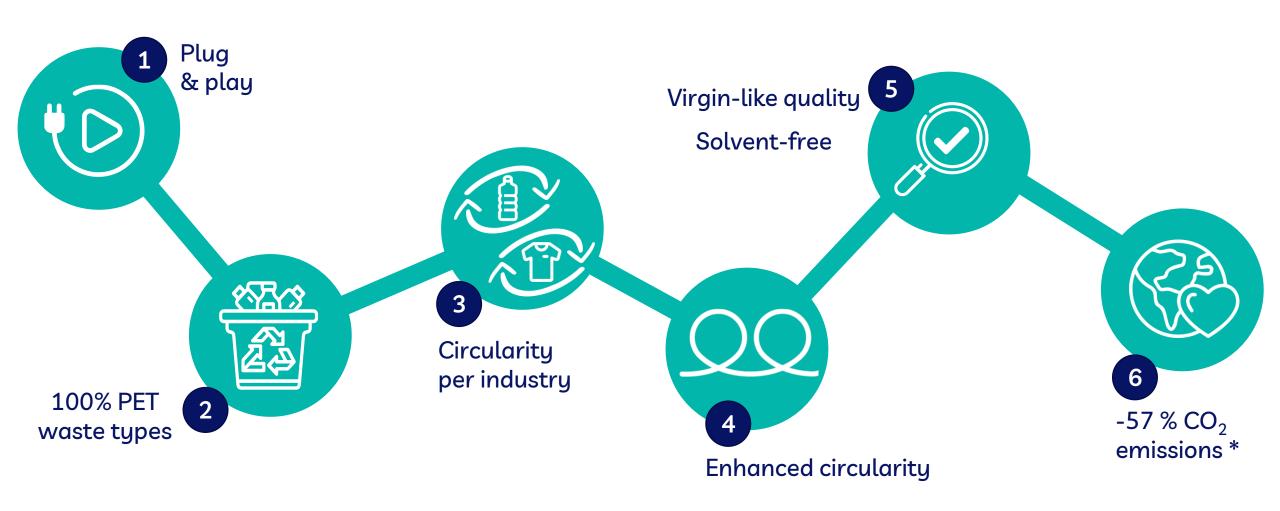
PEPSICO

"... to 100%
recyclable /
compostable /
biodegradable /
reusable packaging
by 2025 ..."

Quotes from annual Corporate ESG Report (2021 & 2022) – available on official websites



Carbios brings value along the chain while preserving the planet





^{*} France scenario, taking into account diversion of 50% PET waste from a conventional end-of-life.

Technology highlights (1/2)





Plug & play for the industry

- PTA and MEG output fits >95% of existing PET plants
- Same processability as virgin monomers



Handles 100% PET waste types

- Converts all kind of PET plastic and polyester fiber waste
- More competitive and flexible feedstock mix
- Higher intrants recovery rate



Brings circularity per industry

- Fiber-to-fiber circularity
- Colored/opaque to clear
- Non-food to food-grade



Focus on feedstock competitiveness



Clear bottles

Colored bottles

Conventional recycling feedstock



2000€ per ton *



1500€ per ton *

Conventional recycling residues (fines)

Food packaging trays mono/multilayer

Textile

Carbios biorecycling feedstock



250€ per ton *



300 - 500€ per ton *



<500 € per ton *



Technology highlights (2/2)





Enhanced circularity

- More cycles with constant r-PET quality (virgin-like)
- Food-grade quality whatever the intrant feedstock



Soft biological process

- No use of organic solvents
- Low temperature depolymerization
- Water-based



High Standard LCA: -57% CO₂ emissions*

- Reduces environmental impact as compared to virgin PET based on fossil fuels
- · Conventional end-of-life avoided
- ~45k tons CO₂ saved per year in Longlaville plant **

Virgin PET: 2.53kg CO2/kg (cradle to gate) – Ecoinvent 3.8 base

** for 45k tons of r-PET produced and a diversion of 50% PET waste from a conventional end-of-life



^{*} France scenario, taking into account diversion of 50% PET waste from a conventional end-of-life.



Insignificant impact on consumer purchasing power



Material cost impact of Advanced PET vs Mechanical PET *

	Soft drinks	50cl	Sunscreen Selling price ** PET weight	15€	Fleece jacket (100% polyester)		Formal jacket (90% polyester)	
PET weight 25gr PET weight 20gr PET weight 775gr PET weight 450	Selling Price ** PET weight	* 0,5€ 25gr			Selling price ** PET weight	192€	Selling price **	205€ 450gr

+ 0,03€ / Unit

+ 0,02€ / Unit

+ 0,91€ / Unit

+ 0,53€ / Unit

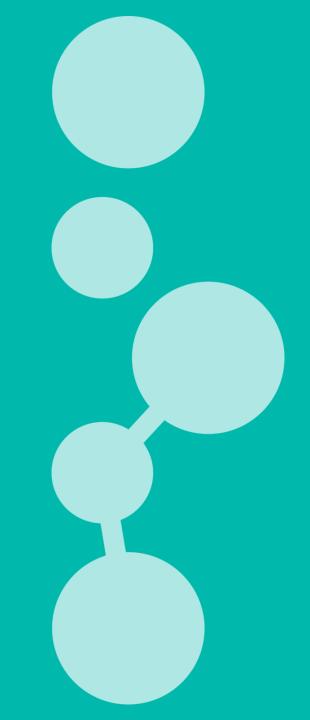


From innovation...



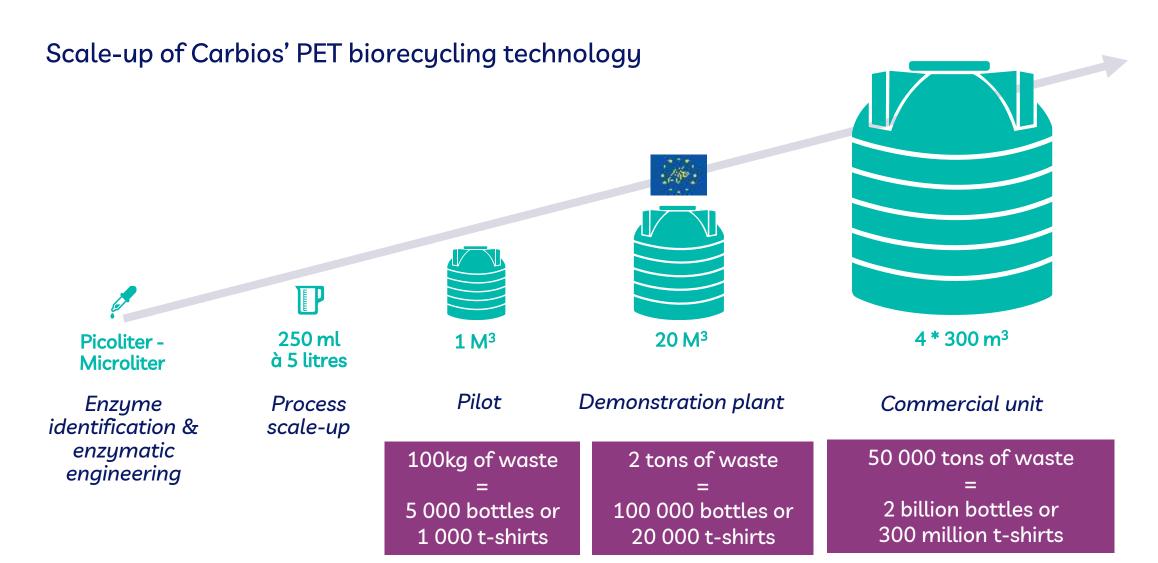
...to industrial scale and commercialization





From innovation to industrial scale







Demo plant is fully operational to start licensing







Depolymerization



Filtration steps



Separation of TA and MEG



Purification of TA



Purification of MEG



Best PET reaction conditions achieved

- **▼** PET selective
- Not inhibited by feedstock contaminants
- Limited degradation products because of low temperature and no solvent

Recovery yields at commercial scale target

- 95% depolymerization yield *
- 90% overall recovery on PTA**

Monomer of virgin-like quality

Very high purity allowing food-contact applications







Highest Technology Readiness Level achieved



^{*} On reference feedstock (mixed colored flakes)

^{**} Purified TA





Targeted profiles for Carbios PET biorecycling technology

Core target



PET Producers

 Sustainable offer with highest value



Chemicals Groups

Production diversification with highest value



Waste Management Companies

- Downstream integration
- Feedstock valorization

Enlarged targets



Brand owners

- Upstream integration
- Feedstock securization



Public Entities municipalities & sovereign funds

Investment opportunities



Carbios first biorecycling plant in Longlaville, France





Objectives:

- Generate revenue from monomers sales
- Deliver first tons to partnering Brand Owners
- Train future licensees at large scale



50k tons PET feedstock capacity/year (eq. to 2 billion bottles or 300 million t-shirts)

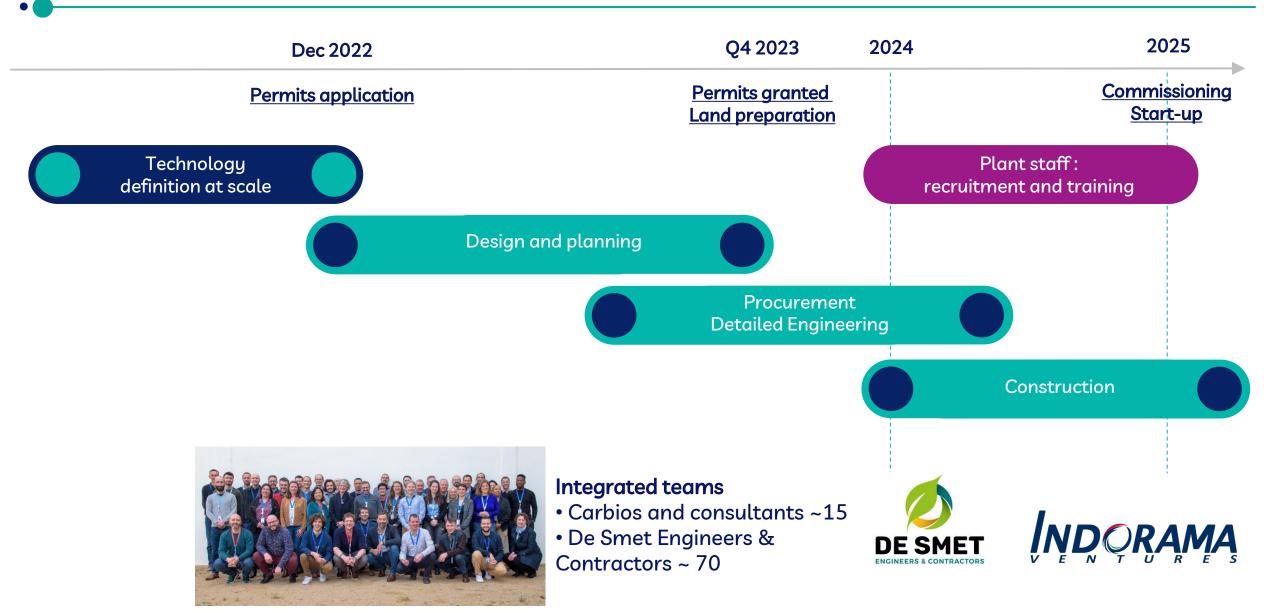
Mechanical completion: 2025

Grand Est region Green Field project $70.000 \, \text{m}^2$ with room for expansion

5 shifts – 24 hours, 7 days a week 150 new jobs (66 employees + indirect)

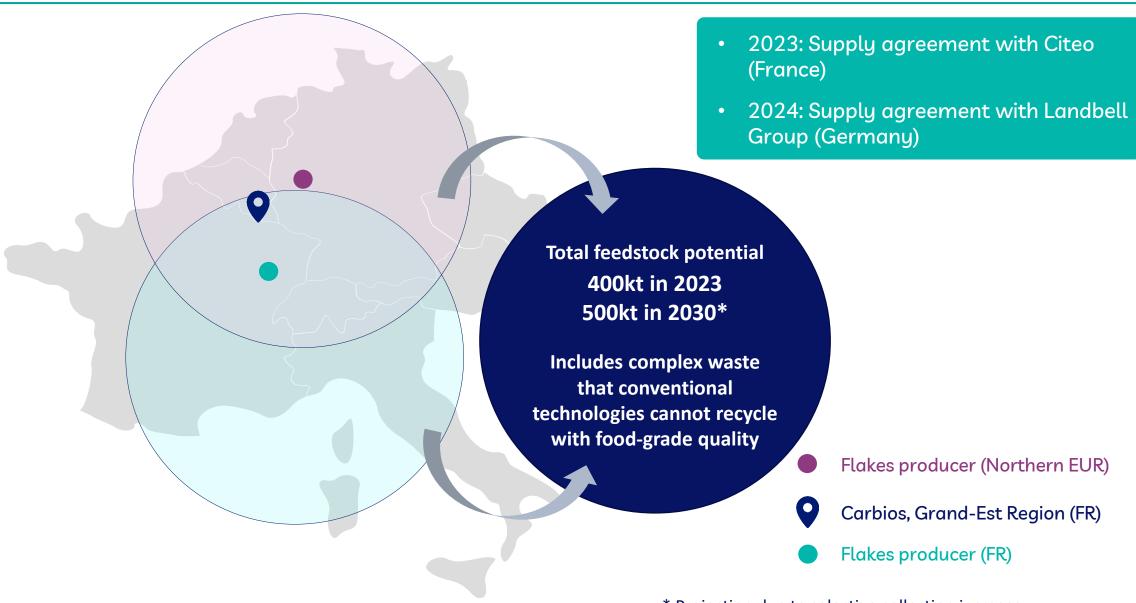


First plant on schedule and backed up





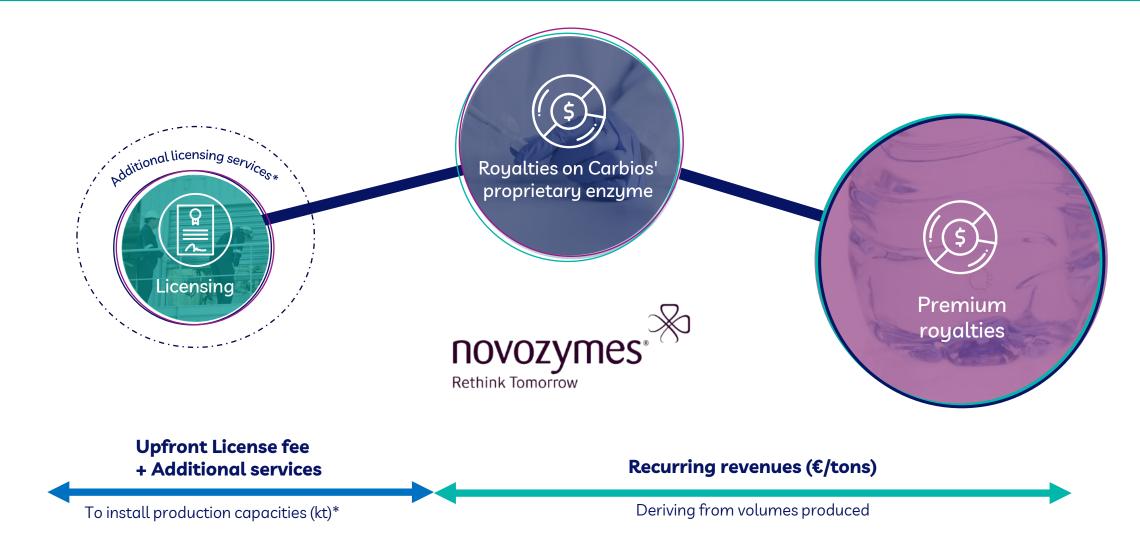
Over 70% of feedstock volumes sourced for Longlaville plant



^{*} Projection due to selective collection increase



CAPEX-lean business model and mostly recurring revenues



^{*:} Technical assistance services to licensees such as training and supervision during detailed engineering, construction, commissioning, start-up and performance testing of the industrial plants.





STRONG r-PET MARKET GROWTH

From x4 to x7 by 2050

REVENUES (MARGIN equivalent) *

Licensing upfront fees between 100€/t and 200€/t



Recurring revenues >=250€/t

r-PET MARKET SHARE 2025-2035 (volume)

4% to 8% by 2030

8% to 12% by 2035

CAGR COST TO 2035

RDI +15% to +20%

- Maintain & improve PET applications
- Develop new polymers such as Polyamids (PA) and Polyolefins (PE & PP)

SG&A
$$+8\%$$
 to $+10\%$

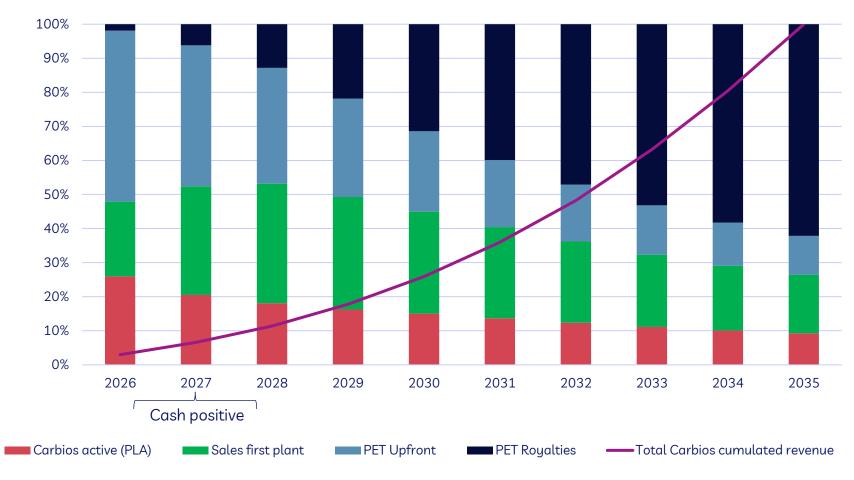
Licensing efforts

^{*} Applicable to all PET biorecycling plants / Does not include PLA revenues and margins









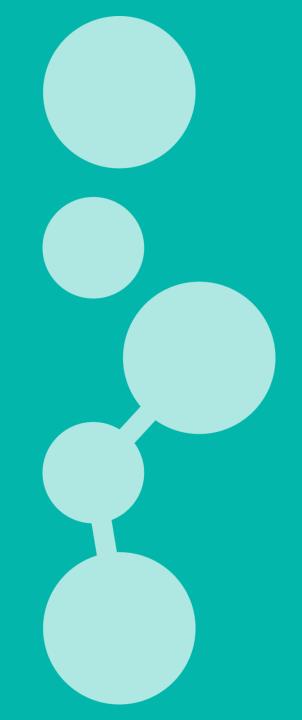
Does not include revenue from other polymers (Polyamides, Polyolefins, etc.)





Beyond PET, Carbios is developing other sources of revenue

> Enzymated PLA, a major step in the biodegradation offer







Carbios' unique biodegradation solution will enable PLA growth

From Plant to Plant!

Carbios enzymated solution guarantees PLA full compostability, even at ambient temperature











Enzymated PLA value proposition





ANSWER MARKET NEED











PLA PRODUCERS

SECURE END-OF-LIFE







SUSTAINABILITY GOALS DIFFERENCIATION - BRAND POSITIONING FIGHT PLASTIC POLLUTION



WASTE MANAGEMENT

COMPOST QUALITY INCREASE BIOGAS PRODUCTION BACKTO SOIL GUARANTEE FOR SAFE COMPOSTING

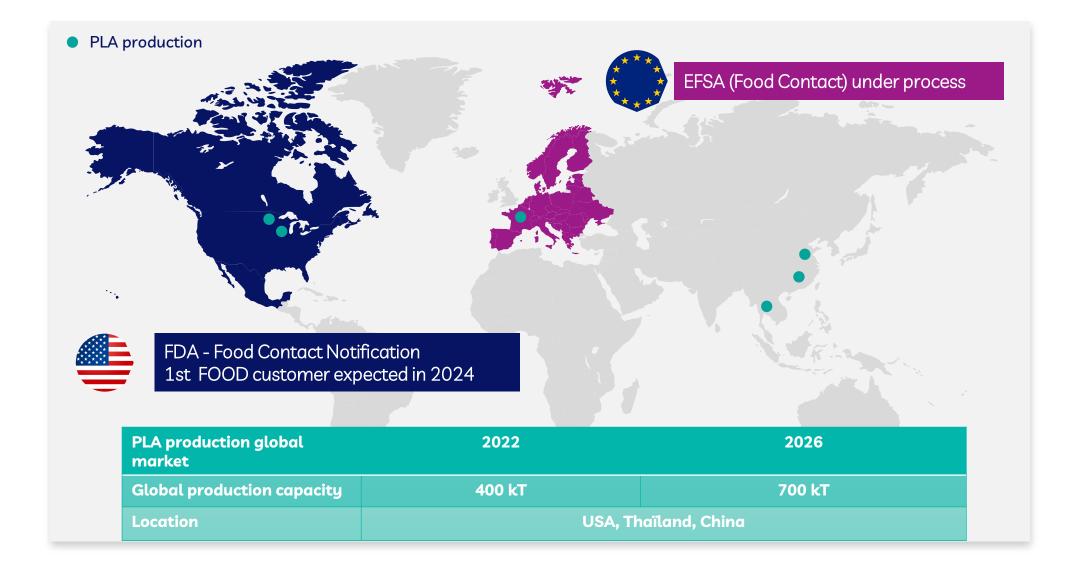


SORTING = CITIZEN COMMITMENT **GOOD BEHAVIOUR FEEL LIKE CONTROLING**





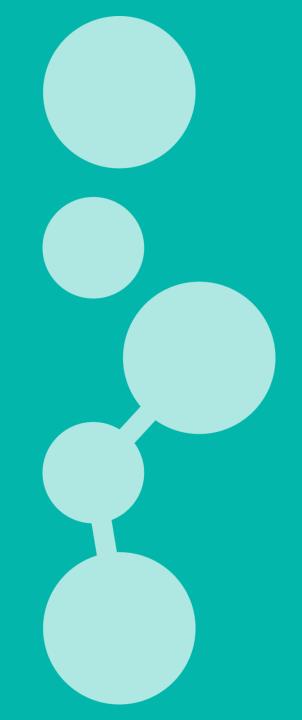
Consumer market test & first sales in North America in 2024







Innovation Outlook







Carbios has the capabilities to advance faster on new polymers



Over 20 international academic partnerships!













Enzyme production by fermentation



Biochemistry, analytics and molecular biology







Molecular modeling





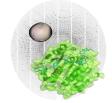


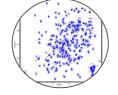
Robotic platform for enzyme screening





Microfluidic screening





Biophysic analysis (X-rays, NMR...)





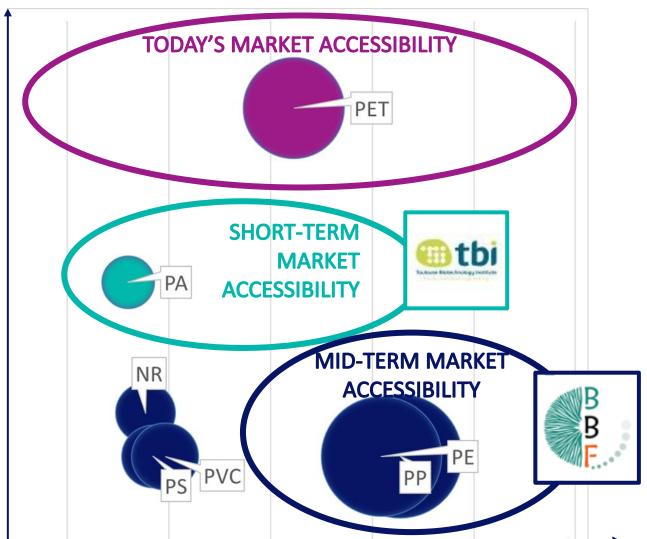
Atomic force & Cryogenic electron microscopy





Other polymers in Carbios' innovation pipeline to increase value creation

Enzymatic readiness



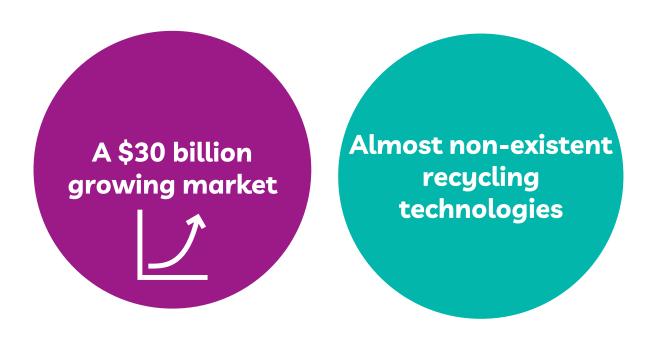


Market value









Mainly used as fibers or resins in automotive, electronics and packaging applications







Strong, global protection of Carbios enzymes and processes

375 patent applications filed across the world's key regions



Number of granted patents doubled in 2 years





2023 achievements and next milestones

	2023	2024	2025	2026-2029
Industrial PET	 ✓ Textile pre-treatment line at demonstration plant fully operational ✓ First Feedstock contracts ✓ Start of Longlaville Plant construction 	 ✓ Over 70 % of feedstock volumes sourced for Longlaville Plant • Plant key staffing completed 	 Feedstock ramp up fully secured PET biorecycling Plant commissioning 	2027: PET biorecycling Plant at full capacity
Commercial PET PLA	✓ Start of North-America staffing and prospection	 First PET biorecycling licence(s) signed Brand-owners Off-take agreements on r-PET volumes Asia staffing and prospection New Consortiums in other industries Carbios branding first test with Brand Owners First PLA sales in North-America 	 Recycling textile module ready for licensing Reference unit capacity fully reserved Other international expansions 	Licensing further expansion
R&D Others	✓ Extend R&D teams on new polymers	 2nd Scientific Summit Patents on new polymers 		New polymers pre- industrialization
ESG	 ✓ 40% female Board members ✓ Over 60% independent Board members 	ISO 14001 & 9001 First circular LCA published	Major CSR certification	
Financial	✓ Public subsidies granted	First PET licence revenues	PET licence revenues ramp-up	2027 Operational Cash positive



Key takeaways



MARKET

- r-PET market is booming and Advanced recycling will have the fastest growth
- Feedstock scarcity for conventional recycling is driving market price up

CARBIOS POSITIONNING

Best positioned to lead the recycling market with its unique biological solution:

- Plug-and-Play with the existing PET industry
- Access to the most competitive feedstock sourcing
- The most circular solution
- A high-standard LCA
- Virgin-like quality
- High potential for price premium across industries with insignificant impact on retail price

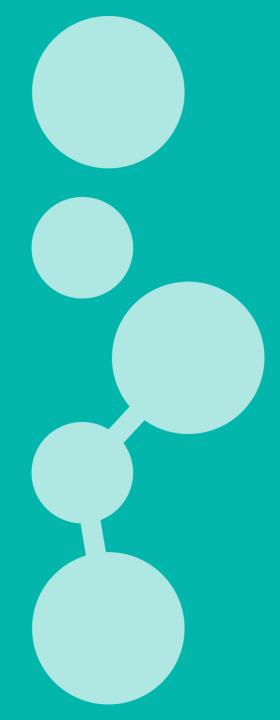
CARBIOS STRENGTHS

- Technological readiness to license
- High profitable and Capex-lean model
- R&D already engaged to expand the pipeline on new polymers (polyamides and polyolefins)





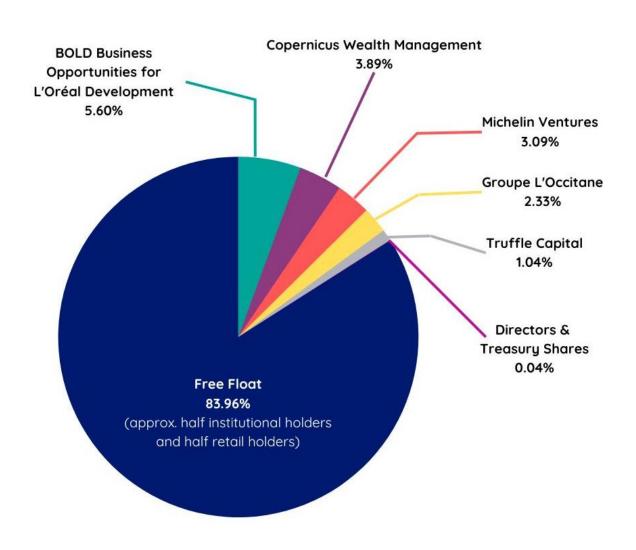
Appendix





Share & Shareholders as of July 13, 2023





LISTING	Euronext Growth Paris	
TICKER	ALCRB	
ISIN CODE	FR0011648716	
NUMBER OF SHARES	16,837,212	
ICB CLASSIFICATION	Chemistry / Speciality chemistry	



ANALYST COVERAGE		
BERENBERG Bastien Agaud		
BNP PARIBAS EXANE Laurent Gelebart		
BRYAN GARNIER Paul de Froment		
KEPLER CHEUVREUX	Baptiste de Leudeville	
ODDO BHF Jeremy Garnier		
GILBERT DUPONT Alexandre Letz		

2023 LIQUIDITY			
PLATFORMS:	Volume	Market share	
EURONEXT	8,234,968	58%	
OTHER	3,052,213	21%	
ОТС	2,934,353	21%	
TOTAL VOLUME	14,221,534	100%	



HY 2023 Consolidated statement of income

	6/30/2023	6/30/2022
	6 months	6 months
Income	20	9
R&D expenses, net	(5,719)	(5,540)
R&D expenses	(9,438)	(8,970)
Subsidies and other business income	2,517	2,825
Capitalized development expenses	1,202	604
Sales and marketing expenses	(2,280)	(1,354)
General & administrative expenses	(5,290)	(4,637)
Other operating income and expenses	-	26
Operating income (loss)	(13,269)	(11,496)
Financial income	910	26
Financial expenses	(1,301)	(342)
Net financial income	(391)	(316)
Contribution of companies reported using the equity method	-	-
Income before taxes	(13,660)	(11,811)
Income tax	-	-
Net income or loss for the period	(13,660)	(11,811)

Income

 Some of Carbios' contracts for the supply of goods and services do not fall within the definition of revenue under IFRS (notably consortium contracts and research collaboration contracts).
 These revenues are presented as a deduction from the charges incurred by Carbios

Operating income (- €1,7m)

- Increase in the number of employees to further support the development of the Group's expansion, particularly in the sales and marketing departments.
- Effect partially offset by the increase in capitalized development expenses in connection with the industrial PET biorecycling plant

Financial income (- €0,1m)

 Financial expenses up by €1m, mainly due to the €30m EIB loan contracted at the end of June 2022, offset by a €0,9m increase in interest on futures contract investments.





HY 2023 Consolidated statement of financial position (1/2)

Consolidated statement of financial position	June 30, 2023	December 31, 2022
(in thousand euros)		
ASSETS		
Goodwill	20,583	20,583
Intangible assets	22,475	22,457
Tangible assets	35,091	24,965
Right-of-use assets	7,966	6,765
Financial assets	841	906
Non-current assets	86,955	75,674
Trade receivables	22	57
Other current assets	10,217	7,670
Cash and cash equivalent	78,475	100,557
Current assets	88,715	108,284
Total assets	175,670	183,959

Goodwill

Calculated between the market value of Carbiolice and the net asset acquired in 2021 – no impact

Intangible assets

- Growth in the PET technology, +€0,6m and +€0,2m in patents
- €0,8m amortization of intangible assets resulting from the Carbiolice purchase price allocation exercise [Technologie Masterbatch technology €9,8m/ Reacquired rights (licence agreement) €12,5m]

Tangible assets (+€10,1m)

- €7,4m investment at Carbios industrial plant (vs. €2,1m at Dec 22).
- Building installation and extension work totalling €3,8m

Right-of-use assets (+€1,2m)

Lease assets at the Cataroux site (Michelin) + €1,2m related to a building extension

Other current and non-current assets

 Variations explained by the activity of the three consolidated entitites including mainly a provision of €2,1m Tax research credit





HY 2023 Consolidated statement of financial position (2/2)

Consolidated statement of financial position	June 30, 2023	December 31, 2022
(in thousand euros)		
EQUITY AND LIABILITIES		
Share capital	7,845	7,870
Share and contribution premium	147,320	146,968
Consolidated reserves	(4,260)	(5,482)
Retained earnings	(23,913)	3,826
Net income – share attributable to equity holders of the parent company	(13,660)	(27,741)
Shareholders' equity	113,382	125,441
Provisions – Non-current portion	216	184
Loans and financial liabilities – Non-current portion	35,005	35,395
Lease liabilities – Non-current portion	6,098	5,142
Other liabilities – Non-current portion	491	546
Deferred tax liabilities	1,694	1,694
Non-current liabilities	43,504	42,961
Provisions - Current portion	-	-
Loans and financial liabilities – Current portion	3,282	2,782
Lease liabilities – Current portion	1,545	1,346
Trade payables	4,273	4,021
Other current liabilities	9,685	7,408
Current liabilities	18,785	15,557
Total liabilities and equity	175,670	183,959

Shareholders' equity

- Beside the H1 2023 operating loss, the change in liabilities is mainly impacted by :
 - Capital transactions €0,4m
 - Employees warrants plans €1,3m

Provisions

Provision for retirement indemnities for the entire Group

Loans and financial liabilities

Repayment of loans for €0,9m

Lease liabilities

 Counterpart to the « right of use » recognized as an asset in the balance sheet, relates to the lease liabilities. Impact of €1,2m split into the current and non-current portions in connection with the extension of a building

Trade payables and other liabilities

Variations explained by the activity of the three consolidated entitites

Deferred tax liabililities

Net position relating to assets recognized following the purchase price allocation exercise





HY 2023 Consolidated cash flow statement

Consolidated cash flow statement (in thousand euros)	June 30, 2023 (6 months)	December 31, 2022 (12 months)
Cash at beginning of the year	100,557	104,956
Cash flow from operating activities	(11,748)	(21,820)
Cash flow from investing activities	(9,503)	(9,327)
Cash flow from financing activities	(832)	26,747
Change in cash position	(22,082)	(4,399)
Cash at end of the period	78,475	100,557



2023 YTD Highlights



Scientific milestones

- Publication in the prestigious Chemical Reviews (March 2023)
- Development of an ultra-high throughput microfluidic screening of PET-depolymerizing enzymes (April 2023)
- Significant expansion of our Intellectual Property portfolio by doubling the number of granted patents in two years (March 2023)
- Publication in **ACS Catalysis** of an article demonstrating superior performance of Carbios enzymes (Oct. 2023)

Industrial scale-up

- **Long-term exclusive agreement with Novozymes** ensuring production and supply of Carbios' proprietary PET-degrading enzymes at industrial scale (January 2023)
- Technical Information Summary ready for licensing (March 2023)
- Partnership with Indorama Ventures Ltd to build the world's first biorecycling plant (June 2023)
- Inauguration of Carbios' **textile preparation line**, a major step towards "fiber-to-fiber" circularity (Oct. 2023)
- Grant of the building permit and operating authorization for Carbios' PET biorecycling plant (Oct. 2023)
- Engineering partnership with De Smet Engineers & Contractors for the construction of the plant (Feb. 2024)
- Partnership with Landbell Group ensuring a significant feedstock supply for Carbios first commercial plant (Feb. 2024)

Corporate

- **PVH Group** joined our fiber-to-fiber consortium with **On, Patagonia, PUMA and Salomon** (Feb. 2023)
- Carbios joins Ellen MacArthur Foundation's circular economy network (March 2023)
- Carbios selected as one of the 10 flagship innovative companies at the **"Choose France" international summit,** entry in the **Coq Vert community** launched by Bpifrance with ADEME and the Ministry of Ecological Transition (May 2023)
- Carbios and L'Oréal win the "Pioneer Awards" at the first World Alliance Summit (Nov. 2023)

Finance

- Success of a €141m rights issue (July 2023)
- **€54m** to be granted by the French State and the Grand-Est region (May 2023)
- **€110m** to be mobilized by Indorama Ventures for the Longlaville plant in equity and non-convertible loan financing (June 2023)



An experienced management team





Emmanuel LADENT

Chief Executive Officer

30 years' experience in the automotive sector



Prof. Alain MARTY

Chief Scientific Officer

International expert in enzymology & biological processes



Pascal BRICOUT

Chief Strategy & Financial
Officer

30 years of international experience in finance



Lise LUCCHESI

Intellectual Property Director

Biotechnology engineer & intellectual property expert



Sophie BALMARY

Director of Human Resources and Legal Affairs

25 years' experience in Human Resources and Social Relations



Mathieu BERTHOUD

Sourcing Director

30 years' experience in the chemical & recycling industry



Lionel ARRAS

Industrial Development Director

25 years' experience in the chemical industry & process engineering



Stéphane FERREIRA

Chief Business Officer

More than 20 years' experience in the chemical industry



Bénédicte GARBIL

Senior Vice President of Corporate
Affairs and Sustainability

Expert in Public Affairs and innovative projects funding



Delphine DENOIZE

Innovation Programs funding, Regulation and LCA Director

Agricultural engineer & innovation funding expert



Our Board of Directors





DR. PHILIPPE POULETTY

Chairman

 Co-Founder & Executive Director of Truffle Capital



PROF. KARINE AUCLAIR*

- Prof. of Chemistry at McGill University
- Tier 1 Canada Research Chair in Antimicrobials and Green Enzymes



ISABELLE PARIZE *

 Prof. in Molecular Engineering at the University of Chicago's Pritzker School

- Chairman of the Supervisory Board of DELSEY Paris
- Board member of Air-France KLM



EMMANUEL LADENT

- BOLD

 Business Opportunities for L'Oréal Development
- LAURENT SCHMITT

CEO of Carbios
30 years' experience in the automotive sector





SANDRINE CONSEILLER*

- Former CEO of Aigle
- Former Marketing and Branding Vice-President at Lacoste



AMANDINE DE SOUZA *

- General Manager Leboncoin
- Ex-General Manager of Le BHV Marais,
 Eataly and Home, DIY and Leisure Purchasing
 at Galeries Lafayette Group



NICOLAS SEEBOTH

 Michelin Ventures, fund created by Michelin in order to materialize Michelin's open innovation approach and to invest in hightech materials that include a sustainable development dimension



VINCENT KAMEL*

- Managing Director of the Solvay Polyamide Division
- Director of Coatis Business Unit
- Asia Director for Engineering plastics



MATEUS SCHREINER GARCEZ LOPES *

- Global Director for Energy Transition and Investments at Raizen
- Former Global Manager in Renewable Chemicals at Brasken



ALEN VUKIC Observer

- CFO of Copernicus Wealth Management
- Chairman of Thalia Capital Advisors and of Finpartner Financial Services, Board member of different AIFM and UCITS funds









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