



European  
Commission

eic

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**INNOVATION**

Council

**EMPOWERING  
EUROPEAN  
INNOVATORS**

Research and  
Innovation

# EIC TRANSITION TO INNOVATION ACTIVITIES

## Subtopic 1: micro and nano-technologies

**SMARTWAVE** builds on the NANOPOLY project to develop a phase shifting mechanism based on reconfigurable metamaterials for antenna beam steering.

**SMILE** builds on the ChipScope project by developing microLED arrays for activating and manipulating chemical or biological reactions.

## Subtopic 2: artificial intelligence and advanced robotics

**VeriDream** builds on the DREAM project to produce robotics systems with AI for warehouse logistics and artificial assistants for engineering tasks.

## Subtopic 3: technologies for the life sciences, health and treatment

**MARVEL** will build on the INDEX project to isolate extracellular vesicles using membrane-sensing peptides as novel ligands for the size-selective capturing.

**MARILIA** builds on the MARA project to realise a new detection concept for the fast, low-cost identification of human pathogens in water samples.

**M-ONE** builds on the project M-CUBE to demonstrate a breakthrough MRI coil for brain imaging at 7 Tesla.

**DirectSepa** will build on results from the LMCat project to develop a new way of manufacturing 2D materials using liquid metal catalysts.

**Brainiaqs** will build on results from the project SUPERTWIN by developing arrays of quantum sensors, based on superconducting single-photon detectors, in a multi-photon microscope to greatly enhance imaging depth and resolution in live tissues.

**IM-TWIN** will build on results from the project GOAL-Robots to build engaging interactive robots usable for the treatment of children with developmental disorders.

**PLATFORMA** builds on the MESO-BRAIN project to create purpose-built, 3D modular human tissues supported by laser-printed bio-compatible scaffolds for screening cosmetics, pollutants and new therapeutics.

**ODYSSEY** will develop results from the CHROMAVISION project to produce ondemand, ultra-thin prescription eyeglasses, laser-printed in the shop while you wait.

**LaserImplant** will build on results from the LiNaBioFluid project to develop a laserbased surface functionalization of implant materials for controlling adjacent cell growth.

#### Subtopic 4: low-carbon energy and climate change technologies

**AMAPOLA** will further develop the aluminium-sulphur battery technology explored in the project SALBAGE.