

READY FOR THE NEW ERA OF FIBERS AND PLASTICS?

We are! Twelve partners from seven countries who share a joint vision and ambition to develop new, sustainable materials. The prediction of having more plastics than fish in the sea by 2050 calls for action now! We have therefore joined our knowledge, expertise and experiences under the project EFFECTIVE, and have started our exciting journey towards the production of bio-based fibres and plastics. We are inviting you not only to follow us, but also to actively contribute with your ideas and proposals for the uses of our material. The more ideas we share, the more solutions we can co-create. We are looking forward to hearing from you! Contact us at effective@aquafil.com.

The EFFECTIVE Team

GOOD TO KNOW

LEARN MORE ABOUT THE NEW ERA OF FIBERS AND PLASTICS

BRINGING BIO-BASED SOLUTIONS INTO EVERYDAY LIFE

EFFECTIVE is a multi-company collaboration to produce more sustainable bio-based fibres and plastics for large consumer products. Our aim is to design bio-based polyamides and polyesters from **renewable feedstock** rather than from crude oil, and to manufacture greener and structurally improved **fibres and films**. The use of our bio-based ingredients will be showcased in a wide array of mass-produced **consumer products** across multiple markets, such as construction, the automotive industry, packaging, garments, carpets and textiles. Moreover, project EFFECTIVE will also close the loop at the end of the bio-products life by validating circular process of recycling and biodegradation/composting.

CONSORTIUM:



INTERNATIONAL PARTNER:



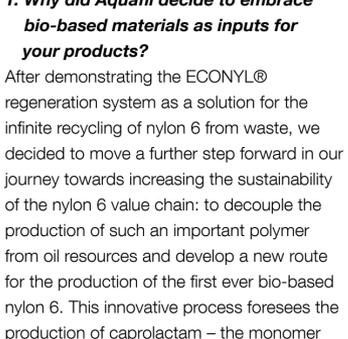
THE BIO-BASED INDUSTRIES JOINT UNDERTAKING – A PRIVATE-PUBLIC PARTNERSHIP FOR A SUSTAINABLE FUTURE



EFFECTIVE is backed by the Bio-Based Industries Joint Undertaking (BBI JU), a €3.7 billion Public-Private Partnership between the **EU** and the **Bio-Based Industries Consortium**. Operating under Horizon 2020, the BBI JU is co-developing the bio-based industrial sector, which can significantly reduce Europe's dependency on fossil-based products, help the EU meet climate change targets, and lead to greener and more environmentally friendly growth.

ONE ON ONE

AN INTERVIEW WITH EDI KRAUS, GENERAL MANAGER OF AQUAFILSLO, PROJECT COORDINATOR



Edi Kraus, General Manager AquafilSLO

1. Why did Aquafil decide to embrace bio-based materials as inputs for your products?

After demonstrating the ECONYL® regeneration system as a solution for the infinite recycling of nylon 6 from waste, we decided to move a further step forward in our journey towards increasing the sustainability of the nylon 6 value chain: to decouple the production of such an important polymer from oil resources and develop a new route for the production of the first ever bio-based nylon 6. This innovative process foresees the production of caprolactam – the monomer for the synthesis of nylon 6 – from renewable and sustainable feedstock rather than from fossil fuels. This journey has begun with our strategic partnership with Genomatica and now it is evolving in project EFFECTIVE.

2. What do you expect to gain from EFFECTIVE?

We believe that EFFECTIVE can represent a virtuous example of a sustainable and circular bioeconomy model, where materials are manufactured from renewable resources, and where no waste is generated at the end of the useful life of the products.

To make it happen, a joint effort of different players was and is still required. That's why the EFFECTIVE industry is not limited only to the consortium's partners, who cover all the steps of the value chain – from feedstock producers up to important brands – but also includes a wide range of external stakeholders who have committed to supporting the project and facilitating the future replication of the solutions we are demonstrating.

The size and variety of the interest that our project has attracted leads us to expect that these new materials will not be a value proposition attractive only for special or niche applications, but could represent a concrete opportunity for the whole plastics industry.

3. How can the project benefit different industries in Europe?

Their bio-based origin and sustainability – both in terms of processes and end of life of the materials – will be the driving force for the application of the EFFECTIVE materials (both polyamides and polyesters) in several market sectors. Indeed, although in the project we are going to target five key markets – textiles, construction, the automotive industry, and primary and secondary packaging – the replicability potential of the EFFECTIVE biomaterials in different sectors is much larger. As a consequence, a wide range of industries can benefit from the development of such innovative bio-based materials, making the nylon and polyesters' value chains more sustainable and reinforcing the position of the EU as a global leader in biomaterials.

EVENTS



Partners of the EFFECTIVE consortium in Novamont, Novara, December 2018

PARTNERS MEETING IN NOVARA

In December 2018, Novamont hosted the second meeting of the EFFECTIVE team members in Novara, Italy, where we updated each other on our progress and exchanged ideas on how to go forward in 2019. Teams from Novamont, Aquafil, Südzucker and Genomatica have been working hard to validate different types of sustainable feedstocks and optimise the processes for converting them into building blocks for the production of bio-based polymers, producing the first visible results.

MEETING POINT



MEET THE EFFECTIVE CONSORTIUM #1: VAUDE

Vaude makes functional and innovative products for mountain and biking sports activities. As a sustainable innovative outdoor outfitter, Vaude is contributing to making the world a better place so that the people of tomorrow can enjoy nature with a clean conscience. In doing so, the family-owned company sets ecological and social standards worldwide. The company stands for environmentally-friendly products made from fair manufacturing and employs approximately 500 people at the company headquarters near the southern German town of Tettang. Vaude's role in EFFECTIVE is to use bio-based polyamide fabrics for the manufacture of garment products and to contribute to the development of eco-design measures.

GET ENGAGED

BIO-BASED MATERIALS – WHAT'S IN IT FOR MY INDUSTRY?

- Improved sustainability
- Enhanced performance
- Recyclable or biodegradable/compostable products
- Materials produced from renewable feedstock
- Re-designing products with different and more sustainable materials

GENOMATICA:

Remaking nylon – international partner of EFFECTIVE

WATCH THE VIDEO

SAVE THE DATE: 4TH CIRCULAR CHANGE CONFERENCE – 16/17 MAY, MARIBOR, SLOVENIA

MAY 2019

16 / 17

– organised by Circular Change, and partnered by Aquafil - more info soon available

HERE

JOIN OUR STAKEHOLDER GROUP!

We are calling all interested companies, public entities, academic institutions, NGOs and others to join the EFFECTIVE Stakeholder Group. Beginning in 2019, you will receive regular updates on the state of the project and industry via email, be able to access exclusive content for finding future opportunities, and be invited to stakeholder meetings. To receive a copy of the Letter of Interest, contact the project coordinator on effective@aquafil.com!



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