

# Partners



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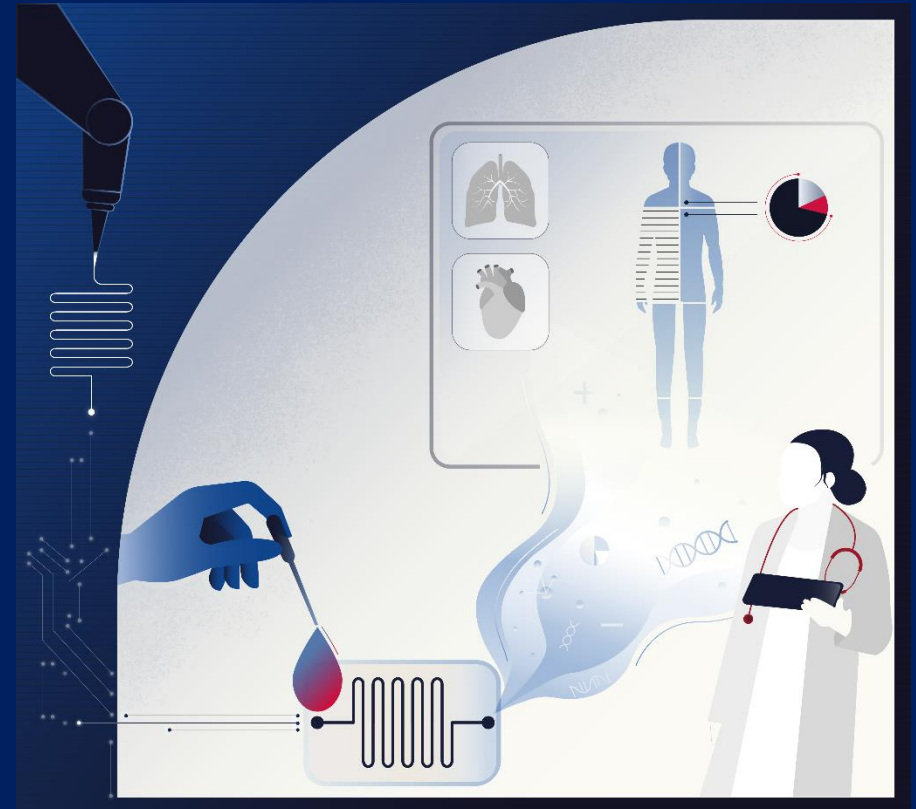
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Additive Manufacturing of 3D Microfluidic MEMS for Lab-on-a-Chip applications.



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# M3DLoC Project

M3DLoC project is targeting to develop a hybrid manufacturing process, by combining Additive Manufacturing and inkjet printing with micro-milling and laser processing, in an integrated, modular pilot line, with advanced in-line inspection technologies. This integrated approach allows to link flexible micro-fabrication and multi-material integration, aiming to address current challenges in point-of-care testing molecular diagnostics. The heart of the project is the Pilot Line established at the Lavrion Technical and Cultural Park. Bespoke process systems from project partners have been incorporated into this pilot line and complemented by hardware and software system for fully automated production of microfluidic devices.



## Pilot Line



The M3DLoC Project Pilot line is located at Lavrion, Greece. The M3DLoC Partner, Lavrion Technological and Cultural Park (LTCP) is in charge of providing the necessary infrastructure to M3DLoC Consortium, to establish the industrial production line.

Systems have been delivered, commissioned and integrated on the LTCP Pilot Line Site. Hardware and software integration has been implemented and the pilot line is capable of operating and be automatically controlled by the master production PC, utilising the custom software developed for the M3DLoC project. The devices are carried and handled by a robotic system, utilising a custom-built gripper and carrier setup, specifically designed for the needs of our project.

