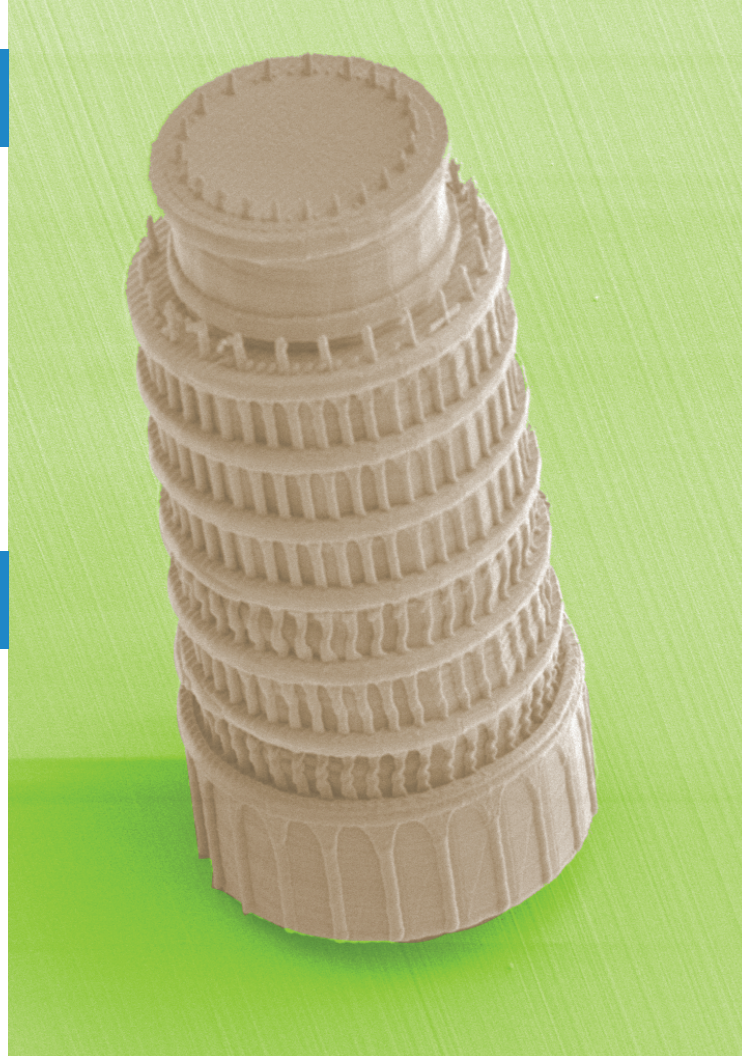


DETAILS

Starting Date	1 st September 2020
Project Duration	4 Years
Coordinator	Virgilio MATTOLI
Project Officer	Adelina NICOLAIE
Cost	€3,583,800.00
EU contribution	€3,583,800.00

PRINCIPAL INVESTIGATORS

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5D NANOPRINTING

Toward the future of
micro prototyping

H2020-FETOPEN-2018-2019-2020-01

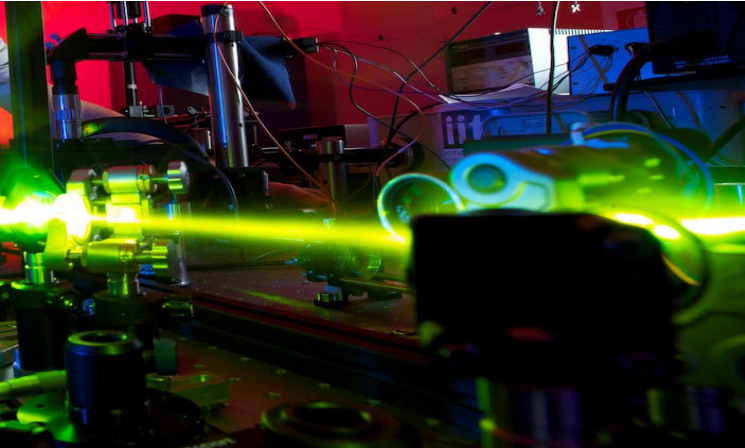
FET-Open
Challenging Current Thinking



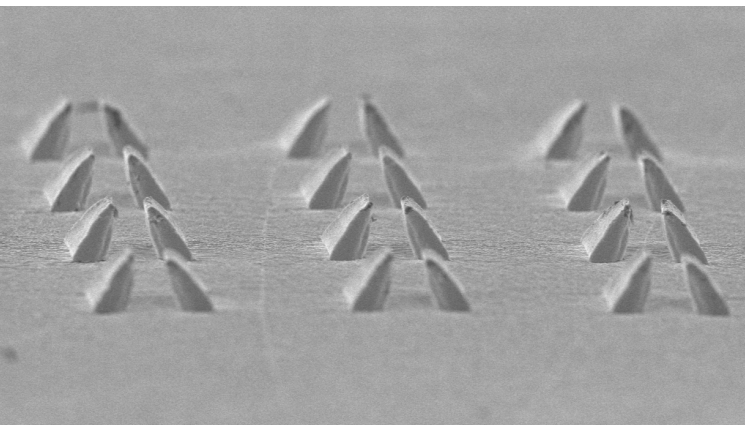
Grant Agreement n°899349

OUR INNOVATION

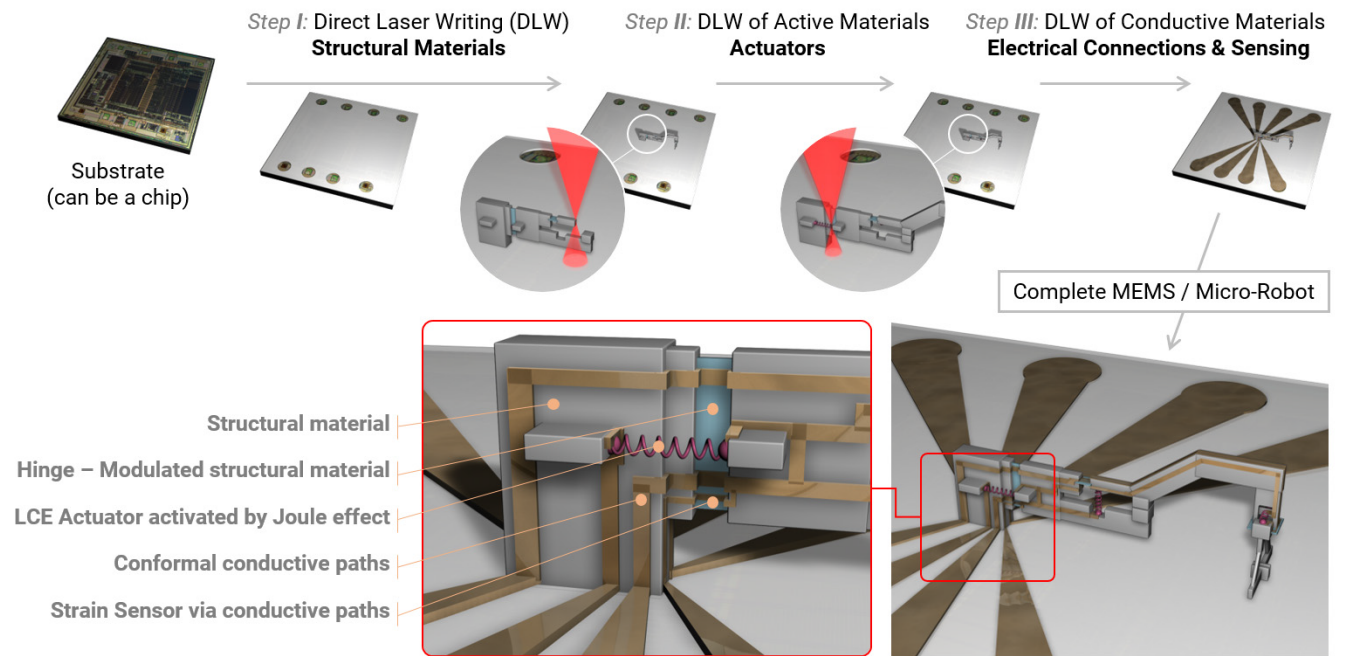
5DNanoPrint project aims to set a new paradigm in the **direct printing technology** of **micro- and nano- machines**.



Innovative **smart materials** and fabrication methodologies will allow **faster prototyping** and unprecedented 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 photosensitive materials in **complex 3D structures**.

