

e-Universities

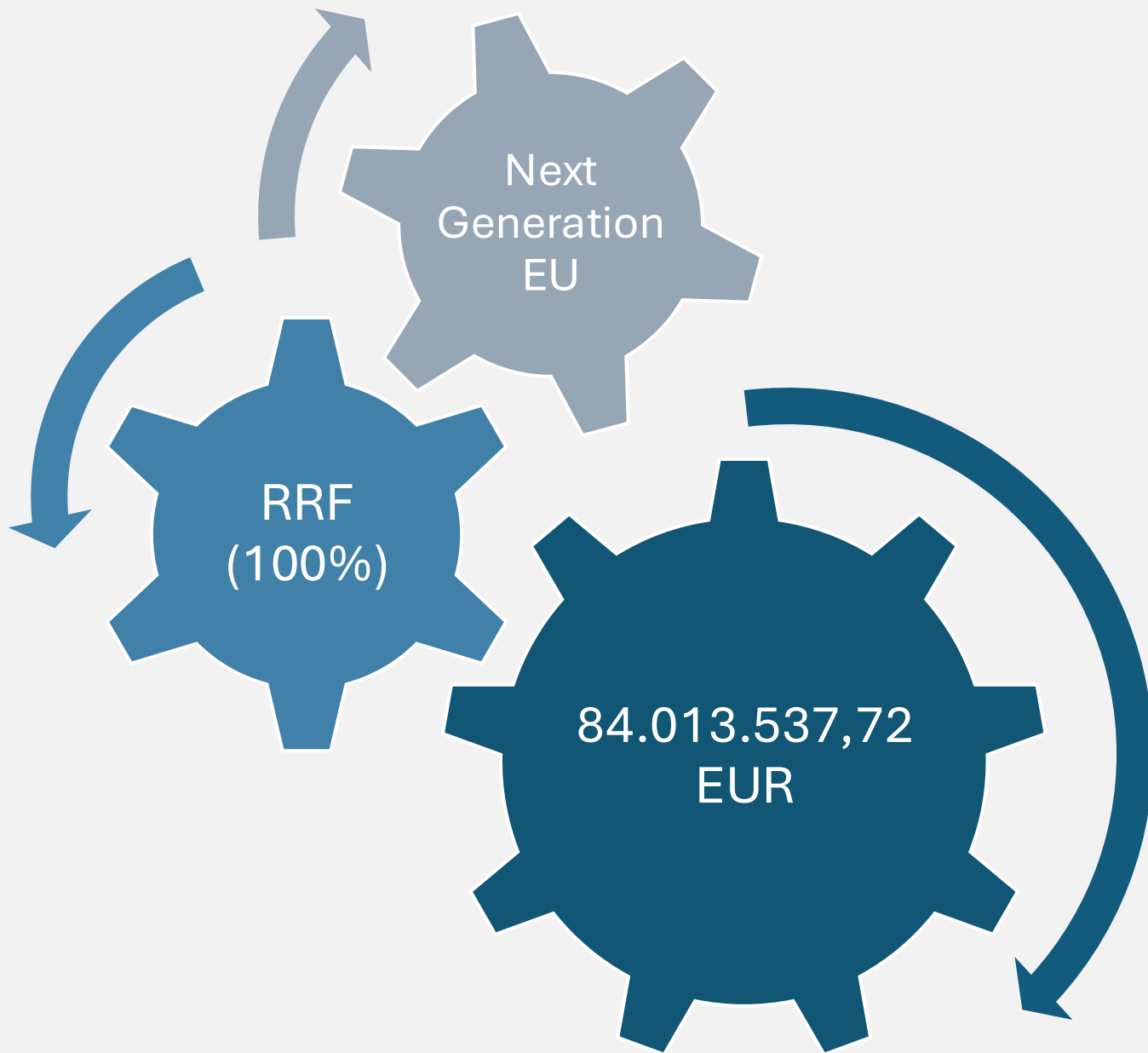
Digital Transformation of Higher Education

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**Croatian Academic and
Research Network -
CARNET**

The University Computing
Center (Srce)

The National and University
Library

The Agency for Science and
Higher Education



Digital Transformation of Higher Education



Improving digital teaching infrastructure



Introducing digital teaching tools



Strengthening the digital competences of higher education staff



Elements of the e-Universities Project



Network
Connectivity



Equipment



Services



Cyber
Security



Education
and
Research

Network Connectivity

**Situation
Assessment
and Needs Analysis**

**Design, Execution and
Implementation of the
Passive and Active
Network Equipment**

Upgrade of the CARNET Backbone

**Improvement of the technical conditions of
the CARNET aggregation hubs**



Network Connectivity

Advantages of a new, advanced network infrastructure:

- ✓ Higher network performance – faster and more reliable network
- ✓ Advanced security measures and compliance with personal data protection regulations
- ✓ Easier (centralized) and more efficient management of the entire network system
- ✓ 25-year warranty on passive network infrastructure (cabling) and 7-year warranty on active equipment

Workshops for the IT staff:

- **Introduction to network equipment and network management and monitoring system**
- **Introduction to firewall**

103 HEI (278 locations) will be equipped with advanced network infrastructure

Equipment

- 🎯 Provide institutions with all the opportunities for the creation and production of quality audio/video content:
- ✓ High-quality equipment - prerequisite for audio/video content production
 - various educational activities
 - hybrid or online teaching

Enabling modern and flexible digital learning environments



Equipment

- Recording studios
- Hybrid lecture rooms
- Portable sets for recording and online streaming of lectures
- Presentation rooms
- Complete simultaneous interpretation system
- Individual equipment (projectors, interactive screens, presentation screens, etc.)



Equipment



PILOT STUDY

21 HEI participated in the Pilot study



EQUIPPING

Equipping institutions in line with their statement of interest from the catalog



LARGE MULTIMEDIA

STUDIOS

Establishment and equipping 4 large multimedia studios for audio-visual recording

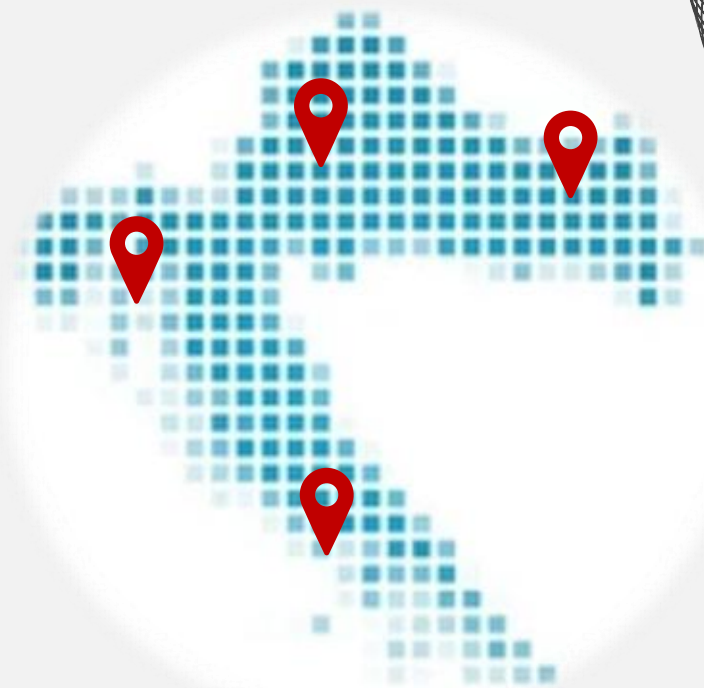
Equipment

MultiLab – demonstration laboratories and multimedia studios



Zagreb, Osijek, Rijeka, Split

Spaces where the latest technological solutions can be tried out or borrowed, and workshops, demonstrations and professional meetings can be organized



Equipment

MultiLab Zagreb Virtual Walk

- VR Technologies
- Lightboard
- Interactive Screen with Hologram Display
- 360 Camera and Drone



Equipment



Digital learning booths are intended for independent or collaborative digital learning, remote teaching, and participation in meetings, workshops, and conferences at the National and University Library.

Activity carried out by The National and University Library

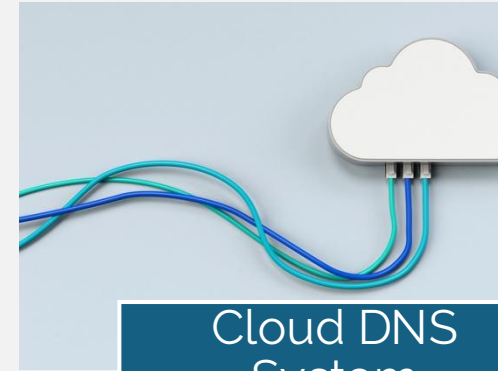
Services



Server Backup System



Server monitoring system



Cloud DNS System



Cloud Ticketing System



Repository of digital educational content



Video Content Management System - Medusa

Licences for the use of software solutions for the creation of Digital Educational Content and Interactive Video Lessons

Services



Information System of
Records in Higher
Education (**ISeVO**)



Information System of
Indicators and Quality
(**ISPiK**)

Activities carried out by The University Computing Center (Srce)

Services



Croatian Higher Education
Library System in the cloud

- ✓ Access to 4.1+ million bibliographic records and 400+ digital collections
- ✓ More than 500,000 electronic journal titles available
- ✓ Direct access to digital resources and international document delivery
- ✓ New Alma/Primo VE platform with AI-powered search and research tools
- ✓ Integrated management of reservations, loans, digitization requests and interlibrary lending

Activities carried out by The National and University Library

Cyber Security



CYBERSECURITY
COMPETITIONS FOR
STUDENTS



SECURITY TESTING OF
APPLICATIONS AND SERVICES
DEVELOPED IN THE PROJECT



SECURITY POLICY TEMPLATES +
CONSULTING ON
IMPLEMENTATION



MANUAL ON IMPROVING
RESPONSE TO CYBER
SECURITY INCIDENTS



CONTENT DEVELOPMENT
AND EDUCATION IN THE FIELD
OF CYBER SECURITY

Education & Research



- Strengthening the capacities of project beneficiaries
 - for the effective use of multimedia equipment provided through the project,
 - for the implementation of hybrid and online teaching,
 - for the creation of digital educational content,
 - increase cybersecurity awareness

through the following forms of training and education:

- Lectures, workshops, and webinars
- Access to self-learning educational materials (video lessons, interactive microlearning modules, and e-courses)

meduza

Unesite pojam za pretraživanje

Umijeće pripovijedanja 4
(Ton, stil i ritam u pripovijedanju)

Videolekcija „Umijeće pripovijedanja 4 (Ton, stil i ritam u pripovijedanju)” istražuje kako način govora oblikuje doživljaj priče i utječe na angažman publike. Kroz intervju se objašnjava utjecaj tona, stila i ritma na percepciju priče te njihova svjesna upotreba u komunikaciji. Uspoređuju se formalni, neformalni i emotivni stilovi, uz naglasak na važnost tempa i stanki.

Objavljeno: 12.06.2025
Unutar kategorije: CARNET
VoD paketi: Pretprodukcija

★ Spremi sadržaj

Planiranje i provedba hibridne nastave

Odabir obrazovnih tehnologija

Primjeri najčešće upotrijebljenih ...

Pretraži...

Hrvatska akademska i istraživačka mreža - CARNET

Obrazovne tehnologije

Alati za sastanke i predavanja

Alati za online sastanke i predavanja omogućuju sinkronu komunikaciju profesora i studenata te su postali nezaobilazni u provedbi hibridne i online nastave.

3/4

meduza

Unesite pojam za pretraživanje

Umijeće pripovijedanja 5
(Angažiranje gledatelja kroz interaktivno...)

Videolekcija „Umijeće pripovijedanja 5 (Angažiranje gledatelja kroz interaktivno pripovijedanje)” istražuje kako aktivno uključivanje gledatelja povećava angažman, potiče kritičko razmišljanje i poboljšava učenje. Objasniava razliku između pasivnog slušanja i aktivnog sudjelovanja te prikazuje metode interaktivnog pripovijedanja (pitanja, uloge, pozivi

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★ Spremi sadržaj

Planiranje i provedba hibridne nastave

Osnovni pojmovi hibridne i online nastave

Oblici nastave

Pretraži...

Hrvatska akademska i istraživačka mreža - CARNET

Oblici nastave

Online nastava

Ovaj oblik nastave u cijelosti se odvija putem digitalnih platformi i tehnologija te nije vezan uz fizički prostor (učionicu). Odvija se na daljinu.

4/4



Video Lessons

Interactive microlearning modules



Education & Research

A close-up photograph of a person's hands typing on a silver laptop keyboard. The person is wearing a light blue button-down shirt and a silver ring on their left ring finger. The laptop is on a desk, and the background is a blurred office environment with a window showing a cityscape.

www.hr The Portal for Digital Education and Emerging Technologies

- Designed to empower higher education staff for effective teaching and learning in digital environments.
- Central hub for sharing knowledge, experiences, and trends related to the use of digital technologies in education among higher education institutions, educational organizations, research centers, and industry.
- Articles, news updates, interviews, and audio/video podcasts

Education & Research

CARNET Academy: Digital Competence Development Program

- Training program for teaching and management staff
- Focus on hybrid and online teaching skills
- Based on a dedicated curriculum and user needs analysis
- Primarily delivered online through modular learning

Four One-Year Programs:

- Managing Digital Transformation in Education
- E-Learning in Higher Education
- Designing Teaching with Digital Technologies
- AI and Responsible Integration of Digital Technologies

+ Additional Elective Module within all four programs
„Inclusive Access through Assistive Technology”

Education & Research



The research on the development and representation of digital competencies among students at Croatian higher education institutions



Action Research – involving 21 higher education institutions where multimedia equipment has been piloted



Project Impact Research – focused on qualitative and quantitative evaluation of all project elements and their overall impact



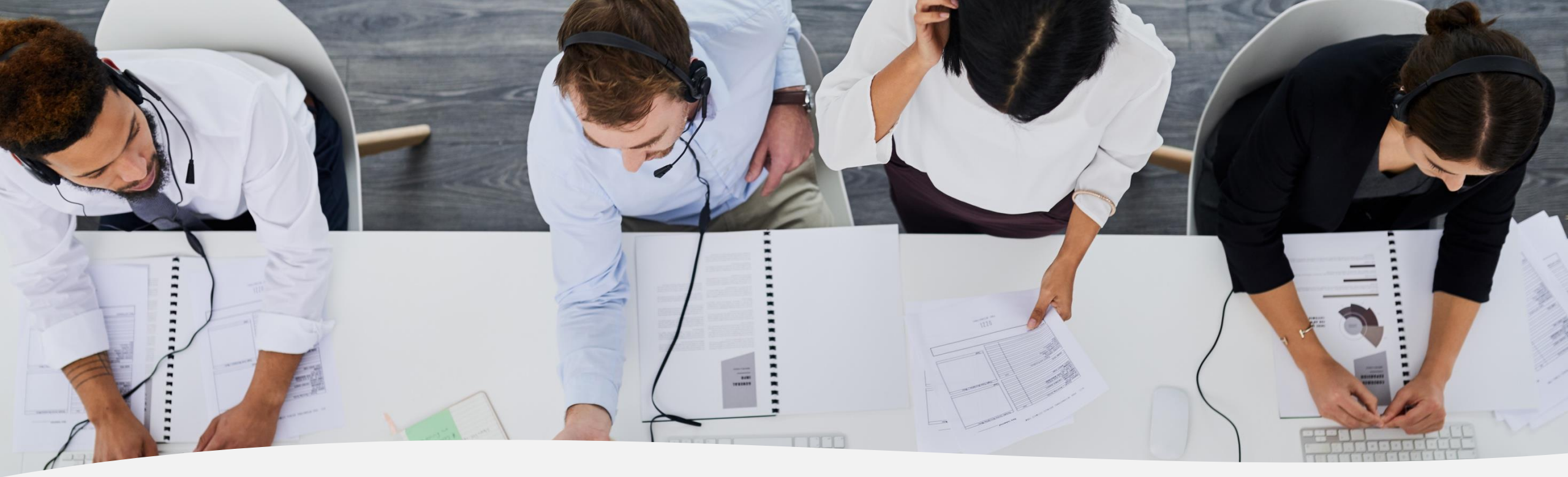
Electromagnetic Radiation Dosimetry – Measurement of Electromagnetic Radiation Levels Across the Sample of Institutions

Education & Research

THECUC: Project Conference

- 3-day Conference
- Up to 1,000 participants from higher education institutions
- Address the needs of users by presenting project activities and showcasing the results and services
- Interactive presentations, workshops and panel discussions
- In addition to the professional program, various networking and social activities are organized to strengthen collaboration
- Promoting innovative and flexible digital learning and teaching





User Support During the Project

- E-mail
- Telephone
- On-site support delivered by the Mobile Team - a regionally distributed team of experts

Continuous assistance for institutions during project implementation and equipment deployment

Thank you for
your attention.

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