



Press Release

Carbios, On, Patagonia, PUMA and Salomon team up to advance circularity in the textile industry

- **After achieving milestone in packaging recycling, Carbios' unique biological technology fundamentally changes the circularity of fibers**

Clermont-Ferrand, France, July 6th, 2022 (06:00 PM CEST). Carbios (Euronext Growth Paris: ALCRB), a pioneer in the development of enzymatic solutions dedicated to the end-of-life of plastic and textile polymers, has signed an agreement with On, Patagonia, PUMA, and Salomon, to develop solutions that will enhance the recyclability and circularity of their products.

An important element of the two-year deal will be to speed up the introduction of Carbios' unique biorecycling technology, which constitutes a breakthrough for the textile industry. Carbios and the four companies will also research how products can be recycled, develop solutions to take-back worn polyester items, including sorting and dismantling technologies, and gather data on fiber-to-fiber recycling as well as circularity models.

The challenge the four brands share, is that their ambitious sustainable development goals can only partially be met by conventional recycling technologies which mostly target bottle-to-fiber recycling. Future regulations will require more circularity in packaging and textile. Yet the market consensus is that there will soon be a shortage of PET bottles, as they will be used for circular production methods in the Food & Beverage Industry.

Carbios' innovative process constitutes a real technological breakthrough for the recycling of polyester (PET) fibers, which are widely used in apparel, footwear and sportswear, on their own or together with other fibers. PET polyester is the most important fiber for the textile industry with 52 MT produced, even surpassing cotton at 23MT¹. The biorecycling process uses an enzyme capable of selectively extracting the polyester, recovering it to recreate a virgin fiber. This revolutionary technology makes it possible to recover the PET polyester present in all textile waste that cannot be recycled using traditional technologies.

PET plastics and fibers are used to make everyday consumer goods such as bottles, packaging and textiles. Today, most PET is produced from fossil resources, then used and discarded according to a wasteful linear model. By creating a circular economy from used plastics and fibers, Carbios' biorecycling technology offers a sustainable and more responsible solution.

Emmanuel Ladent, Chief Executive Officer of Carbios, said, *"This Consortium model has proved to be very efficient based on the success of the milestones previously achieved in packaging. We are very pleased to partner with these prestigious brands, On, Patagonia, PUMA, and Salomon. Our common goal is to contribute to reducing the environmental impact of the textile industry by offering an industrial solution to recycle polyester fibers and help our partners to meet their sustainable development goals."*

Adrienne Gilbride, Senior Sustainability Manager at On, noted *"On is committed to becoming fully circular before the end of the decade. Our partnership with Carbios and the other consortium members is an important*

¹ Source: Market data 2019

step towards enabling the industry to game-changing circular technologies at scale. Fiber-to-fiber recycling is a key building block in closing the loop within the textile and footwear industry".

Natalie Banakis, Materials Innovation Engineer Patagonia, adds *"At Patagonia we are actively using our business to "save the Home planet". We are excited to partner with Carbios and the textile consortium to work collaboratively to reduce waste produced by textiles. The textile waste problem is bigger than one company or solution, and Patagonia is excited to be working in a new format to solve this problem."*

Howard Williams, Director Global Innovation Apparel and Accessories at PUMA adds, *"As part of our Forever Better sustainability strategy, we aim to use 75% recycled polyester in our Apparel and Accessories by 2025. The partnership with Carbios and their innovative biorecycling methods offer a promising approach to reach our goals and make our industry as a whole more circular."*

Olivier Mouzin, Footwear Sustainability Manager at Salomon, concludes, *"At Salomon, we provide advanced sports solutions for all the outdoor participants, from the elite to the enthusiasts. Therefore, it is a natural decision for us to join this consortium made up of clothing and footwear companies, as well as Carbios, to form a new organization for advancing textile recycling that will help create a sustainable future for all Outdoor players. Our goal in joining the consortium is to bring awareness to the end-of-life of textiles, with the ambition of establishing true circularity within the textile industry. The companies in the consortium aim to do this by discovering ways to recycle fibers from one product into another. Partnering with Carbios—a green chemistry leader offering a bio-recycling process that recycles apparel and footwear materials into thread for new products—better enables us to accomplish this goal."*

About Carbios

Established in 2011 by Truffle Capital, Carbios is a green chemistry company, developing biological and innovative processes. Through its unique approach of combining enzymes and plastics, Carbios aims to address new consumer expectations and the challenges of a broad ecological transition by taking up a major challenge of our time: plastic and textile pollution.

Carbios deconstructs any type of PET (the dominant polymer in bottles, trays, textiles made of polyester) into its basic components which can then be reused to produce new PET plastics with equivalent quality to virgin ones. This PET innovation, the first of its kind in the world, was recently recognized in a scientific paper published in front cover of the prestigious journal Nature. Carbios successfully started up its demonstration plant in Clermont-Ferrand in 2021. It has now taken another key step towards the industrialization of its process with the construction of a first-of-a-kind unit in partnership with Indorama Ventures.

In 2017, Carbios and L'Oréal co-founded a consortium to contribute to the industrialization of its proprietary recycling technology. Committed to developing innovative solutions for sustainable development, Nestlé Waters, PepsiCo and Suntory Beverage & Food Europe joined this consortium in April 2019.

The Company has also developed an enzymatic biodegradation technology for PLA-based (a bio sourced polymer) single-use plastics. This technology can create a new generation of plastics that are 100% compostable in domestic conditions, integrating enzymes at the heart of the plastic product.

For more information, please visit www.carbios.com/en

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Carbios (ISIN FR0011648716/ALCRB) is eligible for the PEA-PME, a government program allowing French residents investing in SMEs to benefit from income tax rebates.

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About Patagonia: [Patagonia](#) is a Certified Benefit Corporation based in Ventura, CA that is recognized internationally for product quality and environmental activism. Patagonia has contributed more than \$145 million in grants and in-kind donations to date to grassroots nonprofits working to protect people and the planet.

About PUMA: PUMA is one of the world's leading sports brands, designing, developing, selling and marketing footwear, apparel and accessories. For more than 70 years, PUMA has relentlessly pushed sport and culture forward by creating fast products for the world's fastest athletes. PUMA offers performance and sport-inspired lifestyle products in categories such as Football, Running and Training, Basketball, Golf, and Motorsports. It collaborates with renowned designers and brands to bring sport influences into street culture and fashion. The PUMA Group owns the brands PUMA, Cobra Golf and stichd. The company distributes its products in more than 120 countries, employs about 16,000 people worldwide, and is headquartered in Herzogenaurach/Germany.

About On:

On was born in the Swiss Alps with one goal: to revolutionize the sensation of running by empowering all to run on clouds. Eleven years after market launch, On delivers industry-disrupting innovation in premium footwear, apparel, and accessories for high-performance running, outdoor, and all-day activities. Fuelled by customer-recommendation, On's award-winning CloudTec® innovation, purposeful design and groundbreaking strides in sportswear's circular economy have attracted a fast-growing global fanbase — inspiring humans to explore, discover and dream on.

On is present in more than 60 countries globally and engages with a digital community on www.on-running.com.

About Salomon:

Born in the French Alps in 1947, Salomon is committed to pushing the boundaries of mountain sports through the creation of innovative equipment that allows people to play, progress and challenge themselves in their chosen outdoor sports. The company produces and sells premium footwear, winter sports and mountaineering equipment, hiking equipment, and apparel specifically designed for all those disciplines. Products are developed in the company's Annecy Design Center, where engineers, designers and athletes collaborate to create innovative solutions that continually improve the outdoor experiences of those who see nature as a vast playground.

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