

Presentation at EDIH Network Annual Summit 2023, May 31 - June 1

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What is the Eastern Partnership region?



GIZ Project DT4SME - Overview

- Core project data:
 - Duration: 03/2023 02/2026 (36 months)
 - Budget: 10,000,000 EUR
 - Locations: main project-office in Georgia; GIZ staff and activities in Armenia, Azerbaijan, Georgia, Moldova & Ukraine
- Core issue to be adressed by the project:
 - The digital transformation of local small and medium-sized enterprises (SMEs) is progressing (too) slow(ly) to fully exploit the potentials of the digital transformation for sustainable economic development.

GIZ Project DT4SME - Logframe

Competitive SME

Overall objective - The competitiveness of small and medium-sized enterprises in Eastern Partnership countries is strengthened with regards to digital transformation.

Module indicator 1 - 15 out of 20 of the stakeholders interviewed, 8 of them women, confirmed on the basis of a concrete case study that the changed governmental or statistical framework conditions strengthen the competitiveness with regard to the digital transformation of SMEs.

MI 2 – 80 local SMEs have made practical use of competition-enhancing services or products from local, EU-oriented Digital Innovation Hubs for their business.

MI 3 From 3 Eastern Partnership (EaP) countries, 5 SMEs each confirmed through a piloted case study that digital transformation has enabled greater integration into the European single market.

Output 1 - Policy and statistical framework conditions in the area of digital transformation of small and medium-sized enterprises are improved.

Output 2 - Cooperation between actors in the digital and entrepreneurial ecosystems has been expanded in the area of promoting the digital transformation of SMEs.

Output 3 -Small and medium-sized enterprises are strengthened in their capacities to implement digital solutions for business and production processes in their companies.

0101.1 - 5 Support measures to strengthen policy framework conditions in the area of digital transformation of small and medium-sized enterprises have been implemented.

0202.1 - 6 cooperation projects in the area of promoting the digital transformation of small and medium-sized enterprises have been completed.

0303.1 -.100 SMEs, 50 of them with women in leadership positions, have taken advantage of support services for the use of digital solutions for business and production processes.

0101.2 - 8 Measures to strengthen business and innovation statistics are completed.

0202.2 - An EaP-wide network of local, EU-oriented Digital Innovation Hubs is <u>etablished</u>.

0303.2 - 20 SMEs have initiated the implementation of a transformation strategy or measure for the use of digital solutions for business and production processes.

Meso-Level Component 2 (C2)

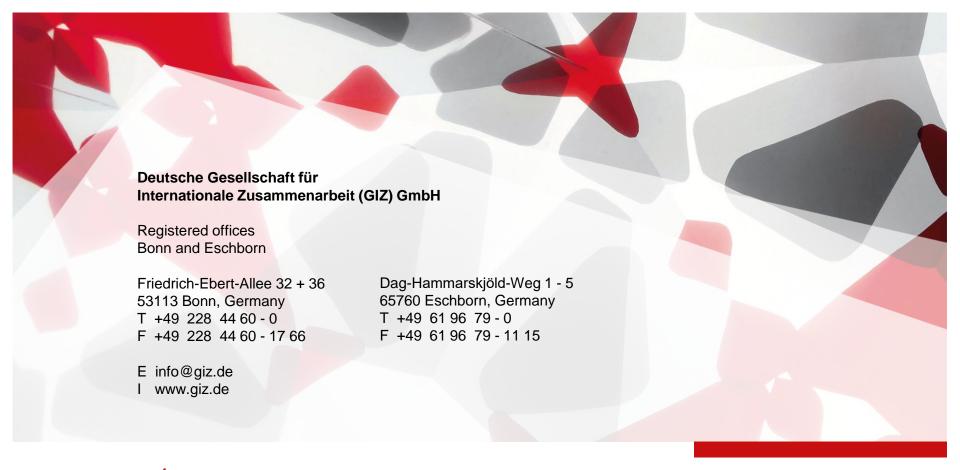
Business Support Organisa tions

EU DIH

Micro-Level Component 1 (C1)

Integr ation Handson SME Support & product on process

giz







ENTERPRISE GEORGIA

SME DIGITALISATION







PRODUCE IN GEORGIA

Increasing access to finance to SMEs to enhance their competitiveness and productivity through special programs and initiatives such as:

- Credit subsidies and guarantees
 - Micro grants
 - Technical assistance
 - Film in Georgia
 - Growth Hubs

TRADE WITH GEORGIA

Promoting the export potential of the country and increasing access to international markets to SMEs by providing:

- Trainings for export managers
- Co-financing to participate in international exhibitions
- Support in branding and product licensing
 - Connecting local SMEs with international buyers

INVEST IN GEORGIA

Providing support to investors from project inception through investment aftercare and conducting image-building activities, such as:

- Participating in international roadshows
- Marketing campaigns and promotional materials
- Coordinating sectoral research
 - Ranking and ratings

GROWTH HUBS – CONSULTATION CENTERS





FUNCTIONS:



Consulting

Offer and co-finance consulting services tailored to the MSME's specific needs





Improving Business Skills

Trainings and workshops for entrepreneurs to help build human capacity

 On the basis of <u>an online diagnostic test</u>, the Hub will <u>organize and</u> co-finance trainings and <u>workshops</u> for the entrepreneur

DIRECTIONS:



Sales & Marketing



Taxation



Legal Issues



Finance & Accounting



Business Modelling & Strategic Planning



Digitalization

SME DIGITALISATION: DIGITAL SKILLS AND SOLUTIONS





I. Essential Features of the Service



Digital Transformation Experts (DTEs)

Specialists who advise and deliver **technology-led transformation** programs aiming to:

- enhance the firm's internal operations
- improve the end customers' digital experiences



Digitalization Plan

A detailed plan of how the specific SME can digitalize their general business functions, with a special consideration to sector-specific characteristics;

II. Process





Business-Diagnostics at the Hub



Referral to the **DTE**



Analysis/
Interviews by
the DTE



Tailored

Digitalization

Plan

III. Contents of the Digitalization Plan



I. Digital Skills

Training the SME staff to increase their digital capacity

- The Hub will cover up to 90% of the cost of training
 - max 1 500 EUR per SME



II. Digital Solutions

A grant to the SME to purchase a specific digital tool/solution

- The Hub will reimburse 90% of the cost of the solution
 - max 8 000 EUR per SME



ENTERPRISE GEORGIA

THANK YOU





Virtual Center for Digital Innovation NOSC-UA DIH

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http://cloud-5.bitp.kiev.ua/?page_id=140



https://www.linkedin.com/showcase/nosc-ua-dih/



https://twitter.com/NOSC_UA_DIH



Partners

International Projects

NOSC-UA DIH develops digital innovation services for scientists, business sector and public authorities on the basis of a cloud cluster of the Ukrainian National Grid

- 10 DIHs (4 EDIHs)
- 10 local SMEs
- 10 national partners
- 50+ International Partners

EIT HEI: «Strengthening Innovative Pipelines for Impactful Universities»



Horizon Europe: «Strengthening Entrepreneurial Ecosystem Development»



Digital Europe: «Advanced Digital Skills on Blockchain for Trusted Food Supply Chains»



SERVICES



CO-DESIGN AND
PILOTING OF
DIGITAL
INNOVATIVE
PROJECTS



SUPPORT ON FUNDING OPPORTUNITIES



INNOVATION ECOSYSTEM AND NETWORKING



SKILLS AND TRAINING



USECASES







Non-destructive testing technology with artificial intelligence (AI)

helps fast and cheep detect defects in metal ware

fundraising - 45 000 euro

technological and business services

cloud model for Carbon Footprint assessment in crop growing and agrifood value chains

fundraising - 120 000 euro direct funding - 30 000 euro

digital instrument for developers to monitor compliance of their projects with the European standards of comfortable and sustainable buildings

winner of International Active House Awards 2019 (Designed buildings with radar) Toronto, Canada.

NOSC-UA DIH NETWORKS





As intermediaries of successful local SME digital transformation, DIH-World aims at providing DIHs, access to harmonized tools, well proven technologies, effective methodologies, sound knowledge, smart investment sources, rich training assets and overall a vibrant innovation environment.



i4Trust is a collaborative initiative boosting the innovative services around new data value chains networking community. i4Trust provides the right tools, coaching, mentoring and initial funding to break down barriers to data sharing and support the creation of Data Spaces.



EOSC DIH is an international and multi-partner cooperation that supports companies in easily accessing the digital technologies and services offered by the EOSC.

It combines 4 main pillars to help companies become more competitive: Pilot design and co-design, Technical access, Training & support and Visibility.



Thank you for your attention! Let's keep in touch!

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KPI DIH – Centre 4.0

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Dr. Anna Kukharuk - <u>annakukharuk@gmail.com</u>



KPI DIH – Centre 4.0

Location: Kyiv, the capital city of Ukraine

Date of est.: 2021 as a DIH,

but for years worked as a department of Igor Sikorsky KPI.

Staff: 5 people employed and over 10 situational personnel

DIH mostly supports actors in manufacturing and industrial applications



DIH is a part of the University

24 educational departments

13 science departments

200+ scientific groups

38 educational and scientific laboratories

Partners

National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" - R&D, testbeds, networking

Association of Industrial Automation of Ukraine (AIAU) - Engagement of SME, community management, product marketing, communication

Innovation Holding Sikorsky Challenge -Commercialization of innovation projects, Acceleration projects

AIAU: EAM cluster (Engineering - Automation - Machinery) - Networking, potential customers

BOWI Project Architecture



PIAP (Poland)-Mature DIH

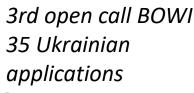
Centre 4.0 KPI DIH (Here we are)







The needs of 1 companies





Small and medium businesses







Winners

D-Reader – AI drawing recognition Sakura-APM - Optimization of processes at the grain elevator

Koeebox-MES - Planning and monitoring of production assets of the enterprise
Boiler Digital Twin - Digital twin of heat energy equipment

Key fields of Centre 4.0 KPI DIH expertise

Cyber-physical and embedded systems

Internet of Things

Digital twins, data sharing, autonomous factories

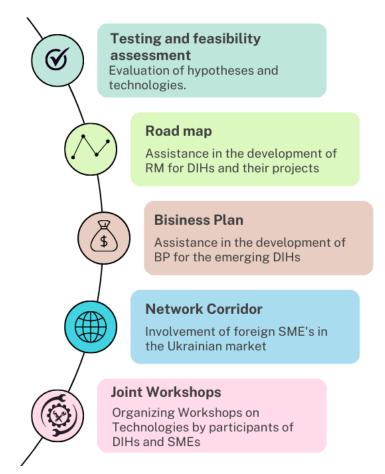
Additive manufacturing technologies

Modelling and simulation

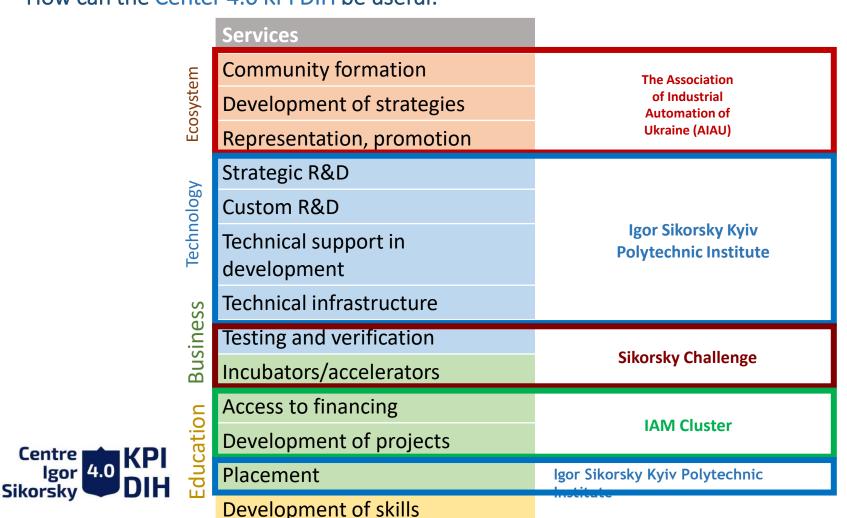
Artificial Intelligence



Subjects for a cross-border partnership



How can the Center 4.0 KPI DIH be useful:



KPI DIH – Centre 4.0

Thank you very much for your attention! Let's keep in touch!

Dr. Oksana Yurchyshyn - <u>oksanayurchishin@gmail.com</u>
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DIH I4MS Ukraine: Hub-laboratory Internet of Things

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Mr. Ivan Kulchytskyy - Kul.ivan@gmail.com



DIH I4MS Ukraine: Hub-laboratory Internet of Things



Agency for European Innovations (managing partner, element of international networks)

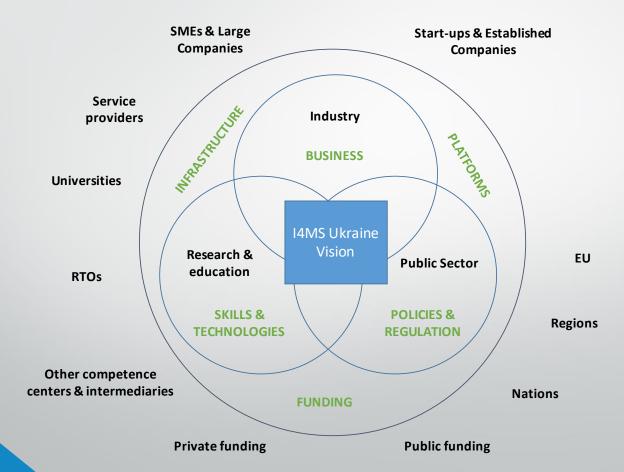
Lviv Polytechnic National University (competence centre)

Civitta Ukraine (business expertise)

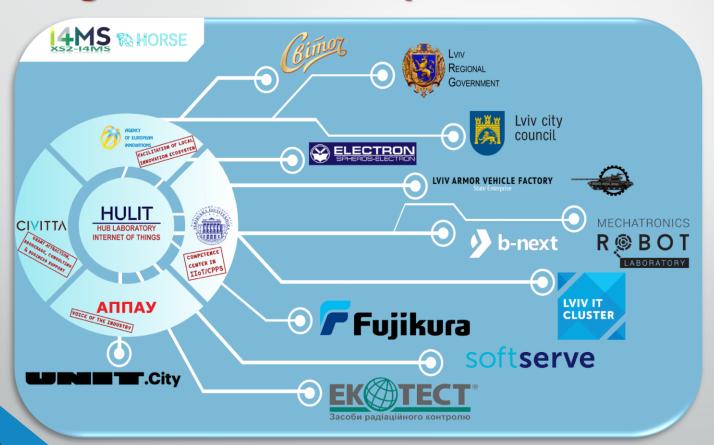
Association of Industrial Automation in Ukraine (access to market)

The basic partnership has been expanded in order to ensure closer contacts between DIH and manufacturing sector, and we are planning to reach a broader geography of Hub's influence in Ukraine.

Vision



Regional Partnership



DIH I4MS Ukraine ACTIVITIES:

- Promotion IoT and digital manufacturing as competitive advantage for SME's manufacturers and mid-caps.
- Develop and support of innovation network in the Lviv region.
- Promotion and assistance of science and industry integration, information-methodological support of investment-innovation and scientific-technical development of Lviv region.
- Facilitation of cooperation between research institutions and independent inventors
- Information-consultative maintenance of international and cross-border cooperation of Ukrainian scientists in scientific-research area.
- Protection, assessment and commercialization of legal objects of intellectual property, inventions and new technologies promoting on a market, cooperation with European network of technology transfer centres.
- Information-organizational support of creation and performance of small innovation entrepreneurships till
 the stage of investments attraction and formation of regional innovation-industry and art-cultural clusters.
- Media-exhibition assistance of the scientific-innovation prior trends in the region.
- Providing with formative-educational services in order to form the innovation culture.
- Formation of databases of business and scientific-technical information.
- Analysis conduction of the problems of interaction between R&D institutes with business and authorities

Future plans

DIH as part of Innovation infrastructure of Lviv Polytechnic National University:

- Tech Startup School Support for startups (wide range of services)
- Asolution Hub a platform for cooperation between business and inventors.
- Tech Labinno modern laboratory for rapid prototyping with a wide list of required equipment.

Creation of new services for digital transformation of the Ukraine and Lviv region. For this we need additional investment or grant resources

Development of international cooperation (Horizon Europa, EIC, EIT, cross-border programs and others)

Contacts

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Association for the Development of Electronic Communications and Innovative Technologies

- ACETI launched in 2019
- Now 16 companies in ACETI
 - Programming
 - Electronic communication
 - Computer assembly/sale/repair
 - Selling licensed software
 - IT consulting and development
 - Graphic design development
 - IT education/retraining
 - Smart solutions (houses, cities).

- 2021 Study on the state of the labor force in the field of IT and engineering in the northern region of the Republic of Moldova
- 2021 Launching in collaboration with "Alecu Russo" Balti State University of the Information Technology specialty.
- 21 november 2021 –
 Digital Transformation Conference
 Start of Digital Innovation Hub of Moldova

Strengthening the innovation technology ecosystem in the northern region of the RM











Association for the Development of Electronic Communications and Innovative Technologies

- Launched on December, 21, 2021
- Now 33 members
 - IT Companies
 - Education Institutions
 - R&D Institute
 - Municipalities
 - Regional Chambers of Commerce and Industry
 - Industrial parks
 - Business incubators
 - · Business associations.
- 2 international partners

- 13 companies were surveyed with reference to the digital maturity assessment.
- Recommendations were proposed for the digitization and retechnologization of processes within 5 companies.
- 6 companies were assisted in submitting to obtain funding to ensure digital transformation.
- 2 companies obtained financing for the implementation of digital transformation solutions.
- 2 company has already implemented digital transformation solutions.

Strengthening the innovation technology ecosystem in the northern region of the RM











Association for the Development of Electronic Communications and Innovative Technologies

Areas of expertise:

- Digitization and retechnologization of SMEs
- AgroTech
- HealthTech
- EnergyTech

International cooperation







Future plan:

To become European Digital Innovation Hubs (EDIH)

Strengthening the innovation technology ecosystem in the northern region of the RM











Association for the Development of Electronic Communications and Innovative Technologies



- The beneficiary is a manufacturer of confectionery, bakery and pastry (130 employees).
- Solution is an <u>automated enterprise</u> <u>management system</u>.
- In order to achieve the assumed objectives, the Beneficiary will contact local manufacturers of software solutions.



- The beneficiary is a producer of decorative plants (25 employees)
- Solution is an <u>agricultural drone</u> that automates the surveillance of agricultural land (80 hectares), for the purpose of early detection of outbreaks of specific plant diseases.

Strengthening the innovation technology ecosystem in the northern region of the RM





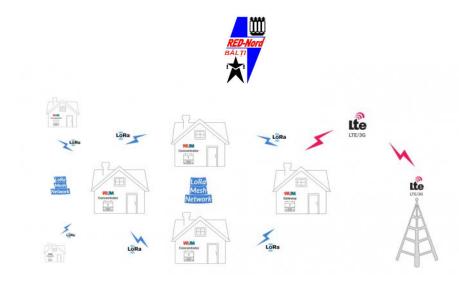






Association for the Development of Electronic Communications and Innovative Technologies

- The beneficiary represents an enterprise in the distribution of electricity (1300 employees).
- In 2021 ACETI facilitated the audit of the company's IT infrastructure.
- The solution is the possibility of remote reading of electric smart meters, including consumption data and power quality parameters.
- In 2023, the Year of Digital Transformation was launched at the company.



Strengthening the innovation technology ecosystem in the northern region of the RM











"By perseverance the snail reached the ark."

Charles Spurgeon