



We use technology such as Arduino and IoT to test innovative didactic methods for monitoring the temperature of a data center remotely.

The project also incorporates Microsoft Teams and the Remote Assist feature to troubleshoot internet connection problems. Additionally, the project utilizes guides through the use of the HoloLens to enhance the learning experience and provide an immersive and interactive way to teach technical skills related to data center management and internet connection troubleshooting.

The project aims to explore new and engaging ways to teach these skills through hands-on experience and technology integration.

At the Kranj School Center, as part of the DIOS project, we explored the use of two interesting technologies in the classroom - 3D printing and the Internet of Things. Both technologies enable added value in learning, new didactic and pedagogical approaches.

During the project, we tested the use of 3D printed objects in various vocational and general subjects such as mechatronics, robotics, geography, history, chemistry, biology and physics. With IoT, we are building an air monitoring system for the classroom with sensors and a web app.

The learning lab, called Lab 42, was set up with the aim of tracking and testing new technologies, training teachers and enriching the use of ICT.



Didactic innovation labs - Digitization expert in VET develops, tests, evaluates, and transfers selected technology-enriched learning environments using AR, VR, 360° videos, IoT and 3D printing.

This is being done with the aim of setting up and operating industry-specific didactic innovation labs and implementing a digitization-specific qualification concept for vocational training personnel.

The industry-specific, physical teaching and learning labs for chemistry, IT, electrical engineering and mechatronics serve to anchor these new technologies in the organization of the DIOS partners and thus in vocational training.



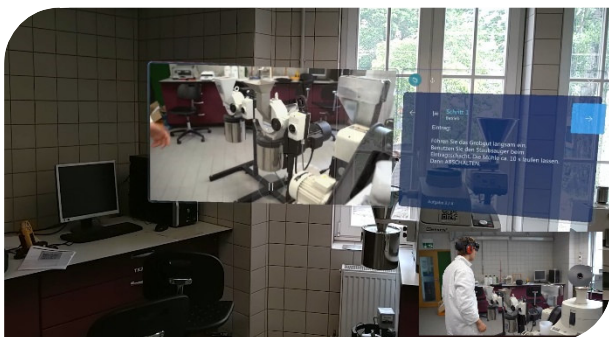
## From practitioners for practitioners: the MI learning lab of SBG Dresden

Which modern media is suitable in practical training in chemistry? How to use that media in the lab or in a training plant in a pedagogical sound way? These are central questions when applying educational technology like Augmented Reality, 360° videos, and IoT solutions in VET training.

The MI - learning lab of SBG Dresden supports tailor-made media creation, media integration and media evaluation. Experienced industry experts and VET trainers guide visitors to doing things not only better, but deeper. By deeper we mean to use technology as a tool to achieve specific learning goals.

SBG Dresden is an inter-company training centre focussing on practical training in chemistry, biology, and physics as well as craftsmanship such as painting trade.

The MI learning lab is made from practitioners for practitioners, from our focus professions and beyond.



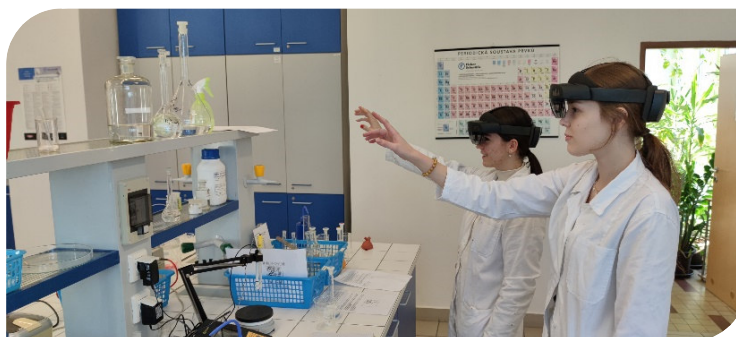
### EdTech Laboratory Pardubice

We are excited to invite anyone who is interested to modern technologies in education and learn innovative ways of teaching. We can share our experience with immersive technologies, 360-degree photos, videos and more. In the end, we all need to be part of the change.

Technology can't do it completely, but equally, teachers can't do it alone.

Visit us at [SPSCH Pardubice](#).

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Welcome to STRAX, the learning and experience center of the Graafschap College.

Here, teachers can gain experience with educational innovation supported by the latest technologies.

From STRAX we offer support for teaching with ICT, for example with: Augmented, Virtual, Mixed Reality, Podcasting, Artificial Intelligence and various forms of audio and video technologies.

In addition, at STRAX we have an extensive media library where employees of the Graafschap College can borrow hardware and software, such as hololenses, VR glasses, podcast sets, various cameras and drones.