MISSION Latvia

SEMICONDUCTORS

Historical semiconductor know-how with more than 60 years of experience

5.9 % CAGR
forecasted annual growth of semiconductor exports in Latvia by 2026 compared to 2021

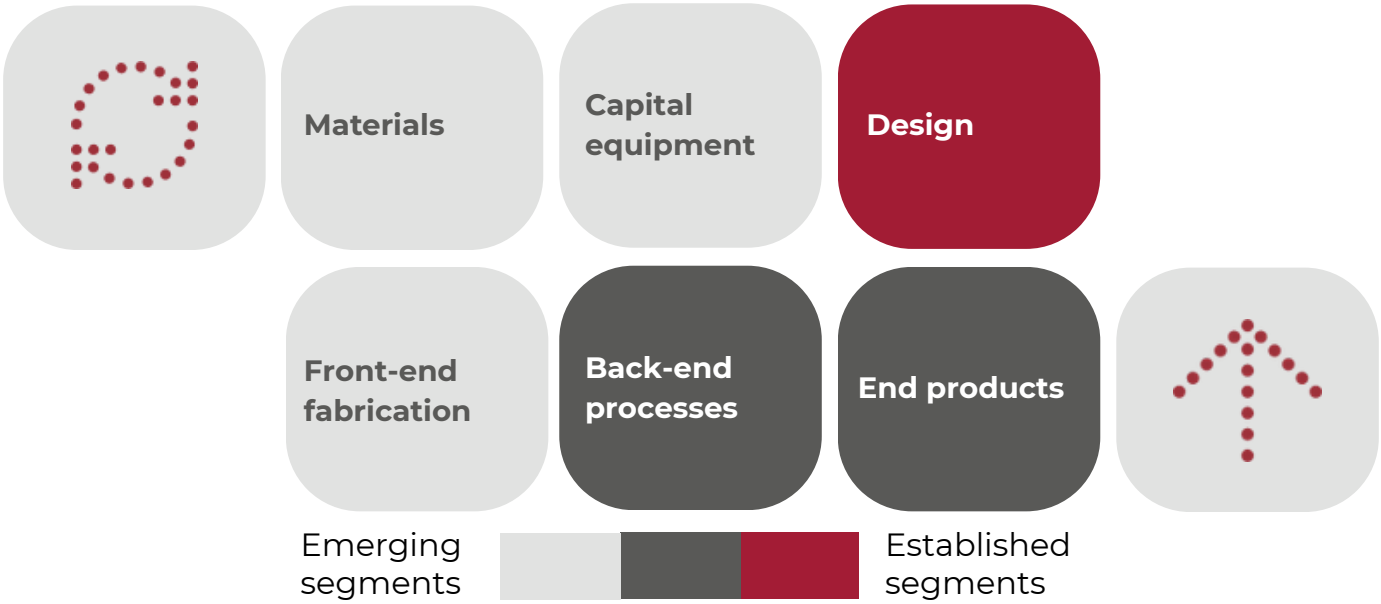
60+ years
Expertise in semiconductors

2 worldrecords
in Silicon photonics technologies for high-speed optical interconnects

~1 % water withdrawal ratio
Latvia's freshwater availability far exceeds domestic use, with one of the lowest water withdrawal ratios in the EU

National Microchip Competence Centre
is being established under the EU Chips JU initiative, enhancing research–industry collaboration and applied development capacity

Microchip value chain



Leading companies

MIKROTIK
SIDRABE
SAF
Imt
FOS FIBER OPTICAL SOLUTION
BSI BALTIC SCIENTIFIC INSTRUMENTS
R ALFA
KEPP EU
FALCON SAPPHIRE
RD ALFA

MISSION Latvia

An integrated semiconductor ecosystem with proven companies across design, RF systems and manufacturing equipment

MikroTik
Globally scaled hardware platform with in-house electronics and silicon-adjacent expertise.

SAF Tehnika
Market-proven RF and microwave technology developer with deep chip-level integration.

Sidrabe
Industrial-grade thin-film and vacuum deposition systems for semiconductor manufacturing.

RD Alfa
Specialised microelectronics and semiconductor device engineering with defence and space pedigree with more than 60 years of experience

Relevant Education Institutions

INSTITUTE OF SOLID STATE PHYSICS UNIVERSITY OF LATVIA

RIGA TECHNICAL UNIVERSITY

INSTITUTE OF ELECTRONICS AND COMPUTER SCIENCE

UNIVERSITY OF LATVIA

VENTSPILS UNIVERSITY OF APPLIED SCIENCES

Partner-ready semiconductor R&D enabling rapid prototyping and global value-chain integration

Riga Technical University
Partner-ready research in microelectronics, materials and semiconductor technologies, enabling fast device design iteration and technology validation.

Institute of Solid State Physics
Advanced know-how in semiconductor materials, nanostructures and photonics, supporting high-performance device development and technology differentiation.

ISSP Nanotechnology centre
Cleanroom infrastructure built for advanced semiconductor and thin-film development.ISO class 4–8 cleanrooms (650 m²) with state-of-the-art nano- and microfabrication equipment.

Institute of Electronics and Computer Science & Ventspils University ofApplied Sciences
Cross-institutional collaboration connects research to industry, accelerating the transition from fundamental science to commercial applications.

Source: KPMG study and expert interviews