



THE SWEDISH SCHOOL  
OF TEXTILES  
UNIVERSITY OF BORÅS



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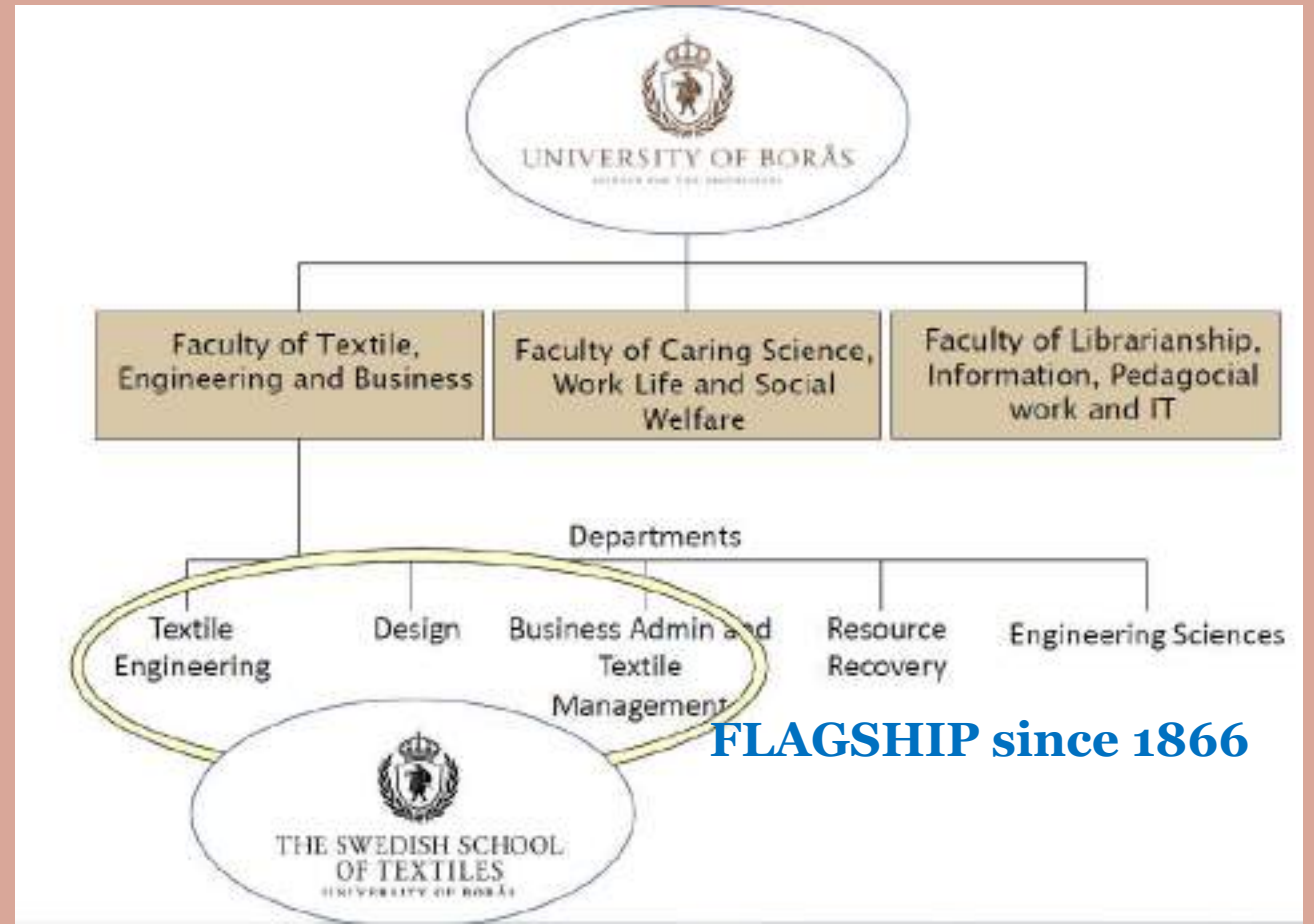
# Content

- ❑ General overview
- ❑ Labs facilities
- ❑ Innovation environment & platforms
- ❑ Business & Management research in Fashion-Tech
- ❑ Business & Management education in Fashion-Tech
- ❑ Business & Management students' projects in Fashion-Tech
- ❑ Future ambitions in Fashion-Tech Management



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Since 2013: Textile  
Fashion Center at  
Simonsland



**Videos:**

<https://www.youtube.com/watch?v=6Bht2m4-FoA>

<https://youtu.be/w3cxa4fVRc0>

**Web:** <https://www.hb.se/en/the-swedish-school-of-textiles/>



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# The Swedish School of Textiles: History



1866 (1877)



1936



1982 (1989)



2013





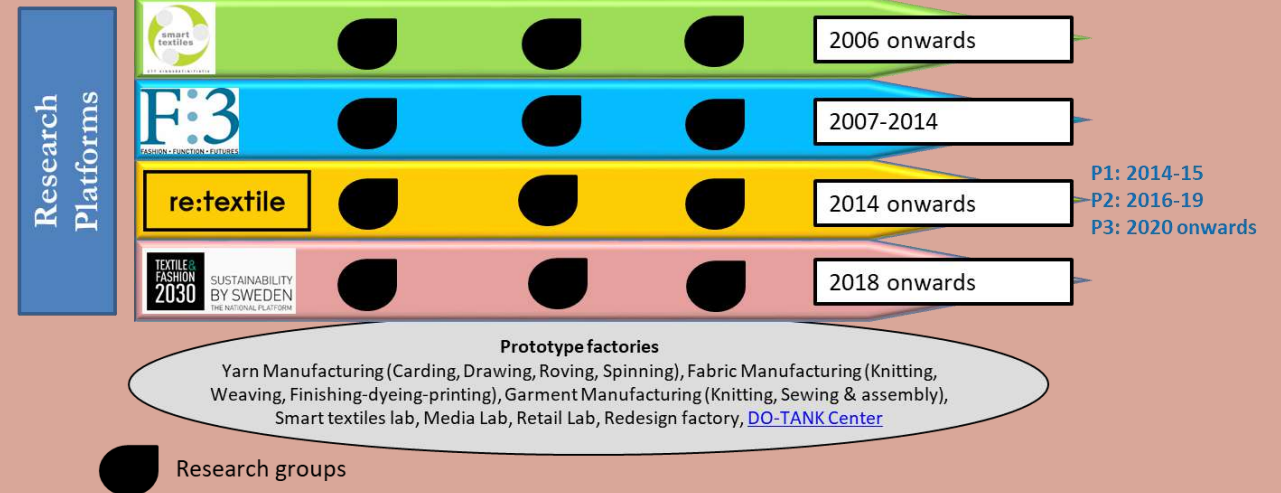
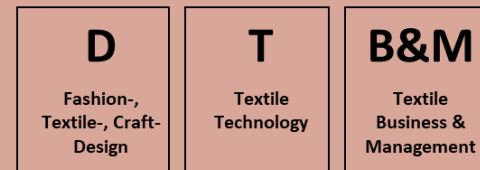
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SCIENCE  
PARK BORÅS  
FROM IDEA TO SUSTAINABLE IMPACT



# The Swedish School of Textiles: Stats and structure

- ❑ About 1500 students
- ❑ 700 programme students
- ❑ 7 undergraduate programs
- ❑ 6 master programs
- ❑ 3 Ph.D. programs Textile and Fashion – design, management and material technology
- ❑ Complete prototype factory laboratories and workshops for textile and fashion value chain







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# The Labs as prototype factories

- **Weaving lab**
- **Knitting lab**
- **Sewing lab**
- **Dyeing and Printing lab**
- **Finishing lab**
- **Digital media lab**

- At the Swedish School of Textiles creativity and theory are combined with practical work in our machine parks and laboratories.
- Our labs offer the unique state-of-art opportunity to work with the entire value chain.

Video: <https://youtu.be/osSyqngiA2w>



# Weaving technology lab



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In the weaving technology lab, there are several design and patterning options, such as mechanical and electronic jacquard and dobby. Here there is opportunity to weave with virtually all yarns on the market, from cotton to optical fibres.



- Weaving technology lab: [https://youtu.be/SrQL\\_XbtC2Y](https://youtu.be/SrQL_XbtC2Y)
- 360° view: <https://youtu.be/KXEIeGarX48>



# Knitwear lab



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In the knitwear lab, fabrics are made on circular knitting machines and in the tricot lab you can produce double jersey in large and small patterns, as well as rib, plush and single jersey material in varying sizes. Here you have the opportunity to work with stiff materials, such as metal. There are also hand knitting machines in flat knitting technology to test different constructions, make prototypes of jumpers, gloves, blood vessels and other three-dimensional shapes in both stiff and elastic yarns.

- **Knitwear lab:** <https://youtu.be/s7Wd3uXCT28>
- **360° view:** [https://youtu.be/30E\\_96uR3K4](https://youtu.be/30E_96uR3K4)



# Sewing lab



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In the sewing lab, there is a large variety of machines for seams and other joining techniques. The machines can join together materials such as knitwear, woven, leather, fur and make seams waterproof. This miniature-size sewing factory has all the basic sewing machines and a large number of special machines such as shim presses, ultrasonic welding, tape machines and postbeds for leather.

- **Sewing lab:** <https://youtu.be/RPJe7HUMTMQ>
- **360° view:** <https://youtu.be/rG1dYQrHaBk>





# Dyeing, printing & finishing labs



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The lab for colour and print offers endless possibilities to create your own expression. Here is a large range of equipment to be able to work with many different techniques. Instruments and machines include dyeing machines, digital printing machine, printer for sublimation printing etc.



- **Dyeing and Printing lab:** <https://youtu.be/o91qsjFNkps>
- **360° view:** <https://youtu.be/0BV3iuj56x0>
- **Finishing lab:** <https://youtu.be/julmqxaRShs>
- **360° view:** <https://youtu.be/Axi4Z-OSrxw>





# Digital Media lab



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The Media Lab focuses mainly on the process of moving from a digital image (graphic design) to its application on materials via laser cutting or digital sublimation printing. Projects include engraving patterns and motifs to cutting out custom-designed pattern parts, appliqués, or other types of decoration, or cut out standardised samples. Digital printing.

The laser cutter also creates opportunities for prototype production in various research projects.

- **Digital Media lab:** <https://www.hb.se/en/the-swedish-school-of-textiles/about-the-swedish-school-of-textiles/the-labs/teko-media-lab/>



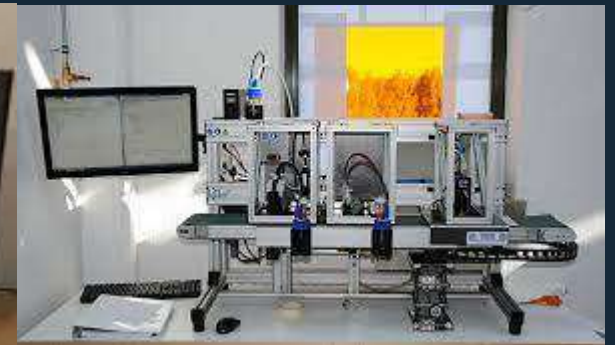
# Research labs



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The focus of the research labs is to develop materials of the future in functional and smart textiles, as well as innovative and resource-efficient production processes. Important research areas include development of new textile materials, such as textile sensors, functionalization of textile surfaces through inkjet, valve jet and 3D printing, development of polymeric e-textiles using textile actuators, fibre electronics, ionotronics, microfluidics, 3D body scanning and fitting.

- **Research labs:** <https://youtu.be/W2aKuYt-D-A>





SMART TEXTILES  
SHOW ROOM



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# Textile and Fashion Science Park and its 3 unique platforms





# Science Park



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Science Park located at Textile Fashion Centre, Borås



**3 main environments**



Do Tank Center



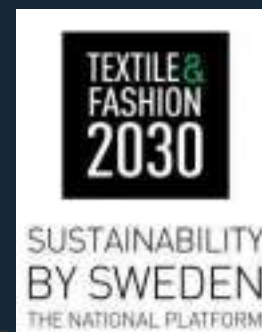
Smart Textiles Showroom



Exposé Exhibition



**3 main platforms**



Science Park Borås – a unique environment within University of Borås – enables innovations, research and prototype development, and creates opportunities for commercialization of products and services with textile and fashion through synergies between higher education, business and the municipality. It offers an innovation ecosystem through several platforms and establishments.

- **Web:** <https://scienceparkboras.se/>

# Textile&Fashion 2030

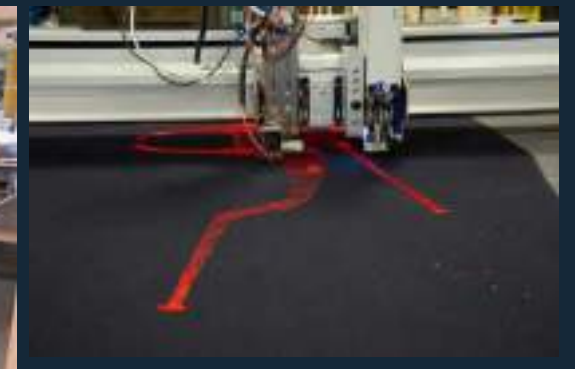


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The Swedish government mandated National platform for Sustainable Fashion and Textiles, delegated to University of Borås. Its aims are:

- ❑ To promote collaboration, cooperation, and efforts towards an environmentally sustainable value chain in the textile sector.
- ❑ To make research and development results available for environmentally sustainable development and provide a bridge between research and practice.
- ❑ To promote sustainable business models and combine environmental benefits with business benefits.
- ❑ To strengthen the work of SMEs to achieve circular flow and environmentally sustainable development.
- ❑ To minimize negative environmental effects from production.

- **Web:** <https://textileandfashion2030.se/en/what-is-textile-fashion-2030/>
- **Digital Exposé:** <https://digitalexpose.se/>





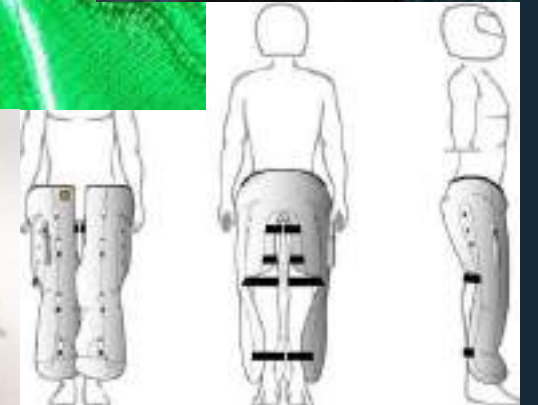
# Smart Textiles



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Smart Textiles is an innovation environment bringing together the research and business communities, institutions and the public sector to find the solutions of the future. As the Smart Textiles Initiative offers a complete solution including everything from basic research to prototype development, it is the natural partner for realizing textile ideas or meeting a need with textile technology.

- **Web:** <https://smarttextiles.se/en/>
- **Smart Textile Showroom:** <https://youtu.be/ZZANhNz-eoY>





# Circular Hub



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Circular Hub is an innovation platform that highlight projects and research environments linked to circular business models, circular products and increased knowledge about circular economy.

**CIRCULARHUB**



- **Web:** <https://circularhub.se/>





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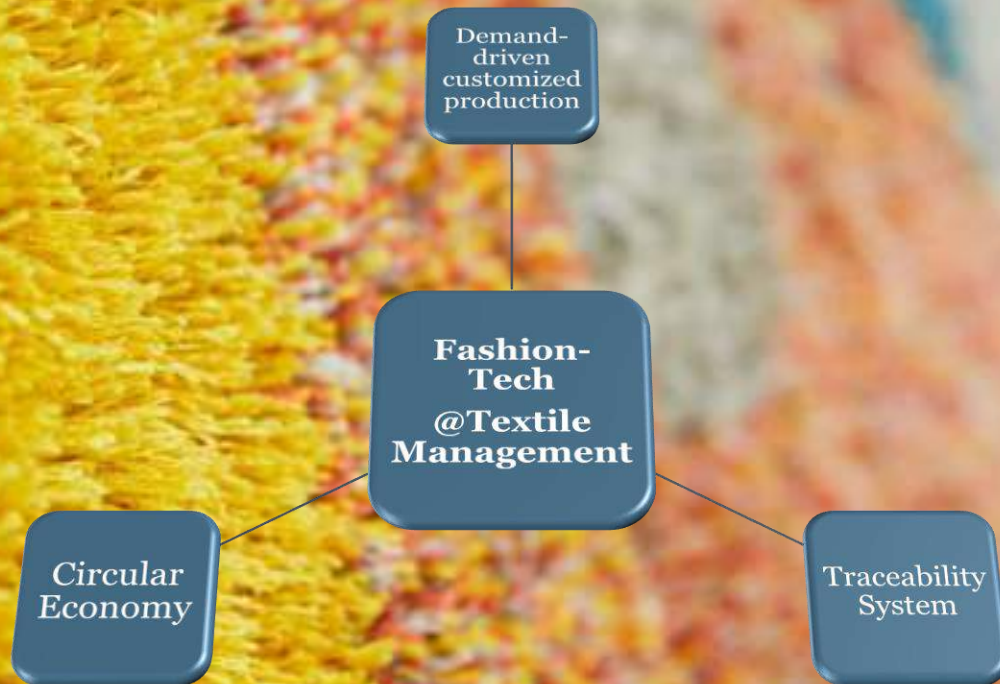
# Department of Textile Management: Profile of Fashion-Tech research projects





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Fashion-Tech research in the area of Textile Management spans across various projects where business, management, and industrial & textile engineering disciplines form the multidisciplinary foundation for advancing digital innovations in the field of textiles and fashion, by particularly focusing on solving societal challenges related to sustainability.



# FBD\_BModel

Duration: 2017-2021

FBD\_BModel is a collaborative project funded by the **European Union** under the Horizon 2020 Programme which aims to develop a **digital platform** for delivering **small series of innovative functional garments** through a **European Union-based textile supply chain model**, meeting consumers' personalized requirements in terms of fashion and functional performances.



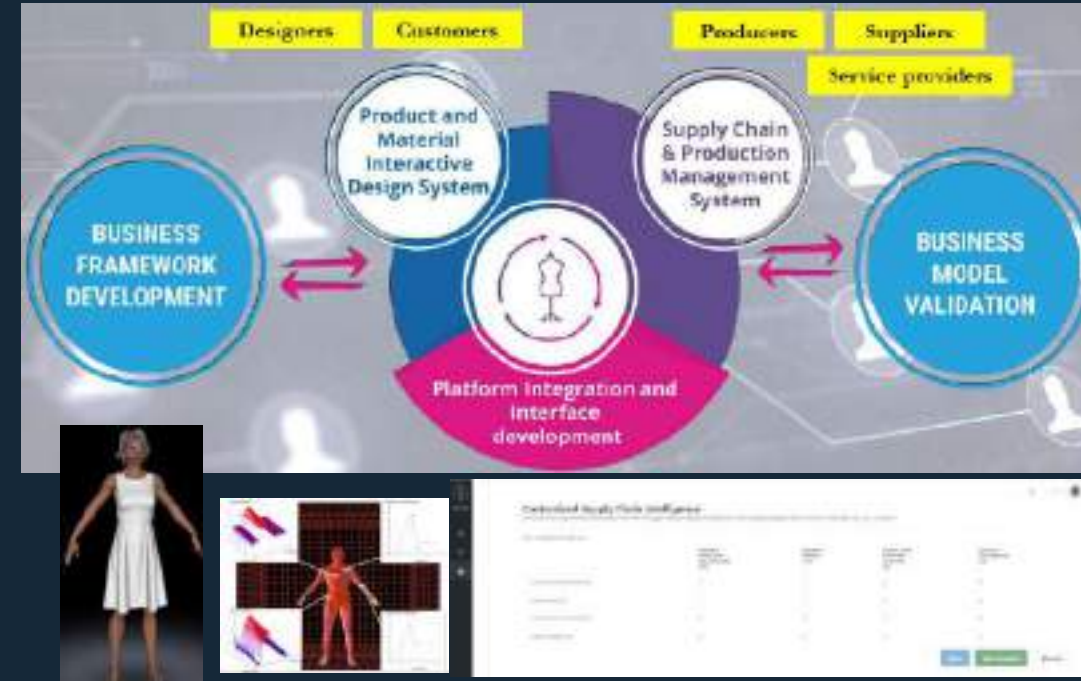
**Project video:** <https://youtu.be/EMJmm2akbB4>

**Project website:** <https://www.fbd-bmodel.eu/>



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Demand-driven  
customized  
production



## Partners:

- |                            |                     |              |
|----------------------------|---------------------|--------------|
| + ENSAIT                   | + Grado Zero Espace | + Bivolino   |
| + University of Manchester | + BeWarrant         | + Beste      |
| + University of Borås      | + Desap             | + Azadora    |
| + DITF Denkendorf          | + Fitizzy           | + Kuvera Spa |

**Project leader from HB**  
Prof. R. Pal  
**HB Team**  
Dr. V. Kumar; S. Harper



# FromRolltoBag

Duration: 2015-2016

**FromRolltoBag** is a collaborative project funded by the **European Union** under the Horizon 2020 Programme which aims to connect **virtual design and sales technology** to **digital manufacturing**; establish **consumer driven local production**; enable **production and delivery of customized orders** rapidly; and accelerate the **growth of European creative industries**.



**Project video:** <https://youtu.be/onyZp5foTDg>

**Project website:** <http://fromrolltobag.eu/>



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Demand-  
driven  
customized  
production

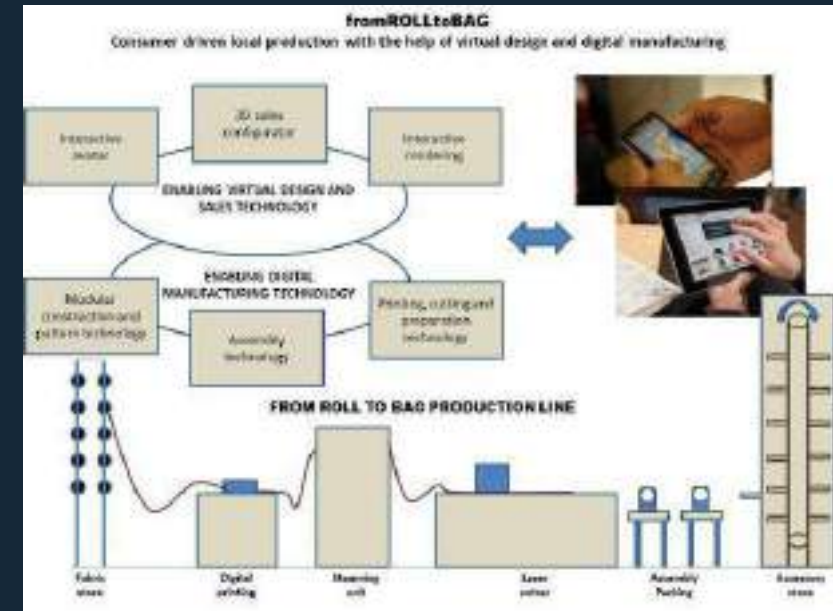
**Project leader from HB**

Prof. R. Pal

**HB Team**

Dr. J. Larsson; Dr. N. Hernandez;

Dr. R. Lindqvist; M. Johansson



## Partners:

- + Tampere University of Technology
- + University of Borås
- + MIRALab
- + Amer Sports
- + Lectra
- + Cyber Lightning
- + Bivolino
- + Alu Group
- + Print Scorpio

# DIGIMode

Duration: 2017-2018

**DIGIMode** is a collaborative project funded by the **Swedish Innovation Agency (Vinnova)** under the Fashion-tech Programme which aims to develop a **demonstrator for virtual design and sales with digitally enabled local production** of apparel products that will enhance agility in the customer relation. The demonstrator consists of these 2 parts being connected by a cloud-based system.



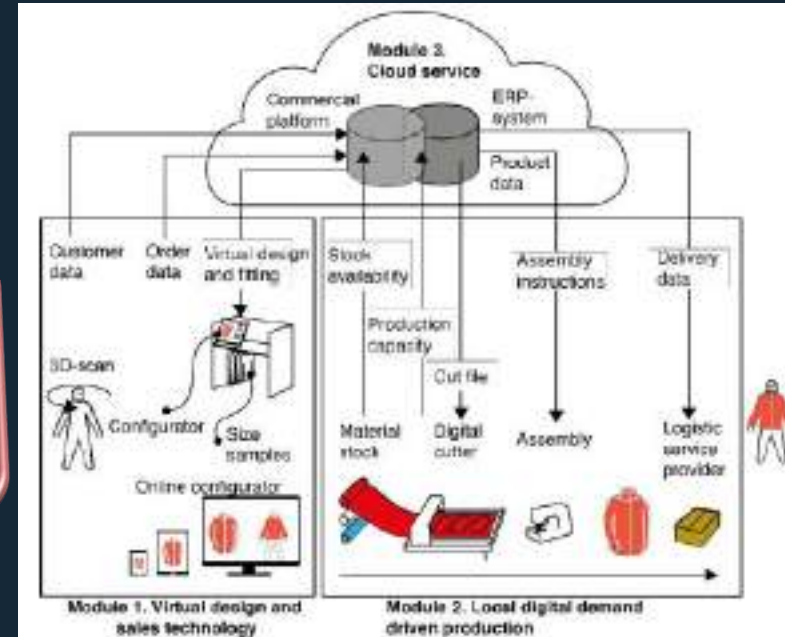
**Project video:** <https://youtu.be/r5DyckgU2jk>

**Project website:**  
<https://www.hb.se/en/Research/Research-Portal/Projects/Digimode/>



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Demand-  
driven  
customized  
production



## Partners:

- + University of Borås
- + Houdini Sportswear
- + FOV Fabrics
- + Berge Consulting
- + Teko Solutions
- + Marketplace Borås
- + TEKO
- + Syverket Borås



# Best-Before

Duration: 2019-2021

**Best-Before** is a collaborative project funded by the **Swedish Innovation Agency (Vinnova)** which aims to develop an **AI-based methodology** for **predictive analysis** based on the degradation pattern for different **durability properties over time**. This will put the optimum best-before date for **sustainable longevity** in the clothing industry.

**Best-Before**

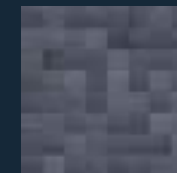
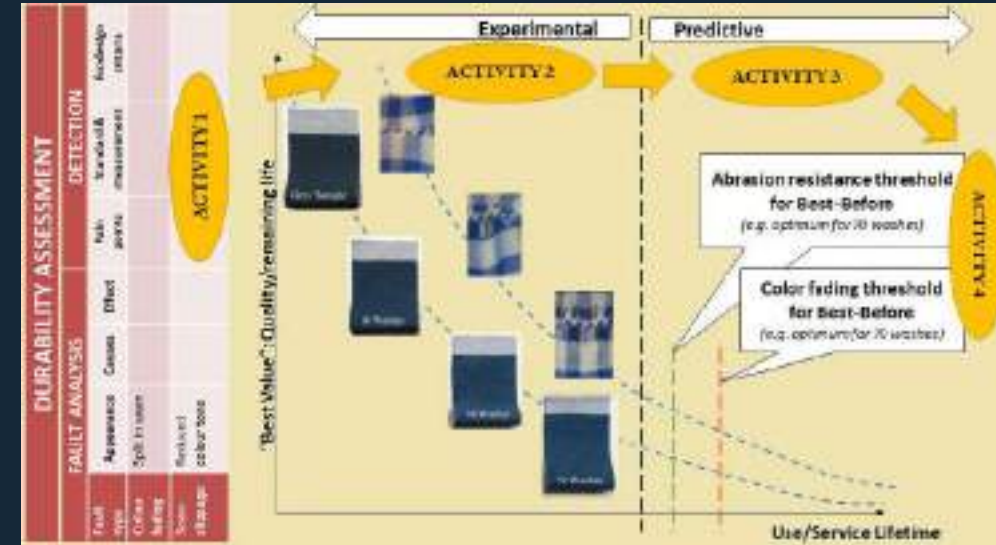
Project website: <https://www.hb.se/en/Research/Research-Portal/Projects/BEST-BEFORE-Optimizing-clothing-service-life-through-predictive-analytics-for-sustainable-longevity/>



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**Circular  
Economy**

**Project leader from HB**  
Prof. R. Pal  
**HB Team**  
Dr. V. Kumar; Dr. N. Hernandez;  
M.B. Jensen



## Partners:

- + University of Borås
- + Fjällräven
- + Berge Consulting
- + Swedish Standards Institute

# HUGO

Duration: 2018-2020

**HUGO** is a collaborative project funded by the **Swedish Innovation Agency (Vinnova)** which aims to adapt the autonomous electric vehicle for circular flows of apparel and fashion products through peer to peer garment sharing and rental services for apparel and fashion products. The system specifically focus on reducing environmental, economical and social costs associated with last mile delivery of fashion and apparel products.



Project video: <https://youtu.be/4lyn2OX5qjA>

Project website: <https://hugodelivery.com/robot-modularity/>



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Circular  
Economy



## Partners:

- + University of Borås
- + Berge Consulting AB
- + Ericsson
- + Hugo Delivery AB
- + Something Borrowed AB



# Trustrace

Duration: 2018-2020

**Trustrace** is a collaborative project funded by the **Swedish Innovation Agency (Vinnova)** under the Fashion-tech Programme which develops a digital platform that combines Blockchain based product traceability solutions with circularity modules. The project demonstrates that by leveraging latest blockchain, AI/ML, cryptotagging technologies, we can transform the fashion industry to be more circular, by increasing cooperating among stakeholders in fashion.



Project video: <https://youtu.be/EMJmm2akbB4>

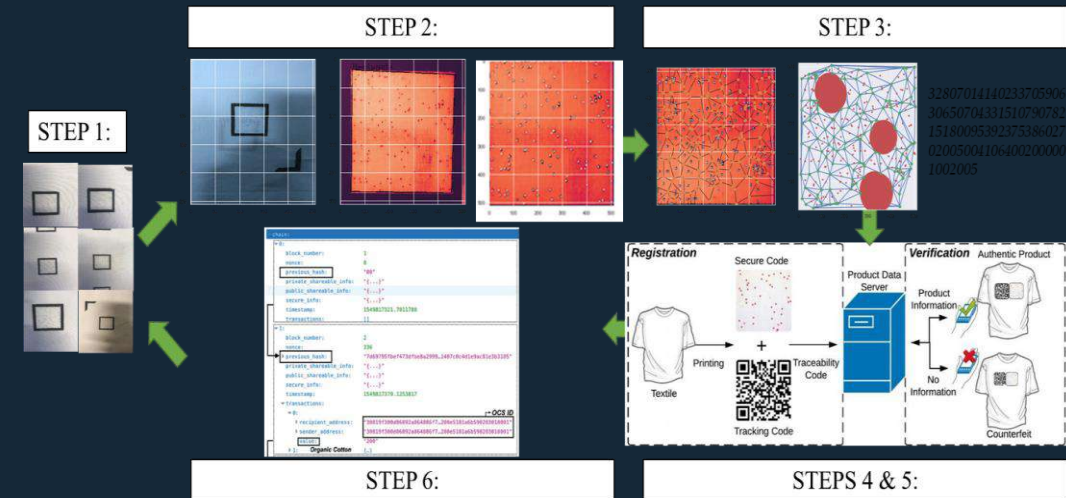
Project website: <https://www.fbd-bmodel.eu/>



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Project leader from HB  
Prof. R. Pal  
HB Team  
V. Kumar; T.K. Agrawal

## Traceability System



## Partners:

- + Swin Technologies
- + Rudholm Group
- + University of Borås
- + Mini Rodini
- + Houdini Sportswear
- + Fillipa K

# E4FT

Duration: 2017-2020

**Education4fashion-Tech** is a collaborative project funded by the European Union's **Erasmus+ program** with the aim of bridging the fashion field with that of innovative technologies by creating new training pathway to improve the level of key competencies and skills of students and trainers and to break down barriers between technologists and creative communities and build meaningful collaboration.



Project website: <https://www.e4ft.eu/>



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Project leader from HB  
Dr. J. Larsson  
HB Team  
Prof. D. Ekwall; A. Vellesalu



## Partners:

- + University of Borås
- + Politecnico di Milano, Dipartimento di Design
- + University of the Arts, London College of Fashion





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# Department of Textile Management: Profile of Fashion-Tech in programs and courses



# Master Programs in Textile Management



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## Master Programme in Textile Value Chain Management

120 CREDITS, FULL-TIME 100%, BORÅS



## Master Programme in Fashion Marketing and Management

120 CREDITS, FULL-TIME 100%, BORÅS



## Master Programme (One Year) in Textile Management

80 CREDITS, FULL-TIME 100%, BORÅS

Findings from Fashion-Tech research projects are brought into the educational curriculum of Master programs in Textile Management in the form of courses and modules that stress the importance of application of digital technologies to drive innovation in textile value chains and business models for addressing various sustainability challenges.

### EXAMPLES OF COURSES COVERING FASHION TECH INSIGHTS:

- Traceability in Textile Value Chains
- Textile Applications of Logistics and Product Development
- Demand Forecasting



# Bachelor Program in Textile Management

(with specialisation in Fashion and Retail)



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BSC program in Textile Management (180hp) aims to develop students knowledge in retail management covering both digital and physical perspectives and tools. It serves as a foundation for master education in textile management at the Swedish School of Textiles.

#### **EXAMPLES OF COURSES COVERING FASHION TECH INSIGHTS:**

- The digital transformation of retail**
- Fashion stores in the future**
- ERP systems and consumer relationship management**



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# Profile of Fashion-Tech PhD. students' projects from Textile Management







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**2018:**  
Does it really fit?: improve, find and evaluate  
garment fit

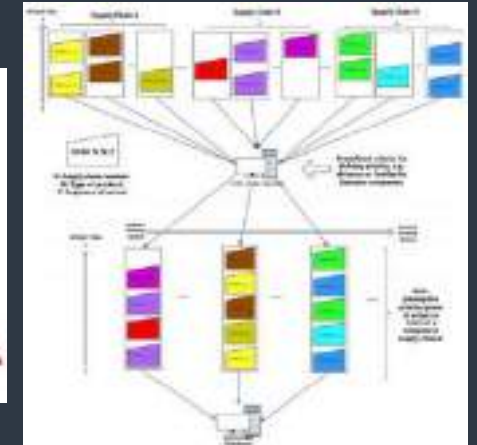


- + Garment fit
- + Pattern construction and modifications
- + Made-to-measure and custom-made
- + Garment simulation

**Link:** <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-14321>

**Author:**  
N. Hernández  
**Supervisor:**  
Prof. H. Mattila

**2018:**  
Inter-Organizational Collaboration for  
Optimizing Textile Supply Chains



- + Mass customization
- + Resource sharing
- + Multi-agent simulation
- + Optimization heuristics

**Link:** <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-14269>

**Author:**  
K. Ma  
**Supervisor from HB:**  
Dr. E. Gustavsson; Prof. R. Pal

Demand-  
driven  
customized  
production



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**2020:**  
Big Data Management Using Artificial  
Intelligence in the Apparel Supply Chain:  
Opportunities and Challenges



Demand-  
driven  
customized  
production

- + Big data management
- + Artificial intelligence
- + Personalized offerings
- + Data-driven strategies

**Link:** <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-23771>

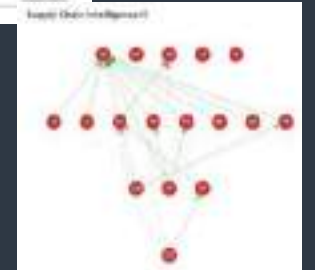
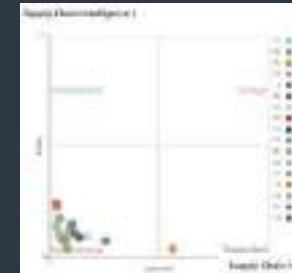
**Author:**

S. Jain

**Supervisor from HB:**

Dr. M. Sundström; Dr. J. Petersson

**2020:**  
Supply network configuration for small series,  
high-cost production: Exploring the European  
textile and apparel industry context



Select threshold:

1  
2  
3  
Data driven

- + Small series production
- + High-cost contexts
- + Supply network configuration

**Link:** <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-23206>

**Author:**

S. Harper

**Supervisor:**

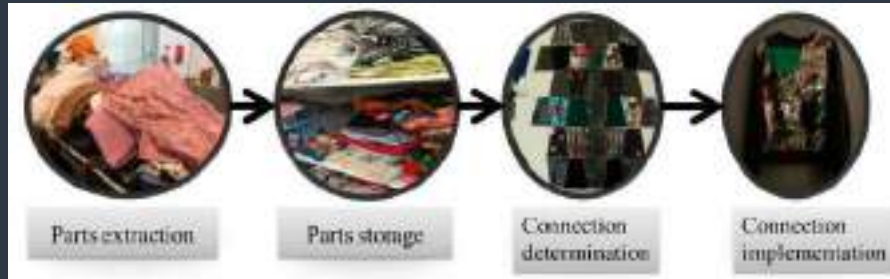
Prof. R. Pal; Dr. V. Kumar





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**2018:**  
Reuse-based Reverse Value Chain for  
Sustainable Apparel Industry



- + Reverse value chain
- + Reuse
- + Value creation
- + Second hand clothing

Link: <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-15088>

**Author:**

M. K. Paras

**Supervisor:**

Prof. D. Ekwall; Prof. R. Pal

**2013:**  
On Aligning Returns Management with the E-commerce Strategy to Increase Effectiveness



**Circular Economy**

- + Returns management
- + Gatekeeping and avoidance
- + Reverse logistics
- + E-commerce

Link: <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-3648>

**Author:**

K. Hjort

**Supervisor from HB:**

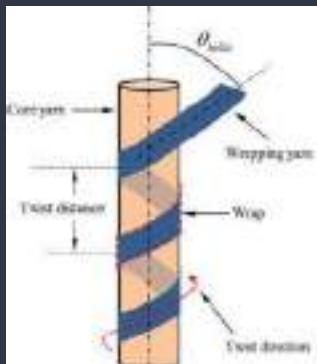
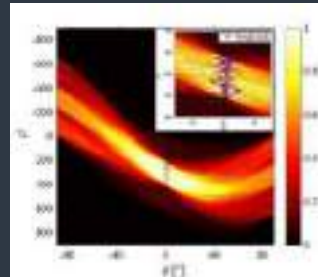
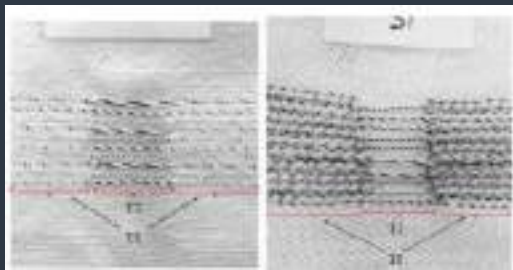
Prof. H. Torstensson



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**2017:**

Exploring fully integrated textile tags and information systems for implementing traceability in textile supply chains

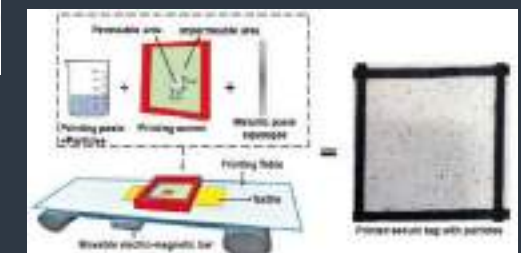
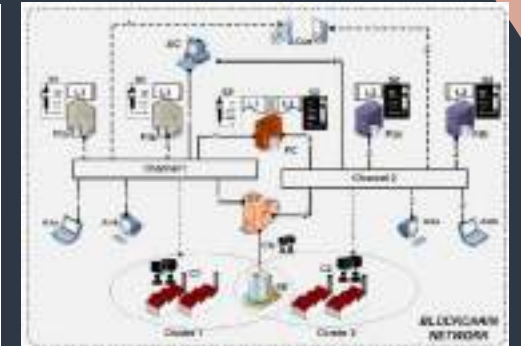
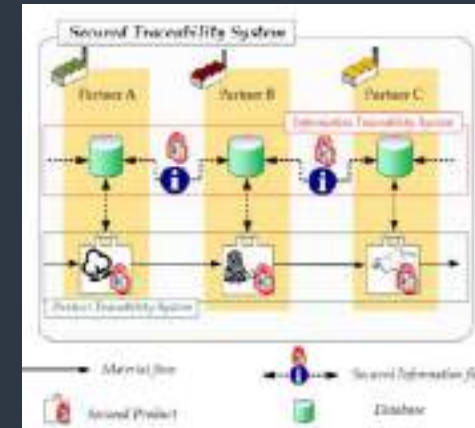


Link: <http://urn.kb.se/resolve?urn=urn:nbn:se:hb:diva-12151>

**Author:**  
V. Kumar  
**Supervisor from HB:**  
Prof. D. Ekwall

**2019:**

Contribution to development of a secured traceability system for textile and clothing supply chain



Link: <http://urn.kb.se/resolve?urn=urn:nbn:se:hb:diva-15957>

**Author:**  
T.K. Agrawal  
**Supervisor from HB:**  
Prof. R. Pal

Traceability  
System





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# A selection of Fashion-Tech MSc. students' projects from Textile Management



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## 2018: Driving fashion with data



Demand-  
driven  
customized  
production

- + Digitization
- + Supply chain configuration
- + Cloud chain

Link: <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-15745>

Author(s):

J. Åkers

Supervisor:

Prof. R. Pal

## 2017: Customer service experience



- + Service Experience
- + Personalisation
- + Service Value Web

Link: <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-12725>

Author(s):

M. Granic, C. Huss

Supervisor:

Dr. J. Larsson





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## 2018: From product to service



- + Product Extension Service
- + Mass customisation
- + Direct to Garment Printing

**Link:** <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-15308>

**Author(s):**

S-M. Ertelt, E. Guzun, M. Scott

**Supervisor:**

Dr. J. Larsson

## 2019: Best Before



- + Service Life Analysis
- + Use Optimisation
- + Fabric Degradation

**Link:** <http://urn.kb.se/resolve?urn=urn%3Anbn%3Ase%3Ahb%3Adiva-21941>

**Author(s):**

J. Neuß, M. Schlich

**Supervisor:**

Dr. V. Kumar

Circular  
Economy



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# Selected publications about Fashion-Tech in Textile Management

Demand-  
driven  
customized  
production

- ❑ Jain, S., Kumar, V., 2020, Garment Categorization Using Data Mining Techniques, Symmetry, no 6, article id 984
- ❑ Pal, R., 2019. Report on data-based services, funded by European Commission, Horizon 2020, Research and Innovation Action under NMBP-22 (Business models and industrial strategies supporting novel supply chains for innovative product-services).

Circular  
Economy

- ❑ Paras, M.K., Wang, L., Chen, Y., Curteza, A., Pal, R., Ekwall, D., 2018, A Sustainable Application Based on Grouping Genetic Algorithm for Modularized Redesign Model in Apparel Reverse Supply Chain, Sustainability, Vol. 18, No. 3013
- ❑ Paras, M.K., Pal, R., 2018, Application of Markov Chain for LCA: A study on the clothes 'reuse' in Nordic Countries, The International Journal of Advanced Manufacturing Technology, Vol. 94, No. 1-4, pp 191-201

Traceability  
System

- ❑ Agrawal, T.K., Kumar, V., Pal, R., Wang, L., Chen, Y., 2021, Blockchain-based framework for supply chain traceability: A case example of textile and clothing industry, Computers & industrial engineering, article id 107130
- ❑ Agrawal, T.K., Pal, R. 2019, Traceability in Textile and Clothing Supply Chains: Classifying Implementation Factors and Information Sets via Delphi Study, Sustainability, Vol. 11, no 06, article id 1698
- ❑ Kumar, V., Koehl, L., Zeng, X., Ekwall, D., 2017, Coded yarn based tag for tracking textile supply chain, Journal of manufacturing systems, Vol. 42, p. 124-139





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# Fashion-Tech future ambitions

# Ambition



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HB's ambition is to develop an interdisciplinary collaboration platform that has the role of promoting research and education in the field of digitalisation as the university's core areas.

## At Textile Management our future plans in the fashion-tech domain are:

- ✓ **Develops fashion-tech R&D projects and training programmes in the areas of:**
  - ✓ Demand-driven customized production
  - ✓ Circular economy,
  - ✓ Traceability.
- ✓ **Create research outputs (innovative methods, models, and artefacts) that can further advance multidisciplinary educational curriculum (e.g. WE-Team) and develop new courses in the field of fashion-tech.**
- ✓ **Enhance opportunities for international collaborations to ensure that graduated students acquire relevant knowledge, skills and attitudes to advance technological innovation, creativity and management in textile industry by means of digitalization.**
- ✓ **Work collectively to create and communicate new fashion-tech knowledge to various actors in the business and public sector through setting up of specific resource+knowledge base and hands-on tools (e.g. data-services and associated training modules).**