

Summary of Deliverable D5.1

Relevant information from other roadmaps available

Summary author: Taina Lamminmäki, Pasi Puukko

Date: 05.02.2013

The target of the framework of the DIGINOVA FP7 project is to promote the expected potential of Digital Fabrication. The objective of Work Package 5 *Roadmap for Digital Fabrication* is to “create a technology roadmap for Digital Fabrication, which will clearly show the vision of the industry and the steps required to transform the vision into reality”.

The work was started by the evaluation of present situation. Altogether 35 roadmaps from different industrial sectors that are likely to be stakeholders in the Digital Fabrication agenda were evaluated in relation to their connection and contribution to an overall Digital Fabrication roadmap. Roadmaps were collected using the existing DIGINOVA partner network and utilizing also the CORDIS (EU) website. Evaluation was done by organizations from the DIGINOVA network working in Roadmapping Work Package. The evaluator group jointly identified the most relevant roadmaps from Digital Fabrication perspective, and it turned out that there were 12 documents with the highest relevance on the DIGINOVA project.

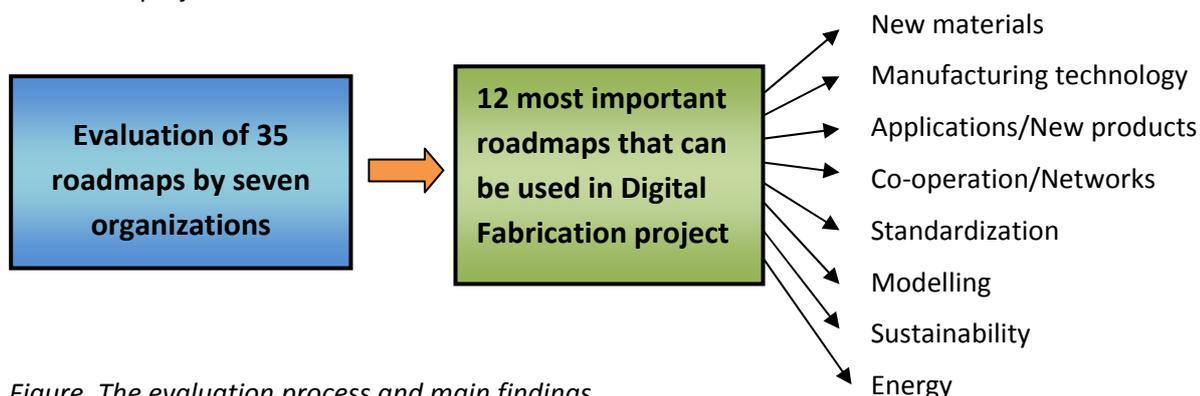


Figure. The evaluation process and main findings.

The selected twelve most relevant roadmaps were classified as

- 1) Additive manufacturing technology,
- 2) Manufacturing industry,
- 3) Printed functionality applications and
- 4) Enabling technologies and advanced materials.

They show that the development of materials as well as the manufacturing technologies requires further development work. Nowadays Digital Fabrication technologies do not necessarily fulfil the requirements of production-scale manufacturing, when utilized for novel applications. Industrial inkjet printing and 3D printing are among the most promising production methods for Digital Fabrication and many interesting applications can be found e.g. in the area of 3D printing, bio applications and power generation (clean energy). Standardization is one aspect that requires our attention. To get all these working we need more co-operation in the area of production development as well as in the fundamental understanding.