

NACIONĀLAIS
ATTĪSTĪBAS
PLĀNS 2020



EIROPAS SAVIENĪBA
Eiropas Reģionālās
attīstības fonds

I E G U L D Ī J U M S T A V Ā N Ā K O T N Ē

NEW GENERATION WAVEFRONT SENSORS BASED ON THE METHOD OF CODED DIFFRACTION PATTERNS

Project number: KC-PI-2017/105

**Project scientific leader: Dr. Phys. Sergejs Fomins.
30.12.2020.**

Project implementation – 01.10.2020. – 30.12.2020.

Within the framework of the project, the performance tests of the developed sensor continued - linearity, operating limits, and the of wavefront detection. Linearity tests have been performed for several operating modes; an automatic closed loop aberration correction scheme has been developed.

In-depth research of amateur market segments to achieve optimal market share and discussions with potential partners, further field tests, potential research on product form continued.

We continued to communicate with foreign and local experts in the field of adaptive optics and astronomy, to whom the latest sensor testing data was shared.

Work has continued on improvements and installation details of the portable prototype at the LU Botanical Garden Observatory and the LU Baldone Observatory. Optical adjustment has been developed and operating sensitivity ranges have been determined.

There has been an arrangement of the active patent and its progress towards the patent application, based on the latest market and know-how. Prototype formalization works have been performed.

Due to COVID-19, plans for participation in events and possible travel times have been revised.