

**Publishable non-confidential summary: D5.1 Report on overall dispenser printer preliminary design**

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Project acronym: CREATIF

Project full title: Digital creative tools for digital printing of smart fabrics

Grant agreement no.: 610414

**SEVENTH FRAMEWORK PROGRAMME**

**FP7-ICT-2013-10: Objective ICT-2013.8.1 Technologies and scientific foundations in the field of creativity**

The design of the printer to produce the smart fabrics for the applications of the interactive modular blind and the exhibition stand. Research has focussed on the detailed design of the print head which is the core of the overall printer.

The initial design considerations relevant to the selected digital printing approach has taken place to achieve the required functions of interactive light emission, interactive colour change and sound emission/touch. Further development in year 2 will be undertaken to integrate the print head within the overall printer requiring the addition of a fabric feed mechanism and print head positioning stages to allow large areas of fabric to be printed.

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**Project partners:**

*UoS* – University of Southampton (ECS) – <http://www.ecs.soton.ac.uk/> - UK

*ITA* - RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN -  
<http://www.ita.rwth-aachen.de/> - Germany

*GSoft* - Grafisoft - <http://www.grafisoft.com/> - Bulgaria

*Diffus* – Diffus Design - <http://www.diffus.dk/> - Denmark

*Base* – Base Structures Ltd - <http://www.basestructures.com/> - UK

*Zaha* – Zaha Hadid Architects - <http://www.zaha-hadid.com/> - UK

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