BRIOLIGHT OPEN

Digital Education Lab Network

A university-led network for inclusive education research, digital methods and international collaboration

THE IDEA

Briolight Open connects university laboratories, educators, researchers and technology developers to turn promising scientific ideas into evaluated interactive exercises, practical methodologies and accessible educational tools. Each laboratory can develop its own specialisation while contributing to a shared knowledge network.

Why this programme matters

Inclusive education requires solutions that are evidence-informed, adaptable to local needs and affordable to deploy. Universities have the scientific expertise to develop and evaluate these approaches, but often lack a dedicated technology platform, practical implementation sites and a predictable route from research to application.

Briolight Open aims to close that gap through a collaborative research and development model. It combines university expertise with Briolight software, interactive systems, methodological resources and AI-assisted research coordination.

An interdisciplinary opportunity

- Education and special education: learning accessibility, developmental interventions and digital pedagogy.
- Psychology and social sciences: engagement, wellbeing, inclusion and the organisation of support services.
- Medicine and rehabilitation: interdisciplinary methods, digital exercises and carefully evaluated adaptation of rehabilitation technologies for educational settings.
- Engineering and data science: accessible interfaces, software development, metrics and AI-supported knowledge management.

Two complementary technology domains

Inclusive Education Technologies: university laboratory cooperation model and inclusive technology in practice.

Medical Rehabilitation & Research Platform: rehabilitation technology, research capabilities and evidence resources.

RESEARCH & MEDIA

University Collaboration Case Study

Read Publication (English)

Medical Rehabilitation & Research

▶ Video of Laboratory



Interactive floor activities



Interactive sandbox



Accessible interactive panel

RESEARCH PARTNERSHIP CONTACT

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Existing Ukrainian Research Infrastructure

The programme builds on established Ukrainian university cooperation and laboratory infrastructure. The examples demonstrate implementation capacity, not clinical validation of every proposed intervention.

800+ Educational Institutions as a Potential Research Network

More than 800 inclusive resource centres, schools and kindergartens in Ukraine have adopted Briolight technologies. This established user base offers an opportunity to build a distributed research and validation network under university supervision. With voluntary institutional participation, appropriate consent and safeguards, research teams could test new digital exercises in real educational settings, evaluate their effectiveness for children with special educational needs and collect structured evidence on educational and developmental outcomes. The resulting multi-site collaboration would connect university research with everyday inclusive education practice.

Petro Mohyla Black Sea National University | Mykolaiv

Briolight has cooperated with the university since 2007. In 2018, a Digital Correction Technologies Laboratory was established at its university clinic for interdisciplinary research, training and technology evaluation.

A regional initiative established 24 interactive inclusive centres in Mykolaiv Oblast. A 2023 conference publication documents the model, specialist training, methodological exchange and data collection.

Vinnytsia State Pedagogical University

A second laboratory has been installed. The cooperation agreement is being finalised; the partnership is not yet formally concluded.

University laboratory in practice

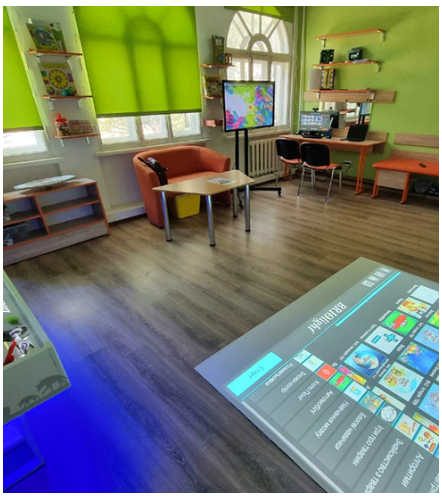
The CHMNU case study illustrates laboratory infrastructure, interdisciplinary research and specialist training (see page 1).

How the network operates

UNIVERSITY LAB	Researchers, students, specialists
SHARED KNOWLEDGE	Exercises, methods, observations
EVALUATION	Practical testing and evidence levels
APPLICATION	Reusable digital learning tools

Published evidence: Nord, H. L. and Vasyliev, A. A. (2023), Network of Interactive Inclusive Centres, Mohyla Readings 2023, pp. 53–55.

Read publication (English)



University laboratory



Methodological publications



Specialist training

Why Universities and Researchers Join

Benefits for each participant

UNIVERSITY | A visible modern laboratory, stronger educational programmes, international collaboration, external engagement and attractiveness for prospective students.

DEPARTMENT / FACULTY | A practical base for empirical research, student and postgraduate projects, scientific reporting, methodological publications and grant applications.

RESEARCHER | A channel to develop original ideas, retain attribution, work with peers, publish findings and pursue separately funded assignments.

EDUCATORS & LEARNERS | A growing library of usable exercises and guidance, supported by transparent documentation of testing status and limitations.

BRIOLIGHT | Research collaboration, iterative validation and improvement of digital exercise libraries and educational software.

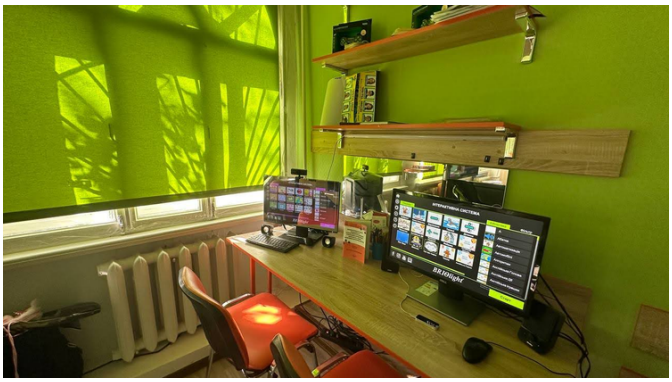
From an idea to a validated exercise

- A researcher submits an observation, proposal or voice note through a lightweight digital channel (planned Telegram-based workflow).
- AI-assisted tools help structure the submission and identify related exercises, research areas and potential collaborators.
- A coordinator and participating experts review relevance, feasibility and the required level of study.
- Selected projects are commissioned or developed within funded research programmes; not every submission is automatically implemented.
- Outputs may include an interactive exercise, methodological guidance, evaluation findings and a clear statement of evidence maturity.

Research integrity and recognition

Authors and their university affiliations are acknowledged in programme outputs. Collaboration is open in the sense of shared research participation and communication of methods, results and limitations; it does not mean unrestricted transfer of Briolight source code or other proprietary intellectual property. Project-specific rights and terms are determined by written agreements.

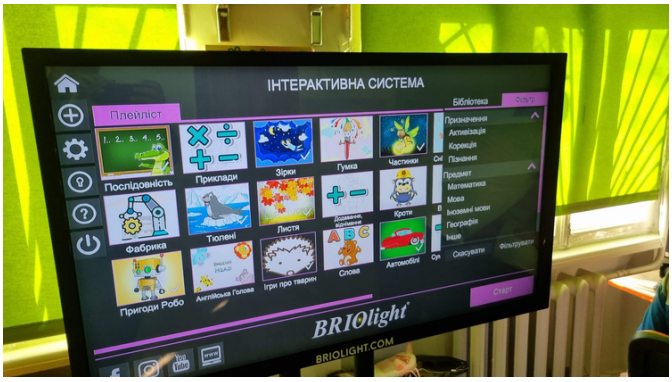
Selected documentary photographs



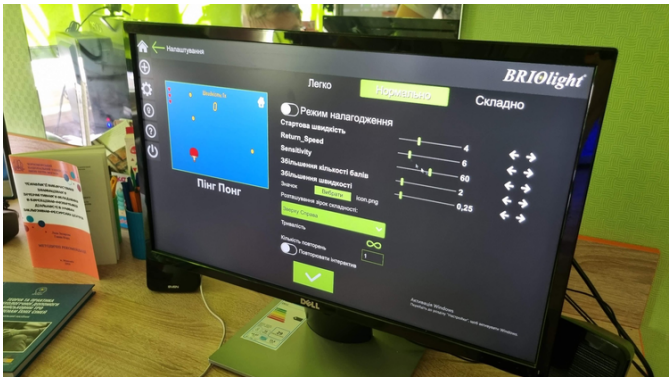
Laboratory equipment



Motorics training



Laboratory software



Exercise configuration

PARTNERSHIP MODEL

How a Laboratory Is Established and Funded

The initial partner concept proposes a three-year relationship with separate annual work plans. The first stage focuses on reviewing and documenting existing digital exercises before commissioning new methodologies or software.

Indicative roles

- Briolight: technology and software platform, methodological resources, initial orientation, coordination and agreed development tasks.
- University: premises and local coordination, research team, practical use, publications, seminars and participation in joint project development.
- External funders and partners: support for research studies, accessibility adaptations, training, implementation and international scaling.

Funding pathways

- Partner laboratory: special conditions for equipment and licensed software are agreed individually; the earlier partner model envisages a substantial software contribution by Briolight.
- Commissioned research: new exercises, methodological packages and evaluation studies can be funded by separate Briolight work orders.
- University and external grants: academic research, international cooperation and scaling can be financed through institutional budgets or jointly prepared grant proposals.
- Commercial and grant-funded software use: terms, licences and intellectual-property arrangements are agreed separately.

What international partners can support

Research pilots; independent evaluation; the creation and translation of methodological libraries; accessible software adaptations; researcher mobility; and dissemination of results across countries. Existing Ukrainian experience provides an implementation foundation, while effectiveness and transferability remain research questions to be studied.

Invitation to collaborate

For universities: establish a specialised Briolight Open lab and contribute to an international community of applied researchers.

For research groups: propose studies that connect pedagogy, psychology, rehabilitation, engineering and social sciences.

For donors and consortia: co-design research and capacity-building projects using an existing Ukrainian technology ecosystem.

Inclusive education & university example: briolight.com/chmnu

Medical rehabilitation and research: briolight.ua/research

SOCIAL NETWORKS YouTube LinkedIn Instagram Facebook

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