Enzymes powering the Circular Economy



CARBIOS CORPORATE PRESENTATION Euronext Growth Paris: ALCRB



Enzymes powering the Circular Economy

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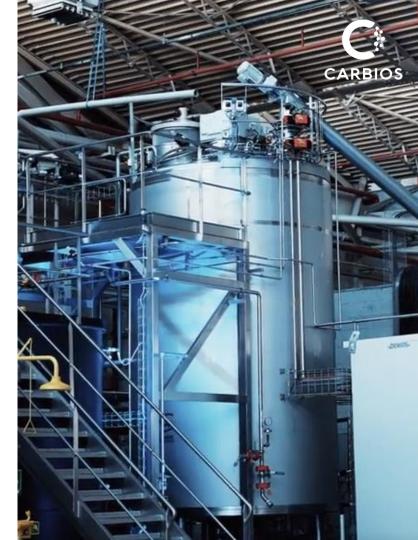
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SEPTEMBER, 2021: START-UP OF AN INDUSTRIAL DEMONSTRATION FACILITY OPERATING CARBIOS' PET ENZYMATIC RECYCLING TECHNOLOGY, **C-ZYME®**

CARBIOS



Management team



Jean-Claude

Founder & CEO

40 years' experience in the international agro-industry & 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 industru

- CHEMOURS: Global Director of the Fluorotelomers business. EMEA Director. Sourcina. 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).



Vanina VARLAMOFF

Legal Affairs and Human Resources Director

Lawyer , Strategic contracts manager & HR supervisor

- LAWYER, graduated from Paris' Bar School.
- After spending few years as a lawyer in Paris, mainly in the fields of Intellectual Property rights protection and communication law, Vanina joined Carbios in 2017 as Legal Manager. Now Director of Legal Affairs and Human Resources, she is mainly in charge of analyzing and drafting strategic contracts. She also supervises the Human Resources department of the Company.



Prof. Alain MARTY

Chief Scientific Officer

International expert in enzymology & 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



Lise LUCCHESI

Intellectual Property Director

Biotechnology engineer & Intellectual Property expert

- METABOLIC EXPLORER: Market analyst
- Management of the Company's patents and trademarks portfolio. Lise also holds responsibility for contracts involving intellectual property rights (license, research collaborations and services, etc.)
- Biotechnology Engineer, CEIPI Center for International IP Study, Strasbourg

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



First natural enzyme-based additive to fully biodegrade PLA-based plastics



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Carbios' PET enzymatic recycling technology, C-ZYME® Demonstration plant now fully operational

<u>Sept. 2021:</u>

Start-up of Carbios demonstration facility, which prefigures the design and operations of future industrial units.

Objectives by the end of 2022:

- 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)



Carbios depolymerization Unit for the conversion of PET waste into monomers

• Engineering partner for the design and construction :



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



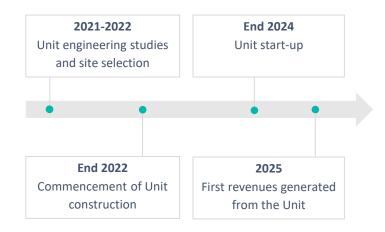
Strategic update (1/2)

In April 2021, Carbios announced a new major step in the development of technology with the building of a <u>first of a kind 100% PET recycling facility</u> (the "Unit")

Characteristics of the Unit

- > annual production of c. 40,000 tons per year
- Potential saving of 30% CO₂ emissions compared to a conventional end of life mix of incineration and landfill, taking into account virgin PET production substitution⁽¹⁾

Key timetable for the building of the Unit⁽²⁾



Estimated cost of the Unit of c. €100 million

Strategic update (2/2)

In April 2021, Carbios announced the signing of a non-exclusive and non-binding Expression of Intent agreement with a major PET producer

> A leading 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 the PET producer's facilities

Agenda

3

Adressing high growth potential markets with strong drivers

C-ZYME[®]: unique enzymatic technology to recycle and reuse PET-based plastics and fibers

Evanesto[®]: the world's first enzymatic biodegradation technology for PLA-based plastics

Clear roadmap to reach commercial success



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.







CARBIOS

Citigroup in 2018
 PlasticsEurope in 2018
 IHS Markit in 2018

Straits Times in 2015
 Adama in 2012

Citigroup in 2018, Euromonitor in 2017 Ellen McArthur Foundation & McKinsey: The New Plastic Economy in 2016

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.

Carbios is part of the organizations that have signed the European Plastics Pact

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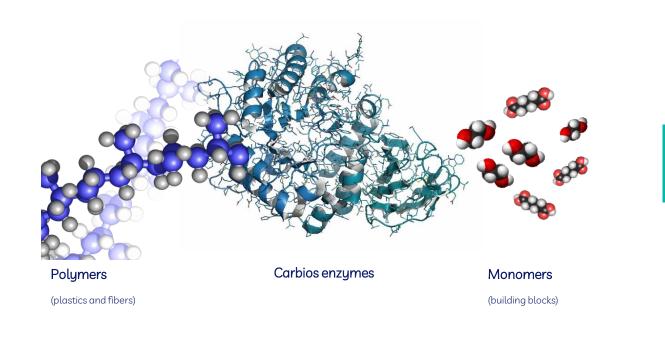


C-ZYME®: WORLD FIRST ENZYMATIC TECHNOLOGY TO RECYCLE AND REUSE PET-BASED PLASTICS AND FIBERS





Enzymes to fully break-down plastics!





INFINITE RECYCLING

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 (textile & technical fibers for tires)
- ✓ 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

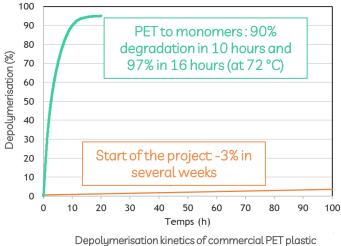
Carbios' innovation offers the potential to recycle PET plastics infinitely and contributes to achieving 100% recycled PET content in new products





PUBLICATION OF AN ARTICLE IN THE PRESTIGIOUS SCIENTIFIC JOURNAL NATURE

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



waste (colored flakes, washed with 95% PET)

E CARBIOS

The international journal of science/9 April 2020 Engineered enzyme promises efficient route to recycle and reuse PET plastics

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



World's First Enzymatically Recycled Bottles



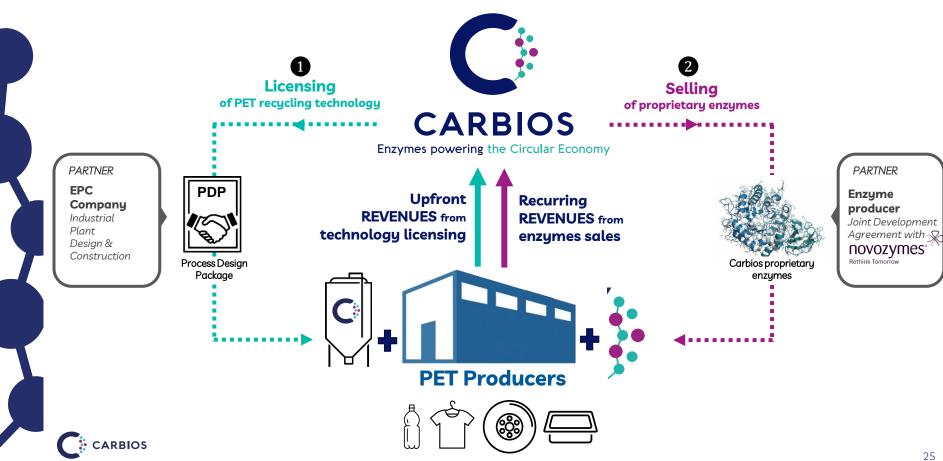
June 2021: Food grade sample bottles produced by Consortium – including Carbios, L'Oréal, Nestlé Waters, PepsiCo and Suntory Beverage & Food Europe – using Carbios' breakthrough enzymatic recycling process (See Press release date June 24, 2021)



Carbios creates value for all players of the value chain



PET Recycling: our business model







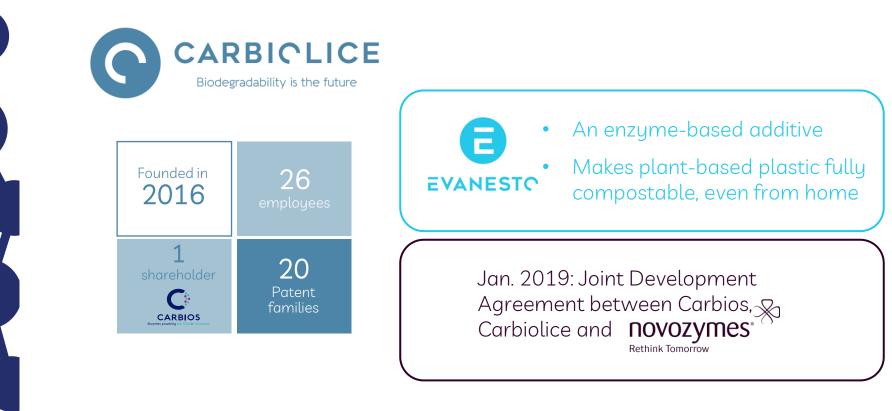
EVANESTO[®], the world's first enzymatic biodegradation technology



CARBIOS

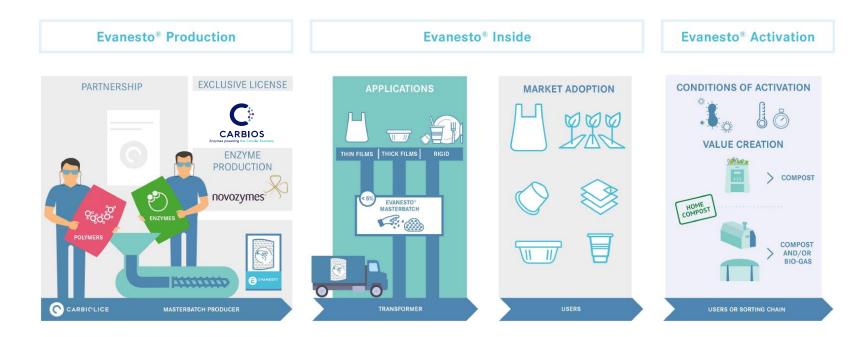


Carbiolice at a glance





How does it work? Step by step



Accelerate PLA-based plastics biodegradation and guarantees compostability in less than 200 days

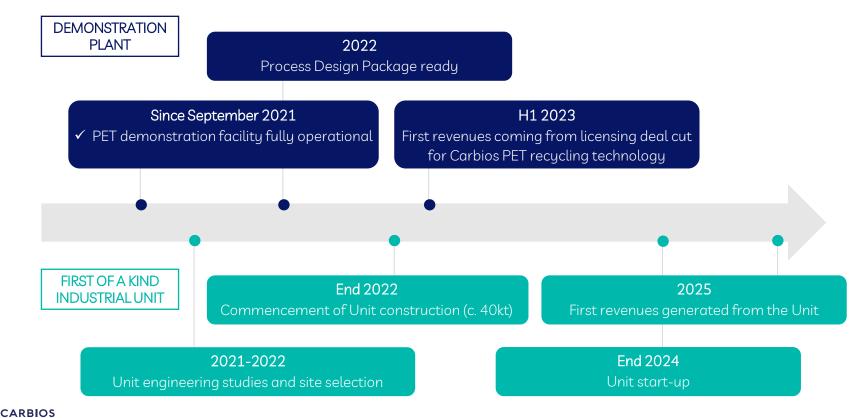
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A CLEAR ROADMAP TO COMMERCIAL SUCCESS





What we plan to deliver next?



Key takeaways

3

5

6

A pioneer in the development of enzymes for plastic processing

Breakthrough technologies to disrupt the plastic industry

Huge market opportunities and growth potential

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

Highly experienced management supported by renowned shareholders and partners

APPENDIX





Intellectual Property

Carbios holds 39 patent families worldwide, including 19 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:

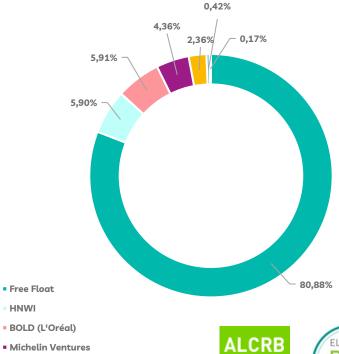
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Europe, United-States, Canada, Mexico, China, India, Japan...

Share & Shareholders

as of June 30, 2021

MARKET	Euronext Growth Paris
MNEMO/REUTERS/BLOOMBERG	ALCRB / ALCRB.PA / ALCRB:FP
SHARES ISIN CODE	FR0011648716
NUMBER OF SHARES	11,164,472
ICB CLASSIFICATION	Chemistry / Speciality chemistry
INDICES	Euronext Growth All-share, Euronext Growth Bpifrance Innovation, Euronext Tech Croissance, CAC PME, Enternext PEA-PME
FRENCH PEA-PME ELIGIBILITY	Yes
ANALYST COVERAGE	Kepler Cheuvreux Baptiste de Leudeville
	Bryan, Garnier & Co Xavier Regnard
	Alexandre Letz
	ODDO BHF Hana Maalej
EXAN	E BNP PARIBAS Laurent Gelebart
CARBIOS	



- Group L'Occitane
- Truffle Capital

HNWI

Treasury shares & Directors



HY 2021 Highlights

SCIENTIFIC MILESTONES:

- Michelin has successfully validated the use of Carbios' enzymatic recycling technology for PET plastic waste in its tires (April 2021)
- Successful production of food-grade PET plastic bottles produced entirely from enzymatically recycled plastic. (June 2021)

CORPORATE:

CARBIOS

- Successful €114 million capital increase (May 2021)
- Full takeover of Carbiolice through the acquisition of the SPI fund's equity (June 2021)
- Carbios awarded as Technology Pioneer by World Economic Forum (June 2021)
- Production of the world's first samples of food-grade PET plastic bottles manufactured entirely from enzymatically recycled
 plastic. (June 2021)
- Operational start-up of the Company's PET recycling demonstration facility in Clermont-Ferrand, France (Sept. 2021)

Cash Flow Statement

Cash flow (in thousand euros)	December 31, 2020	June 30, 2021
Cash at the opening	15,915	29,097
Net cash from operations	(5,169)	(4,723)
Net cash from investments	(12,668)	(20,908)
Net cash from financing operations	31,020	108,766
Change in cash	13,183	83,135
CLOSING CASH	29,097	112,232

HALF-YEAR 2021 Income Statement

CARBIOS

(In thousand euros)	June 30, 2020	June 30, 2021
Operating revenue	849	568
Operating expenses	3,567	6,143
Operating Income	(2,718)	(5,575)
Financial Income	(50)	(39)
Current Income before Tax	(2,768)	(5,614)
Extraordinary profit (loss)	39	15
Income tax (Tax research credit)	(469)	(1,182)
NET INCOME (LOSS)	(2,260)	(4,417)

Simplified Balance Sheet

Assets (in thousand euros)	December 31, 2020	June 30, 2021
Intangible assets	1,086	1,301
Tangible assets	4,793	8,179
Financial assets	20,907	38,804
Fixed Assets	26,786	48,284
Inventory	39	54
Receivables	2,150	3,555
Cash and marketable securities	29,097	112,232
Pre-paid expenses	139	518
Current Assets	31,425	116,359
Deferred financing costs	17	15
TOTAL ASSETS	58,228	164,658

Liabilities & Equity (in thousand euros)	December 31, 2020	June 30, 2021
Shareholder's equity	45,134	149,538
Conditional advances	4,173	4,173
Loans	5,647	5,593
Trade payables and related accounts	1,952	3,498
Other liabilities	1,146	1,378
Prepaid income	176	478
Payables	8,921	10,948
TOTAL LIABILITIES & EQUITY	58,228	164,658

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.



Enzymes powering the Circular Economy

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