HOLO

Project ID: 687328
Funded under: H2020-EU.4.b. - Twinning of research institutions

Boosting the scientific excellence and innovation capacity in digital holographic microscopy of the Institute of Applied Physics of the Academy of Sciences of Moldova

From 2016-01-01 **to** 2018-12-31, ongoing project

Project details

Total cost:	**Topic(s):**
EUR 999 926,25	H2020-TWINN-2015 - Twinning
EU contribution:	**Call for proposal:**
EUR 999 926,25	H2020-TWINN-2015 See other projects for this call
Coordinated in:	**Funding scheme:**
Moldova	CSA - Coordination and support action

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:

1. Design and optimization of diffractive optical elements (DOE) to improve digital holographic microscopy (DHM), and
2. Development of advanced image processing algorithms for digital holographic microscopy (DHM) using diffractive 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 staff exchanges (WP1);
- Training workshops, conferences and summer schools (WP2);
- Dissemination and outreach (WP3).

Coordinator

Institute of Applied Physics of the Academy of Sciences of Moldova
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Moldova

EU contribution: EUR 506 981,25

Activity type: Research Organisations

Participants

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Germany

Germany

EU contribution: EUR 195 032,50

Activity type: Higher or Secondary Education Establishments

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Finland

Finland

EU contribution: EUR 199 687,50

Activity type: Higher or Secondary Education Establishments

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Luxembourg

EU contribution: EUR 98 225

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

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