modum lab

Modum Education

Virtual reality classroom

Digital materials for fascinating lessons
in school

Modum Education

We create spectacular digital materials that make the educational process more instructive, interactive, and exciting.

- For interactive boards and panels
- For VR headsets and AR glasses
- For smartphones and tablets
- For personal computers

✅ **Best IT solution for schools**

Modum Education Platform won the national Digital Summits 2021 award

✅ **Digital transformation of education**

Runner up in the Education Digitalization category at the CIPR DIGITAL 2022 awards

✅ **Approbation from the Far East Federal University National Technological Initiative**

We've passed the nationwide approbation program for educational VR/AR applications from the Far East Federal University National Technological Initiative Center

✅ **Scientific assessment by the Russian Academy of Sciences**

Our solutions are recommended for use in educational institutions

Advantages of our solutions

Visibility

Can reveal complex and hidden processes.

Immersiveness

The whole class is engaged in the interactive educational process.

Simplicity

No technical skills are required to use our solutions.

Adaptivity

Perfectly integratable into lesson structures as an additional asset.

Compatibility

Materials into account both the school's educational program, and the Federal Educational Standard requirements.

Expert-provided materials

The materials have been developed by leading pedagogues and training specialists in our country.
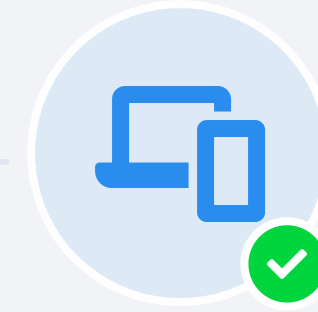
End-to-end solution

Modum Education virtual classroom comprises a digital content management system, a catalog of interactive materials that can be played or run during lessons, and a range important equipment.
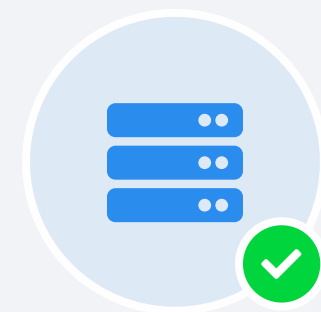
Management system

Catalog of products

Classroom equipment

Content management system

The system delivers, updates and controls the contents of VR equipment, computers, panels and mobile devices in the classroom.

Creation and management of user groups, management of access rights to educational materials

Assigning tasks for VR laboratories and 3D simulators, gathering walkthrough statistics

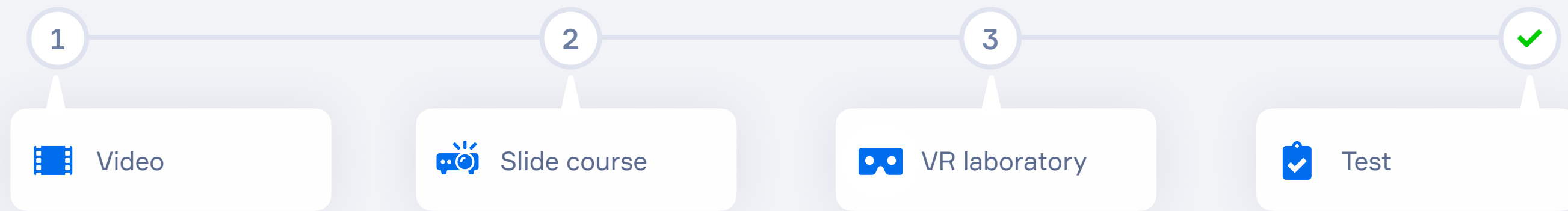Classic formats support (long reads, slide courses, video, pdf, tests, etc.)

Simple for students

Using Launcher (a special application compatible with PCs, mobile and VR devices) pupils and students can get access to all assigned courses, laboratories and simulators.
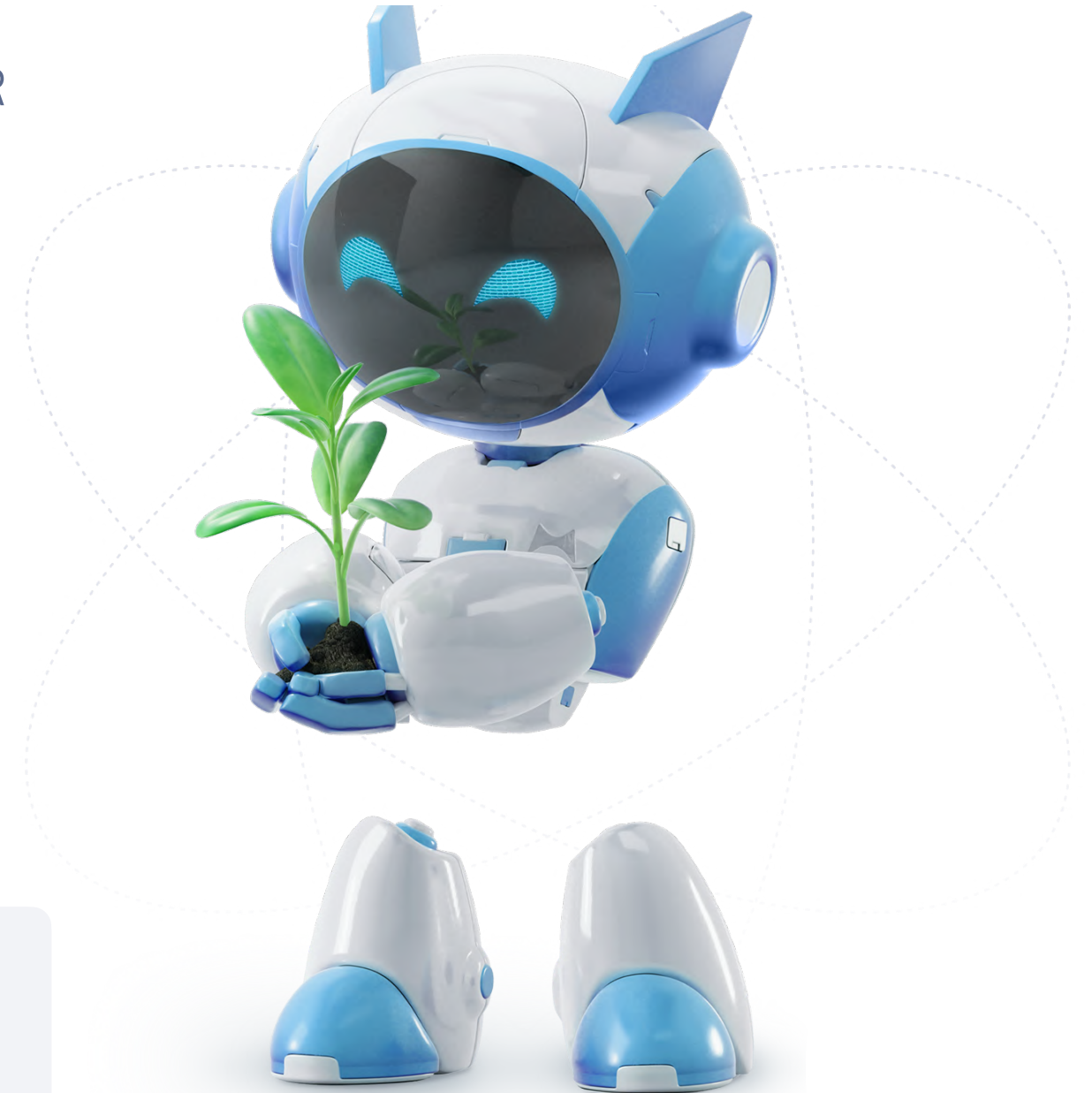
Hybrid courses

The system allows for seamless education using all formats to develop numerous skills, knowledge and expertise.

1 — 2 — 3 — ✓

1 Video

2 Slide course

3 VR laboratory

Test

Formats supported by the platform:

Video

360-degree-video
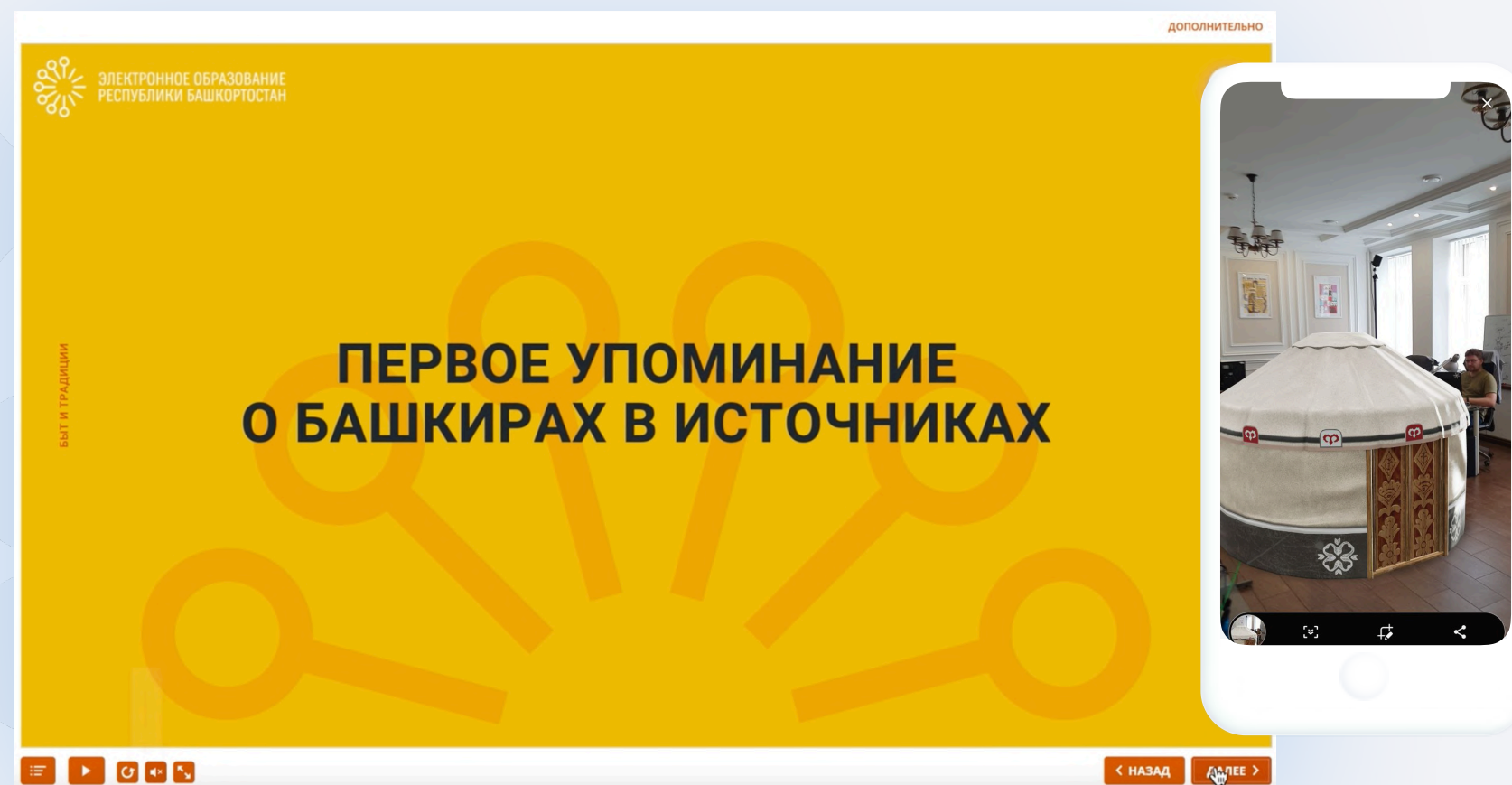
Tests

Long reads

Slide courses

3D materials

VR laboratories

Web applications
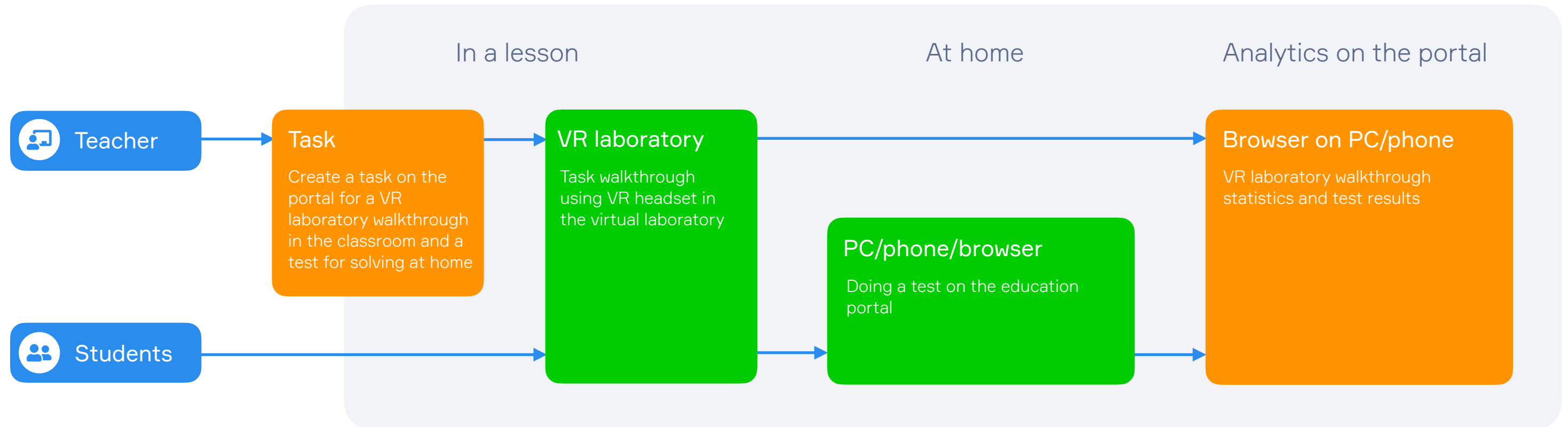
Example of a hybrid course

The Bashkortostan history and culture course comprises 103 topics, including interactive long reads, videos, virtual tours, and 3D models and animations viewable in a browser or in AR mode.

[Read more about the course](#)

[Watch](#)

How it works in a classroom equipped with VR devices

In a lesson | At home | Analytics on the portal

Teacher

Task
Create a task on the portal for a VR laboratory walkthrough in the classroom and a test for solving at home

VR laboratory
Task walkthrough using VR headset in the virtual laboratory

Browser on PC/phone
VR laboratory walkthrough statistics and test results

PC/phone/browser
Doing a test on the education portal

Students

1. The teacher uses the education portal to assign tasks to be done in the VR laboratory in the classroom and a test to be done at home.

2. The students in the classroom put on VR headsets and log in to their accounts to open the assigned task by going over to the laboratory and performing the task.

3. At home, the student logs in via a browser on PC or a smartphone and does the test on the education portal.

4. VR laboratory work and test statistics are shown in the virtual teacher's dashboard.

Technical options

⧗ **Easy to customize**
All you need is to install the application on the device and it'll be fully ready for work and to launch of educational materials

🖥 **Supported equipment**
MEP supports a whole range of devices used in the course of training

📶 **Working in poor internet connectivity conditions**
The initial architecture of the platform takes into account the possibility of poor internet connection (content downloaded to target device, disconnect protection)

🖳 **Scalable**
The platform was tested on projects of varying scope from thousands to tens of thousands users

Catalog of finished products

For interactive panels and computers

- Biology. Cytology
- Physics. Electricity

For VR headsets

- Physics. Magnetism
- Physics. Circuit assembly
- Chemistry
- Fire safety
- Vocational training
- Communication simulators

Digital workshops
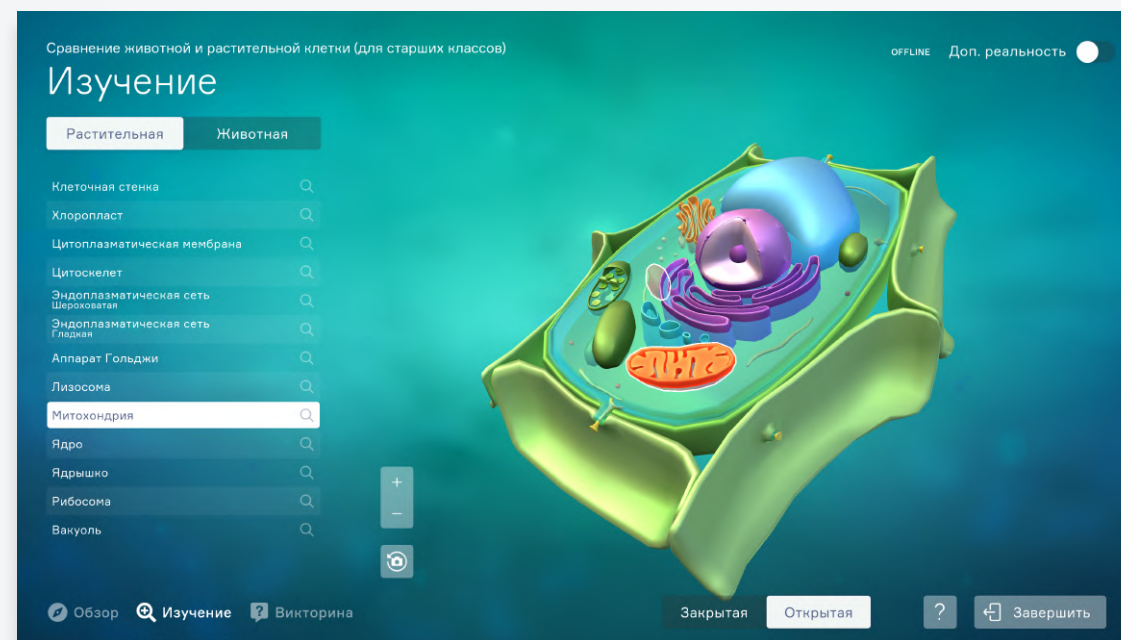
- Digital workshop on Robotics in Technology lessons

All Modum Education products are registered in the national software register
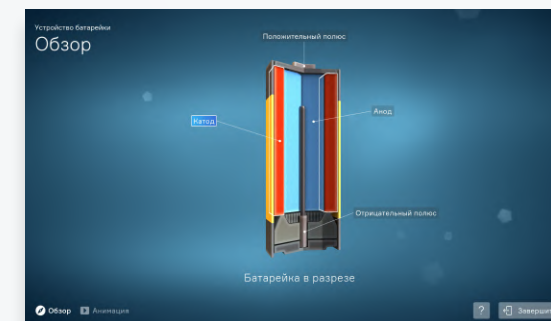
For interactive panels and computers

Biology. Cytology

The 3D package of educational materials makes it easy to study the structure, functions and life span of cells from 5th to 11th grade.
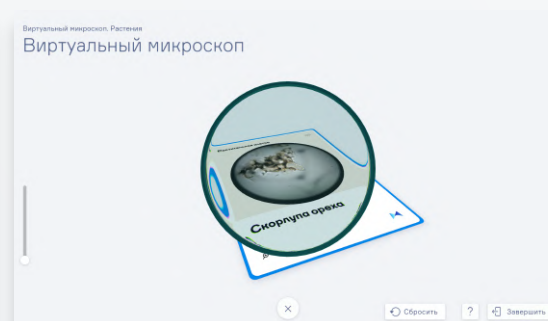
Physics. Electricity

Training package for introduction to electricity with a range of interactive animations and experiments for 8th grade.
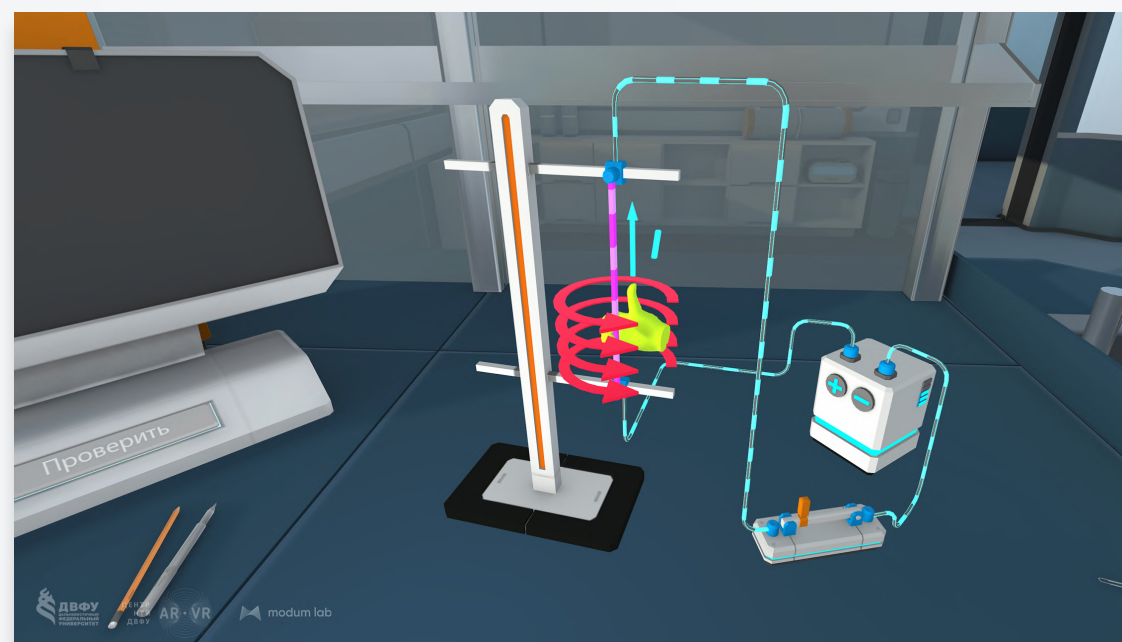
For VR headsets

Physics. Magnetism

VR package of educational materials for studying Magnetism and EM induction and preparation for the Basic State Examination.
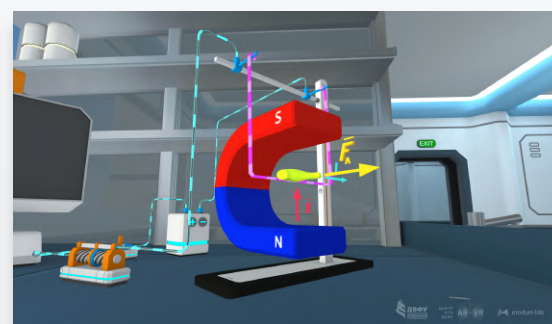
Physics. Circuit assembly

VR task book on circuit assembly for 8–9th grade.

For VR headsets

Chemistry

Virtual chemistry laboratory for teaching and conducting tests in grades 8–11.

Fire safety

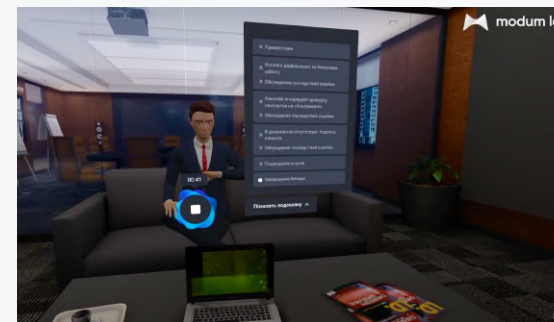Practical training simulator for fire safety.

For VR headsets

Vocational training

You can try out the role of an employee at a working place and perform certain tasks.

Communication simulators
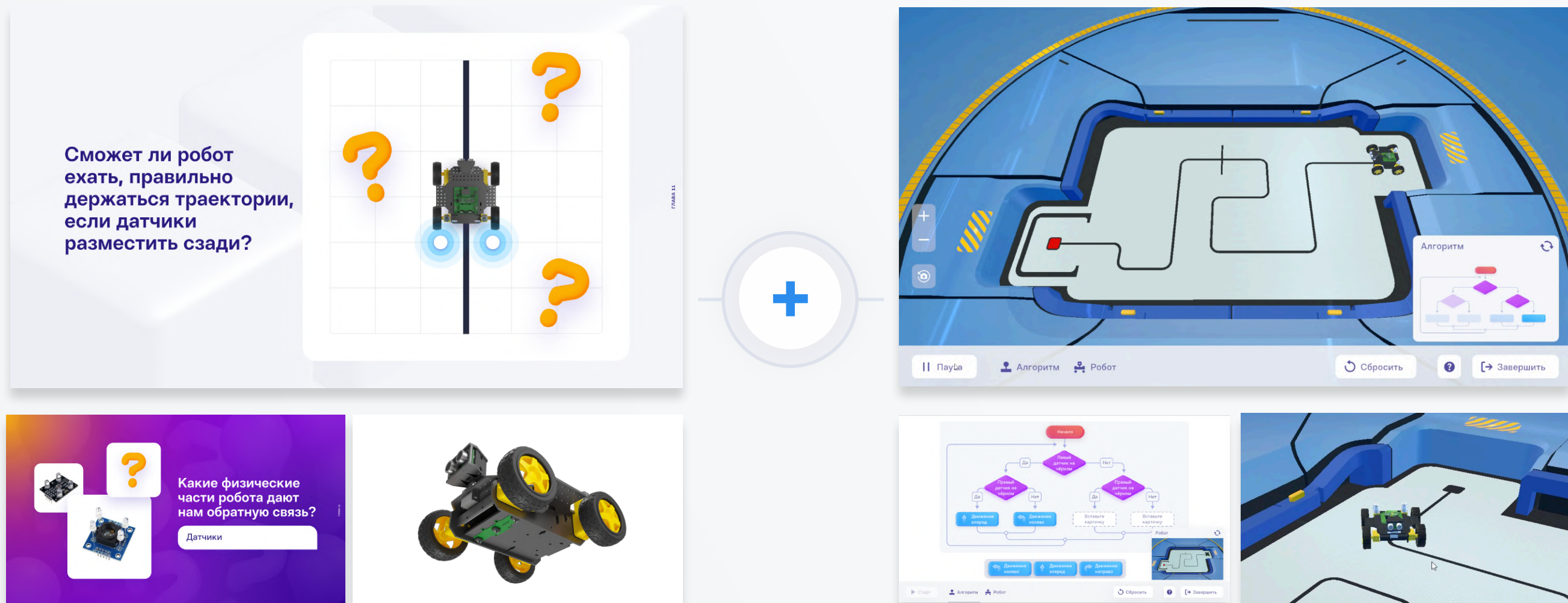
VR simulator for giving public speeches, and negotiation courses for conducting meetings and giving feedback to employees.

Digital workshops

Digital workshop on Robotics in Technology lessons

A range of interactive materials for conducting lessons and practical workshops in digital form, accounting for available equipment.

Didn't find the right solution for your purposes? We can:

Develop an individual project for you!

- ✔ Analyze your goals and challenges, and gather requirements

- ✔ Determine the optimum format and technology

- ✔ Go through the available scenarios

- ✔ Develop and integrate the solution

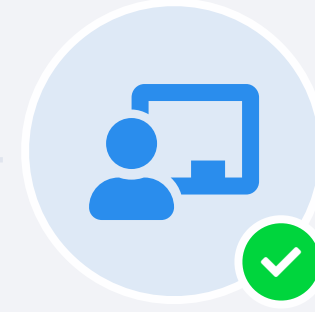- ✔ Provide methodical materials and necessary support

Включение лампочки

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Equipment

Along with our content management and product range, Modum Lab is ready to support you in procuring the necessary equipment for launching and running the interactive materials.
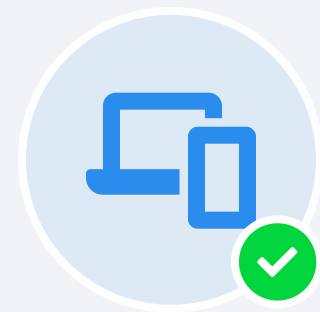
PCs and laptops for mobile classrooms

VR headsets

Interactive panels

The institution will get

A range of easy-to-use visual VR and 3D materials for conducting lessons at school

Central access to virtual laboratories and simulators, as well as to completion statistics

Laboratories with simulators and methodological materials are all kept on a single platform

Software can be delivered with the necessary equipment

Modum Lab is a technological education company.

Our digital solutions help cultivate professional skills.
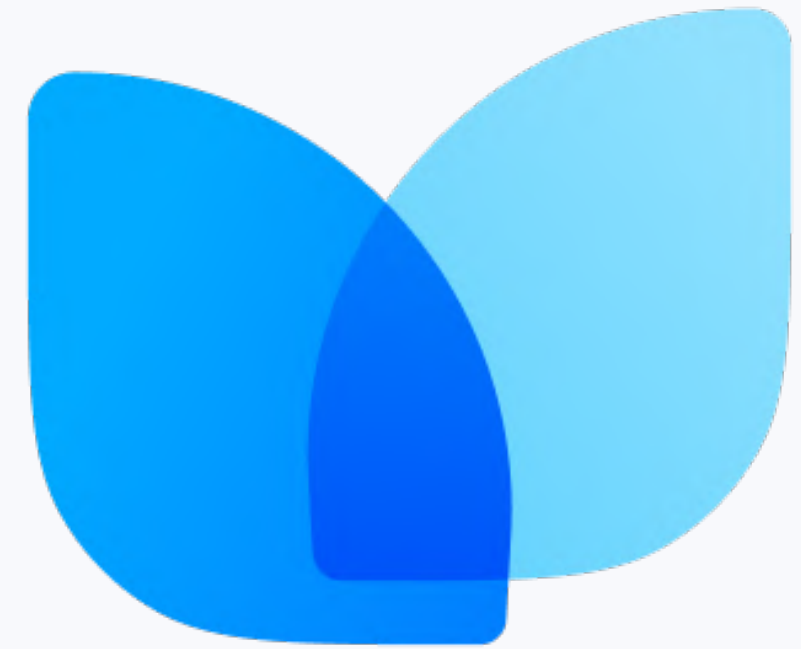
15+
years in the IT market

250+
projects implemented

8
years in VR/AR

60
experts

modum lab

Learn more about our solutions

Contact us via email or our site form:

@   edu@modumlab.com

🗔   modumlab.com/education

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