

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.**

**30.06.2020.**

**Project implementation – 01.04.2020. – 30.06.2020.**

Within the framework of the project, the work of improving the performance of the sensor continued - internal adjustment. The conversion of the wavefront into dynamic mirror signals has been determined. The ability of the sensor to operate with a small number of elements is determined.

An in-depth study of market segments to achieve optimal market penetration continued. The ability of technology to reach the amateur and professional markets has been identified.

We continued to communicate with foreign and local experts in the field of adaptive optics and astronomy. Contacts are maintained with local observatories and opportunities for cooperation with foreign astronomers are sought.

We continued to work on the portable prototype and the first tests at the LU Geodesy Observatory at UL Botanical Garden.

Proof of patentability of the technology has been obtained and steps for protection of intellectual property have been outlined. Work on finalizing the technology descriptions for patent submission.

Due to COVID-19, the plans for participation in the events have been revised and the applications have been moved according to the new announced dates of the events.