

NACIONĀLAIS
ATTĪSTĪBAS
PLĀNS 2020



EIROPAS SAVIENĪBA
Eiropas Reģionālās
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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.

09.06.2019.

Project implementation – 01.05.2019. – 30.06.2019.

The project team continues to work on the prototype variations and activities of phase recovery efficiency and speed of recovery. Optical and functionally important parameters are being determined. Work has been carried out to transfer the phase recovery algorithm to the high-speed platform. Appropriate and incapacious mathematical solutions are tested.

Local observatories were repeatedly contacted to identify the details of the mechanical assembly work needed. In addition, solutions for mechanical fasteners were developed.

The project team is preparing for the first optical tests with realistic optical system and development of a portable prototype. Work has been done on the design of the prototype.

During the reporting period, adaptive optics meetings were visited in France, where contacts were established with several representatives of the field and prospects for future cooperation were identified. After a visit to Paris Space Week, market needs were reidentified and market analysis was performed.

The development of technology presentation was started during this period. Communication with interested companies on possible developments including project technology, including telescopic systems company.

Work continued on the technology patent application and the latest technical descriptions.