



# LID HUB

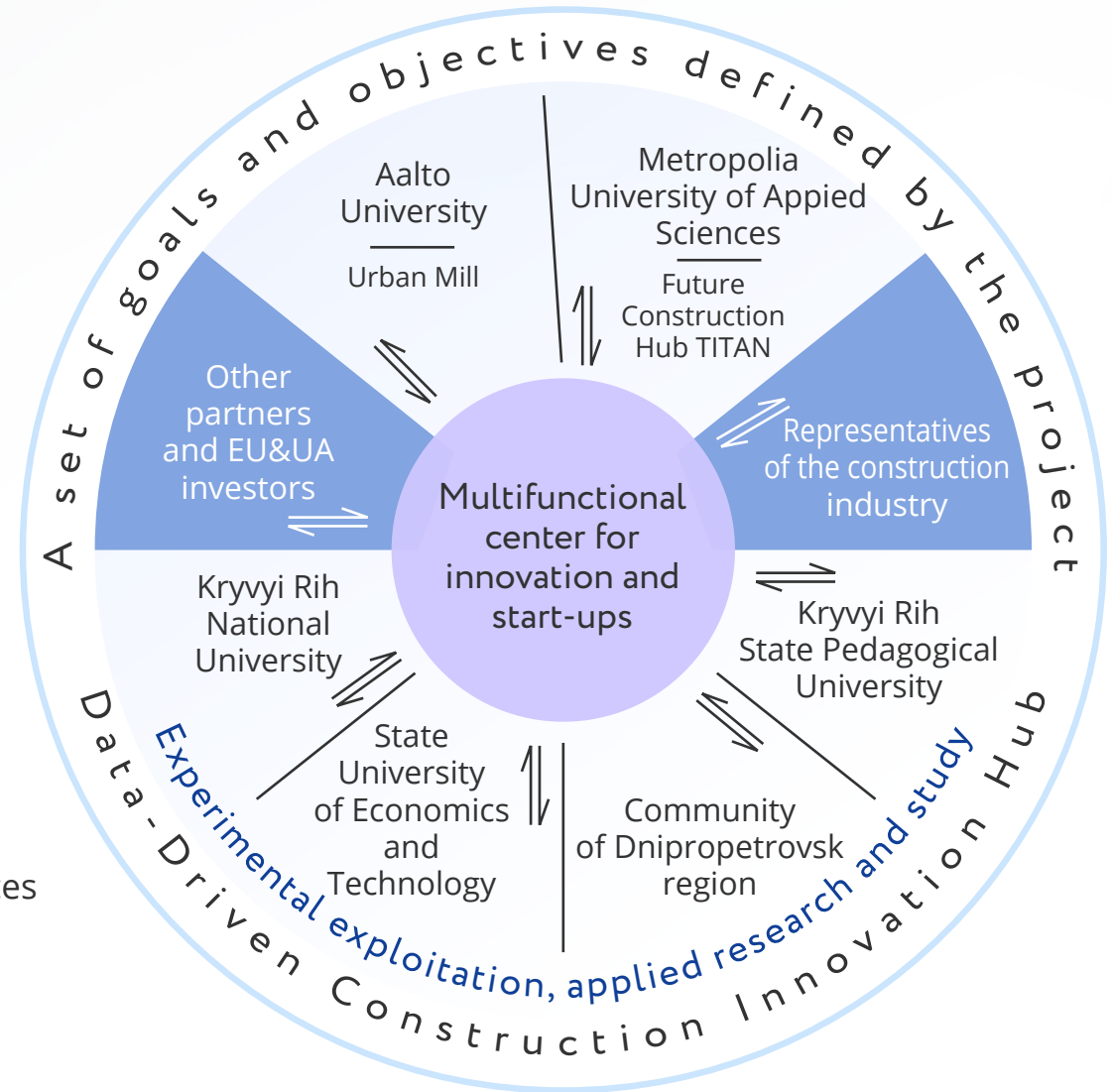
LIBERTY • INNOVATIONS • DEVELOPMENT

EUROPEAN REVIVAL OF UKRAINE  
BUILDING SMARTER FUTURE TOGETHER: Kryvyi Rih dimension

2025

# DATA-DRIVEN CONSTRUCTION INNOVATION HUB

- MARCH 5, 2025** Submitted a joint application to the EU funding programme ERASMUS-EDU-2025 Bimpace
- SEPTEMBER 19, 2024** European Design Upgrade 3.0
- MAY 31, 2024** Joint webinar "Building a smart future together"
- SEPTEMBER 17, 2023** SUET became the first TITAN organisation Member
- SEPTEMBER 12, 2023** Presentation of the LID HUB project with Metropolia University of Applied Sciences
- MAY 12, 2023** Memorandum signed SUET with Metropolia University of Applied Sciences



# DATA-DRIVEN CONSTRUCTION INNOVATION HUB



## WHAT IS IT?

LID HUB – a cluster of the world's best center for innovation and education in the construction industry



## WHERE IS IT?

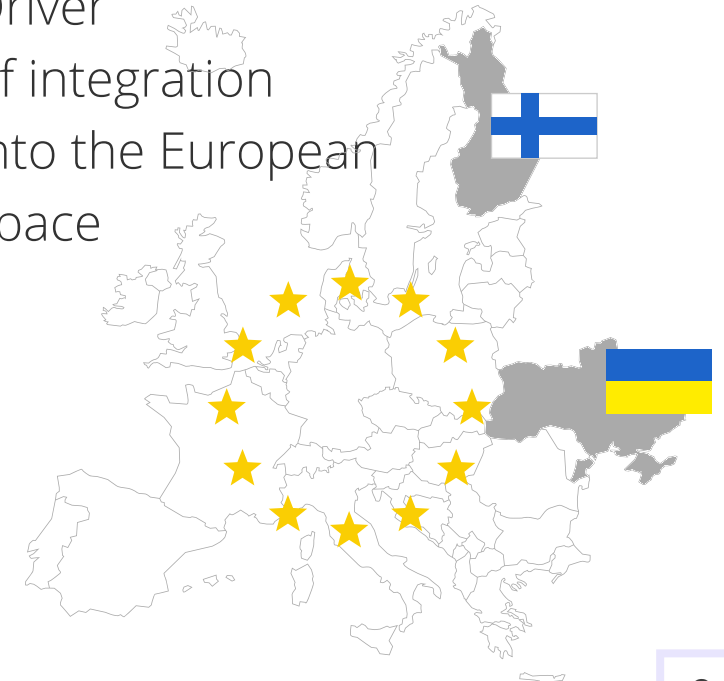
The city of Kryvyi Rih is an investment entry point for the central region of Ukraine



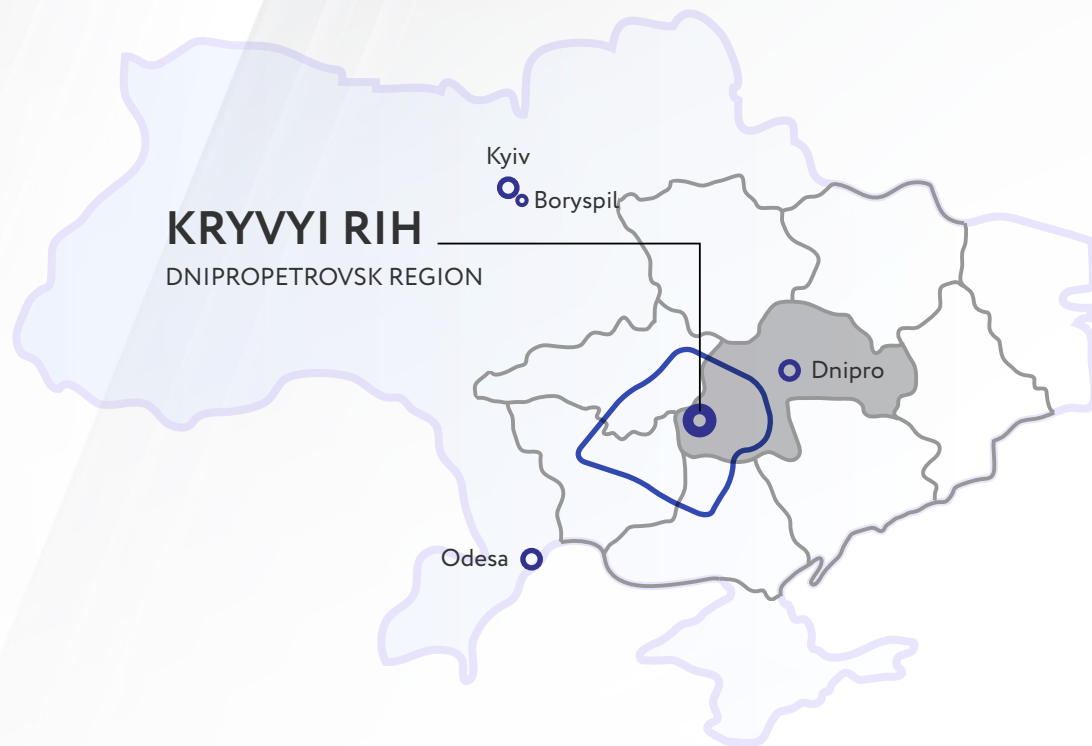
## WHY IS IT NEEDED?

Driver of integration into the European space

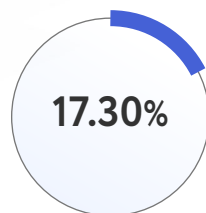
SUSTAINABLE  
DEVELOPMENT  
GOALS



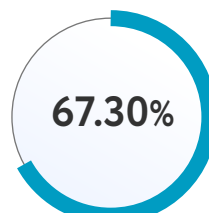
## REGION OF DIRECT INFLUENCE



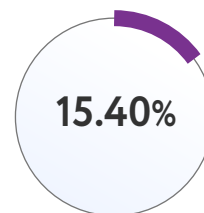
**1 500 000+** internally displaced persons  
residents  
**10+ %**



0-14 years old



15-64 years old



65 years and older

## AREA

Over 30,000 km<sup>2</sup>

## GEOGRAPHY

Borders with seven  
Ukrainian regions

## LOGISTICS

Automobile  
Railway  
Water  
Aviation

## POTENTIAL

Budget-forming region  
of Ukraine 10+ %  
of the Gross Domestic Product







47°54'42"N 33°20'57"E

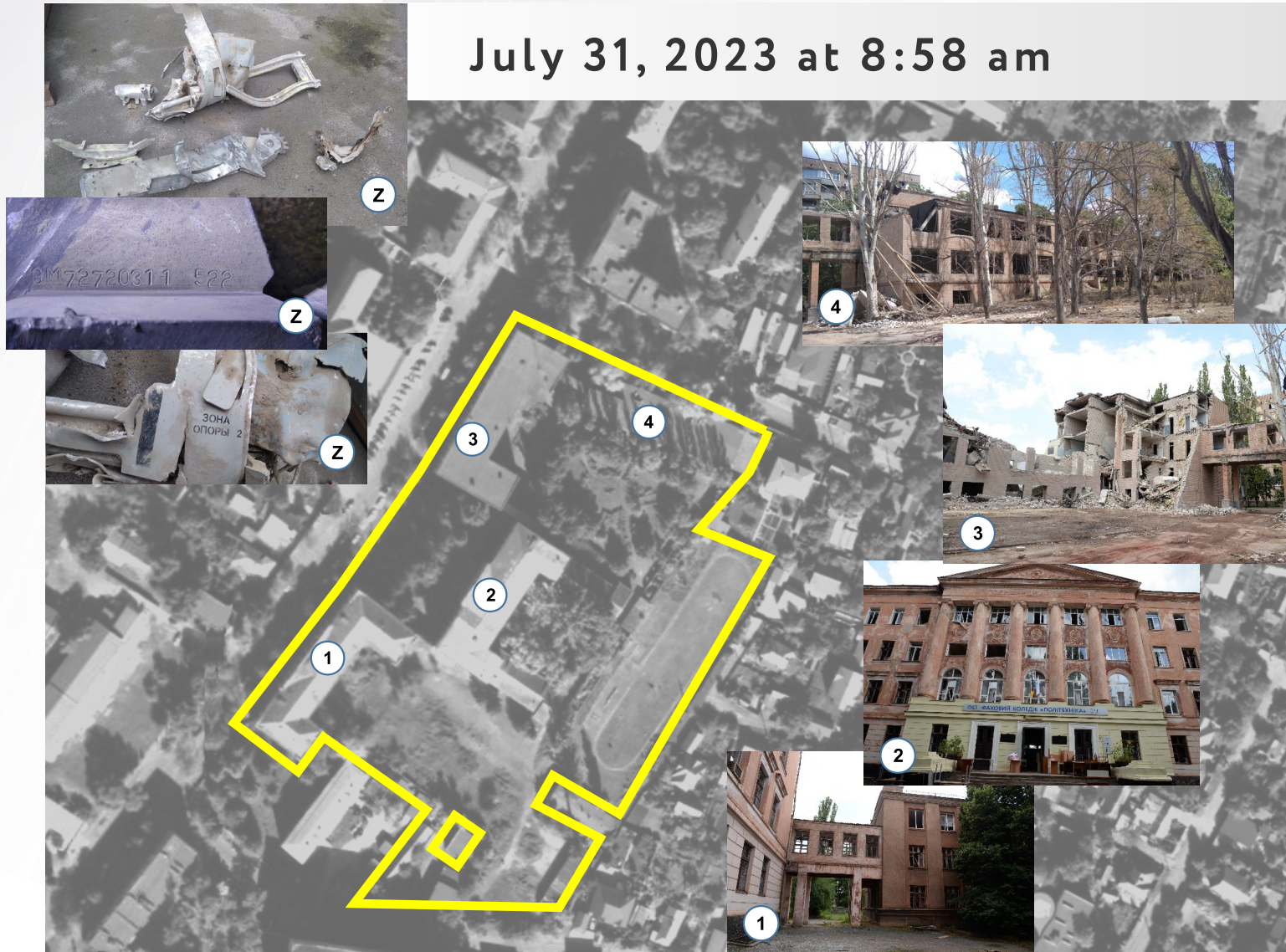
July 31, 2023 at 8:58 am

Kryvyi Rih,  
Poshtovy avenue, 64-68

...hit by a russian ballistic missile  
of the Iskander complex

### Legend:

-  The territory of the State University of Economics and Technology and Campus, where 4 educational buildings are located
-  Educational building No.1
-  Educational building No.7
-  Laboratory building
-  Workshop building
-  Debris from a Russian missile found at the impact site on campus



## LID HUB – A NEW UNIVERSITY SMART CAMPUS



A smart service-oriented ecosystem that includes research, educational, cultural, sports, rehabilitation and business locations

## OBJECT CHARACTERISTICS

- Event hall with 3,000+ seats
- Educational and research facilities – 3,650 m<sup>2</sup>
- Expo spaces – 3,200 m<sup>2</sup>
- Conference and media rooms – 900 m<sup>2</sup>
- Project offices and meeting rooms – 1,100 m<sup>2</sup>
- Restaurant and buffet areas – 1,750 m<sup>2</sup>
- Hotel fund for 37 rooms
- Art and creative spaces – 3,650 m<sup>2</sup>
- Sports and recreation locations – 2,120 m<sup>2</sup>
- Rehabilitation spaces – 800 m<sup>2</sup>
- Lounge areas – 5,250 m<sup>2</sup>
- Auxiliary facility – 4,200 m<sup>2</sup>
- Underground and outdoor parking lots for 260 cars
- Shelter for 4,000+ seats



**2.7750**  
**hectares**  
area of the  
project site



**1.3875**  
**hectares**  
construction  
zone



**1.3875**  
**hectares**  
improvement  
zone



**0.8741**  
**hectares**  
landscaping



**0.5134**  
**hectares**  
hard surface  
area



**50%**  
construction  
density

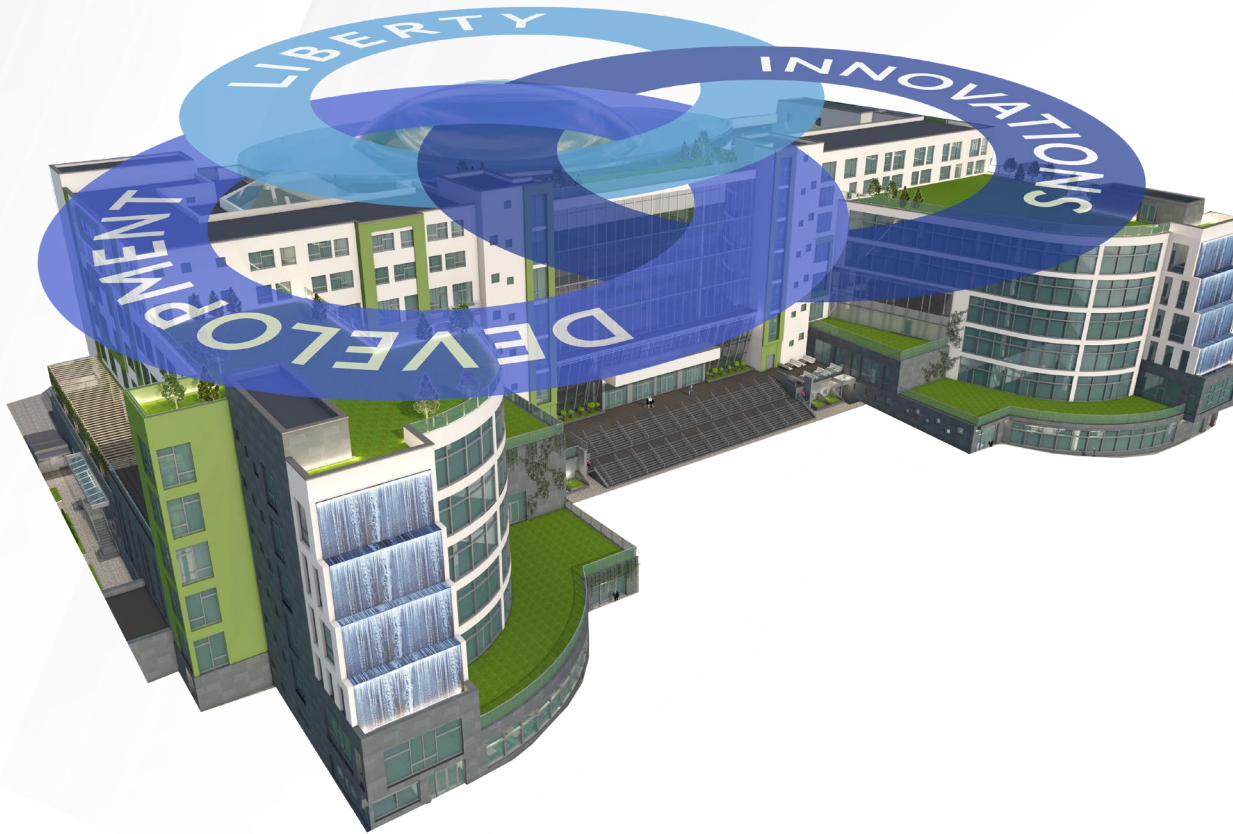
## PROJECT FOR FUNCTIONAL FILLING OF THE EDUCATIONAL AND RESEARCH FACILITY OF THE LID-HUB

- Automation and Robotics Laboratory
- ePowerHub Laboratory
- Electrical Engineering Laboratory
- Smart House and IT Laboratory
- BIM-Studio
- Construction Laboratory
- Marketing Laboratory
- Design Laboratory
- Art Spaces and Educational Locations
- Design Factory Global Network (DFGN)

SUSTAINABLE  
DEVELOPMENT  
GOALS

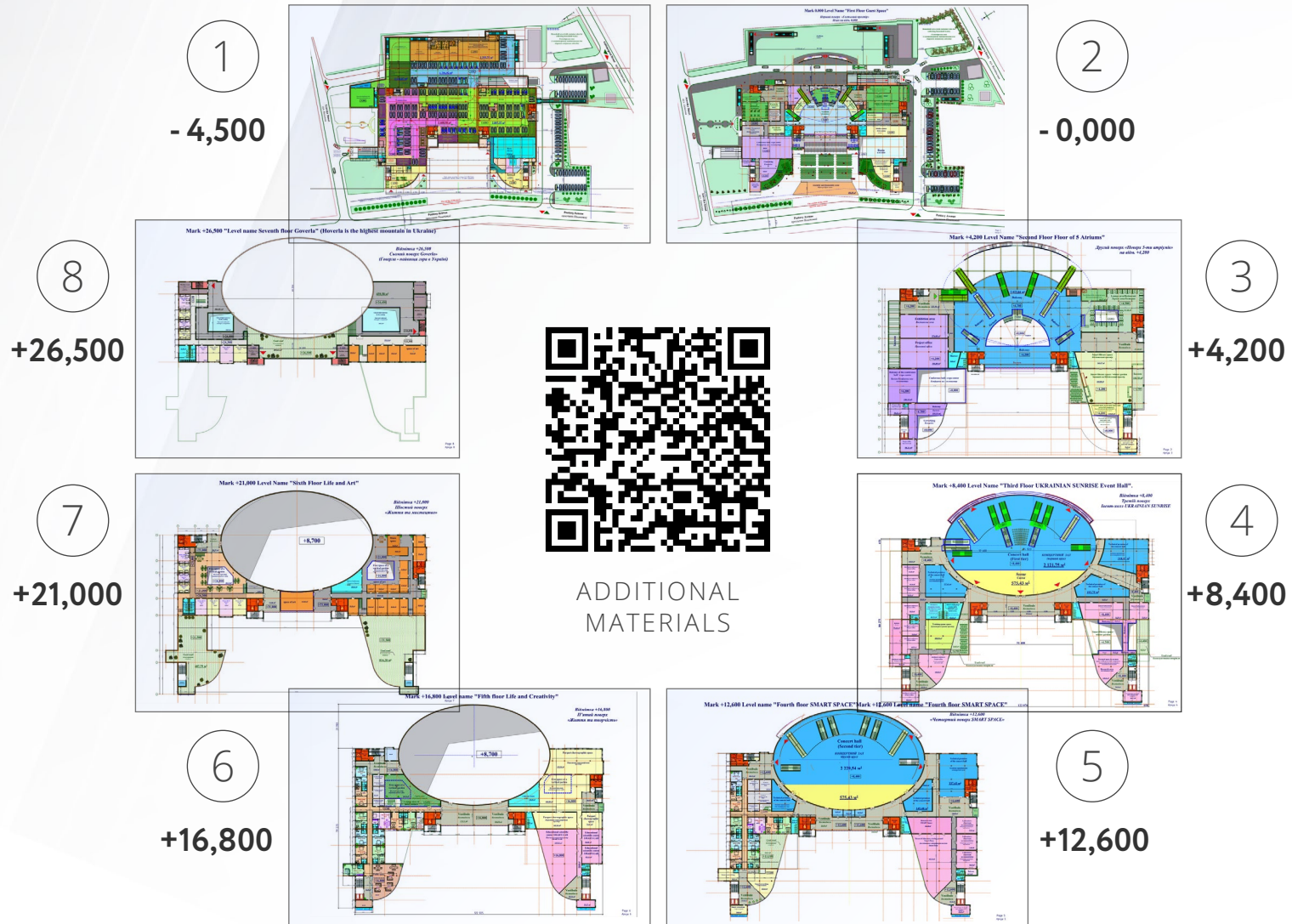


# IMPLEMENTATION OF THE EDUCATIONAL AND RESEARCH COMPONENT OF THE LID-HUB THROUGH PARTICIPATION IN ERASMUS+ PROGRAMS, ETC.



- 1 Research, development of prototypes in the fields of smart construction, mining and metallurgical industry in laboratories by research groups of partner universities and representatives of IT, Construction Business, mechatronics
- 2 Joint operation by a network of partners of Art spaces and educational, sports and rehabilitation locations for training, development, cross-cultural exchange
- 3 Joint operation by a network of partners (universities, community, business partners) and outsourcers of public and business spaces
- 4 Participation in international research projects (Erasmus+) BIM – Harmonization, Modernization, and Professional Accreditation of Competencies and Training (Bimpace) in the field of BIM modeling. The result of this project is a modern, relevant and interactive environment for training specialists with relevant competencies in the field of BIM modeling

# PLANS AND DESCRIPTIONS OF SMART CAMPUS LOCATIONS IN THE APP



- 1 Security space
- 2 Guest space
- 3 Space of 5 atriums
- 4 Event Hall «UKRAINIAN SUNRISE»
- 5 Smart Space
- 6 Life and creativity
- 7 Life and art
- 8 Goverla

## THE MAIN STAGES

01

A set of measures to record and document the event (destruction or damage)

02

Obtaining permission for dismantling or restoration

03

Deciding on the idea and forming a project team, sources of funding

04

Pre-design and design work

05




Construction works

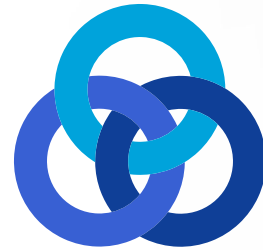
06

A set of measures for putting into operation

07

Filling with content and usage

 Completed  
 In progress  
 Planned



# LID HUB

## OPEN SPACE FOR FREEDOM, INNOVATION AND DEVELOPMENT BUILDING SMARTER FUTURE TOGETHER: Kryvyi Rih dimension

Serhii Hushko

/ Project coordinator, professor, DSc  
Vice-rector for scientific work and international relations  
State University of Economics and Technologies /  
e-mail: [vice-rector@duet.edu.ua](mailto:vice-rector@duet.edu.ua)

Olga Dudnik

/ Architect of State University  
of Economics and Technolog /  
e-mail: [olgadudnik00@gmail.com](mailto:olgadudnik00@gmail.com)

Yevhenii Modlo

/ Project management, Associate professor, PhD  
Acting Head of the Department of Electrical Engineering  
and Automatization, SUET /  
e-mail: [modlo\\_yo@duet.edu.ua](mailto:modlo_yo@duet.edu.ua)

Volodymyr Dudnik

/ Head of the Department for Employment of Graduates  
of the Vocational College of Technology /  
e-mail: [vdudnik.smartbl@gmail.com](mailto:vdudnik.smartbl@gmail.com)