

# EFFECTIVE

ADVANCED ECO-DESIGNED FIBRES AND FILMS FOR LARGE CONSUMER PRODUCTS FROM BIOBASED POLYAMIDES AND POLYESTERS IN A CIRCULAR ECONOMY PERSPECTIVE

[www.effective-project.eu](http://www.effective-project.eu)

A NEW ERA OF FIBERS AND PLASTICS

## BRINGING BIO-BASED SOLUTIONS TO EVERYDAY LIFE

### ABOUT

**EFFECTIVE** is a 4-year project connecting 12 companies, who aim to produce more sustainable bio-based fibres and plastics by redesigning two of today's most widely used materials: **polyamides** and **polyesters**.

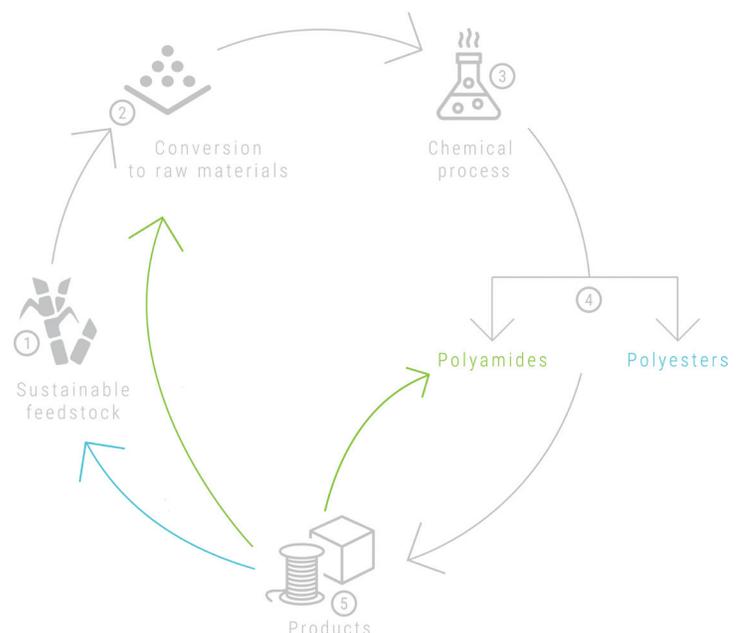
To minimize the impact on the environment, EFFECTIVE will introduce bio-based polyamides and polyesters made from **renewable feedstocks** rather than oil, and manufacture greener and structurally improved **fibres and films**.

Our bio-based ingredients will be showcased in a wide array of mass-produced **consumer products** spanning various industries, such as construction, automotive, packaging, garments, carpets and textiles.

By embracing the **circular economy**, special attention will be given to demonstrating a sustainable end-of-life of the new products. The recyclability or biodegradability of the EFFECTIVE materials will be validated in order to close the material cycle loop.

### THE EFFECTIVE PROCESS

- 1 Production of sustainable sugars and vegetable oils
- 2 Conversion of sustainable feedstock into monomers for the production of bio-based polyamides and polyesters
- 3 Polymerization of bio-based polyamides and polyesters
- 4 Production of fibres and films
- 5 Validation of bio-based materials into final products
- 5 Recycling and biodegradation of the bio-based materials



12

PARTNERS

7

COUNTRIES

1/6/18

STARTING DATE

48

MONTHS

## PARTNERS

COORDINATOR:



INTERNATIONAL PARTNER:



## CONTACTS



[www.effective-project.eu](http://www.effective-project.eu)

