



HoGent

HoGent

SCIENCE
AND
TECHNOLOGY

**Department of Fashion, Textiles
& Wood Technology**

Content

- University College Ghent
- Faculty of Science & Technology
- FTI Lab

UNIVERSITY COLLEGE GHENT

3 FACULTIES | 1 SCHOOL OF ARTS | 24 DEPARTMENTS



14,000
STUDENTS

41 programmes
9 fields of study

1800
STAFF MEMBERS



1200
teaching

€ 100 MILLION
BUDGET



€ 7.5 million
research budget

€ 4.7 million applied research
€ 2.8 million research in the arts

124 RESEARCH PROJECTS

203 RESEARCHERS

48 postdoc | 38 doctorandi

♂ 45% ♀ 55%



70 HoGent financed

54 externally financed

9 EU financed | 4 international

Faculties

HoGent

**SCIENCE
AND
TECHNOLOGY**

HoGent

**EDUCATION
HEALTH
SOCIAL WORK**



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**BUSINESS AND
INFORMATION
MANAGEMENT**

HoGent

**SCHOOL
OF
ARTS**

HoGent

Faculty of Science and Technology

- 4 Campuses
 - Schoonmeersen
 - Melle
 - Research Farm Bottelaere
 - Research and training Center for Fashion & Textiles Buchtenstraat



FTI Lab

- Major player in the field of applied research in fashion & textiles
- Involved in different national and European funded projects as coordinator or partner
- Committed to co-creation with professional partners from industry
- Makerlab for (design) students

Domains of Expertise

Material
Technology

Fashion
Technology

Textile
Technology

Low Impact Technologies

- Digital Printing (pre-treatments, post-treatments, ink formulations)



- Plasma

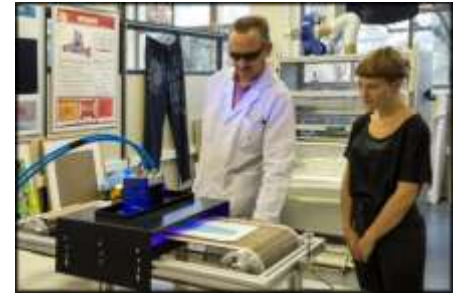
- Pretreatment: increasing wetting, surface tension, adhesion properties
- Nano-Coating
 - Anchoring of polymers
 - Introducing new functionalities



Low Impact Technologies

- (UV) Coating

- Development of UV-curable compounds
- 100 % systems
- Waterborne systems



- Laser

- Surface Engineering of Textiles – Polymers - Wood
- Smart modification of surfaces - Accessibility of liquids, solids



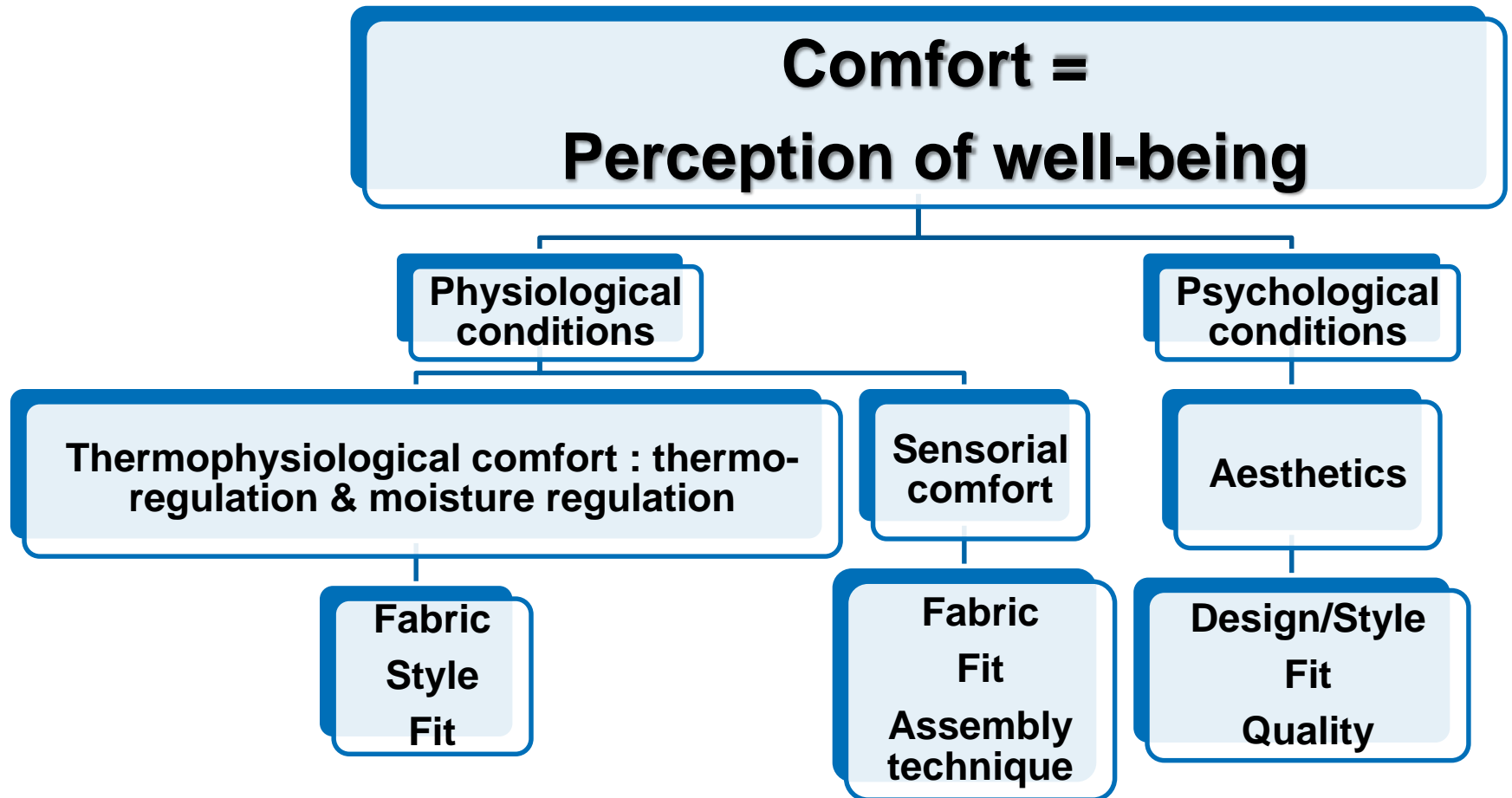
Biotechnology

- Enzymatic treatments on textiles
- Antimicrobial finishes & testing

Anthropometrics & 3D body scanning

- Size & Fit (Smartfit)
- Customized size tables
- Adapted fashion

Clothing Comfort



Materials

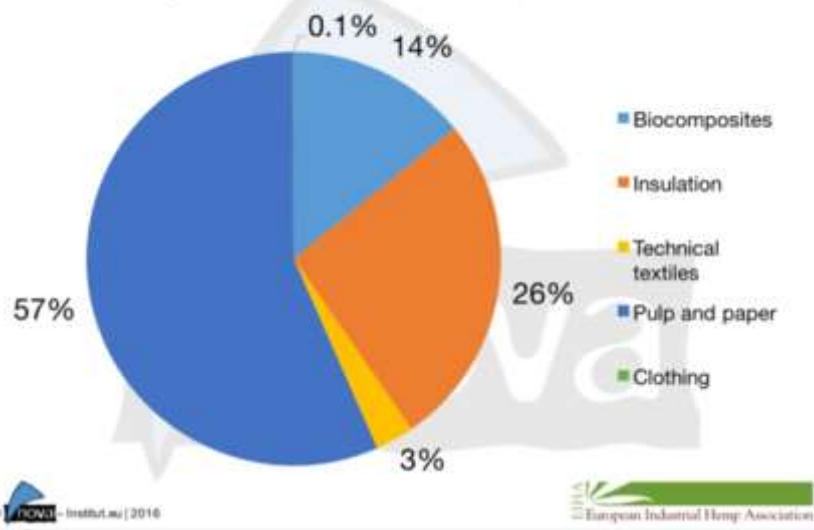
- Functional & Smart materials
- Design for recycling
- Design for circular economy

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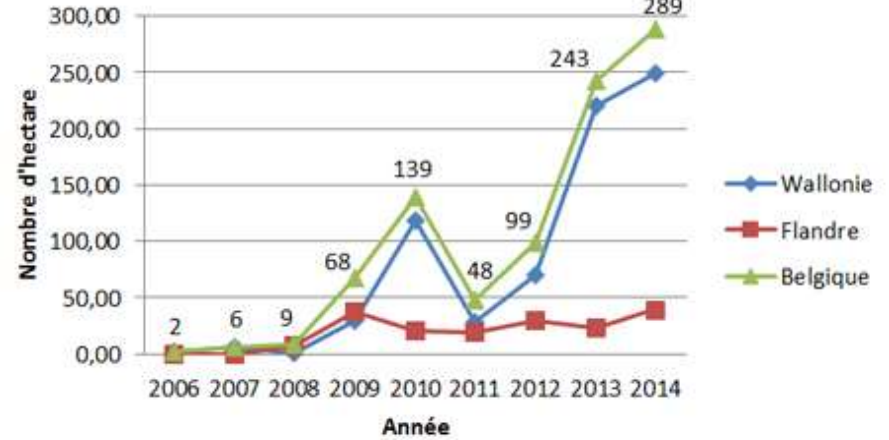


**EIGEN
KWEEK**

Hemp fibres 2013, total: 25,000 tonnes



Evolution des hectares de chanvre en Belgique



1. field trials

2. harvesting

- classical
- squeezing

3a. controlled dew-retting

3b. enzymatic process retting

4a. mechanical fibre extraction

4b. cottonisation

5. spinning

6. integration: quality monitoring and chain analysis

Textile Technology – Production

Spinning, Weaving, Knitting



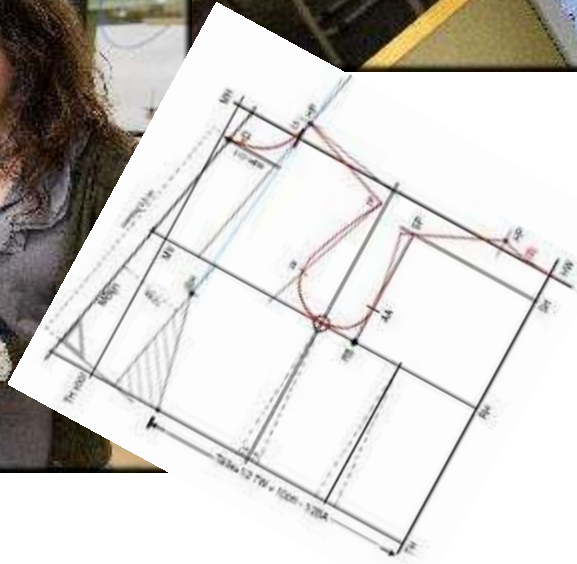
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Textile Technology - Finishing

Pretreatment, Dyeing, Printing, Finishing



Fashion Technology



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danke 謝謝

ngiyabonga
teşekkür ederim

спасибо

dank je

thank you gracias

tapadh leat

mochchakkeram

go raibh maith agat

bedankt

hvala
malunuru

dziękuje

sagolun

sukriya kop khun krap

grazie

arigato

lakk

dakujem

merci

obrigado

terima kasih

감사합니다

ευχαριστώ

merci