D5.2: Enhanced printer with customised capability and description report

Date Due: M22: 31 July 2015

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

Publishable short non-confidential summary

Two printers are described addressing different print areas and implementing different functionality.

For printer 1 (ITA) an overview of the system is provided. The main frame and table is discussed as well as the print head. Control parameters are provided,

For printer 2 (UoS) the following is discussed:

- The rationale for the printer is given,
- The trade-offs involved in print size selection
- Curing mechanisms and evaluation
- Multiple ink implementation
- Colour printing
- Print table levelling
- Complex shape printing
- Infill pattern selection
- Specification and cost
- Ink development and testing
- Printer trials with CREATIF software

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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 - Grafixoft - http://www.grafixoft.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

Ardeje – Ardeje - http://www.ardeje.com/ - France