

Einstein
Telescope

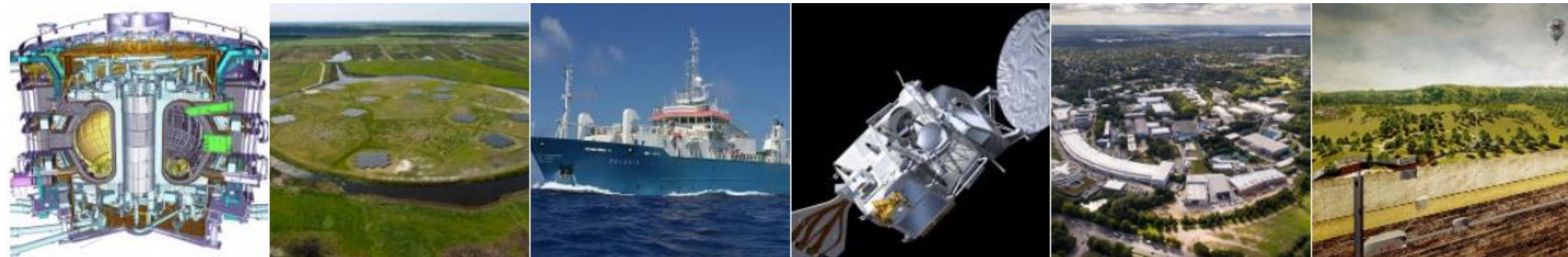
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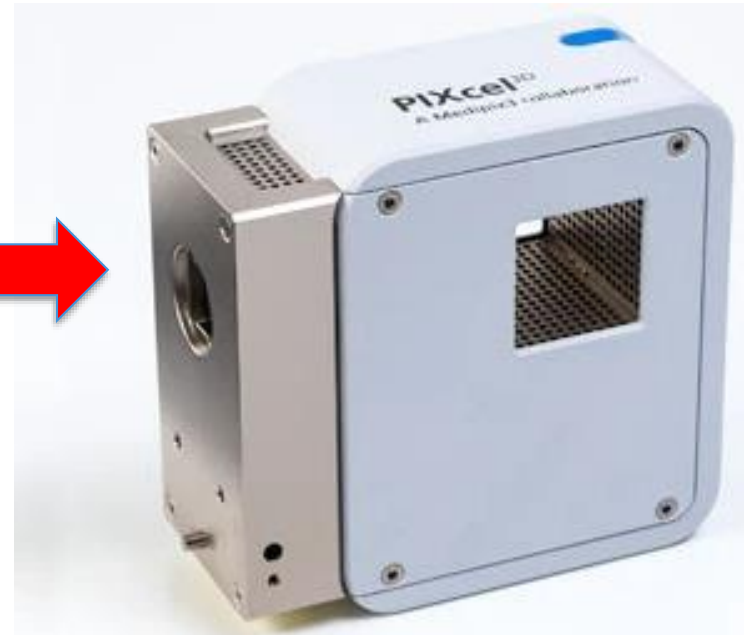
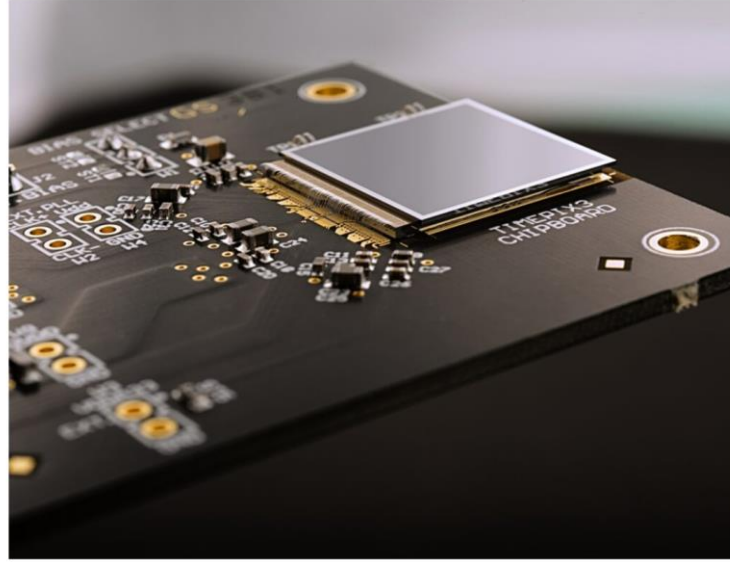
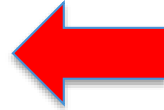
**HANNOVER
MESSE**

Big Science & industry

- Building and operating Big Science facilities is only possible with supplies from industry
- The tenders can be used to obtain revenue
- The requirements from science challenge high tech companies to innovate and perform at the highest technical levels.
- This provides industry the impetus to foster innovation and visibility (marketing).
- Incorporate technologies for better or new products
- The challenges can keep your best personnel interested and innovative.



Technology Transfer



TECHNOLOGY BORN FROM GRAVITATIONAL WAVES

Innoseis Sensor Technology MEMS sensors were born from fundamental research into gravitational wave detection and are now demonstrating world-record performance in their class, addressing critical needs in various application areas.

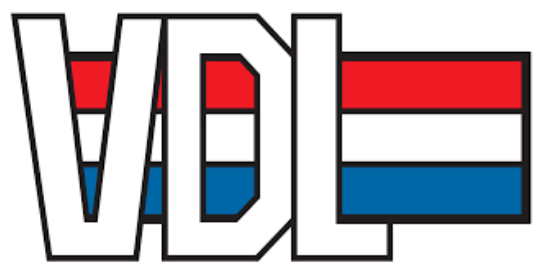
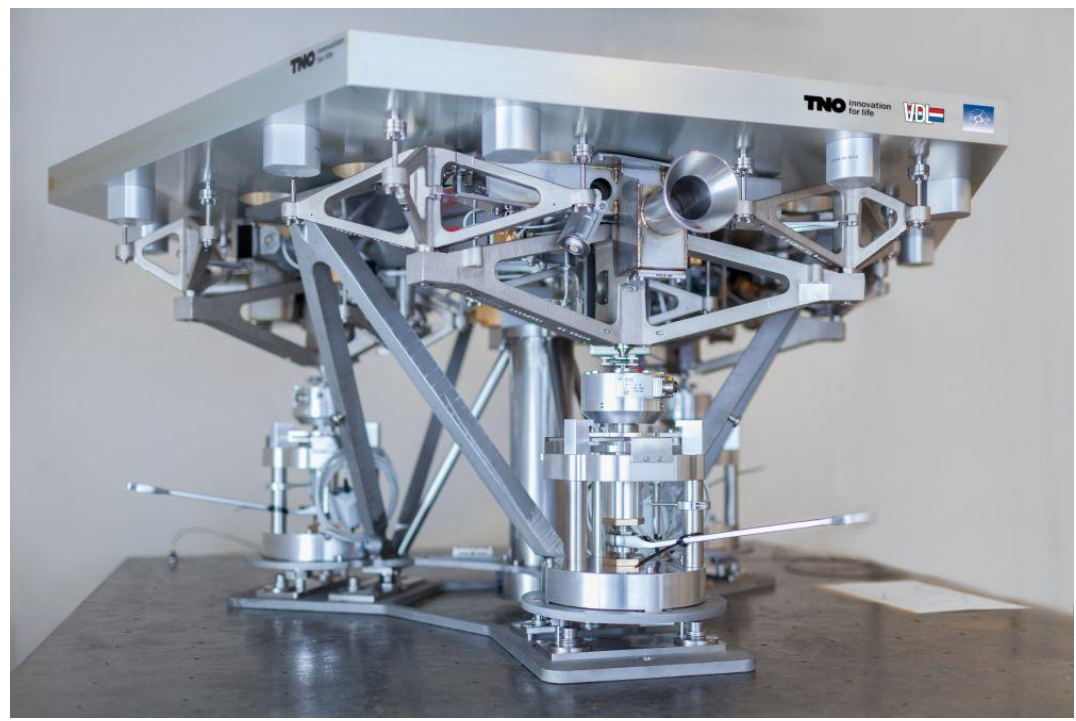
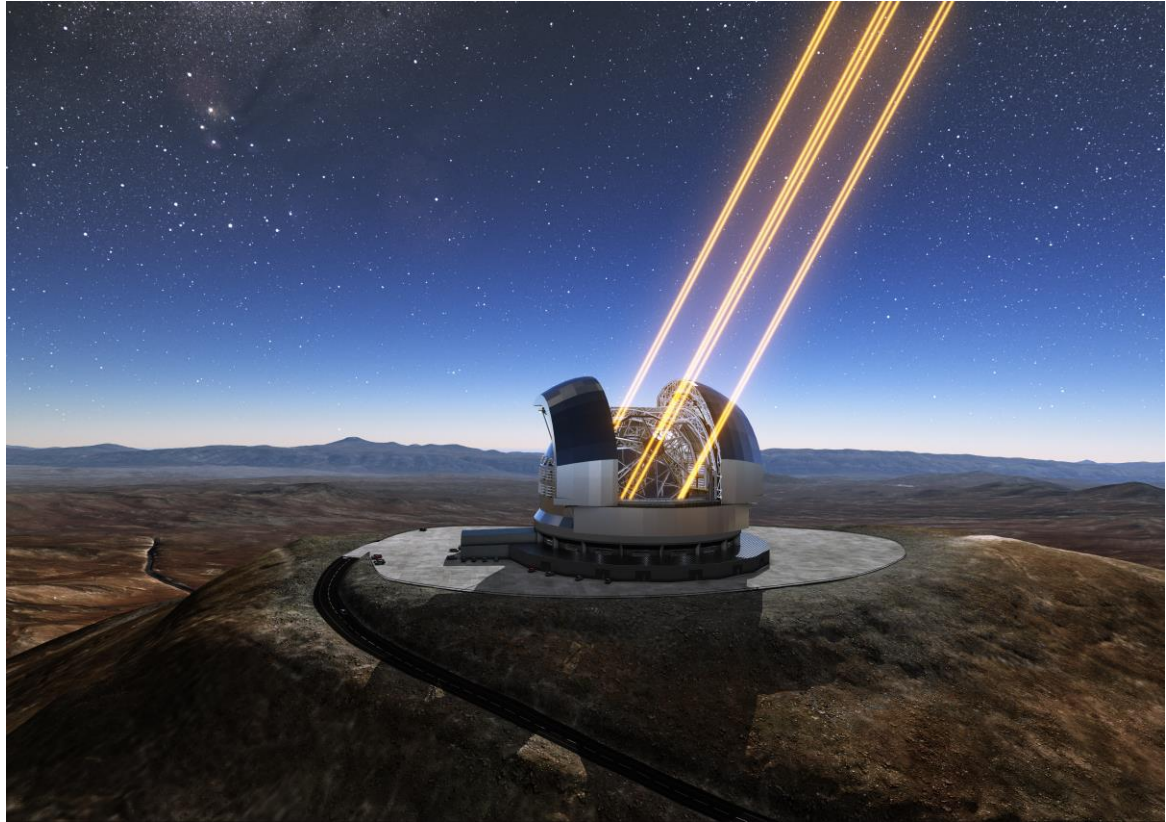
Leveraging in-house experience, we're developing the next generation of novel sensing products, designing and manufacturing high precision, low power wireless sensing technology, improving clients' business and operational efficiencies.



Marco Kraan - Nikhef

Production contract

Contract for the manufacture, assembly, testing and delivery of the Segment Support Mechanics for the primary mirror of ESO's Extreme Large Telescope. The segments act as the backbone of the primary mirror, holding each of the 798 mirror segments in place. Sensors and actuators monitor and control each segment's shape and position to very high accuracy.



Technological Challenges

cryogenics



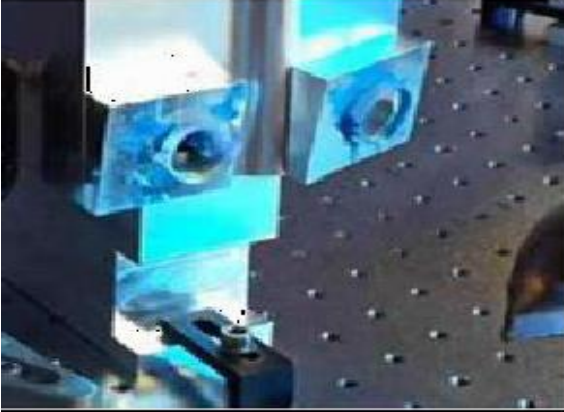
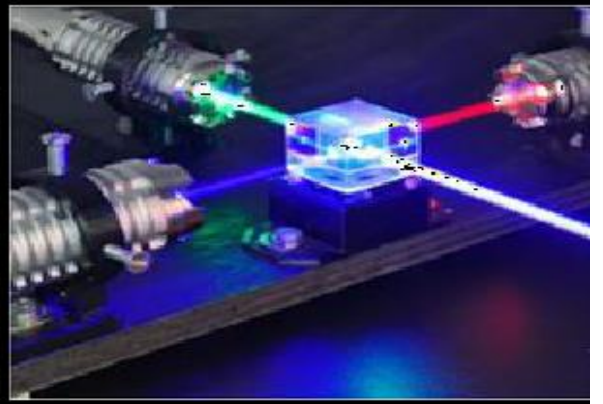
controls



**(quantum)
optics**



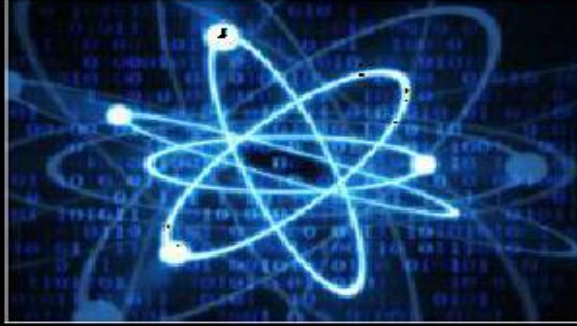
lasers



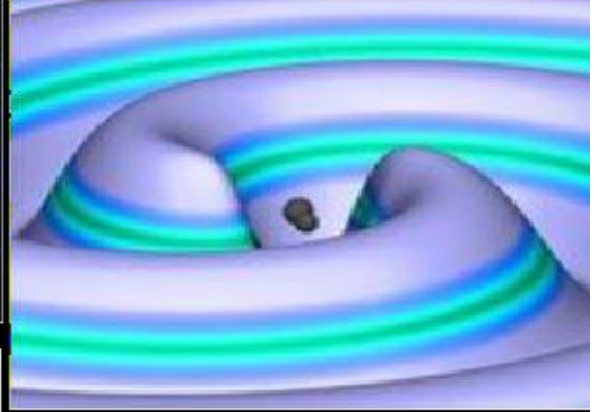
sensors



materials



**computing/
algorithms**



modelling

Funding opportunities



Trillingsdemping: ontwikkeling van optimale combinatie van passieve en actieve trilling demping (openstelling 22 april 2024).

Optica: ontwikkeling van grote Si-spiegels en coating voor toepassing bij temperatuur 10 - 20 K.

Thermische deformaties: ontwikkeling van technologie om thermisch geïnduceerde deformaties te monitoren en compenseren.

Einstein telescoop

1 januari 2023 - 31 december 2026

Nature unlimited

01030107 Gravitational radiation astrophysics

02050799 Semiconductor materials not elsewhere classified

02020902 Photodetectors, optical sensors and solar cells

02010405 Infrastructure engineering and asset management

Main tasks of industrial liaison officers and business developers

- Connect companies with Big Science Organisations
- Focus on calls for tender to high tech companies
- Keep an eye on interesting technologies for transfer to industry
- Participation in industrial fairs by organising a joint company booth
- Organise meetings to inform industry about opportunities



Join us!



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