

3D PRINTING CONFERENCE INNOVATION, MODELLING, APPLICATION & IMPLEMENTATION

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Overview of 3D printing application in construction: Analysis and recommendations

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Currently in civil engineering, competition no longer concerns the national sphere but is played at the global level. It is therefore necessary to rethink the construction process in order to make it as efficient as possible at the productivity, environmental the socio-economic levels. 3D Printing in Construction is gaining popularity thanks to the extensive research made and the raising interest by construction professionals in innovation. The presentation gives an overview of the latest advancements made in 3D printing in Construction (Figure 1 reveals the main 3D Printing institutions and technologies that will be developed during the presentation) and the future trends and perspectives (what we will expect from 3D Printing in the near and long terms). Based on this state of the art, some commons elements emerges. The most critical one concern the materials used for 3D Printing in Construction



Figure 1. 3D Printing in Construction map

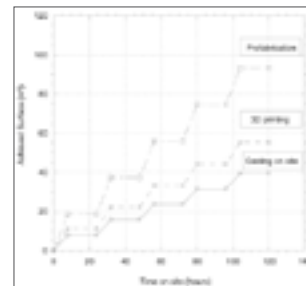


Figure 2. Evolution of achieved surface according to time on site for prefabrication, Casting on site and 3D Printing.