

An overview of RISEBA's digital technology infrastructure, resources and areas of development

This report summarises RISEBA's digital technology infrastructure, which supports the delivery of teaching, research, creative activities and administrative processes. The information is structured according to areas of technology use, with particular emphasis on computer hardware, network infrastructure, artificial intelligence and virtual reality solutions, audiovisual infrastructure, digital research resources and planned technological investments.

1. Summary of the digital infrastructure

RISEBA's digital infrastructure is designed as a set of mutually complementary technological resources, covering general IT provision, specialised computer labs and media laboratories, artificial intelligence and virtual reality technologies, audiovisual equipment, lecture recording and streaming solutions, as well as digital research resources.

According to the available information, RISEBA has 344 computers at its disposal, including 75 laptops and 92 Apple computers. There are 309 computer workstations available for study purposes, of which 268 are accessible to students. The computers run on Microsoft Windows, Microsoft Office or Apple macOS operating systems, are regularly updated and connected to the local network and the internet. The specified internet connection speed is 200 Mbps.

Key elements of the digital infrastructure

Area	Key resources	Significance for studies and research
General IT infrastructure	344 computers; 309 computerised workstations; local area network and internet	Supports day-to-day study, administrative and research work.
AI and computing infrastructure	AI LAB; Copilot+ computer; external GPUs; local LLM usage; multimedia equipment	Supports the use of AI in teaching, research, prototyping and creative work.
Media and creative technology infrastructure	Apple and Windows workstations; Final Cut, Logic, Adobe Creative Suite, DaVinci Resolve; Cinema4D	Enables professional digital content, 3D, video and audio production.
VR and augmented reality infrastructure	VR headsets, 360° cameras, Unity, DALL-E 2, Runway ML, etc.	Enables research in the fields of AI, VR, 360° video and augmented reality.
Audiovisual solutions	Lecture recording systems, projectors, displays, multi-camera broadcasting systems	Supports hybrid and digitally enhanced teaching, recordings and broadcasts.
Digital research resources	Collections of scientific articles, Euromonitor, Statista, VPC, DataverseLV, the planned Pure RIMS	Provides access to research data, digital knowledge management and the development of Open Science.

2. Artificial intelligence and digital research infrastructure

AI LAB is RISEBA's specialised co-working and technology environment for students, lecturers and researchers. It provides access to artificial intelligence solutions, local data processing and specialised multimedia equipment. AI LAB also offers access to more than ten collections of scientific articles and databases of real-market information, including Euromonitor and Statista.

The AI LAB's infrastructure comprises two workstations equipped with the latest-generation Copilot+ AI computers, external GPUs for the local use and development of large language models, a digital audio interface, video cameras, video recording facilities, a graphics tablet and an interactive whiteboard. The laboratory is accessible 24/7 via an electronic booking and access system.

The AI LAB is used both for individual scientific and creative work and for carrying out projects. The documentation mentions the FORCE AI, AI-DCG and digital skills monitoring projects, as well as creative projects. AI technologies are also used in RISEBA's research for the development and further application of the Motival solution in the field of digital skills and education.

In the research institution's self-assessment report, digital technologies are identified as one of RISEBA's research priorities. The specific research area 'Marketing and Communication, Digital Technologies and Innovation' covers digital innovation, the integration of AI into teaching, business and marketing, digital skills and the impact of digital transformation.

3. Computer labs and specialised digital working environments

H2O6 – In 2023, a specialised computer lab was established at the RISEBA Architecture and Media Centre, equipped with 25 Apple Mac Studio M2 computers, high-quality monitors, an optical network, multimedia equipment and a multi-channel sound system. Investment in the modernisation of the computer lab exceeded 120,000 euros.

The computer infrastructure is geared towards the development of digital and audiovisual content. The video editing studios feature 40 Apple and 16 Windows workstations equipped with Apple Final Cut, Logic, Adobe Creative Suite and DaVinci Resolve software, as well as five Cinema4D workstations for 3D modelling and animation.

In the 2024/2025 academic year, RISEBA invested more than 170,000 euros from its own revenue in material and technical resources for the arts programme, including more than 120,000 euros for the modernisation of the computer lab at 4 Durbes Street and 50,000 euros for the creation of the DaVinci Resolve studio. The DaVinci Resolve studio is equipped with Blackmagic Design solutions, including the DaVinci Resolve Advanced Panel, a Mac Studio with Apple M4, and two 27-inch Apple Studio monitors.

4. Audiovisual, sound and visual post-production infrastructure

The H2O6 centre offers specialised audiovisual infrastructure, comprising photo and video studios, video editing suites, a sound studio, and multi-camera recording and broadcasting solutions.

- The video editing studios are equipped with Apple and Windows workstations and professional software for digital content creation.
- Students have access to a multi-camera recording and broadcasting system with eight cameras, as well as professional video cameras, digital cameras and microphones.

- The RISEBA sound studio is equipped with audio recording and editing equipment, including Yamaha N16 and Allen & Heath Q16 mixers and BOSE F1 speakers. Plans are in place to upgrade the facility to a Dolby Atmos spatial audio configuration.
- The colour grading studio is being developed using the Blackmagic Design DaVinci Resolve system, including Advanced Trackball, Search Dial and T-bar control panels, providing a professional digital video colour grading environment.

5. H2O Media Laboratory and VR infrastructure

The H2O Media Lab is a specialised digital technology research environment designed for research into artificial intelligence, augmented reality and 360° video. The laboratory is equipped with desktop workstations featuring RTX 3060 graphics cards, Apple iMac 24-inch Retina 4.5K workstations, and Blackmagic DeckLink Quad 2 and Quad HDMI Recorder systems.

The VR infrastructure comprises Pimax Vision 8K X headsets, InstaPro 360 cameras and digital tools such as Unity, DALL-E 2 and Runway ML. The laboratory provides 24/7 access to PhD students and can be used for research and experimental development purposes.

6. Digital teaching and information resources

RISEBA utilises digital lecture recording and streaming solutions. Fixed lecture recording systems are available on Meža Street (Panopto) and at the H2O6 Centre, whilst a mobile multi-camera system is also used for streaming and recording.

The library provides access to international academic databases and online resources, as well as training for users on how to use databases and research resources. AI LAB complements this infrastructure with access to collections of scientific articles and market information databases, including Euromonitor and Statista.

7. Digital research infrastructure and Open Science

In 2024, RISEBA became a member of the Higher Education and Science IT Shared Services Centre (VPC). This involvement is linked to the development and integration of Open Science practices into DataverseLV and the European Open Science Cloud, promoting the sharing of research data, collaboration and international accessibility.

The scientific institution's self-assessment report identifies the implementation of the Elsevier Pure Research Information Management System as a key area for development. Its aim is to improve research information management and administrative capacity. In the self-assessment, RISEBA's digital infrastructure is described as one of the institution's strengths, with particular emphasis on the ability to acquire up-to-date software solutions, subscribe to academic databases and use plagiarism detection tools.

8. Development priorities

In line with the investments planned for the autumn semester of 2026, RISEBA is continuing to upgrade its digital infrastructure in several study and technology rooms.

- In lecture theatres 316 and 316A at 3 Meža Street, projectors are to be replaced with Samsung 85-inch displays and sound systems.
- In Lecture Theatre No. 102, the projector is to be replaced with a Samsung 85-inch display, a sound system and two Samsung 50-inch screens.
- In Lecture Theatre No. 306, the projector and sound system are to be upgraded.

- The replacement of servers with next-generation solutions is planned.
- At 4 Durbes Street, computer equipment in individual workstations is to be upgraded, and six sets of Sony cameras and other audiovisual equipment are to be purchased.
- The installation of 65-inch Samsung displays is planned for lecture theatres Nos. 212, 213, 214 and 215, whilst the sound system in lecture theatre No. 210 is to be modernised.
- The Film and Video Design building at 9 Aisteres Street is being developed, including plans to relocate, expand and modernise the ‘RISEBA Production’ studio.

Summary

RISEBA’s digital technology infrastructure encompasses both general IT provision and specialised technology environments for studios and research. Particularly noteworthy are the AI LAB, the H2O6 Media Laboratory, professional video, audio and colour post-production infrastructure, the extensive provision of computerised workstations and digital research resources.

The development of the digital infrastructure is closely linked to RISEBA’s research priorities in the fields of digital technologies, artificial intelligence and innovation, as well as to the development of Open Science. RISEBA’s participation in the VPC, the integration of DataverseLV and the European Open Science Cloud, and the planned implementation of the Research Information Management System form the basis for the further digitalisation of research data and information management.

At the same time, RISEBA continues to invest in technology upgrades – modernising servers, computers, displays, audio, video and specialised media equipment – thereby maintaining its digital infrastructure in line with the needs of study, research and the development of creative technologies.