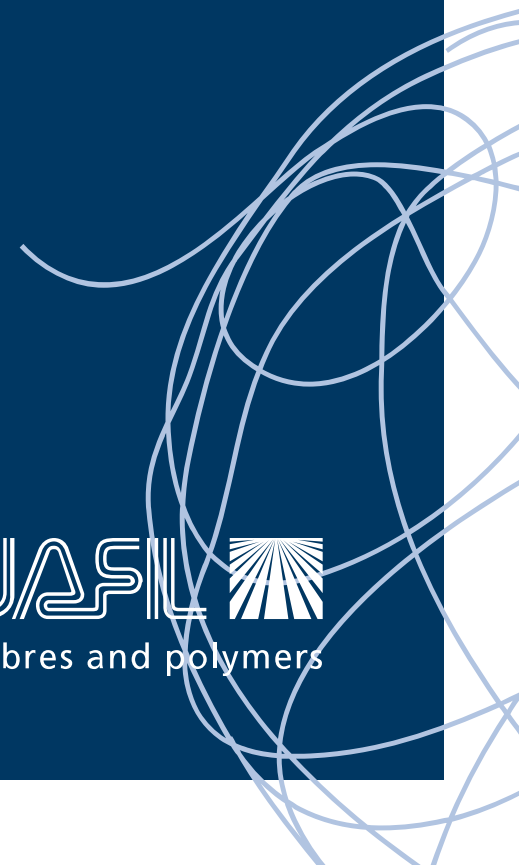




AQUAFIL 
synthetic fibres and polymers

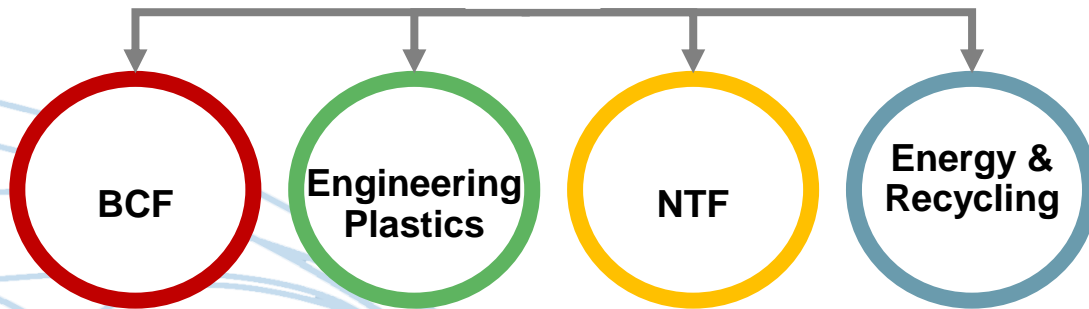


Who we are & what we do

Turnover 2010: 432,3 mil/euro

13 plants (5 Italy, 4 Slovenija) **3** Continents (Europe, USA, Asia)

2000 employees (900 in Italy, 750 Slovenija)



- **BCF** Synthetic yarn for textile flooring
- **NTF** Nylon textile filament
- **EP** Engineering plastics



Where we are

ITALY

Arco TN

BCF

- ▶ Polymerization
- ▶ Spinning

EP

- ▶ Compound of polyamide and Masterbatch

Cares TN

BCF

- ▶ Air-entangling
- ▶ Twisting

Rovereto TN

BCF

- ▶ Dyeing with Superba and Space technology

Varallo Pombia NO

NTF

- ▶ Spinning
- ▶ Texturizing



Where we are

SLOVENIA

Ljubljana

BCF/NTF

- ▶ Polymerization
- ▶ Spinning
BCF/textiles
- ▶ Twisting
- ▶ Heatsetting

Senozece

NTF

- ▶ Warping

Store

BCF

- ▶ Twisting
- ▶ Heatsetting

CROATIA

Oroslavje

NTF

- ▶ Air-entangling
- ▶ Conventional
covering
- ▶ Twisting
- ▶ Texturizing

CHINA

Jiaxing

BCF

- ▶ Air-entangling
- ▶ Spinning
- ▶ Twisting
- ▶ Heatsetting
- ▶ Compounding



USA

Cartersville (Georgia)

BCF

- ▶ Spinning
- ▶ Air-entangling
- ▶ Twisting
- ▶ Heatsetting
- ▶ Masterbatch

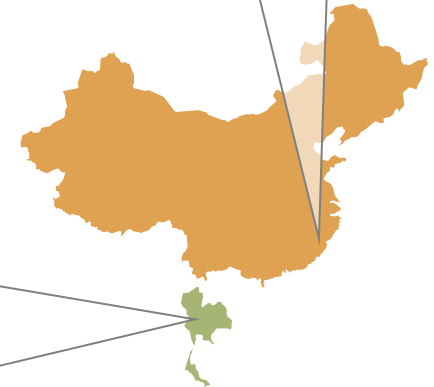


THAILAND

Rayong –
Bangkok

BCF

- ▶ Air-entangling
- ▶ Twisting
- ▶ Logistics



Aquafil group operation

Benzene
Cicloexanone

Caprolactam

Polymerization
Arco - Lubiana

Nylon 6
polymer

BCF

Master
Waste

EP

Waste
Master

NTF

Yarn for
Carpet
flooring

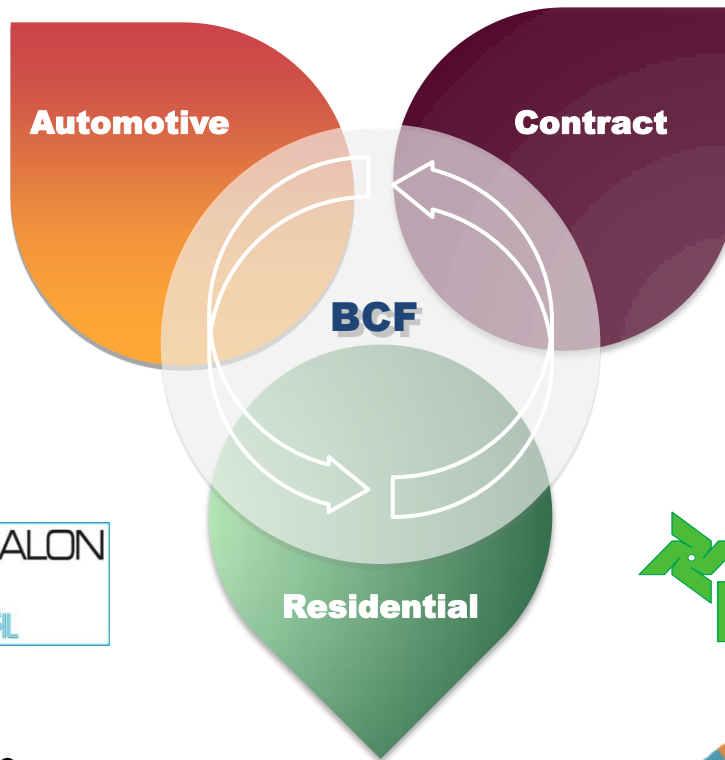
Techno-
polymers

Yarn for
clothing

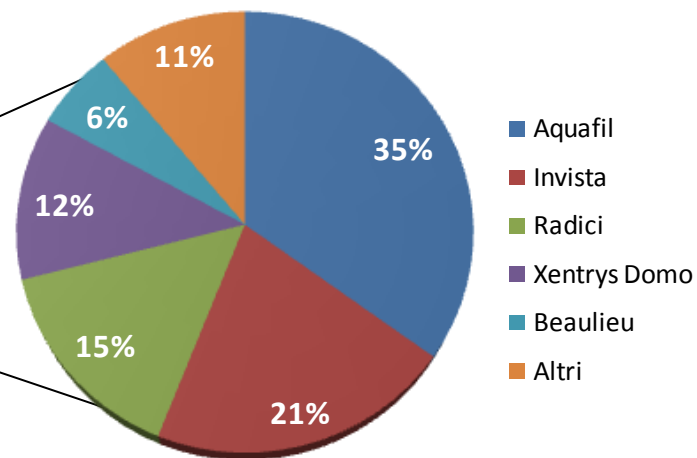
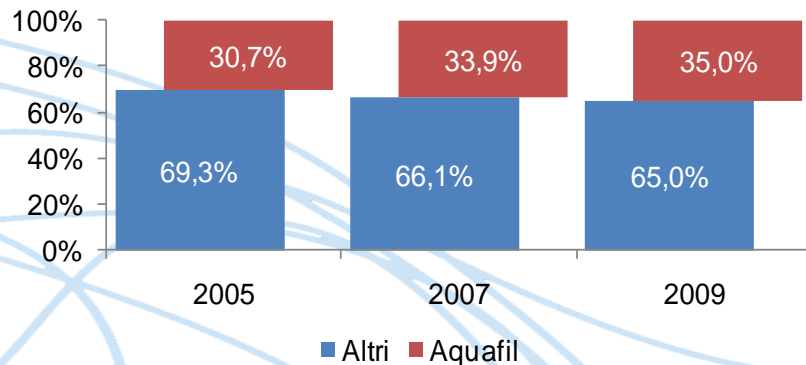
What drives Aquafil's sustainability vision?



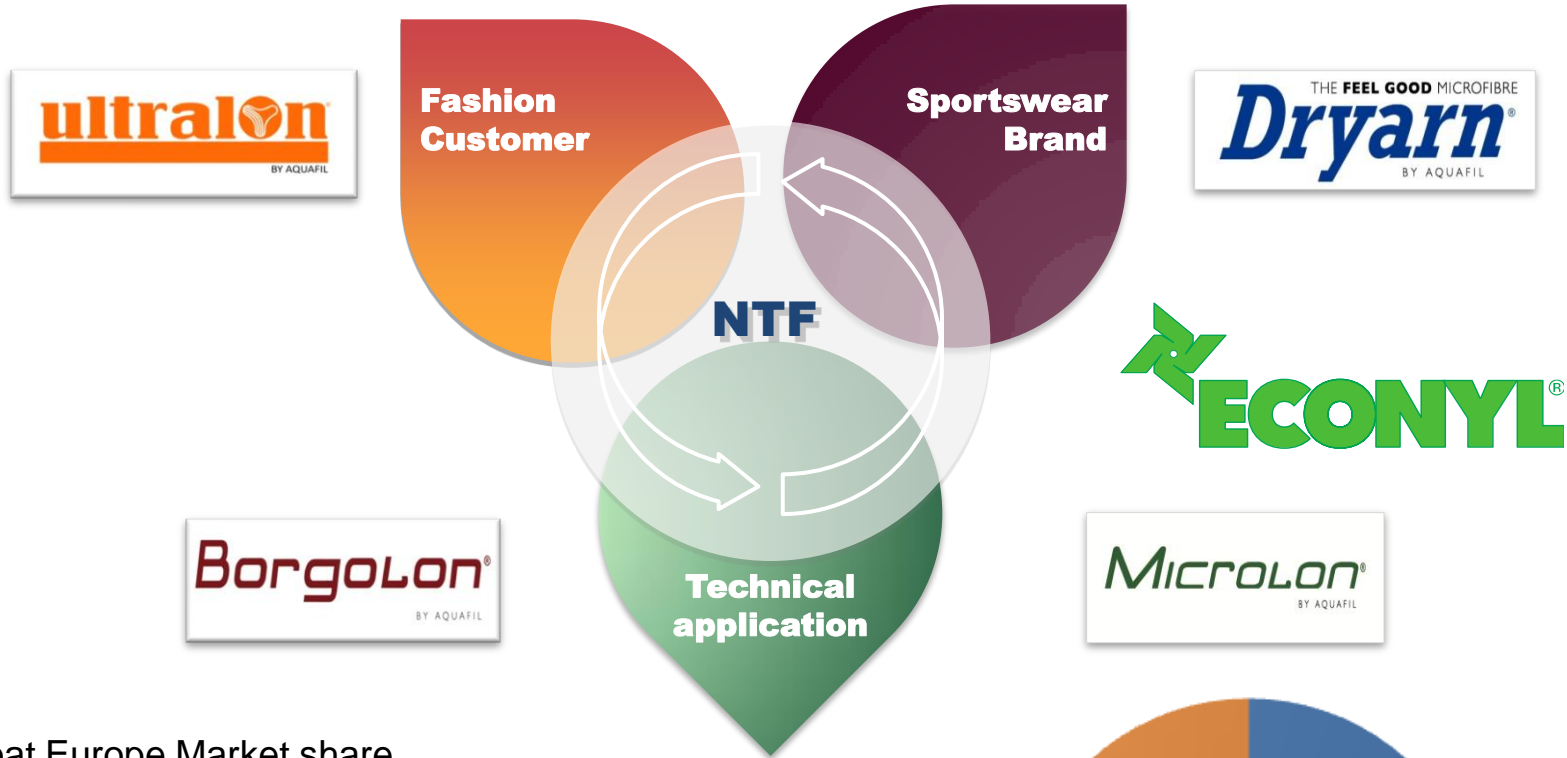
Bcf sector



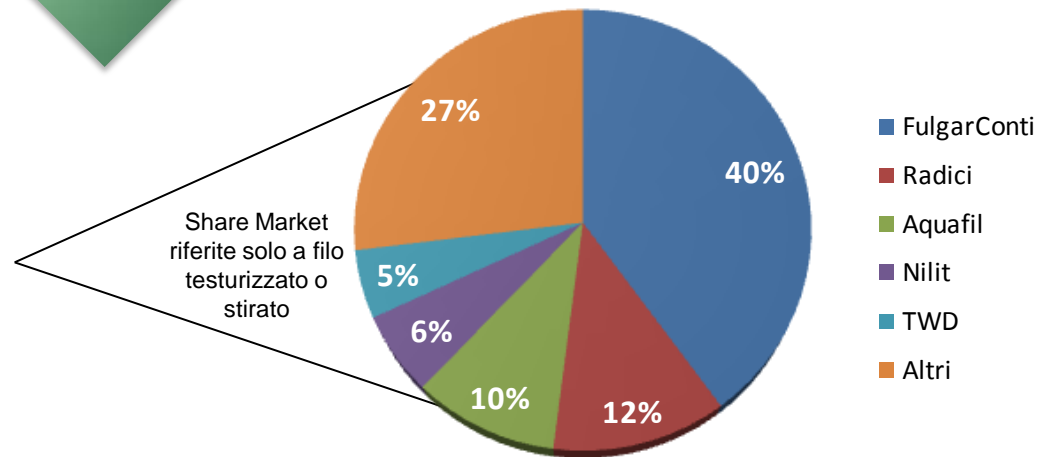
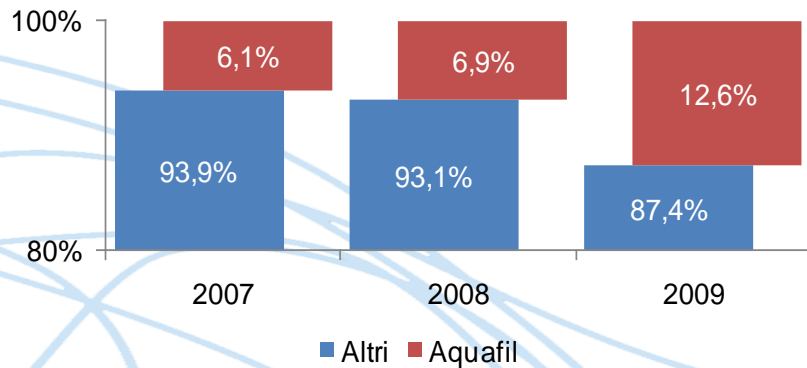
EU Market share



Nylon textile filament sector



Great Europe Market share



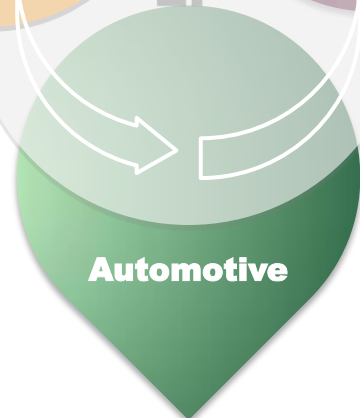
Engineering Plastics sector

AQUAMID



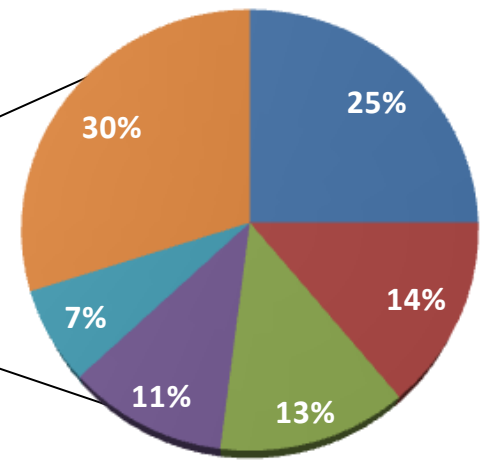
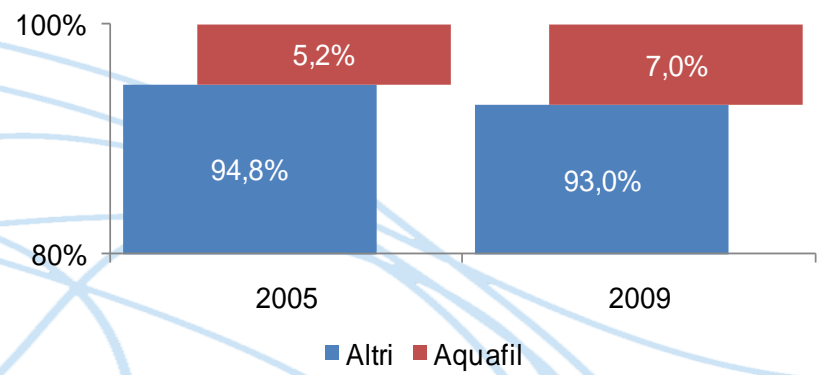
Aquarel
HIGH PERFORMANCE MASTERBATCH

RECONYL



poliform

Market share



- Basf
- Rhodia
- DuPont
- Radici
- Aquafil
- Altri

Energy & Recycling Bu



BU Bcf



BU Ntf



BU Ep



Mission

Energy

Recycle

Sustainability
Culture

Fashion & Sportswear Yarns

Manufacturing Sites

JULON d.d.
Letalska Cesta, 15 - Ljubljana
SLOVENIA

Nr. of Employees: aprox. 500 Ljubljana, 750 total

F&SY Manufacturing Capacity:
Polyamide 6 & Polyamide 66, Dryarn
POY & FDY SPINNING
20.000 t/year

Julon Ljubljana plant –
Other Manufacturing capacity:

Polyamide 6
POLYMERISATION
40.000 t/year

Polyamide 6 BCF
SPINNING
12.000 t/year

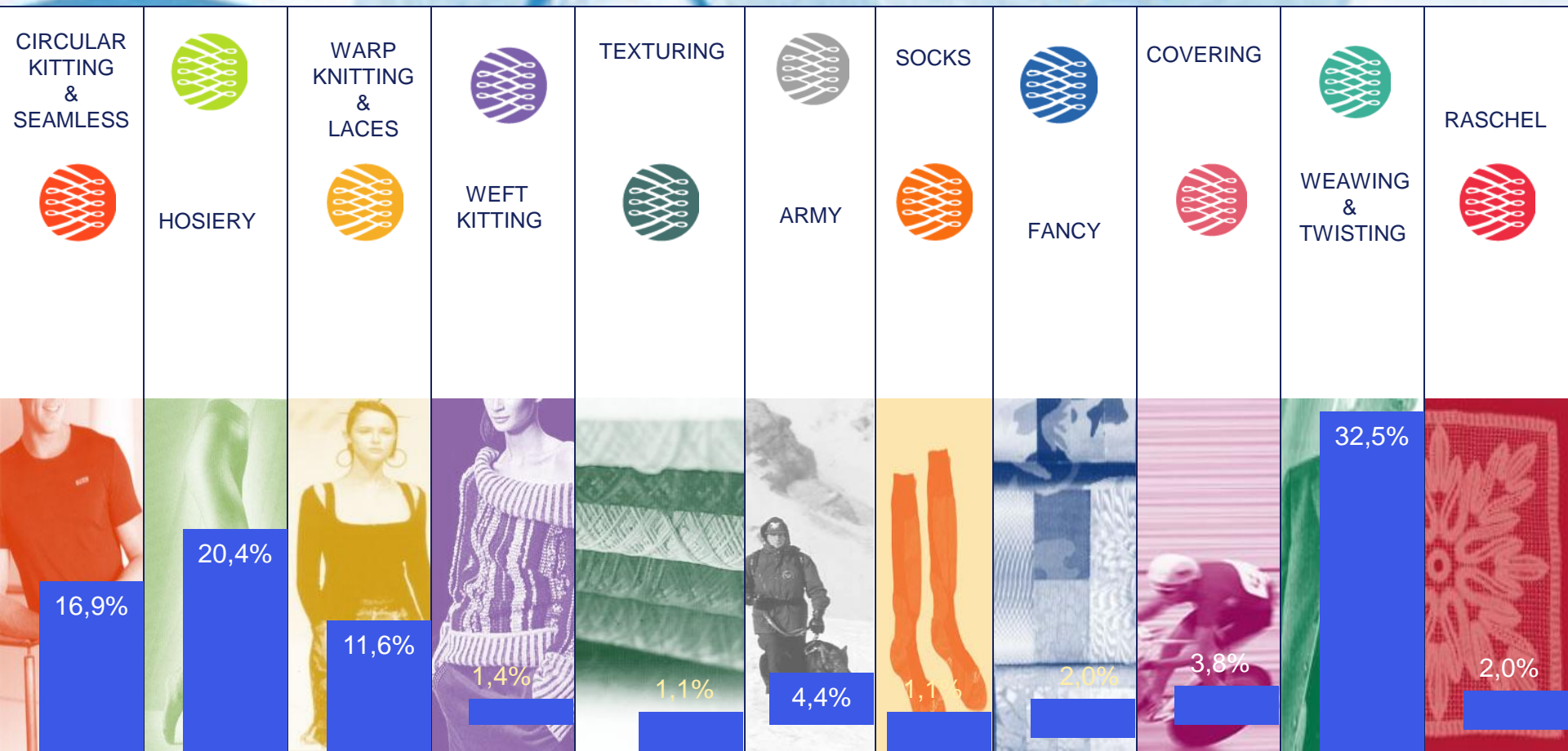
Polyamide 6 BCF
TWISTING & HEAT SETTING
6.000 t/year



Land Area: 64.000 m² – Covered Area 28.000 m²

Industries

A focused organization of specialists committed to one single end use

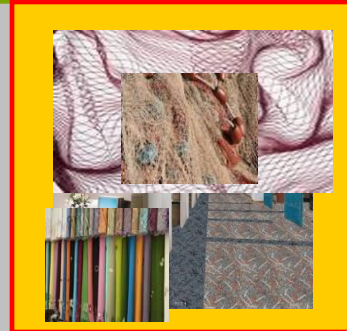


R&D

Year	type		Partners
2006 - 2007	Research and development	NIR 1	Slovenian Research Agency Ministry of Defence - Ciljni raziskovalni program CRP Znanje za varnost in mir 2006-2010 Univerza Maribor, Fakulteta za strojništvo, Oddelek za tekstilne materiale in Oblikovanje, Maribor - Slovenia
2007 - 2009	Research and development	NIR 2	Slovenian Research Agency Ministry of Defence - Ciljni raziskovalni program CRP Znanje za varnost in mir 2006-2010 Univerza Maribor, Fakulteta za strojništvo, Oddelek za tekstilne materiale in Oblikovanje, Maribor - Slovenia
2006-2007	Research & development, Investment	MTX	Ministry of the Economy - European Regional development Fund - Institut Jožef Stefan, Ljubljana - Slovenia
2010 - 2011	Investment	ECONYL	Ministry of the Economy - Republic of Slovenia Tourism and Internationalisation Directorate
2011 - 2014	Research and development	Nano TiO2	Slovenian Research Agency Univerza Maribor, Fakulteta za strojništvo, Oddelek za tekstilne materiale in Oblikovanje, Maribor - Slovenia
2012 - 2014	Research and development	Hydro PP	Ministry of High Education, Science and Technology - Republic of Slovenia MNT-ERA.NET - Transnational Call 2011 The National Centre for Research and Development - University of Bielsko - Poland



Closing loop-
ECONYL



End of life time
of Nylon
products



1. ECONYL IS INOVATIVE AND UNIQUE RECYCLING PA6 PROCESS
2. TOTAL INVESTMENT APROX. 17.000.000 EUR (3,6 MIL EUR SUBV.)
3. ALREADY PROUDLY IN OPERATION FROM BEG. 2011
4. ALREADY MADE **LCA** AND OBTAINED **EPD** FOR ECONYL ARTICLES CERTIFIED BY BVQI.

Environmental and energetic benefits of ECONYL

<i>Capacity of Econyl /year</i>	<i>Total ENVIRONMENTALbenefits</i>
<i>10.000 t</i>	<i>10.000 t crude oil</i>
<i>10.000 t</i>	<i>20.000 t CO₂</i>
<i>10.000 t</i>	<i>18.500 m³ gas</i>
<i>10.000 t</i>	<i>150.000 m³ water</i>