# **SUMMARY**

## Digital inkjet printing in textile industry





#### Developed by:



#### UNIVERSITY of Borås

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### 1. Background





Image: MIMAKI TX400-1800B

https://www.signup date.co.uk/Sign-News/mimakitx400-1800b

### 2. Main inkjet printing systems





Reproduced from (Lau et al. 2017)

2. Lau, Gih Keong, and Milan Shrestha. 2017. "Ink-Jet Printing of Micro-Elelectro-Mechanical Systems (MEMS)." Micromachines 8 (6): 1–19. doi:10.3390/mi80601 94.

### **3.** Characteristics and components of DIJ printing on textiles





3. Magdassi, Shlomo, ed. 2009. The Chemistry of Inkjet Inks. World Scientific. doi:https://doi.org/1 0.1142/6869.

4. Main ink types

Pre and/or post-treatments may be required!



According to colorant type

According to the base used



4. Tawiah, BENJAMIN, EBENEZER K. Howard, and **BENJAMIN K. Asinyo.** 2016. "The Chemistry ofInkjetInks for Digital TextilePrinting -Review." International Journal ofManagement, Information Technologyand Engineering4 (5): 61-78.

### 5. Applications of digital inkjet printing on textiles







Fashion and domestic textile

**Functional textiles** 

Industrial and sportive



This was a summary of an open educational resource. Please visit <u>http://destexproject.eu/</u>to see the full amount of intellectual outputs of the project.



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