INNOVINNPROM

INNOVINNPROM ENERGY

- Industrial Automation
- Sustainability
- Energy Efficiency
- Monitoring and Analytics
- Flexible Robotic Systems

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Sustainability

INNOVINNPROM is an accredited supplier of sustainable development technologies to a number of EU and US consortia.

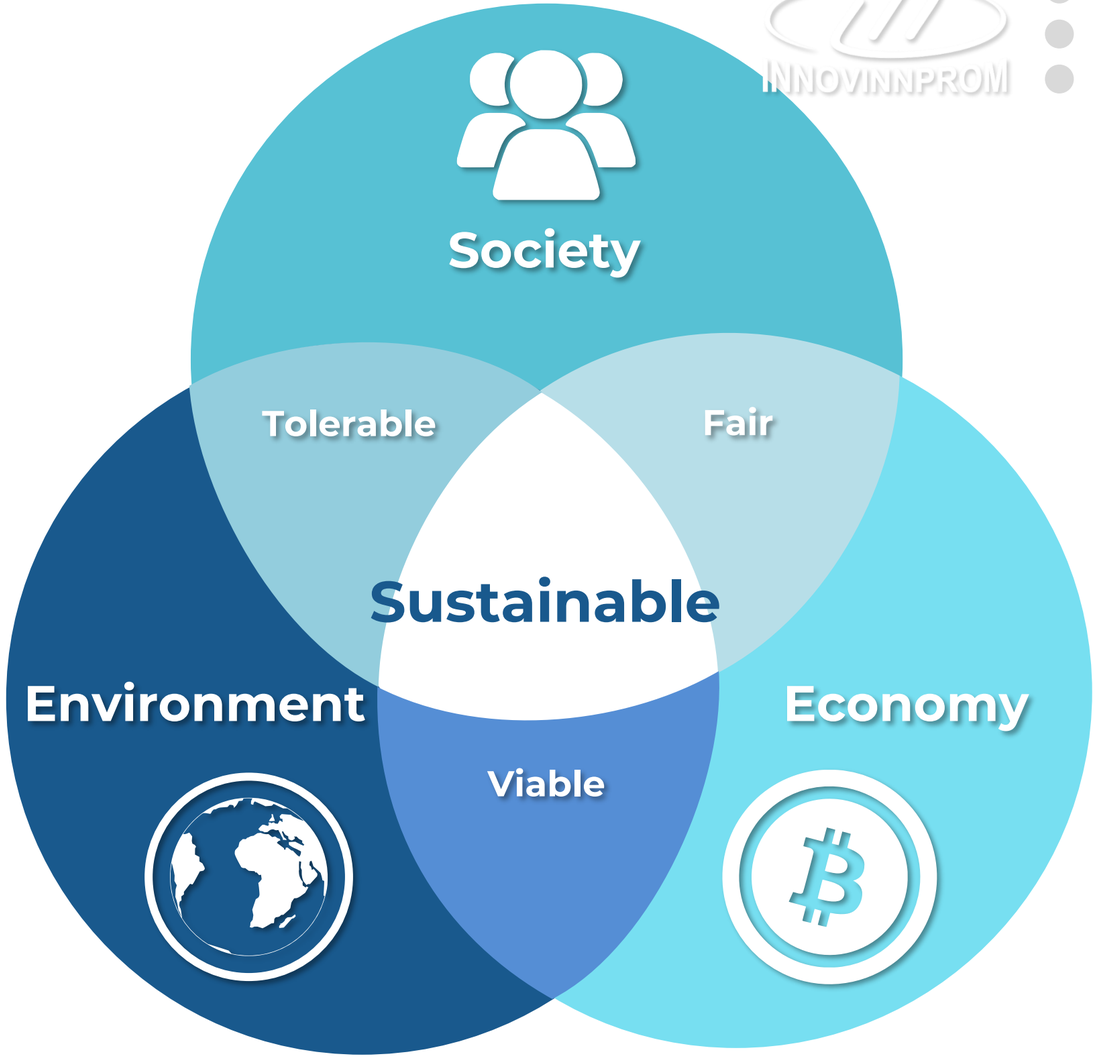
We specialise in the implementation of technologies that optimise the use of natural resources, reduce the environmental impact of production processes and facilitate the transition to a circular economy.

Energy efficiency - implementation of energy-saving systems and smart grids.

Environmental management is the development of technologies that reduce environmental pollution and carbon emissions.

Innovations - implementation of sustainable development projects based on new technologies.

We are committed to balancing economic development, social well-being and environmental protection, making the world a better place for ours and future generations.



Digital Transformation

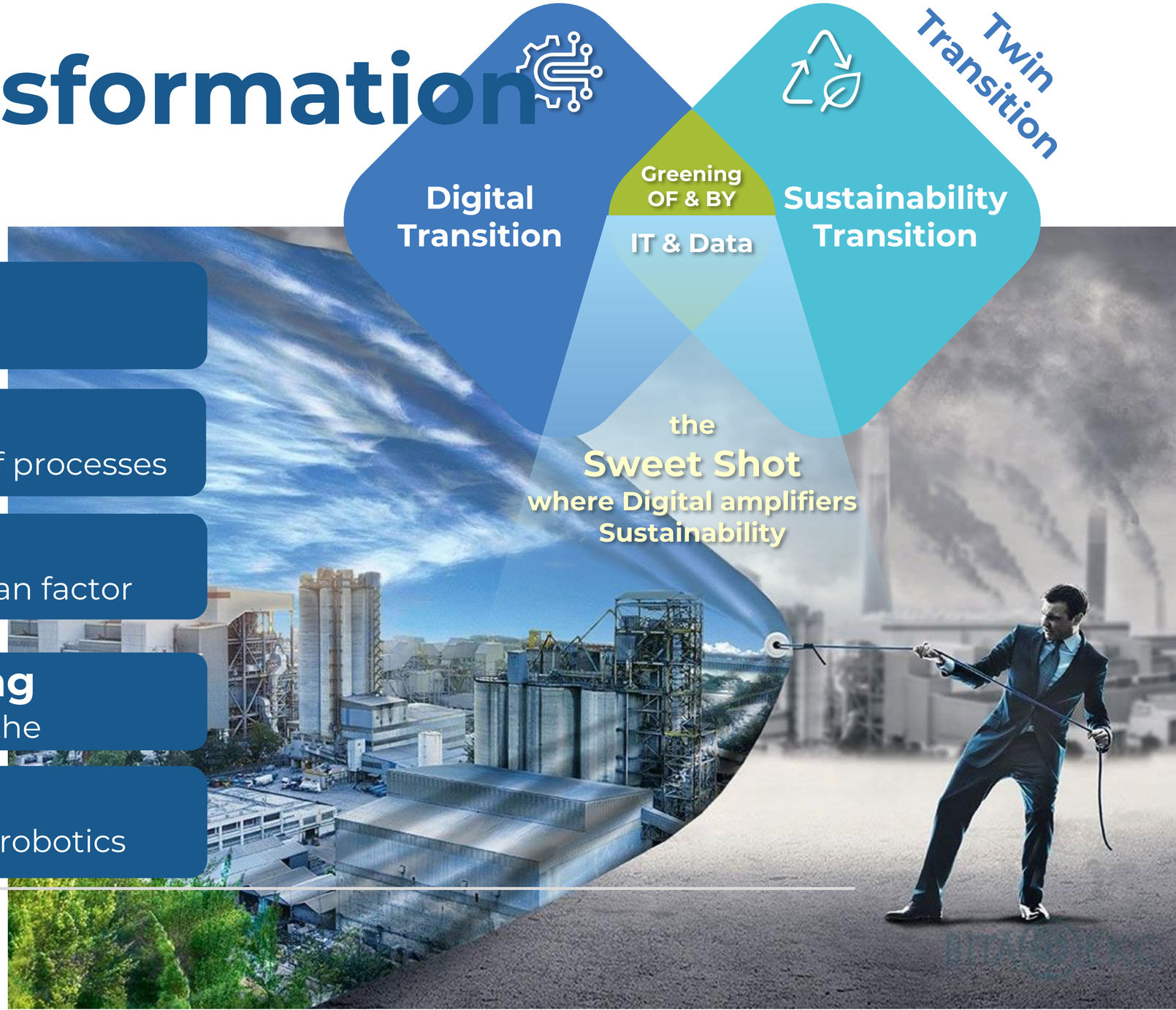
Digitalisation
Get the full spectrum of data

Energy efficiency
Optimising the energy efficiency of processes

Full automation
Minimising the impact of the human factor

Environmental monitoring
Reducing the negative impact on the

Robotisation
Development and manufacture of robotics



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Economic Benefits

Reduced energy consumption of process equipment by up to 10%
This is achieved by selecting and using the most energy-efficient equipment operating modes and optimising process delays.

Reduction of technological losses - up to 15%
This is achieved by preventing violations of established algorithms and standards at all stages of production, and by continuously monitoring technological operations and personnel actions.

Up to 20% increase in energy efficiency of production
This is achieved by continuously monitoring and analysing energy efficiency, controlling the accuracy and timeliness of technological tasks.

Increase in equipment service life by up to 25%
This is achieved by planning and controlling the maintenance and repair of equipment, and quality control of spare parts from various manufacturers.

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International Projects

Project in the field of energy efficiency of production
Control and optimisation of energy costs

funding from the EU's Horizon 2020 research and innovation programme
Under grant agreement No. 873155

Grain storage quality control project
Development of grain quality control technologies

funding from the EU's Horizon 2020 research and innovation programme
under grant agreement No. 101104445

Sustainable development services project
Optimising the processes of two Ukrainian companies

funding from the EU's Horizon 2020 research and innovation programme
under grant agreement No. 101058613

Sustainable development services project
Advising businesses

funding from the EU's Horizon 2020 research and innovation programme
under grant agreement No. 101074549

Energy Security Project of Ukraine
Optimisation of Ukrenergo's information processes

Funded by Tetra Tech ES, Inc. under a USAID contract
№ 72012118C00003

In addition, INNOVINNPROM cooperates with a number of international companies and digital innovation hubs to scale up sustainability solutions and innovative technologies in Ukraine

Energy Projects

INNOVINNPROM has implemented more than 100 projects for installation and adjustment of measuring equipment, laying of data transmission networks, including the manufacture of hundreds of units of its own equipment.

Tetra Tech — 3 projects

Projects under the USAID Energy Security Programme for Ukraine
Receiving, standardising and exporting data from Ukrainian regional power distribution companies to Ukrenergo.

- software was developed and implemented.

BOWI* — grant project

Energy monitoring and analytics of grain elevator performance (57 channels).

- Transceivers and energy meters were designed and manufactured.
- IoT gateways installed and configured.
- cloud services were deployed.
- analytical software was developed.

SCADA — >100 projects

Monitoring the power load of equipment at elevators, oil pressing plants and mills.

- installation of measuring transformers.
- installation and adjustment of measuring controllers.
- integration of data into control systems and external services.

This project has received funding from the EU's research and innovation programme Horizon 2020 within the framework of the BOWI project funded under grant agreement no. 873155

Environmental Monitoring

INNOVINNPROM is a provider of environmental monitoring and control of gas emissions by industrial enterprises.

INNOVINNPROM is the developer of the State Monitoring Programme in the field of atmospheric air protection for 2022-2026 for the Vinnytsia zone.

Our solutions in the field of emissions control and working conditions are one of the pillars of ensuring sustainable production and reducing the negative impact of enterprises on the environment.

Energy Monitoring

When designing and implementing projects, we strive to achieve maximum control over energy consumption. In doing so, we take into account not only total energy but also its active and reactive components. This enables us to analyse the technology more accurately and to influence the course of technological processes more precisely and subtly.

In addition to electricity, our projects monitor and regulate the consumption of all energy resources - gas, heat, water, pellets, etc. - and control generation.

Energy Control Equipment

INNOVINNPROM has developed and manufactures three-phase power analysers, the main advantages of which are high accuracy and compactness (4 measurement channels in one housing), the ability to configure from a smartphone + compact three-phase current transformers. At the request of the customer, equipment of all global brands can be installed.

For more information about INNOVINNPROM power grid analysers, please visit the company's website at link

For more information about INNOVINNPROM's three-phase current transformers, please visit the company's website at link

IIoT Technologies

We have experience in installing IoT equipment (Internet of Things equipment) in existing facilities in existing cabinets.

In order not to interfere with existing data collection and transmission systems, we use IoT gateways - devices that transmit data directly to cloud databases, which transfer and synchronise data.

INNOVINNPROM has all industrial interfaces and data transfer protocols.

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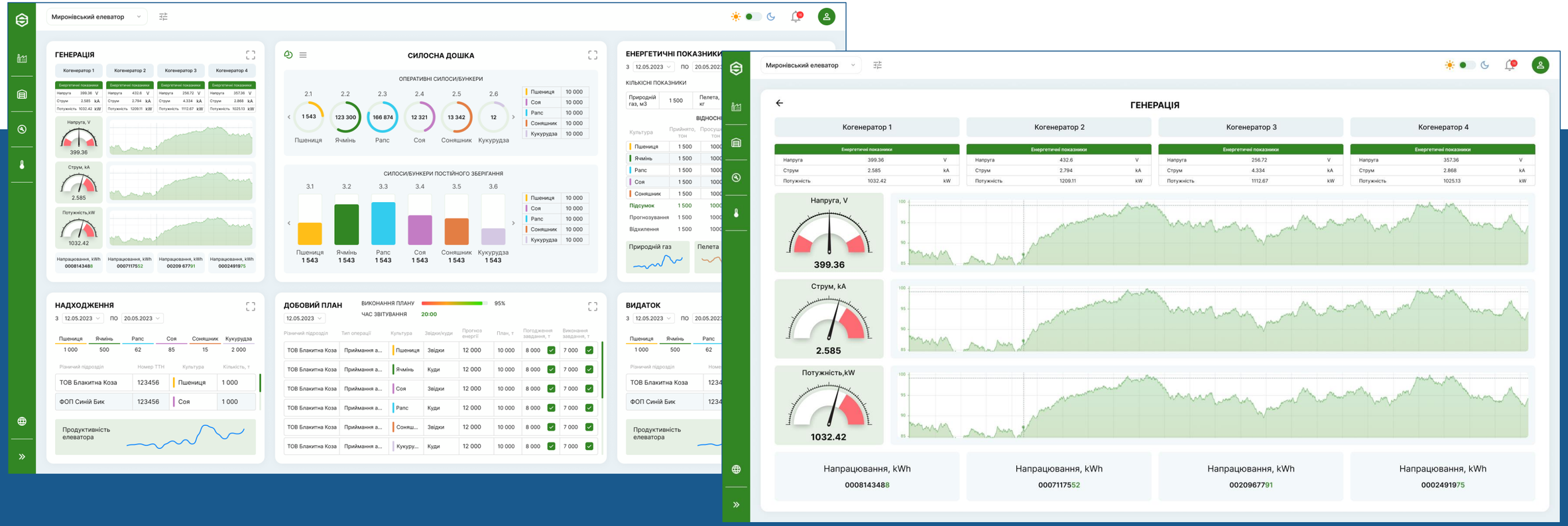
Energy Efficiency

INNOVINNPROM implements a range of solutions for analysing and optimising energy consumption and the efficiency of production processes. We use IoT, Cloud Computing, Big Data, AI & ML technologies to implement real-time optimisation projects for large enterprises.



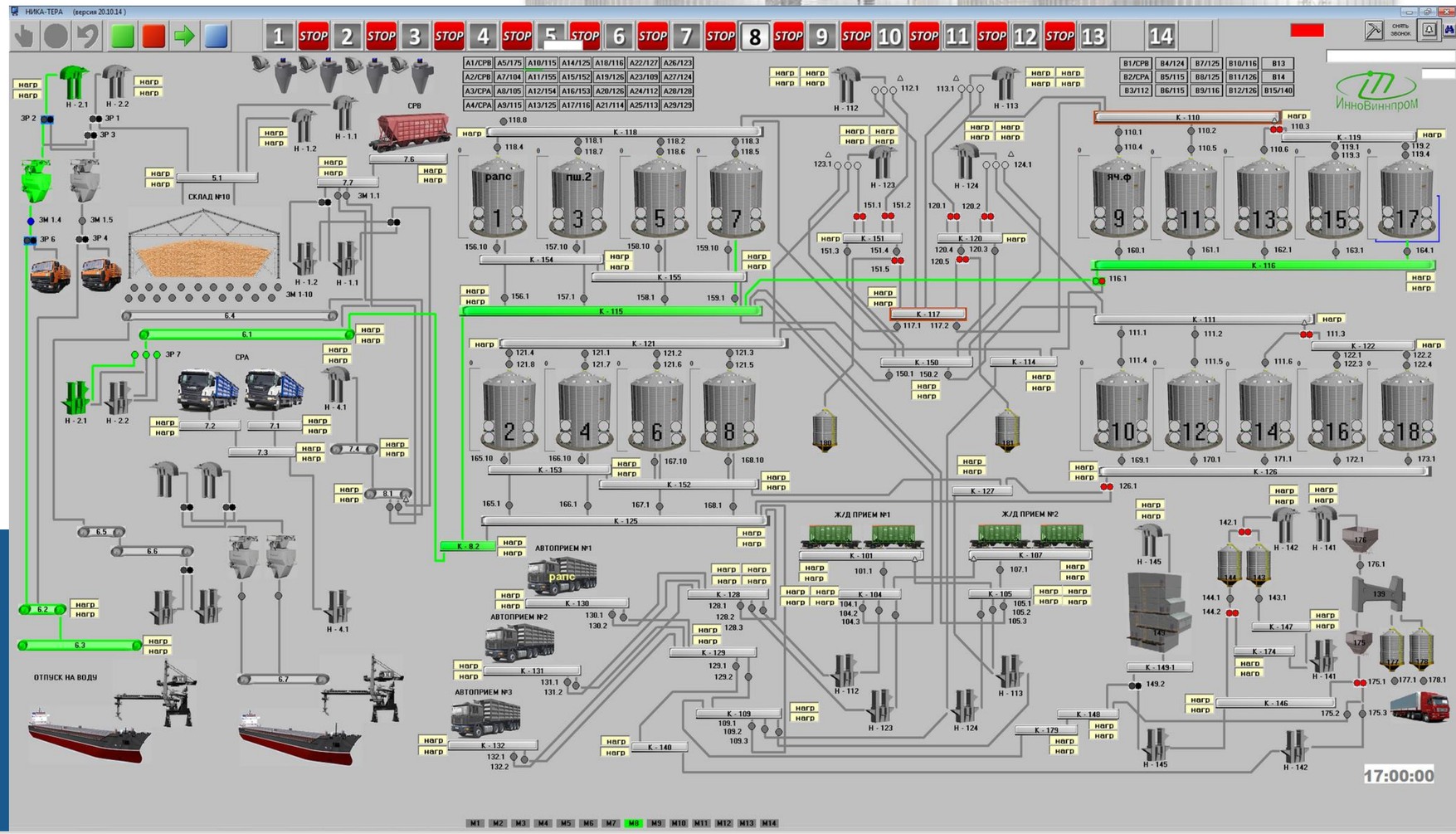
As an example, the screens of a system for monitoring and optimising energy consumption and productivity of a grain elevator are shown. The productivity of production processes is analysed.

Automation

INNOVINNPROM implements a full range of automation solutions for enterprises of any level.

The company's portfolio includes hundreds of successfully implemented projects, including the largest grain elevators and mills in the EU, as well as sea grain port terminals.

We provide the highest level of automation when a giant enterprise is run by one person without a university degree.



As an example, the main screen of a seaport grain terminal control system with tens of thousands of monitoring and control channels is shown. The yellow boxes contain energy monitoring data.

Analytics

INNOVINNPROM covers the entire range of state-of-the-art IT and telecommunications technologies that ensure the digitalisation and automation of enterprises (holdings) at all levels.

We find and solve problems that negatively affect the energy efficiency and production efficiency of enterprises and provide tools to overcome them and reduce financial losses.

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Own Cloud Platform

To process large amounts of data, INNOVINNPROM has developed and maintains its own cloud-based platform for the industrial Internet of Things, SAKURA-IIoT. The platform allows collecting, accumulating and analysing large amounts of data coming from industrial facilities every second and providing users with consolidated information anywhere in the world. The platform is based on modern technologies and is deployed on Hetzner's server facilities with the possibility of migration to cloud services of another provider at the customer's request.

SAKURA-IIOT provides the ability to consolidate all enterprise (holding) data in a single place, to perform fast analytical data processing in real time, to summarise data and provide it to the user in a convenient graphical, tabular and textual form, using cloud computing technologies.

Project website and examples of solutions for link

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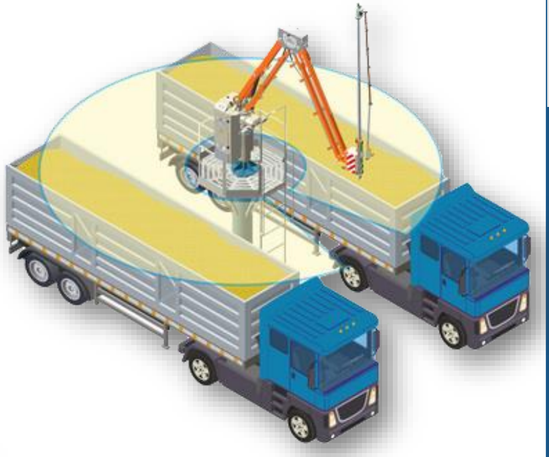
Robotisation

INNOVINNPROM develops and mass-produces robotic systems for solving unique production problems. These include such diverse tasks as automatic sampling of grain products and liquids, diagnostics of car chassis, and automatic loading/unloading of pneumatic mail capsules.

Our robotic systems are an example of the combination of mechanical, hydraulic, pneumatic, electrical, microprocessor-based systems and software at all levels to control them.

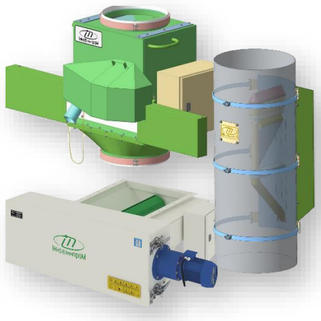
We have implemented more than 50 projects in Ukraine and are currently implementing projects to optimise grain logistics in the seaports of Lithuania and Romania.

Автомобільні системи



Залізничні системи

Потокові системи



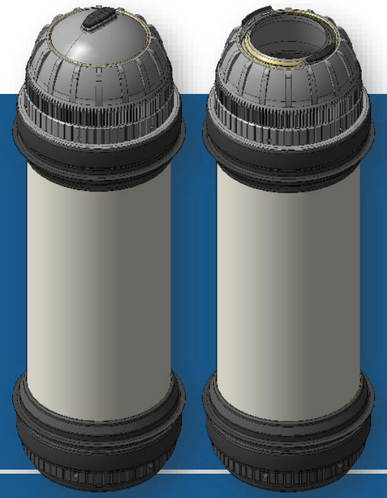
As an example, automatic grain sampling systems are shown from car bodies, hopper wagons, and warehouse flows.

Pneumatic Tube Systems

INNOVINNPROM develops and mass-produces long-distance pneumatic product transfer systems that operate in harsh industrial environments. These pneumatic tube systems are integrated into the logistics and information networks of enterprises. At the same time, the pneumatic capsules are equipped with RFID sensors, which allow monitoring the movement and loading/unloading of the capsules.

A unique feature of INNOVINNPROM pneumatic capsules is the ability to automatically load/unload them. That is, INNOVINNPROM pneumatic tube systems provides the ability to receive and load raw materials directly from product streams.

Automatic capsules

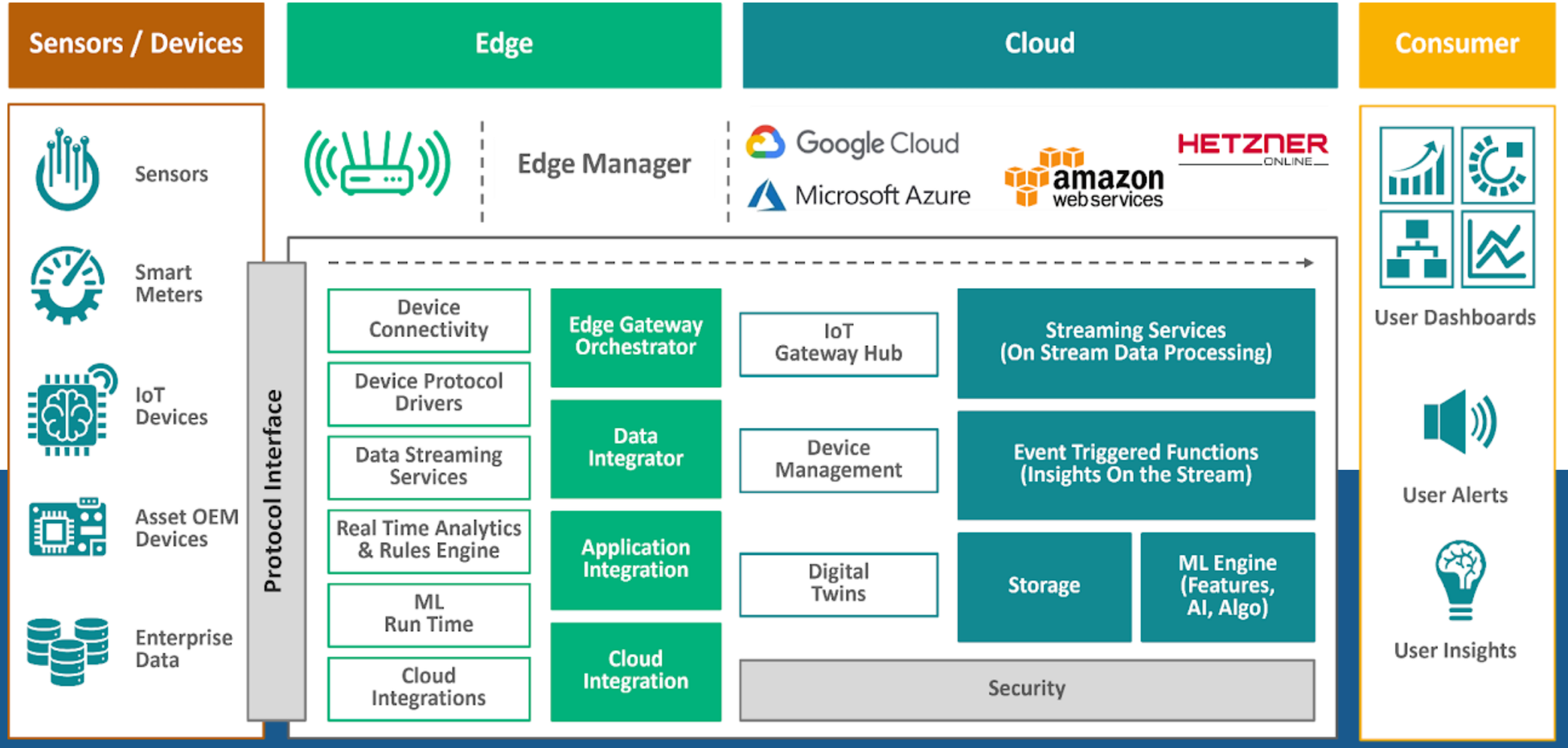


RFID tags for capsules

As an example, we show the implementation of pneumatic mail for the delivery of bulk products over a distance of >350m between the production halls of an enterprise.

Modern Technologies

INNOVINNPROM covers the entire range of modern Industry 4.0 OT and IT technologies that ensure the digitalisation and automation of enterprises (holdings) at all levels.



Internet of Things
Інтернет речей

Artificial Intelligence
Штучний інтелект

Machine Learning
Машинне навчання

Edge Computing
Граничні обчислення

Big Data
Великі дані

Cyber Security
Кібербезпека

Digital Twin
Цифровій двійник

Services

Design

Electrical installation works

Production of controllers

Commissioning and adjustment works

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Maintenance

Construction

Warranty service

Post-warranty service

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Company Structure

INNOVINNPROM has a staff structure that allows it to implement high-tech projects of the highest level of complexity, from sensors to cloud services.

Management
Management of the company and contracts

Marketing department
Marketing and advertising

Project department
Development of project documentation

Contracts department
Maintaining contractual documentation

Operational Technology Department
Development and programming of process control systems

IT department
Software development

Design department
Development of robotics and metal structures

Accounting
Financial accounting and reporting

Implementation department
Implementation and commissioning

Field crews (subcontracting)
Equipment installation, cable laying

Company Staff

The company employs staff exclusively with higher education. including:

- with a PhD (Doctor of Philosophy) degree in technical and economic sciences
  - 3 employees
- postgraduate students of higher education institutions
  - 2 employees
- certified specialists of Schneider Electric, Siemens
  - 3 employees

Partnership Network

INNOVINNPROM

Vendors

SIEMENS
Schneider Electric
RITTAL
WAGO
ZEMIC
CAMOZZI
ifm
ПРОМФАКТОР
CISCO
TELTONIKA
FESTO
HYDRAULIC LINE® ГИДРАВЛИКА ИЗ ПЕРВЫХ РУК
Klemsan®
ОВЕН
MOXA
OMRON
LAUMAS®
ETI
ABB
Weidmüller
PHOENIX CONTACT INSPIRING INNOVATIONS
electro cable GROUP
EATON
IOT Solutions
DKC
VIPA A YASKAWA COMPANY
MOELLER
DEGSON®
Develiot
ОДЕСКАБЕЛЬ
OBO BETTERMANN
УКРАЇНСЬКА ЕЛЕКТРОТЕХНІЧНА КОРПОРАЦІЯ АСКОУКРЕМ
LAPP GROUP
БЕРДЯНСКИЙ КАБЕЛЬНЫЙ ЗАВОД

Suppliers

СВ АЛЬТЕРА
galantpol
ALT UKRAINE

Designers

ПОЛТАВАГРОПРОЕКТ

IT

Google Cloud
influxdb
Microsoft Azure
chronograf
amazon web services
HAPROXY
Grafana Labs
PostgreSQL
docker
kubernetes
PATRONI
HAULMONT
Apache Guacamole
spring
UltraVNC
IntelliJ IDEA
APACHE HTTP SERVER PROJECT
MESH
Java
HETZNER ONLINE

Main Clients

МХП АГРОІНДУСТРІАЛЬНИЙ ХОЛДИНГ
UkrLandFarming Public Limited Company
RIOLA CONSTRUCTION GROUP
KERNEL GROUP OF COMPANIES
АгроСпецСервис
Якість Королівська, а ціна народна! КОРОЛІВСЬКИЙ СМАК
АСТАРТА-КИЇВ агропромхолдинг
Миколаївський комбінат хлібопродуктів
ДЕРЖАВНА ПРОДОВОЛЬЧО-ЗЕРНОВА КОРПОРАЦІЯ УКРАЇНИ
НОВІ ПРОДУКТИ
cygnet AGROCOMPANY
НІБУЛОН
агро прайм ХОЛДИНГ
НТТ Новотех-термінал
agrotrade

Partners

ПА ПРОМАВТОМАТИКА
Our synergy is your energy
VTN vtnled.com
7 Med levels
VINAERO
Liana Company
Web AI Viasoft Mobile Electronics
ТЕРМІЯ
MAITEK
ПОГ "Вінницьке УВП УТОС"
ГРЕМПІС НВП "ГРЕМПІС" автоматизація обліку енергоносіїв
TIRAS

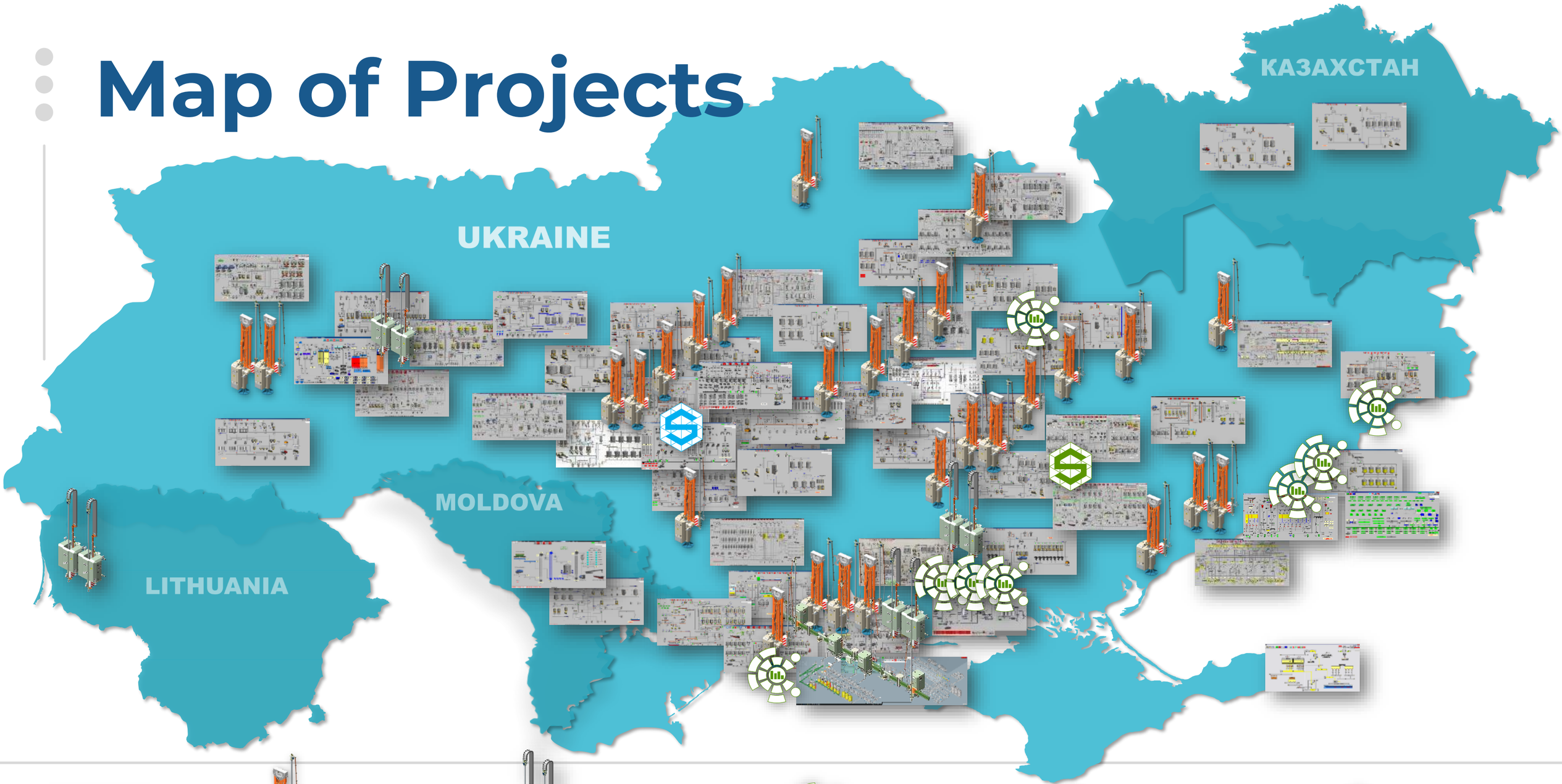
Universities

ВІННИЦЬКИЙ НАЦІОНАЛЬНИЙ ТЕХНІЧНИЙ УНІВЕРСИТЕТ ВНТУ VINNYTSIA NATIONAL TECHNICAL UNIVERSITY
ДонНУ
ДОНЕЦЬКИЙ НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ ІМЕНІ ВАСИЛЯ СТУСА

Clusters

АППАУ
BWI
AIM
Automation and Instrument Making Cluster
greenSME
SEEDS OF BRAVERY Support of Ukrainian Deep Tech startups
CLIMATE INNOVATION VOUCHERS
GEMSTONE
EURO CLUSTERS
5ROCKS GLOBAL
USAID FROM THE AMERICAN PEOPLE

Map of Projects



SCADA
> 1000 I/O

Автомобільні пробовідбірники

Залізничні пробовідбірники

SAKURA-B
MES/ERP/PLM

SAKURA-T
Енергоефективність

SAKURA-ECO
Екомоніторинг

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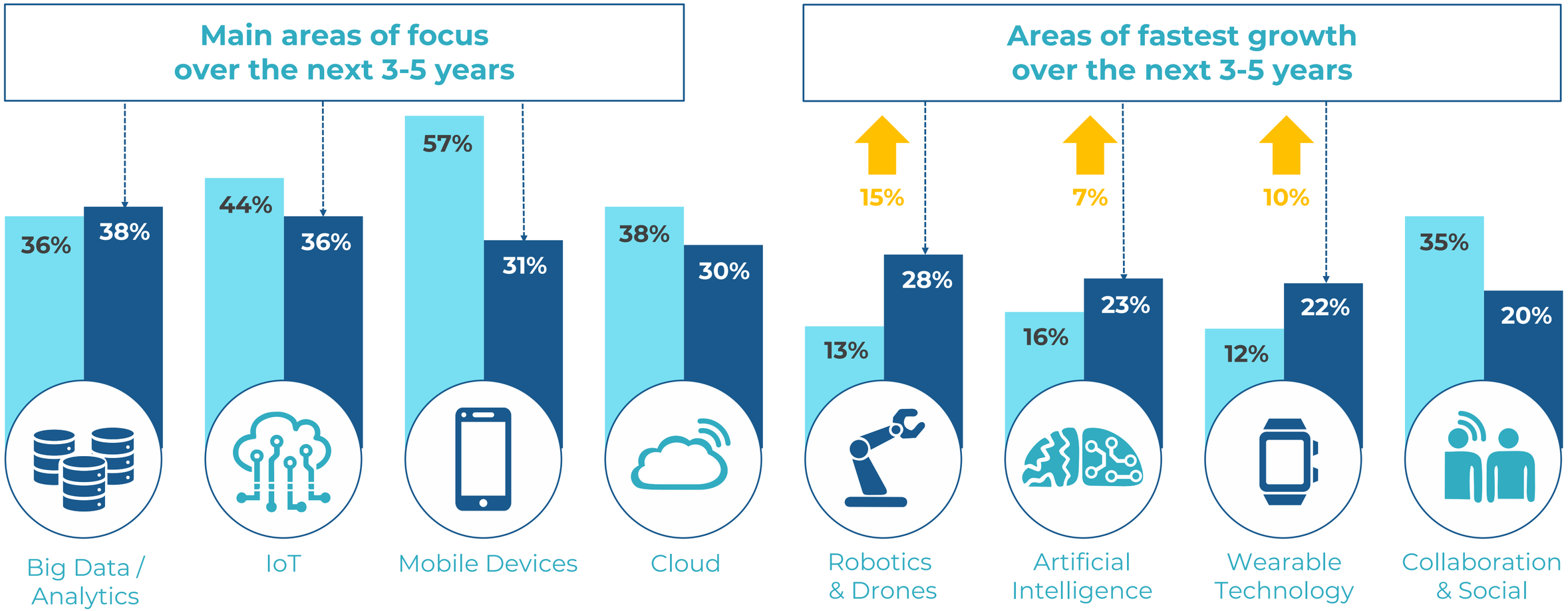
Investments



Investing today

Investing over the next 3-5 years