



FASHION BIG DATA
TECHNOLOGY PLATFORM:
New digital business models for
fashion and textile supply chains

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#### SPEAKER PRESENTATION

Rudrajeet Pal is a practitioner, consultant, advisor, researcher and educator within the field of textile and fashion for over 15 years. He is Professor in Textile Value Chain Management at Swedish School of Textiles | University of Borås, Sweden, and holds a doctoral degree in engineering, specifically on resilience and risk management of textile and clothing supply chains during crises periods.

He has also worked as an expert for many organizations, such as United Nations Economic Commission for Europe, Swedish National Platform for Sustainable Textile and Fashion, and consultant to IFC (World Bank) and FCDO for different textile programs.

He has participated in many EU projects.



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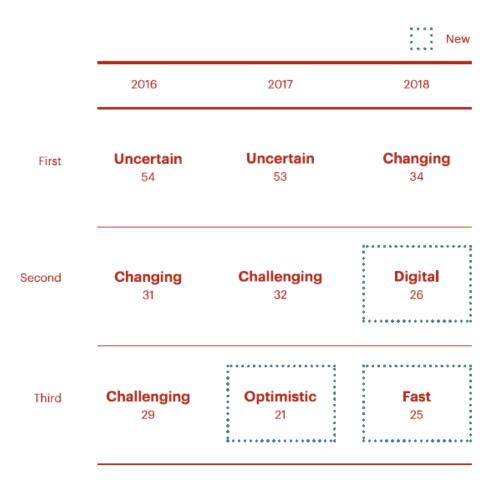
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#### Top 3 words to describe the fashion industry

- What are the 5 adjectives you would use to descibe how you feel about the fashion industry
- N = 274 (International fashion executives and experts)
- «changing» «digital», «fast»



Source: BOF – McKinsey State of Fashion Survey (2019)

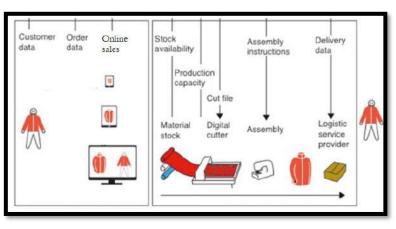




#### «Digital» + «Fast» textile-fashion supply chain — The Success Factors

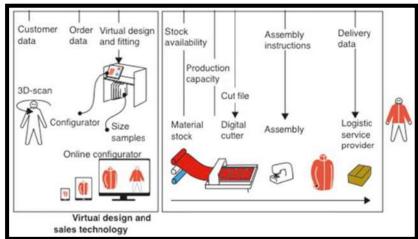
### FBD\_Bmodel's interactive & integrated fashion network

#### Traditional on-line fashion chain

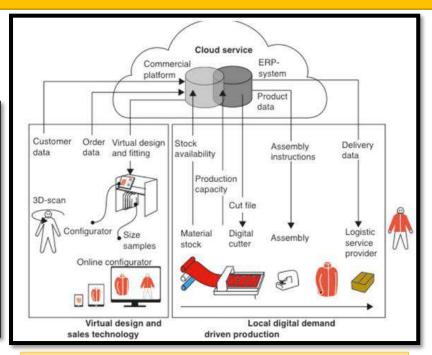


- B2B/B2C: Based on economies of scale to stock
- ☐ Low demand-drivenness
- ☐ Long (6-8 months)
- ☐ High inventory and High unsold stock

#### Customized on-line fashion chain



- ☐ B2C: Made-to-measure/one-piece fashion
- ☐ B2B: Upstream is still stock based
- ☐ Higher (But on consumer side mainly)
- ☐ Short (7-14 days)
- ☐ High fabrics inventory and Unsold fabrics



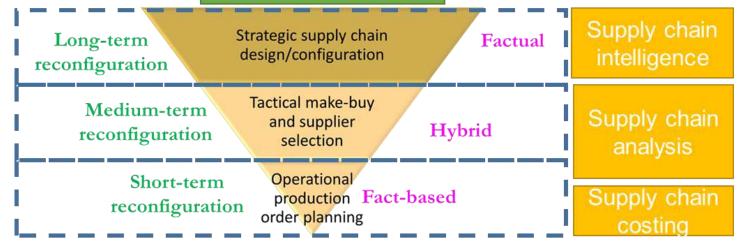
- ☐ B2B2C: Demand-driven, Engineer-to-order
- ☐ B2C: Made-to-measure/one-piece fashion
- ☐ B2B: Small-series
- ☐ Higher (End-to-End)
- ☐ Short (2-3 days)





#### Need for decision-support for enabling «Digital» + «Fast» - Textile-fashion supply chain — **Our Offer**

## Decision-levels for data-based services



Supply chain as service (SCaS)

Internalization of knowledge intensity

ONE STOP FOR
MULTI
DATASERVICES FOR
SUPPLY CHAIN

https://tvcm.ths.hb.se/





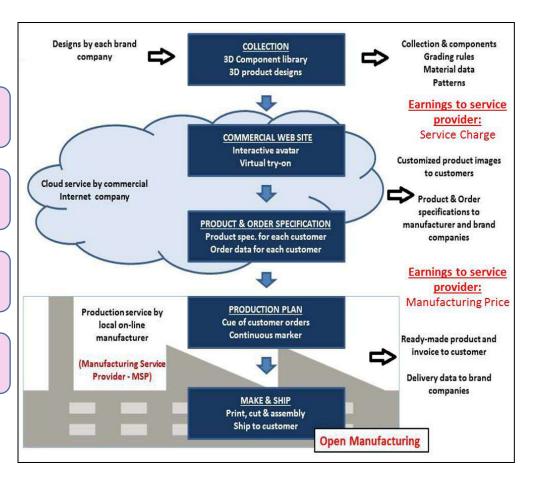
#### Data-driven Supply chain Intelligence: AT STRATEGIC LEVEL

Product architecture

Process Integration

Value chain structure

Collaborative relationships



https://tvcm.ths.hb.se/fbd/

## Supply Network Design & Reconfiguration

Managing Supply
Chain in small series Fashion Industry

#### Offer

An application for offering the logics for designing & reconfiguring supply chain suited to/required for small-series, EU-based production.

#### **Utility**

- ☐ Crucial to design future sustainable supply chains based on small-series, EU-based production.
- ☐ Understand how the different supply chain aspects influence each-other.
- Make long-term supply chain design decisions, when operations data is not applicable or available.





#### Data-driven Supply chain analysis: AT TACTICAL LEVEL

### Supplier Selection

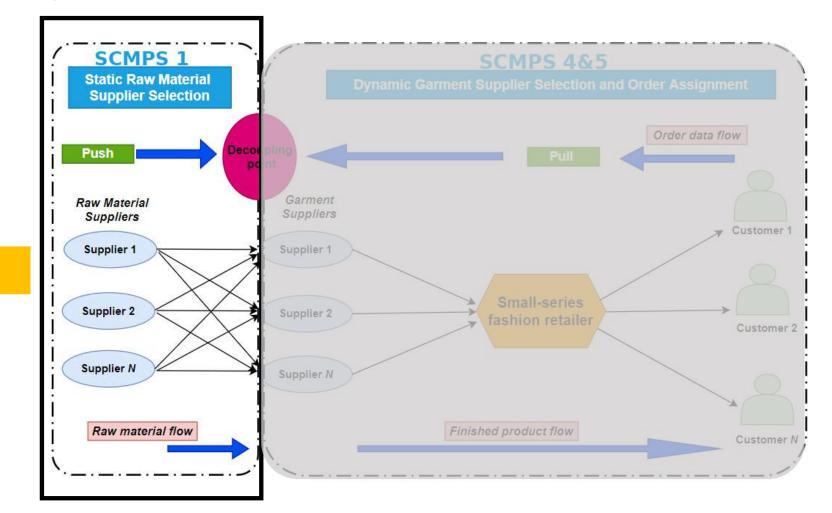
Managing Supply
Chain in small series Fashion Industry

#### Offer

Application for evaluating the relevance of suppliers following the importance of criteria and the level of the suppliers in these criteria

#### **Utility**

- Crucial to determine a set of most important criteria for supplier evaluation
- Crucial to evaluate and select best supplier based on multicriteria

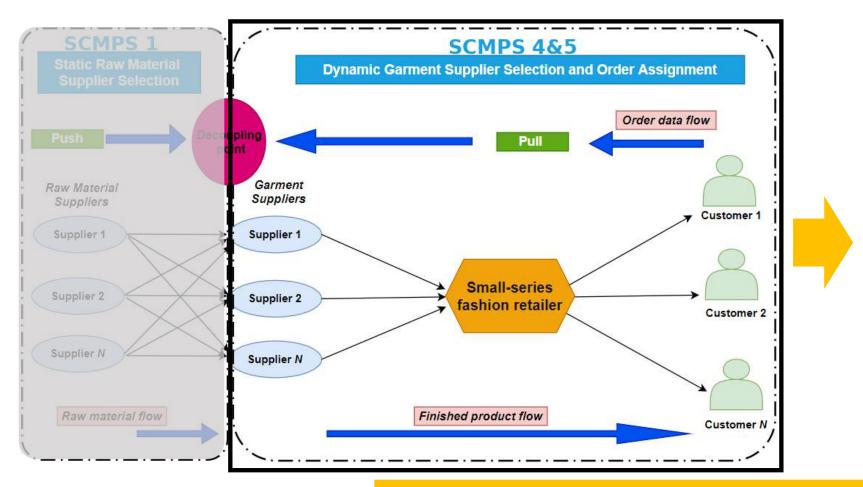


http://scpms.ensait.fr/SCPMS1





#### Data-driven Supply chain analysis: AT OPERATIONAL LEVEL



## Order Assignment & Scheduling

Managing Supply
Chain in small series Fashion Industry

#### Offer

An application for attributing orders between different suppliers.

#### **Utility**

- ☐ Crucial to assign a set of orders to the suppliers and evaluate the related KPIs (Key Performance Indicator)
- Crucial to develop graphical simulation results to optimization performance.

http://scpms.ensait.fr/SCPMS4/displaychoice http://scpms.ensait.fr/SCPMS5/displaychoice





# Thanks for your attention



www.fbd-bmodel.eu











