HOLO: Boosting the scientific excellence and innovation capacity in digital holographic microscopy of the Institute of Applied Physics

Objective: The overall aim of the HOLO project is to boost the scientific excellence and innovation capacity in digital holographic microscopy of the Institute of Applied Physics of the Academy of Sciences of Moldova (IAP-ASM) by creating a network with the high-quality Twinning partners: Universität Stuttgart (USTUTT), Tampere University of Technology (TUT) and Intelligentsia Consultants (Intelligentsia).

To achieve this aim, the 3 year project will build upon the existing strong research and innovation base of IAP-ASM and its Twinning partners.

To boost their scientific excellence and innovation capacity in digital holographic microscopy, the partners will implement a science and innovation strategy focused on two sub-topics: Design and optimization of diractive optical elements (DOE) to improve digital holographic microscopy (DHM), and Development of advanced image processing algorithms for digital holographic microscopy (DHM) using diractive optical elements (DOE)

The science and innovation strategy takes into account the recent SWOT analysis of IAP-ASM and has the following objectives:

- Objective 1: Strengthen IAP-ASM’s research excellence in DHM
- Objective 2: Enhance the research and innovation capacity of IAP-ASM and the Twinning partners
- Objective 3: Raise the research profile of IAP-ASM and the Twinning Partners
- Objective 4: Contribute to the research and innovation priorities of Moldova
- Objective 5: Support research and innovation on a European level In order to achieve these objectives, the consortium partners will implement a comprehensive set of measures via the project’s work packages: Short term sta exchanges; Training workshops, conferences and summer schools; Dissemination and outreach

Funding scheme: CSA - Coordination and support action

Coordinated by: INSTITUTE OF APPLIED PHYSICS OF THE ACADEMY OF SCIENCES OF MOLDOVA

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