

Enzymes powering the Circular Economy

April 2021

Bank Of America - Investor Conference Call

CARBIOS PRESENTATION & 2021 STRATEGIC UPDATE



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Carbios at a glance



The first and only company to have developed biological technologies for the end-of-life of plastics and textiles



Ambition

Lead the transition towards sustainable plastics economy by developing technologies for the end of life of plastics

Technologies



Enzymatic biorecycling technology to recycle PET
plastics and fibers to infinity





Enzymatic biorecycling technology: Demonstration plant start up on track

Operational launch in September 2021

- > Technical data generation
- Main parameters definition for each step of the enzymatic recycling process
- Future industrial Unit operations planification
- Fully operational Process Design Package (PDP)



Demonstration plant under construction in Clermont-Ferrand

Engineering and construction in partnership with:





A key step towards building a first of a kind recycling facility

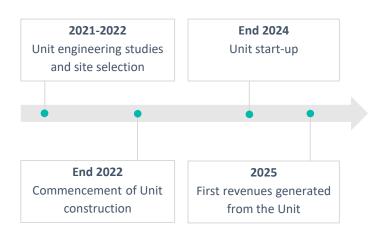
April 2021 Strategic update (1/2)

A new major step in the development of Carbios with the building of a first of a kind 100% PET recycling facility (the "Unit")

Characteristics of the Unit

- annual production of c. 40,000 tons per year
- providing c. 48,000 tons of CO₂ potential savings annually
- diverting PET wastes from incineration and landfilling according to preliminary data⁽¹⁾

Key timetable for the building of the Unit



Estimated cost of the Unit of c. €100 million Carbios has started to explore various financing options



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April 2021 Strategic update (2/2)

- Signing of a first non-exclusive and non-binding Expression of Interest agreement with Equipolymers
- A leading European PET producer which could host the Unit on its site
- > The agreement foresees
 - an assistance in securing the sourcing of PET feedstock for the Unit
 - Shared access to data coming from Carbios' demonstration plant, its biorecycling technology and from Equipolymers' facilities



PET production annual capacity of c. 335,000 MT/year

2 production lines in Germany (ISO-certified)



Combination of Carbios' unique biorecycling technology and Equipolymer's manufacturing and R&D know-how

ADRESSING HIGH GROWTH POTENTIAL MARKET WITH STRONG DRIVERS





The situation – Environmental issue

Each year...

- 86% of packaging waste goes unrecycled globally⁽¹⁾.
- **350 to 400 million tons**⁽²⁾ of plastic are produced worldwide, including **70 million tons of PET**⁽³⁾ worth approx. \$80 billion (a market growing by 4% p.a.⁽⁴⁾).
- **150 million tons**⁽⁵⁾ of plastic waste are generated including **9 million tons** ⁽⁶⁾ that ultimately end up in the natural environment, particularly in our seas and oceans.
- 500 billion units⁽⁷⁾ of plastic bottles are produced each year and fewer than half are collected for recycling.
- Up to \$120 billion⁽⁸⁾ worth of plastic material is disposed of just after one single-use.



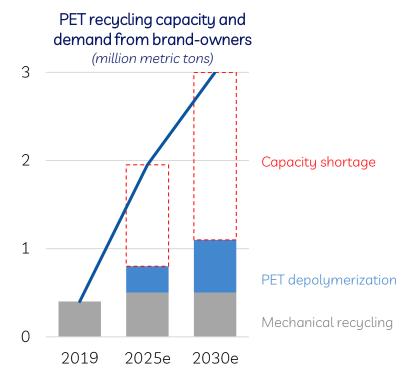






Clugroup in 2018
 PlasticsEurope in 20
 HS Markit in 2018

The situation – Missing capacities



Source: BloombergNEF - Q1 2020

The polyester industry is facing a major change.

Only new recycling technologies will enable PET producers to even partially meet the demand of their customers and States to meet their regulatory targets*.

*50% of EU plastic waste collected used to be sent to China for recycling.



The situation – A growing regulatory pressure

Regulatory pressure is also growing at both the EU and national levels.



Many European initiatives and associations such as the European Plastics Pact and the Circular Plastic Alliance, bring together several actors from the industry, academics, and public authorities, to accelerate the transition towards Circular Economy. This is made possible by considering the whole plastic value chain, and notably by aiming at boosting the recycled plastic EU market.





Strong drivers for more sustainable solutions **PEPSICO** Oct. 2016: "design 100% **L'ORÉAL** of its packaging to be recyclable, compostable or biodegradable by 2025" July 2020: "by 2025, 100% of our plastic packaging will be refillable, reusable, recuclable or compostable" 100% Jul. 2017: "100% of packaging recyclable, reusable or compostable by 2025" and "Recycled plastic content to at least 25% by 2025" Jan. 2019: "Nestlé Waters will increase the recycled PET content in its bottles to 35% by **DEVELOPMENT** 2025" SUNTOR BEVERAGE & FOOD EUROPE 13 CLIMATE ACTION 12 RESPONSIBLE CONSUMPTION 14 LIFE BELOW WATER Sept 2019: "Our ambition? Offer AND PRODUCTION 100% sustainable plastic bottles **Mar. 2019**: H&M Group signatory of the New Plastics Economy made from recycled or bio-sourced materials for our entire beverage Global Commitment, "Our portfolio." business to become 100% circular



and renewable"

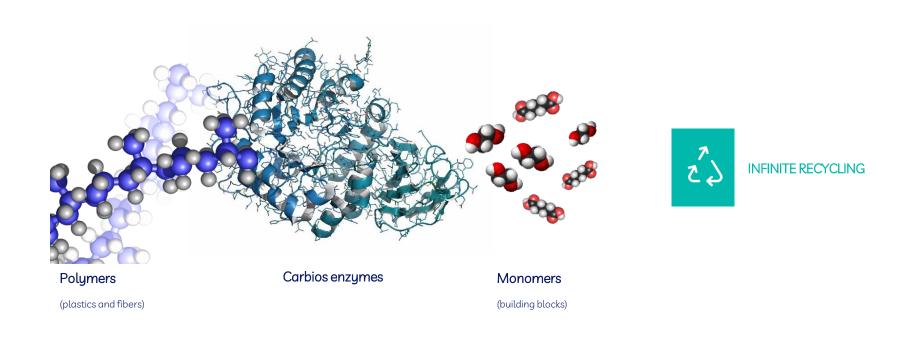


WORLD FIRST ENZYMATIC TECHNOLOGY TO RECYCLE AND REUSE PET-BASED PLASTICS AND FIBERS





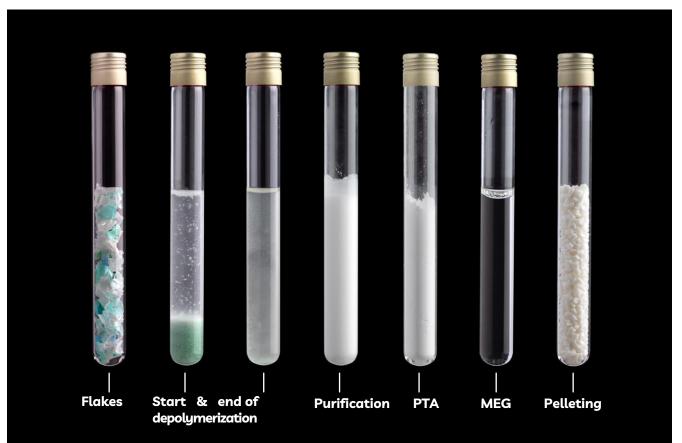
Enzymes to fully break-down plastics!



A revolutionary process for infinite recycling of plastics and fibers



How does it work?





Benefits of the technology

- √ 100% recycled PET
- ✓ A process that can handle all forms of PET plastics (clear, colored, opaque, multi-layer...) and polyester fibers
- ✓ No inhibition of the enzyme by colorants, pigments, carbon black or other polymers (PE, PA, PVC...)
- ✓ Depolymerization at low temperature, atmospheric pressure, water based
- ✓ Diversion of all PET-based plastics and polyester fibers from landfills and incineration



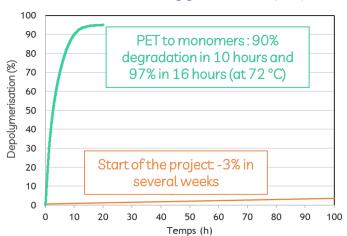
Carbios' innovation offers the potential to recycle PET plastics infinitely and contributes to achieving 100% recycled PET content in new products





PUBLICATION OF AN ARTICLE IN THE PRESTIGIOUS SCIENTIFIC JOURNAL NATURE

co-authored by researchers at Carbios and Toulouse Biotechnology Institute (TBI) laboratory



Depolymerisation kinetics of commercial PET plastic waste (colored flakes, washed with 95% PET)





PET brand-owners consortium agreement









- A 4-year agreement signed in April 2019
- Accelerate the technology's readiness and bring it to full industrial scale
- Increase the availability of high-quality recycled plastics
- Demonstrate the technical, economic and environmental efficiency of Carbios' technology
- Support the structuring of an industrial value chain for an efficient supply of consumer-grade PET

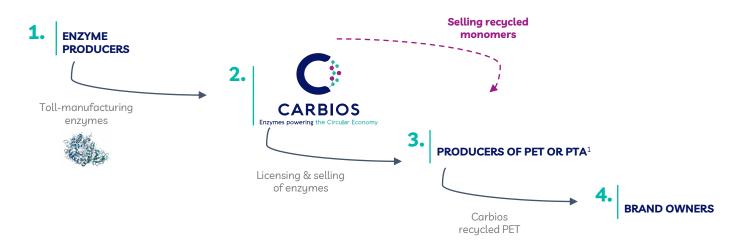
Global key players team up to boost recyclability of PET plastic products



Carbios creates value for all players of the value chain



PET Recycling: our business model



- Market demand guaranteed for the first licenses through our brand owners Consortium, and beyond...
- Two strategic revenue streams for Carbios: license deals and selling of enzymes
- Revenues from Carbios' Unit will be driven by the sale of recycled monomers

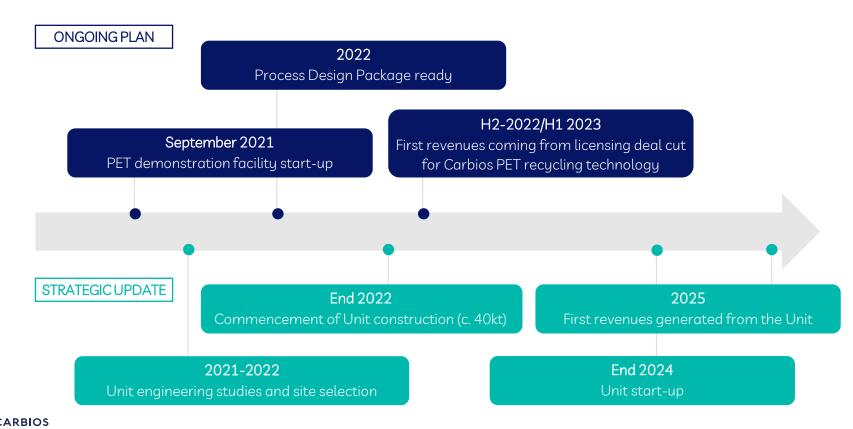


A CLEAR ROADMAP TO COMMERCIAL SUCCESS





What we plan to deliver next?



Key takeaways

- A pioneer in the development of enzymes for plastic processing
 - 2 Breakthrough technologies to disrupt the plastic industry
 - 3 Huge market opportunities and growth potential
 - 4 Numerous strategic partnerships with worldwide blue-chip industry experts
 - Major milestones ahead including reaching licensing stage end of 2022/ early 2023 and first substantial revenues generation
- 6 Highly experienced management supported by renowned shareholders and partners





Enzymes powering the Circular Economy

April 2021

APPENDIX



Intellectual Property

Carbios holds 38 patent families worldwide, including 18 protecting its recycling process as well as the associated proprietary PET-degrading enzymes





WORLDWIDE EXCLUSIVE EXPLOITATION RIGHTS

On all results of R&D collaborations

A UNIQUE KNOW-HOW

In the development of bioprocesses combining enzymes & polymers

A STRONG INTELLECTUAL PROPERTY

Protecting the applicative use of enzymes, processes and products

Patents granted in:

Europe, United-States, Canada, Mexico, China, India, Japan...



2020 Highlights



- Publication of an article co-authored by Carbios and TBI in the prestigious scientific journal Nature (April 2020)
- Production of the first clear bottles from enzymatically recycled textile waste (November 2020)

Partnerships

- JDA with Novozymes for the production of PET-degrading enzymes (January 2020)
- Launch of a cooperative lab with the Toulouse Biotechnology Institute (January 2020)
- Carbios to move facilities to a Michelin site in Clermont-Ferrand, France (September 2020)

Industrial scale-up

- Construction of an industrial demonstration plant for the enzymatic recycling of PET (June 2020)
- Commercial launch of Evanesto® (December 2020)

Finances

- Successful Private Placement for a total amount of €27 million, concurrently with a €10 million Secondary Offering (July 2020)
- Acquisition of Limagrain Ingredients equity stake in the capital of Carbiolice (October 2020)



Share & Shareholders

As of April 1st, 2021

MARKET Euronext Growth Paris

MNEMO/REUTERS/BLOOMBERG ALCRB / ALCRB.PA / ALCRB.FP

SHARES ISIN CODE FR0011648716

NUMBER OF SHARES 8,164,472

ICB CLASSIFICATION Chemistry / Speciality chemistry

Euronext Growth All-share, Euronext

Growth Bpifrance Innovation Index,

Enter Next PEA PME 150

FRENCH PEA-PME ELIGIBILITY Yes

ANALYST COVERAGE

INDICES



Baptiste de Leudeville



Xavier Regnard



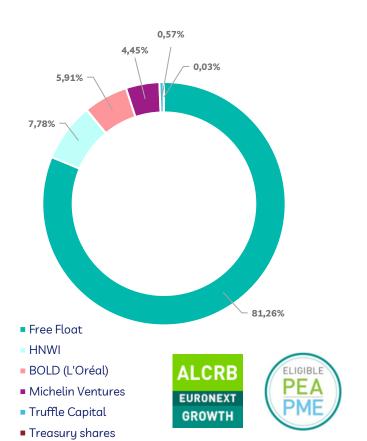
Alexandre Letz



Hana Maalej







FY 2020 Income Statement

(In thousand euros)	December 31, 2019	December 31, 2020
Operating revenue	1,450	1,643
Operating expenses	(5,986)	(8,464)
Operating Income	(4,535)	(6,821)
Financial Income	(29)	(93)
Current Income before Tax	(4,564)	(6,914)
Extraordinary profit (loss)	15	(720)
Income tax (Tax research credit)	800	1,488
NET INCOME (LOSS)	(3,749)	(6,146)



FY 2020 Simplified Balance Sheet

Assets (in thousand euros)	December 31, 2019	December 31, 2020
Intangible assets	858	1,086
Tangible assets	1,107	1,236
Assets in progress	1, 308	3,558
Financial assets	12,027	20,907
Fixed Assets	15,300	26,786
Inventory	21	39
Receivables	1,065	2,150
Cash and marketable securities	15,915	29,097
Pre-paid expenses	75	139
Current Assets	17,076	31,425
Deferred financing costs	11	17
TOTAL ASSETS	32,386	58,228



FY 2020 Simplified Balance Sheet

Liabilities & Equity (in thousand euros)	December 31, 2019	December 31, 2020
Shareholder's equity	22,005	45,135
Conditional advances	4,250	4,173
Loans	3,818	5,647
Trade payables and related accounts	1,387	1,952
Other liabilities	750	1,146
Prepaid income	176	176
Payables	6,131	8,921
TOTAL LIABILITIES & EQUITY	32,386	58,228



FY 2020 Cash Flow Statement

Cash flow (in thousand euros)	December 31, 2019	December 31, 2020
Cash at the opening	5,149	15,915
Net cash generated by operations	(3,036)	(5,169)
Net cash from investments	(2,406)	(12,667)
Net cash from financing operations	16,209	31,019
Change in cash	10,766	13,182
CLOSING CASH	15,915	29,097



Management team



Jean-Claude LUMARET

Founder & CEO

40 years' experience in the international agro-industry and intellectual property expert

- METABOLIC EXPLORER: VP Strategy & Innovation (Member of the Executive Committee)
- ROQUETTE: Director, Business Intelligence, Director BU Fermentation and Industrial Chemistry, Director, Intellectual Property and Regulatory Affairs
- Chemical Engineer, Lyon University, European Trademark Expert, CEIPI Center for International IP Study, Strasbourg



Martin STEPHAN

Deputy CEO

30 years' experience in the chemical industry

- CHEMOURS: Global Director of the Fluorotelomers business, EMEA Director, Sourcing, Logistics & Real Estate
- DU PONT DE NEMOURS: Global Product Manager, Business and Market Manager, Sales Director
- ATOFINA: Global Business Manager Fluorotelomers
- ELF ATOCHEM: Various positions in Finance
- MS in Business Management, HEC Paris, BA Economics Paris University.



Kader HIDRA

Chief Financial
Officer

Financial markets expert

- CITEGESTION (EDF): CEO of a digital start-up specialized in asset management and software development for Smart Cities
- **EDF:** Investor & Markets Director (Head of IR)
- MORGAN STANLEY: Utilities & Clean Energy Specialist Equity Sales
- **BERENBERG**: Utilities & Clean Energy Specialist
- Printing & Packaging Engineer (Ecole Polytechnique Grenoble), MBA from Duke University (Fuqua Business School).



Prof. Alain MARTY

Chief Scientific Officer

International expert in enzymology and biological processes

- INSA Institut National des Sciences Appliquées, Toulouse: Professor and Head of a research group
- AERES Agence d'Evaluation de la Recherche et de l'Enseignement Supérieur and ANR Agence Nationale de la Recherche: Evaluator (France's National Education Research Agencies)
- PhD in Biology, Biochemical Engineer, University of Toulouse



Our Values

Our corporate culture focuses on 4 strong pillars shared by our employees and our partners.

RESPECT for people: Our employees are our most precious assets. At Carbios, we aim to respect people in their diversity and ensure an ideal, stimulating work environment. The key importance of respect at Carbios also concerns the integrity of our words and actions with our partners.

COMMITMENT for the Planet: By proposing sustainable solutions to rethink the end-of-life of plastic materials and textiles, Carbios shows its commitment to protecting the environment and its desire to support a Circular Economy that benefits future generations.

INNOVATION benefiting industrial reality: Thanks to high level scientific research combining for the first time the world of enzymology and plastics, we innovate every day to be able to offer sustainable and industrial solutions that address the major environmental and societal challenges of our time.

AGILITY serving performance: The agility of our teams along with the diversity of their expertise is one of Carbios' major strengths enabling us to provide the best in innovation to our partners.



