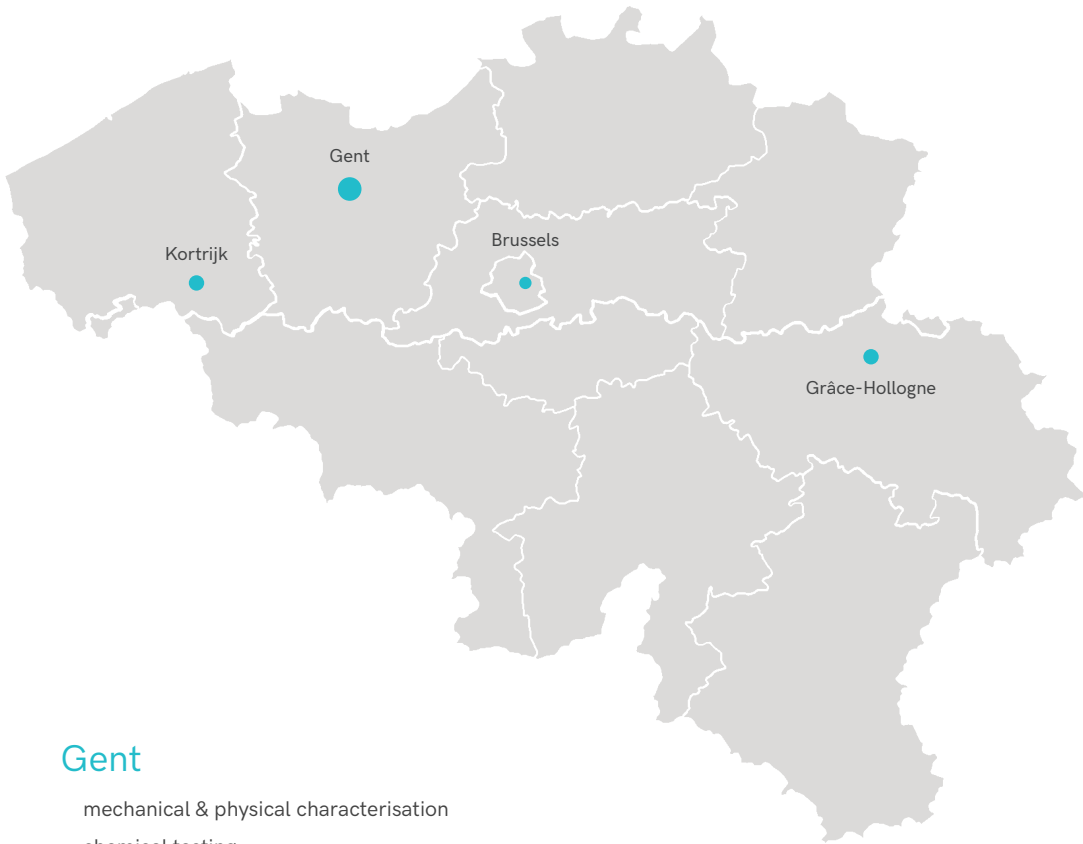




Textile
Competence Centre

LABORATORIES AND PLATFORMS



Gent

- mechanical & physical characterisation
- chemical testing
- burning behaviour lab
- textile coating & finishing platform

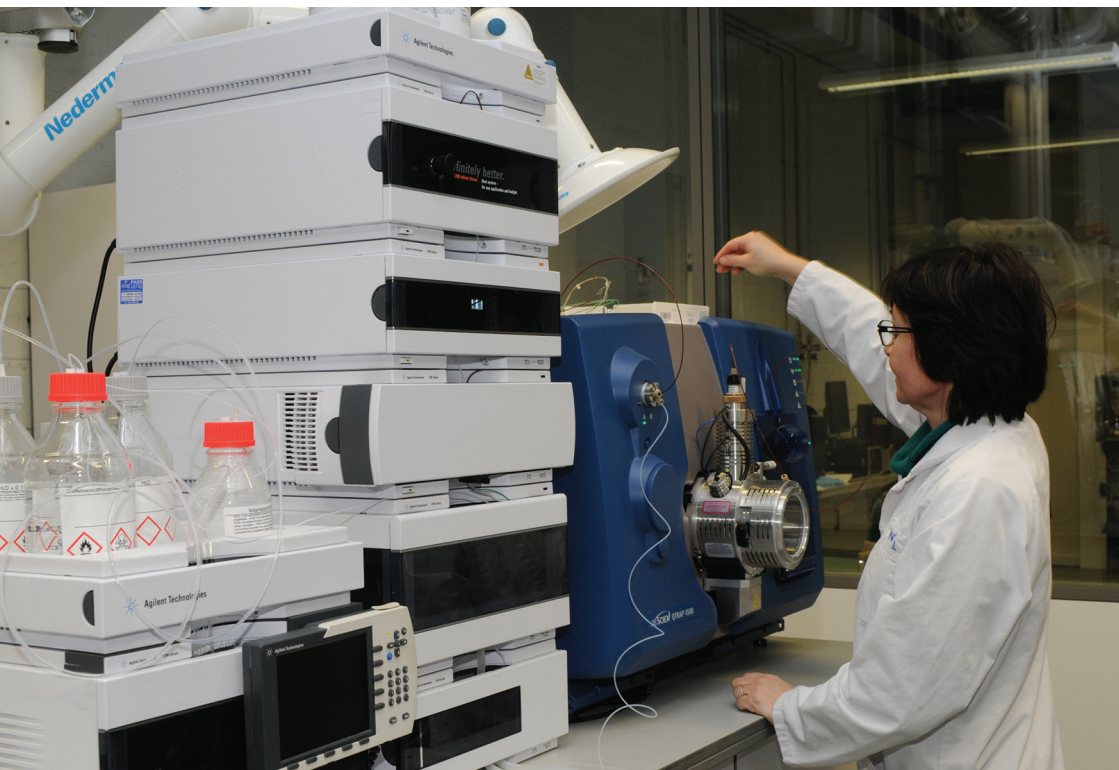
Grâce-Hollogne

- physical characterisation
- microbiological & cytotoxic assessments
- weaving, knitting, braiding & composites platform

Kortrijk

- plastic product testing and polymer characterisation
- extrusion platform
- composite & plastic processing platform
- additive manufacturing (3D-Printing)

TESTING



056-TEST
056-PROD

equipment

state-of-the-art lab equipment

ISO 17025 accredited labs, specialized in the evaluation of the mechanical, physical, chemical, microbiological properties and burning behaviour of textiles

expertise

optimisation of test methods
prestandard studies

TECHNOLOGY FIELDS

Functional Thermoplastic Textiles

- formulation of (bio)polymers, polymer blends and recyclates with functional additives
- compatibilisation recycled polymers and polymer blends
- further processing including fibre-reinforced composites and 3D printing (additive manufacturing)
- multiple thermoplastic textile developments for new markets

Textile Functionalisation & Surface Modification

- material development for optimised textile properties
- matching performance and legislative requirements
- optimising sustainable textile processing: UV-LED curing, hotmelt, plasma technology
- biobased additives
- creating energy harvesting and storing (bio)textiles
- exploring market opportunities

Medical & Sustainable Materials

- Advanced Textile Materials for Medical Applications

Technical Textiles & Composites

- High Performance Fibres and Structures

Plastics Characterisation, Processing & Recycling

- material characterisation: identification of properties and processability
- industrial valorisation of biopolymers
- eco-friendly functionalisation
- polymer recycling and compatibilisation

RESEARCH PROJECTS

collective research

projects financed by regional, federal & European authorities
R&D & pre-standard research projects and studies
steered by a consortium of industrial and scientific partners
research results : property of Centexbel but disseminated to the consortium partners/industry

private research

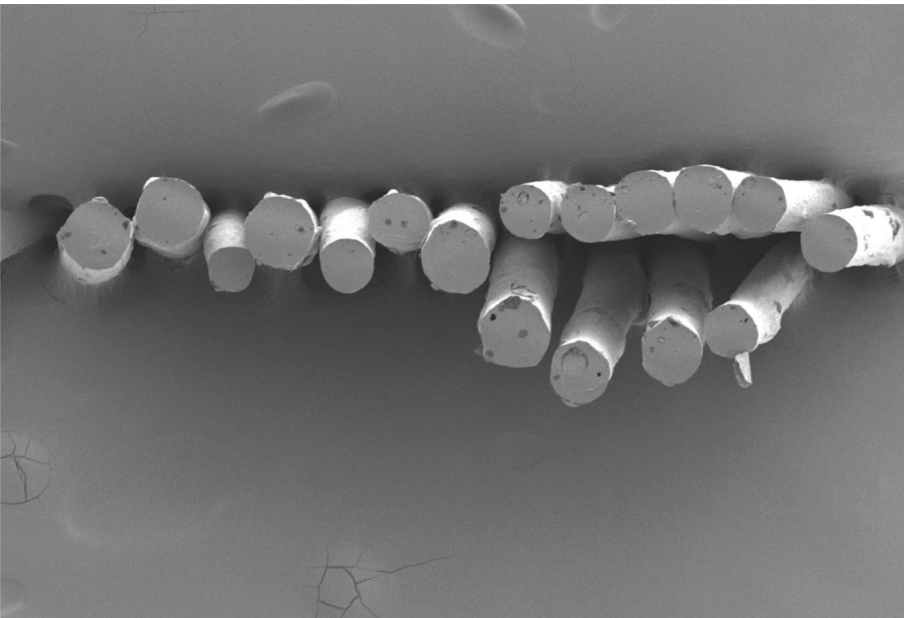
small, medium-sized and large private research projects
financed by regional, federal and European authorities or without funding
on demand of the company
research results : property of the company

close to industrial needs and opportunities

innovation in processes

innovation in products

sustainability





KNOWLEDGE TRANSFER

Technological consultancy

medical devices, health, non-wovens, coating & surfaces, technical textiles, yarn engineering, clothing textiles, floor and decorative wall coverings, sustainability

Innovation consultancy

factory of the future, new business models, smart materials, business systems

Training

seminars, workshops, international conferences, vocational training

Information hub

patents (IPR), product and test standards, legislation (product safety, REACH, environmental legislation, etc.), communication tools

PRODUCT & PROCESS CERTIFICATION

CE marking (notified body # 0493)

PPE

building products: floor & wall covering

marine equipment

UK Approved Body 8515

PPE

marine equipment

OEKO-TEX®

STANDARD 100	textiles without harmful substances
LEATHER STANDARD	leather products without harmful substances
STeP	Sustainable textile production
ECO Passport	sustainable textile chemicals
MADE IN GREEN	consumer products and semi-finished products made from materials tested for harmful substances and manufactured by using environmentally friendly processes and under safe and socially responsible working conditions.
DETOX to ZERO	elimination of hazardous substances

GUT

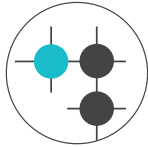
eco-friendly carpet production

QA-CER

certification system for recycled materials



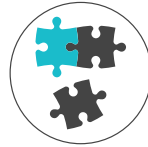
CREATE



CONNECT



INSPIRE



SOLVE

**C E N
T E X
B E L**



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