



TNO | INNOVATION FOR LIFE

TNO innovation
for life

“In close cooperation with industry, TNO delivers breakthrough technology for space and science.”

About us

TNO is a not-for-profit independent Dutch research organisation with more than 50 years of space heritage.

Since 1964 TNO has designed, built and calibrated a growing list of mainly optical instruments and modules. Starting with the very first scientific instrument built for ESA, TNO has a proven track record in space instruments and components spanning half a century.

TNO has consistently delivered breakthrough technology and components, ranging from Earth Observation, Space-based and Ground-based Astronomy, Satellite Communication and Space Situational Awareness.

Solutions

TNO collaborates with partners in the development of future mission technologies and payloads from requirements definition to design, integration, testing and calibration.

In-house technologies include:

- Free-form optics manufacturing.
- Fine steering mirrors.
- Deformable mirrors with actuator spacing from 5-20 mm and up, linearity > 99%, power dissipation <30 mW per actuator, different diameter sizes
- High precision mechanisms with piston error below 1pm/sqrt(Hz) and extreme thermal dimensional stability.

Company facts

- Founded: 1932
- Team: ~4000 FTEs
- Space Team: 350+ FTEs
- TNO: one of the largest RTOs in Europe
- Space Heritage: 50+ years

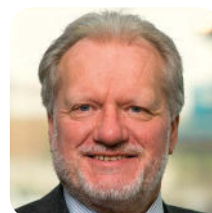
Company highlights

TNO highlights for space missions include:

- Optical and mechanical systems for:
 - NASA Aura OMI ,
 - ESA/Copernicus TROPOM (S5P) and Sentinel 5
- ESA Envisat Sciamachy
- ESA GAIA

In Ground Based Astronomy TNO has provided:

- ESO VLT delay line technology
- ESO VLT and EELT Laser Guide Stars
- ESO EELT primary mirror support structure



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Connect

