

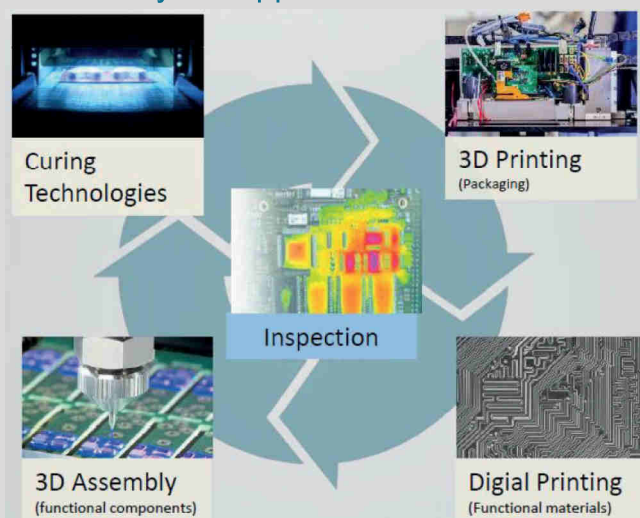
NextFactoryVision 2013:

Additive Manufacturing of micro-mechatronic systems (all-in-one package)

- NextFactory is to provide a radically new way of producing micro-mechatronic systems
- In a one-stop-shop approach, Next Factory will enable developers of micro-systems to manufacture their products completely on one machine
- The NextFactory machine will be set up and programmed for their specific needs within one day, even for smallest lot sizes and unique items
- It will be possible to use standard product CAD models and to manufacture them in a fully automated process



NextFactory manufacturing: A hybrid approach

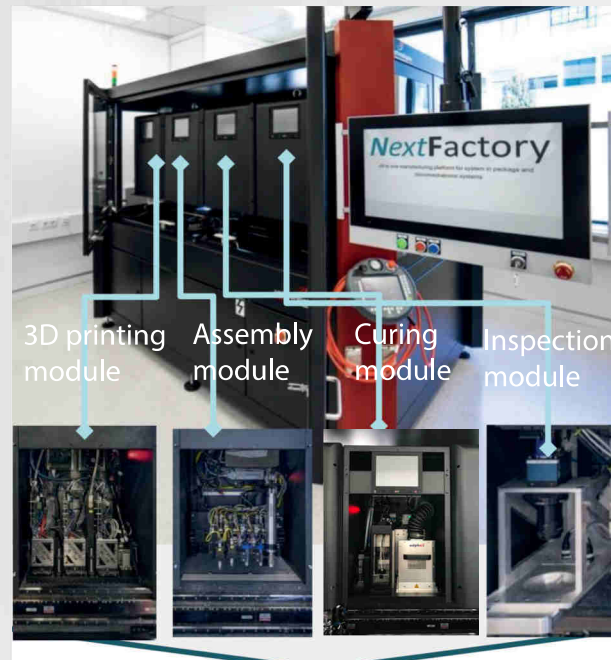


NextFactory Achievements 2017:

NextFactory Machine demonstration at Workshop on 30 August in Stuttgart!

-> *Programm on next page*

Modular set-up: optimal extendibility/scalability
Continuous interaction between modules



Produced test structures:



A/C - Conductive structures
B - Contacting a SMD resistor



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 608985.

NextFactory Opportunities

Taylor made production of micro-mechatronic systems

Examples from NextFactory Use Cases



Flexible and miniaturised electrical components



Highly-miniaturised and integrated sensor systems



Personalised complex 3D electronic packaging

NextFactory will empower micro-system developers:

- to **miniaturise their products** in the order of a magnitude while maintaining or even extending their functionality
- to reach utmost **flexibility and scalability** in terms of production throughput ranging from 1 to several thousands per lot
- to **dramatically enhance the customisability** of their products thanks to individual freeform shaping
- to **cut production lead time** by factor 10 and more
- to **reduce the use of resources and residual waste** to the very minimum
- to **increase the added-value** of their contribution to the product design and manufacturing process

Consortium

The NextFactory consortium brings together a multi-disciplinary group of leading edge SMEs and academic partners respectively contributing expertise in the new manufacturing technologies and the different application fields.



NextFactory

Workshop, 30th August 2017

Demonstration of the NextFactory
Machine & Processes + expert talks about:

- Processes
- Machine Concept
- Materials
- Quality Assurance

Date and time: 30th of August , 12:30 - 16:00

Venue: Fraunhofer Institute for Manufacturing
Engineering and Automation (IPA)
Nobelstr. 12
70569 Stuttgart



For registration and further information please contact:
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A detailed agenda and travel information will be
available at
www.nextfactory-project.eu



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Functional & Smart Materials

Functional
components

3D Multimaterial
Printing



3D Micro Assembly

Inspection &
testing

NextFactory

All in one manufacturing platform for systems in
package and micromechatronic systems

