

## Latvia (LV)

Latvia currently has no national initiative for digitising industry but in 2014 launched the *National Industrial Policy Guidelines 2014 -2020*.<sup>1</sup> Among others, these guidelines aim to support industry's digital innovation on a national level. Areas which the government regards as having the most potential in relation to Industry 4.0 are: ICT, autonomous vehicles, precision medicine and robotics. The proposed vision and strategy of Latvia is called "*Data Driven Nation*"<sup>2</sup>, and conceptually aligns with core principles of Society 5.0, by strategically nurturing high-tech industries and promoting the use of big data for innovation.

The goal of the Industry 4.0 Implementation Package in Latvia is to raise awareness of the Industry 4.0 concept, emphasising the benefits of cross-sectoral collaboration based on the use of ICT solutions for the development of innovations. It is important to highlight that one of the financial instruments through which the government aids in developing digitalization and supporting R&D is the "Competence Centres" platform. In order to support development of new products and technologies in Latvia there are currently 8 Competence Centres in areas supported by Latvia's RIS3 strategies. The aim is to increase the competitiveness of enterprises by facilitating research and industrial cooperation in new product and technology development projects by using digitalisation as a main concept.

On a **national level** Latvia has 3 *Digital Innovation Hubs* (2 fully operational and 1 in preparation status) covering various market domains (agriculture, fishing, construction, manufacturing (food products, textiles, chemicals, basic and fabricated metal products, electrical and optical equipment, machinery, electrical equipment), transport, electricity, public administration, education and health) through a large spectrum of technology areas presented as follows:

- Additive manufacturing (3D printing)
- Advanced or High-performance computing
- Artificial Intelligence and cognitive systems
- Augmented and virtual reality, visualization
- Broadband and other communication networks (e.g. 5G)
- Cloud computing
- Cyber security (including biometrics)
- Data mining, big data, database management
- Gamification
- ICT management, logistics and business systems
- Interaction technologies (e.g. human-machine Interaction, motion recognition and language technologies)
- Internet of Things (e.g. connected devices, sensors and actuators networks)
- Internet services (e.g. web development, web production, design, networking, and e-commerce)
- Location based technologies (e.g. GPS, GIS, in-house localization)
- Micro and nano electronics, smart system integration
- New Media technologies
- Photonics, electronic and optical functional materials
- Organic and Large Area Electronics (OLAE)

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<sup>1</sup> National Industrial Policy Guidelines, 2014 -2020 [https://em.gov.lv/files/uznemejdarbiba/finl\\_en.pdf](https://em.gov.lv/files/uznemejdarbiba/finl_en.pdf)

<sup>2</sup> Cooperation on Data Driven Nation development in Latvia, <https://joinup.ec.europa.eu/document/cooperation-data-driven-nation-development-latvia>

- Robotics and autonomous systems
- Screens and display technologies
- Sensors, actuators, MEMS, NEMS, RF
- Simulation and modelling
- Software as a service and service architectures

On a **regional level**, each hub's activities seem to be aligned with the RIS3 strategies. A concise list of all hubs on national and regional level is presented as follows:

### 1. Fully operational DIHs

Hub name	City	NUTS2 region	Country	Smart Specialisation (SS)	Link to SS	AI	HPC	Cyber Security	Association to EU-funded project
Latvian IT Cluster	Riga	Latvija	Latvia	General innovation	Advanced ICT	X	-	X	"Smart Factories in the new EU Member States" project
Ventspils High Technology Park (VHTP)	Ventspils	Latvija	Latvia	Manufacturing	Smart materials, technology and engineering	X	X	-	-

### 2. In preparation DIHs

Hub name	City	NUTS2 region	Country	Association to EU-funded project
TechHub Riga	Riga	Latvija	Latvia	-

### 3. RTOs/universities that had a DIH role in an EU project<sup>3</sup>

None

### 4. Regions in Latvia that have no DIHs

None

<sup>3</sup> Data available in CORDIS ([http://cordis.europa.eu/home\\_en.html](http://cordis.europa.eu/home_en.html)) and in the European Commission databases.