DUTCH UNITED INSTRUMENTS B.V.

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SPACEOPTIX GmbH

SpOptics

This project has received funding from the EUROSTARS-3 joint programme with co-funding from the European Union Horizon Europe research and innovation programme for the following activities:

The consortium will develop two tangibles needed to produce cost-effective laser-satellite communication instruments. Together, the consortium will develop:

1) A non-contact machine for fast high-accuracy measurements enabling high-volume production of novel freeform optical designs;

2) An ultra-precision metal freeform optical system for multiple satellite-applications, allowing ultra-reliable and high data-transfer speeds up to 1 terabyte per second, facilitating real-time climate change monitoring, the prediction of disease patterns, better agricultural crops management worldwide, emergency health management during disasters and the better management of scarce natural resources such as water, land and forests.

This project has received funding from the Eurostars-2 joint programme with co-funding from the European Union Horizon 2020 research and innovation programme