

SENSORS

A proven ecosystem to develop and scale dual-use sensors



Advanced Defence & Industry Testbeds

#1st 5G Military Testbed – defence-grade 5G testing environment at the Ādaži military base

100+ IoT & Robotics Testbeds – large-scale testing for robotics, logistics and space technologies



Acoustic drone detection

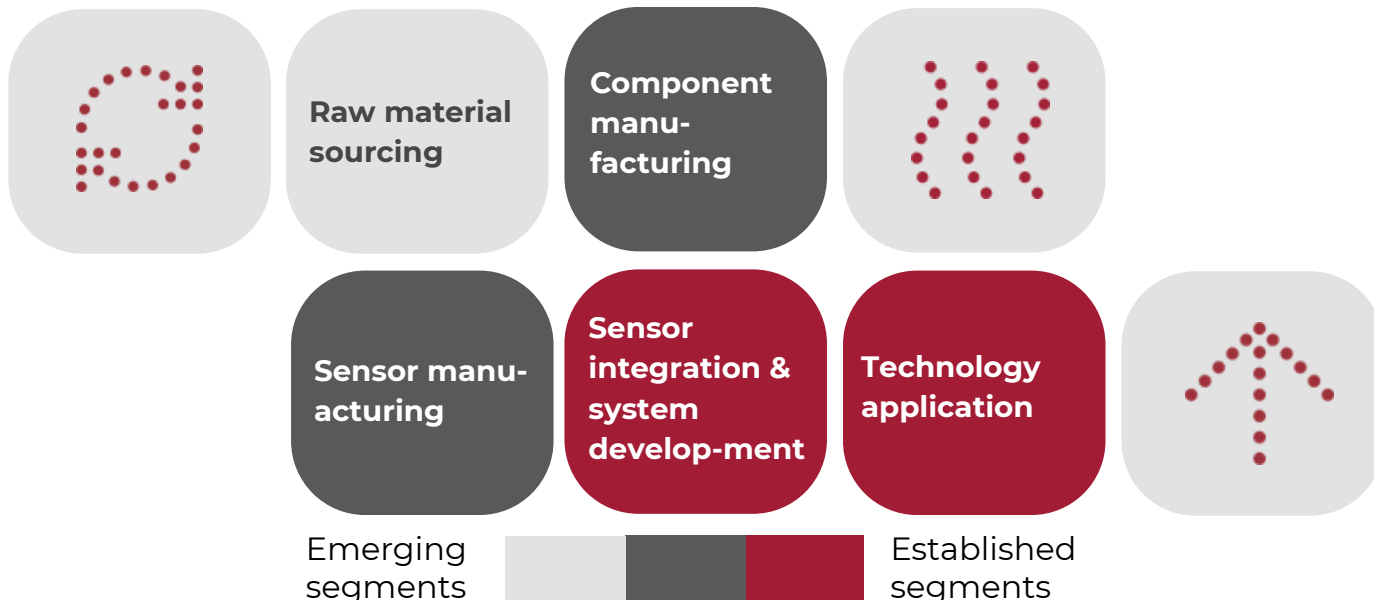
#1st EU country to introduce acoustic drone sensors for airspace security (post-Ukraine war deployments).



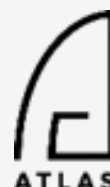
Dual-use gas sensing technologies

Institute of Solid State Physics has created the OG Sense gas sensor that detects ammonia and other gases - also useful in chemical safety applications.

Sensor value chain



Leading companies

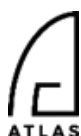


A proven environment to build and scale dual-use sensor solutions



Origin Robotics

Operational deployment of EO/IR sensor technologies in autonomous drone platforms



Atlas

Sensor adaptation and optimisation for defence-grade performance



SAF Tehnika

Global-scale manufacturing of connectivity and sensor-enabled IoT solutions



Ardlat

Advanced drone platforms enabling fibre-optic and IR sensor integration

Relevant Education Institutions



Benefit from strong scientific capacity and engineering talent

Institute of Solid State Physics

Market-oriented R&D in advanced sensor materials and photodetectors

Riga Technical University

Rapid prototyping and system integration for scalable sensor products

Institute of Electronics and Computer Science

Partner-ready R&D for rapid prototyping and field testing

Transport and Telecommunication Institute

Reliable data transmission and connectivity for operational sensor systems