DETAILS

Starting Date	1st Septeber 2020
Project Duration	4 Years
Coordinator	Virgilio MATTOLI
Project Officer	Remus Ion IACOBESCU
Cost	€3,583,800.00
EU contribution	€3,583,800.00

PRINCIPAL INVESTIGATORS

Virgilio Mattoli	Istituto Italiano di Tecnologia
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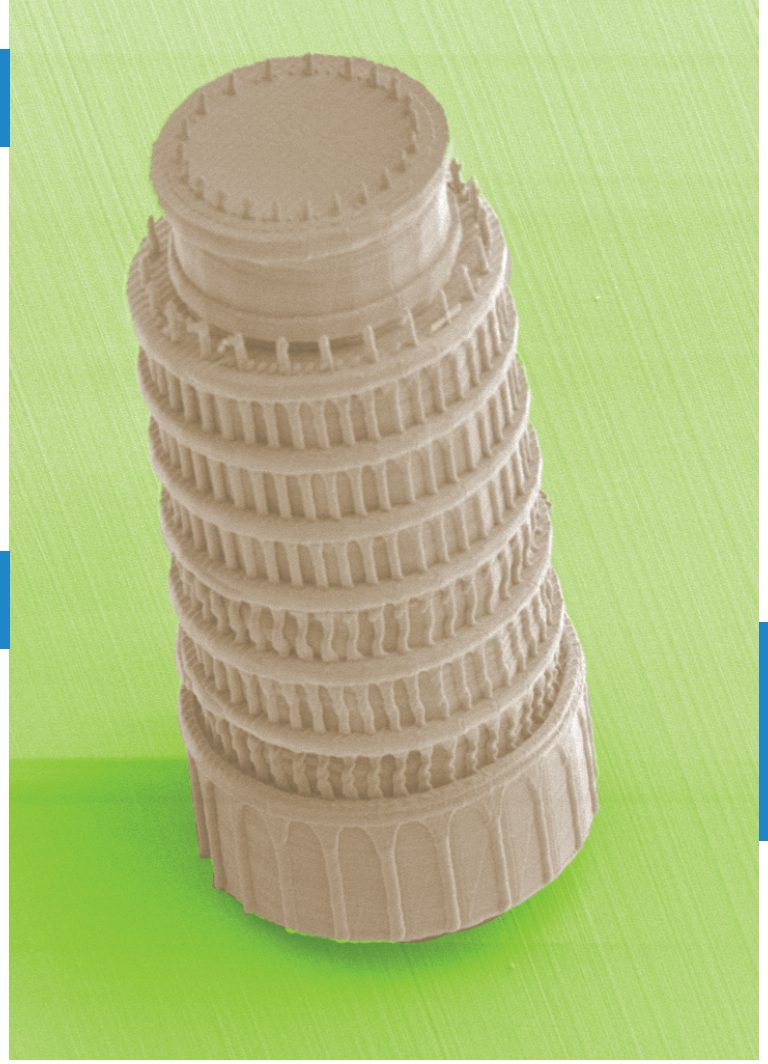
Francesco Greco	Scuola Sant'Anna Pisa
Alberto Roncaglia	Consiglio Nazionale delle Ricerche
Gabriele Bolognini	Consiglio Nazionale delle Ricerche
Stefano Zampolli	Consiglio Nazionale delle Ricerche
Laria Florea	Trinity College Dublin
Francesco Foncellino	ST Microelectronics



CONTACTS

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5D NANOPRINTING

Toward the future of micro prototyping

H2020-FETOPEN-2018-2019-2020-01

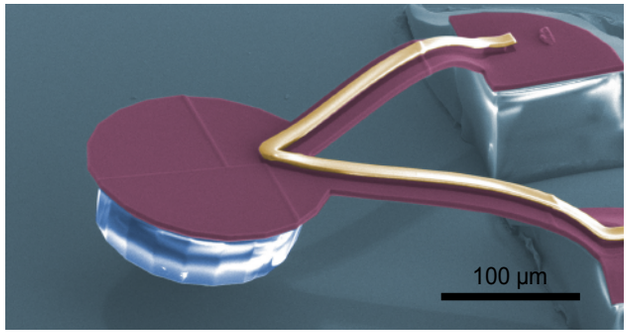
FET-Open
Challenging Current Thinking

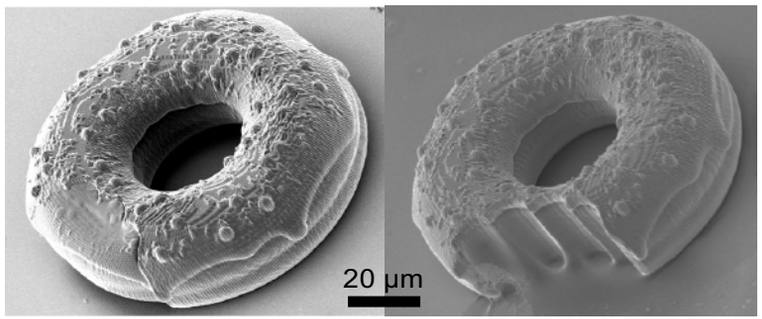
European Commission

Grant Agreement n°899349

OUR INNOVATION

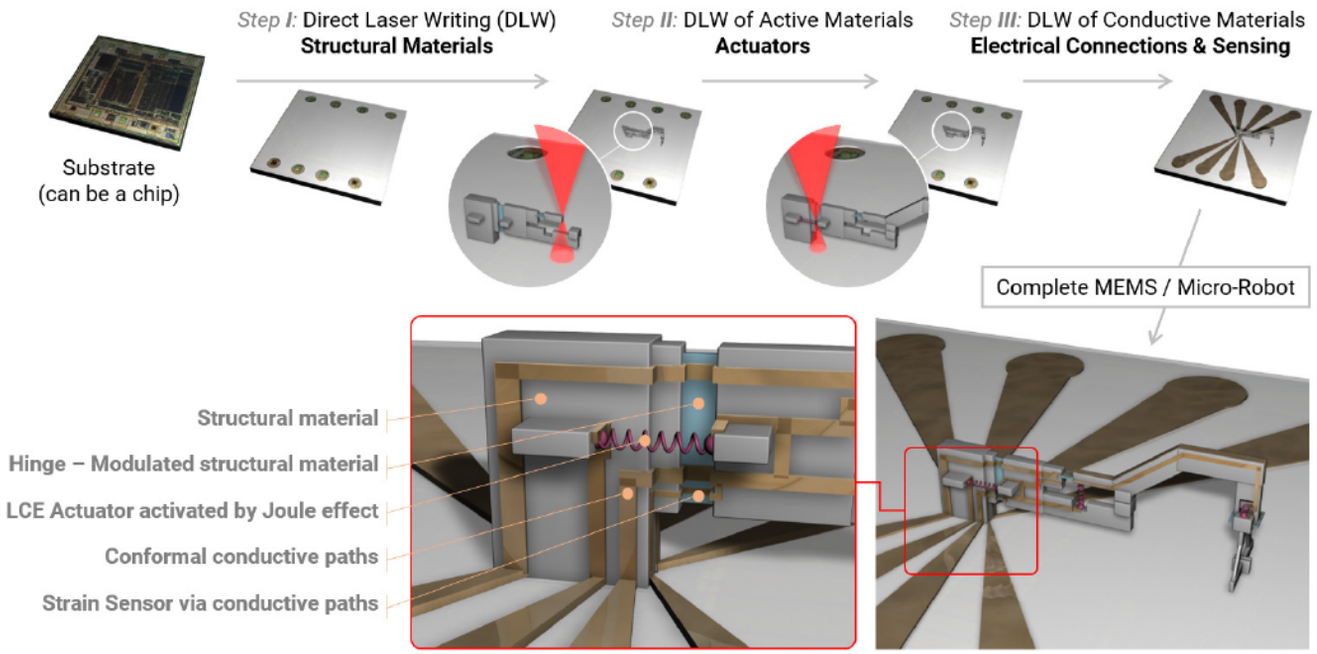
5DNanoPrint project aims to set a new paradigm in the **direct printing technology** of **micro-** and **nano- machines**.





Innovative **smart materials** and fabrication methodologies will allow **faster prototyping** and uprecedented control.

5D NANOPRINTING TECHNOLOGY



GRADED MATERIALS

Grant the desired stiffness of the micro- and nano- components.

CONDUCTIVE MATERIALS

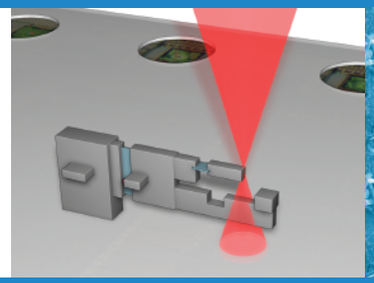
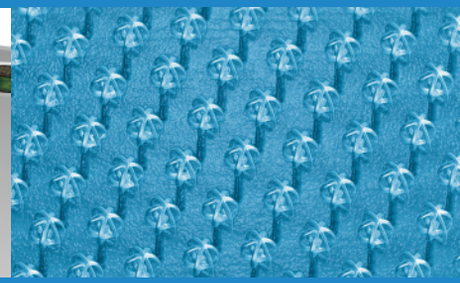
To build electrical circuits of the micro- and nano-machines

SOFT ACTUATORS

Support the controlled movements of the micro- machines.

SENSING ELEMENTS

Can respond to external stimuli (light, humidity, temperature).

DIRECT LASER WRITING

By exploiting **two-photon absorption**, DLW allows the printing of phosensitive materials in **complex 3D structures**.