

SENSOR TECHNOLOGY FACTS & FIGURES

Sensor technology makes it possible to monitor, register or process large amounts of data with great precision in a short time frame. A good example is SKA: a radio telescope with a diameter of 3000 km that will be situated in Western Australia or South Africa. The Northern Netherlands is playing a leading role in this development and is also positioning itself as a location for the SKA's Eurasian control room. Sensors are also used for dyke management and for fossil fuel and sustainable energy applications.

“The Next Technology that will dramatically change business and society”

Sensor Universe has been established with the aim of giving this technology a significant boost. This is an initiative by the Municipality of Assen, the Province of Drenthe and ASTRON.

Sensor Universe unites the business community, government agencies, universities, colleges and knowledge institutes in the field of sensors and sensor systems. The Institute represents one of the five priority areas located in the Northern Netherlands (Sensors, Water, Energy, Agriculture and Healthy Ageing). Sensor Universe brings all the interested parties together, encouraging the exchange of ideas and developing new forms of collaboration. In concrete terms this will take place during conferences every 6 months and the so-called “theme tables” as well as through the establishment of teams and consortia. Bringing people together from diverse backgrounds will surely generate completely novel concepts and solutions; unanticipated successes that wouldn't have been achieved if the parties had not been brought into contact.

High-impact scientific solutions for society

- Radio astronomy technology
- Environmental monitoring systems
- Dyke management systems (intelligent dykes)
- Sustainable energy applications
- Discovery of new energy sources
- Developing various applications for improvement in the quality of health care
- Intelligent systems for monitoring carbon (CO₂) capture and storage
- Improving production processes
- Direction sensitive neutrino detectors

Cross-cluster links

- Agribusiness: crop monitoring, food quality control and precision farming
- Energy: gas exploration and CO₂ storage
- Water Technology: Waddenzee Water monitoring and smart dredging
- Healthy Ageing: diagnostics for disease protection

Partnerships include

- University of Groningen
- Incas³ Assen
- HIT Assen
- Brainport Eindhoven
- Siemens
- LOFAR
- SKA Network Australia and South-Africa
- University of Hamburg
- University of Bremen
- IBM
- University of Twente
- Delft University of Technology
- Philips

Please turn over this page for a map of the network and knowledge partners of Sensor Universe

Future

Over the coming decade Sensor Universe will develop a leading international economic cluster around sensor technology, focussing on intelligent sensor systems and ASM (Advanced Semiconductor Materials) technology. The ambition is to introduce sensor technology into Intermediate Vocational Education and Preparatory Intermediate Vocational Education courses, making this a significant field of education. A close collaboration with the North Western part of Germany will be developed; with the University of Bremen and with OFFIS in Oldenburg.



SENSOR TECHNOLOGY

