

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



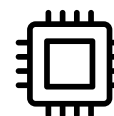
2 worldrecords

in Silicon photonics technologies for high-speed optical interconnects



~1 % water withdrawal ratio

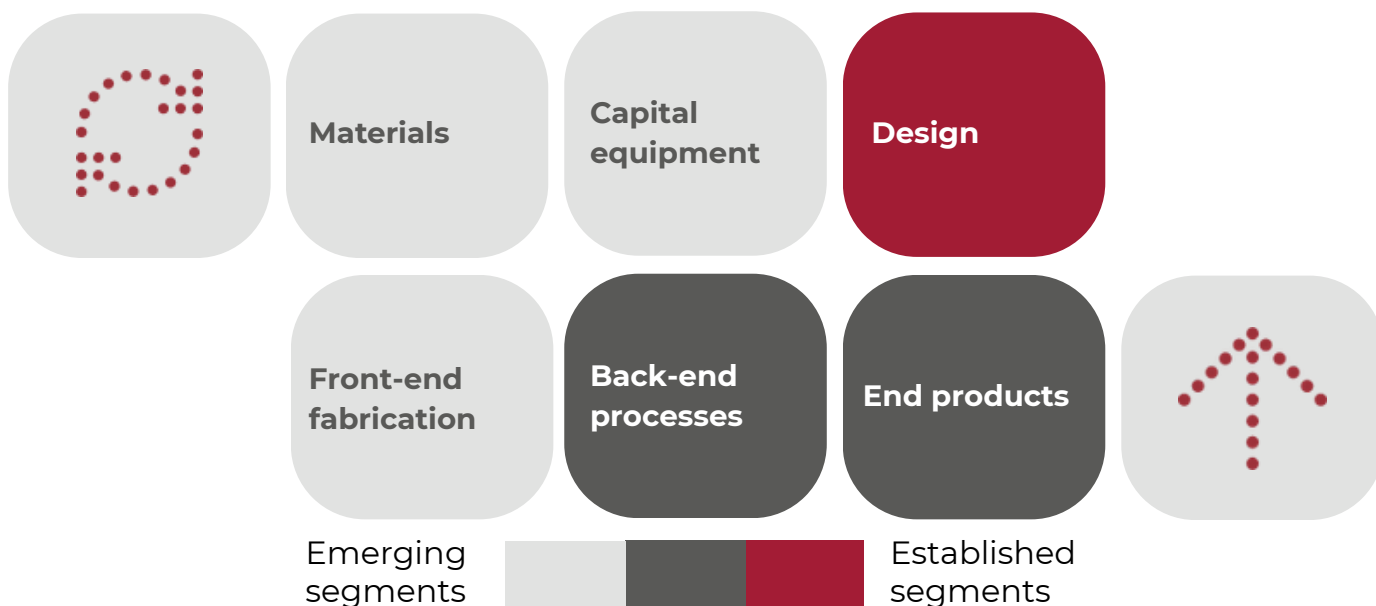
Latvia's freshwater availability far exceeds domestic use, with one of the lowest water withdrawal ratios in the EU



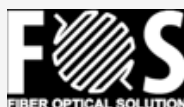
National Microchip Competence Centre

is being established under the EU Chips JU initiative, enhancing research-industry collaboration and applied development capacity

Microchip value chain



Leading companies



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



UNIVERSITY OF
LATVIA

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 of Applied Sciences

Cross-institutional collaboration connects research to industry, accelerating the transition from fundamental science to commercial applications.