

Smart Metal Oxide Nanocoatings and HIPIMS Technology

NATIONAL
DEVELOPMENT
PLAN 2020



EUROPEAN UNION
European Regional
Development Fund

I N V E S T I N G I N Y O U R F U T U R E

Project number: 1.1.1.1/18/A/073

Duration of the project: 01.03.2019. – 28.02.2022.

Project Manager: *Dr.hab.phys. Juris Purans*

The project is realized in collaboration between the Institute of Solid State Physics University of Latvia (ISSP LU) and the vacuum coating SME company Sidrabe Vacuum Ltd.

Agreement on implementation of EU funding project “Smart Metal Oxide Nanocoatings and HIPIMS Technology” between Institute of Solid State physics UL and Central Finance and Contracting Agency was signed on the 15th March, 2019.

The aim of this industrial research project is to develop advanced Reactive High Power Impulse Magnetron Sputtering (HiPIMS) technologies for deposition of functional transition metal oxide (TMO) multilayers for electrochromic and transparent electronics applications to produce and investigate functional TMO multilayers on the basis of ReO₃-WO₃ and their combination with transparent conducting oxides as novel bifunctional coatings and to develop roll-to-roll reactive R-HiPIMS technologies.

Total eligible costs of the project: 648 750,00 EUR, incl, ERDF funding 374 919,00 EUR.