





UKRAINIAN GLOBAL INNOVATION VISION 2030

Public discussions

Presentation

Public discussions

Document



UKRAINIAN GLOBAL INNOVATION STRATEGY 2030

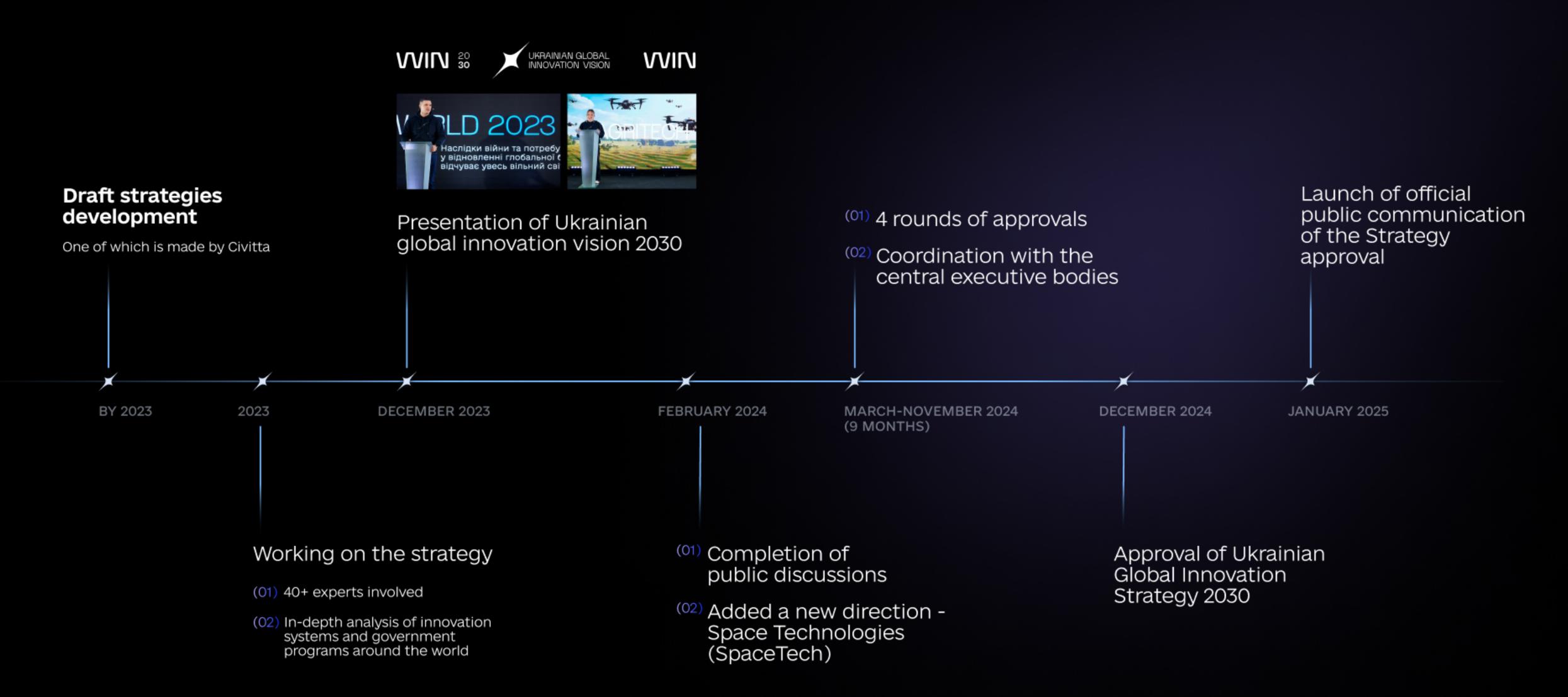
Document

Operational plan

Presentation

Framework of sectoral strategies







~30-40%

not included in the final version of the Ukrainian Global Innovation Strategy 2030

THE STATE HAS TWO INNOVATION STRATEGIES

(01) Innovation Strategy (Ministry of Education and Science of Ukraine)

(02) Ukrainian Global Innovation Strategy 2030 – WINWIN

DEFENSETECH	MEDTECH	AGROTECH
XR	AUV	ВІОТЕСН
GREENTECH	AI	SEMICONDUCTORS
SECURE CYBER SPACE	FLUID ECONOMY	EDTECH
GOVTECH	SPACETECH	





Create the most favorable conditions for technology business in the world. That will lead to economic growth, GDP increase and high welfare of Ukrainians

BUILD THE MOST CONVENIENT DIGITAL STATE IN THE WORLD

With competitive, strong human capital

TO BECOME THE MOST INNOVATIVE COUNTRY IN THE WORLD

What will guarantee the ability to effectively overcome the challenges of the future



NEW STRUCTURE FOR INNOVATION DEVELOPMENT

(O1)	Coordination of cross-sectoral activities	Vice Prime Minister for Innovations, Development of Education, Science and Technologies	
(02)	Formation of innovation policy	Ministry of Digital Transformation of Ukraine	
(03)	Engaging business, scientists, educators and communities	Innovation Development Council	
(O4)	Formation of policy in the fields of innovation and digital transformation	CDTOs in central executive authorities	
(05)	New state body responsible for the implementation of innovation strategy and attraction of investments	State Agency for WINWIN Specialized the Innovations Department WINWIN CoEs	
(06)	Regional implementation of innovation development and digital transformation	CDTOs at Technology the regional transfer Diia.Business TISC government level centres	
(07)	Implementation of digital transformations and innovations at the community level	Digital Community Leaders	



O1 Simplifying procedures for innovative projects	Establishment of a state innovation bank / Launch of a strategic innovation fund	Simplifying access to the stock market	16 Developing strategies for the development of critical technologies
02 Implementation of WINWIN priority areas in Diia.City	07 Formation of a network of technology transfer centers	Creating platforms for collaboration between science and business	17 Implementation of a system for assessing the social impact of innovations
03 Launch of regulatory sandboxes	08 Launch of public-private co-investment programs	Development of innovation infrastructure networks	18 Monitoring the effectiveness of deregulation
04 Creating a legislative framework for Science.City and innovation clusters	09 Creating mechanisms for returning investments to the state	14 Launching sectoral programs to support business development in priority sectors	19 Regular review of regulatory barriers
05 Development of mechanisms for public-private partnership in innovation	10 Tax incentives for R&D	15 Creation of long-term financing mechanisms	20 Assessment of achievement of strategic missions





Ukraine will transform defense technologies into a global intellectual operational system of national security

WEAPON SYSTEMS BIOLOGICAL AND GENETIC ENGINEERING TECHNOLOGIES

- AI AND MACHINE LEARNING IN DEFENSE
- MODERN
 ELECTRONICS
 AND ADVANCED
 MATERIALS

SENSORS
AND DATA
ACQUISITION

≠ ENERGY SYSTEMS

SPACE TECHNOLOGIES FOR DEFENSE DEVELOPMENT
OF INNOVATIVE
CYBER DEFENSE
SYSTEMS

PRIORITY

- Adoption of 10+ draft laws regulating the development of defense technologies, including regular innovative procurement
- Development of an intellectual property protection system in the DefenseTech sector
- Launch of a comprehensive system for defense R&D project support, enabling cooperation with international partners

OTHER TASKS

Creation of a unified information system for coordinating interagency cooperation

INFRASTRUCTURE

PRIORITY

- Creation of 10+ regional military technology testing centers
- ★ Launch of 5+ modernized test sites for the implementation of autonomous systems and robotics
- Operation of a network of 20+ laboratories for pilot testing with access to specialized equipment

OTHER TASKS

Organization of 10+ R&D centers at universities for research in defense technologies

MARKET DEVELOPMENT

PRIORITY

Creation of 10+ export-oriented products in the DefenseTech sector

OTHER TASKS

Support for 50+ startups entering international markets

EDUCATION AND WORKFORCE

PRIORITY

- Training of 1,000+ specialists in the field of defense technologies
- ★ Launch of 5+ educational programs with international partners

OTHER TASKS

- Organization of 50+ hackathons and competitions for innovation development
- Operation of a specialized higher education institution for training DefenseTech professionals

SCIENTIFIC RESULTS AND INNOVATIONS

PRIORITY

- Implementation of 10+ solutions in the defense sector
- Development of 15+ autonomous systems and robotic solutions

OTHER TASKS

- Registration of 20+ patents, including new materials and cyberspace
- ★ Launch of 15+ innovative projects with new materials used in defense

PARTNERSHIPS

PRIORITY

- Signing of 10+ international memorandums with defense companies
- ✓ Implementation of 15+ joint projects with NATO and the EU

OTHER TASKS

Establishment of the EU Defense Innovation Office for cooperation coordination

FINANCIAL INSTRUMENTS

OTHER TASKS

- Engagement of 10+ international financial partners to support projects
- Creation of a system for financial incentives for innovative procurement

ORDER SYSTEM

PRIORITY

- Functioning of a unit for innovative procurement that implements technologies via Brave 1
- ★ Implementation of 50+ innovative projects through innovative procurement

OTHER TASKS

- Reduction of technology implementation time by 50% through process optimization
- ★ Launch of a system for monitoring innovative solutions in procurement

PRIORITY R&D AREAS

- Formation of a current list for critical technologies for defense
- ★ Development of 10+ roadmaps for the development of key R&D areas
- ★ Lauch of 30+ strategic R&D projects in AI, cybersecurity, and new materials
- Operation of technology trend monitoring system that defines innovation priotities



Ukraine is creating an innovative healthcare system that transforms technology into a tool for restoring human potential and restoring quality of life through a personalized approach to physical, mental and social health



MEDICAL DEVICES

Bionic/innovative prosthetics, skin repair solutions, technologies for improving mental health



THE USE OF AI IN HEALTHCARE





DIGITAL HEALTH

In particular, mobile applications for health monitoring

DEREGULATION AND CREATION OF FAVORABLE CONDITIONS FOR THE MARKET

PRIORITY

- Introduce a fast track for certification of innovative medical solutions, such as bionic prostheses, skin repair materials, digital platforms for mental health
- Create a regulatory sandbox for testing innovative medical solutions
- Harmonization of standards with the EU to facilitate exports

OTHER TASKS

- Deregulation to simplify certification and registration of medical devices
- Simplification of procedures for clinical trials of innovative solutions
- Identification of key market players (start-ups, research centers manufacturers) to create a sustainable innovation ecosystem

DEVELOPMENT OF LOCAL PRODUCTION OF INNOVATIVE SOLUTIONS

PRIORITY

Facilitate the launch of 1-3 Ukrainian production facilities for innovative bionic prostheses, including robotic limbs with sensors, with the support of grants, international funding and/or preferential taxation

OTHER TASKS

- Development of national standards for bionic prostheses with the participation of international experts
- Demonstrate successful Ukrainian cases on international platforms to attract investors from the US, EU and Asia

MATERIALS FOR SKIN REGENERATION

PRIORITY

Facilitate the launch of 1-3 Ukrainian production facilities for skin regeneration materials through state support programs and international grants

- Create a subsidy program for Ukrainian startups in the field of skin regeneration
- Presentation of demonstration cases to attract the attention of foreign partners

DIGITAL PLATFORMS FOR MENTAL HEALTH

PRIORITY

- Development of digital platforms to support mental health, including diagnostics, monitoring and counseling
- ✓ Integrate platforms into state rehabilitation programs for veterans, IDPs and other vulnerable groups

OTHER TASKS

Updating standards for mental health innovation

LOCALIZATION OF FOREIGN PRODUCTION FACILITIES

PRIORITY

- ★ Facilitate the localization of 1-2
 production facilities of international
 companies in the field of bionic
 prostheses with a focus on high valueadded components, such as sensors
 and microprocessors
- Develop and implement preferential conditions for international companies planning to localize production in Ukraine

OTHER TASKS

Localization of production of innovative materials for skin regeneration through public-private partnership programs

VARIOUS

DEVELOPMENT AND IMPLEMENTATION 5+ AI SOLUTIONS FOR DIAGNOSTICS

PRIORITY

- Creation of a competence center for AI in medicine
- ✓ Integration of AI solutions into state medical programs

OTHER TASKS

✓ Certification of 10+ AI solutions for medical diagnostics

TELEMEDICINE

PRIORITY

- ★ Facilitate the implementation of 10+ remote monitoring services
- ✓ Development of standards for telemedicine services

OTHER TASKS

Integration with European telemedicine networks

TECHNOLOGIES FOR RECOVERY

PRIORITY

- Promoting the development of 5+ innovative solutions for recovery
- ✓ Integration of VR/AR technologies into recovery processes

- Creating a network of recovery innovation centers
- ✓ Implementation of digital recovery monitoring systems

DEVELOPMENT OF THE MARKET FOR BIONICS PROSTHESES COMPONENTS

PRIORITY

- Facilitate the launch of 1-2 production facilities for bionic prostheses, such as mechanical components, sensors and batteries
- Implementation of a state program of subsidies and grants for the development of this area

OTHER TASKS

- Cooperation with Ukrainian enterprises to develop innovative solutions in production of components
- Attracting international partners to supply high-tech equipment

ESTABLISHMENT OF A CENTER OF EXCELLENCE (COE)

PRIORITY

Establishment of a CoE in the field of medical technologies for R&D, certification and scaling of innovative solutions

OTHER TASKS

- Establishing partnerships with universities, science parks and international research centers
- ✓ Integration into 3+ European research networks
- Participation in 10+ international clinical trials
- Creation of 5+ joint R&D projects
- Involvement of international experts for mentoring

INFRASTRUCTURE DEVELOPMENT AND INNOVATION ECOSYSTEM

CREATION/STRENGTHENING OF A MEDTECH CLUSTER

- Formation of a cluster for the integration of start-ups, manufacturers and research institutions
- Opening innovation hubs for knowledge sharing and rapid commercialization of technologies
- Promoting the establishment of medical technology transfer centers

SUPPORT PROGRAMS FOR STARTUPS IN THE FIELD OF MEDTECH

LAUNCH OF GRANT PROGRAMS FOR STARTUPS IN AT LEAST THREE PRIORITY AREAS

- ★ Bionic prostheses and prosthetics
- ★ Materials for skin regeneration
- Digital platforms for mental health
- Providing financial support for 10+ startups through acceleration programs

EDUCATION AND WORKFORCE

PRIORITY

- ★ Training of 1 000+ specialists in medical engineering
- ★ Launch 2+ PhD programs in medical technologies

- Creation of 5+ international internship programs
- Creating an online platform for professional development



Ukraine has become a center for biotechnological innovations that ensure the sustainable development of medicine, agriculture, end environmental restoration, contributing to the country's economic stability and ecological harmony

DEVELOPMENT OF BIOTECHNOLOGIES FOR SUSTAINABLE AGRICULTURE

BIOTECHNOLOGIES
FOR QUALITY
OF LIFE

PRIORITY

- Hramonization of Ukrainian legislation with EU norms in biosafety and biotechnology regulation.
- Implementation of a transparent procedure for clinical trials.
- Reduction of the registration time for biotechnological products by 50%
- ★ Introduction of a regulatory sandbox for testing innovations of Biotech startups
- Development of a regulatory framework for public-private partnerships in the Biotech sector.

OTHER TASKS

- Development of mechanisms for intellectual property protection on biotechnology
- Creation of tax incentives for investors in the biotechnology sector
- Development of a special legal regime Science. City for biotechnology

INFRASTRUCTURE

PRIORITY

- Creation of WINWIN BioTech CoE.
- Opening of bio-banks for storage and analysis of biological materials
- Promotion of intrastructure for collective use in research and development
- Implementation of an information platform. for coordination and industry infrastructure support

OTHER TASKS

- Establishment of 2-3 collective-use centers for universities and businesses
- Modernization of 5+ university laboratories
- Creation of 3+ R&D laboratories in partnership with business

MARKET OPENING AND DEVELOPMENT

PRIORITY

- Integration into Diia.City, including biotech companies as residents of Diia.City, with the development of a separate category for stimulating sectoral development
- Introduction of grant programs to support SMEs in the biotechnology sector

- Expansion of the local market support for innovations and the local sector through tax incentives, infrastructure programs, and stimulating demand for biotechnology in agriculture and healthcare
- Creation of a special fund to support Biotech startups focused on global innovation
- Launch of 10+ innovative Biotech products into international markets through certification and marketing programs

EDUCATION AND WORKFORCE

PRIORITY

- Implementation of 5+ internship programs for students in cooperation with businesses
- Organization of 10+ informational campaigns to promote biotechnology among youth

OTHER TASKS

- ★ Training of 200+ new specialists in the field of biotechnology
- Conducting 20+ training sessions for lecturers and specialists in biotechnology
- ★ Launch of 3+ new educational programs in partnership with private enterprises

SCIENTIFIC RESULTS AND INNOVATIONS

PRIORITY

- Implementation of 10+ projects for phytoremediation of contaminated lands
- Development/discovery/support of 3+ successful solutions for personalized medicine

OTHER TASKS

- Development/discovery/support of 15+ new innovative solutions in the field of biotechnology
- Registration of 20+ patents in the field of biotechnology (biomarkers, genetic development, biofuels, etc.)

PARTNERSHIPS

PRIORITY

Integration of Biotech companies into Horizon Europe programs

- Signing of 10+ international memorandums with universities, businesses, and scientific institutions
- Organization of an international biotechnology forum to attract investors and partners
- ★ Formation of 5+ strategic partnerships with leading companies in the biotechnology sector
- Implementation of 5+ international R&D projects involving foreign experts

FINANCIAL INSTRUMENTS

PRIORITY

- ★ Launch of a state grant program to support Biotech startups
- Engagement of 10+ international financial partners

OTHER TASKS

Implementation of state guarantee mechanisms to attract private investments

ORDER SYSTEM

PRIORITY

- ★ Launch of a unified electronic platform for coordinating public procurement
- Implementation of a transparent procedure for clinical trials

- Establishment of a unit for innovative procurement of state projects in Biotech
- ★ Implementation of 10+ public procurements for Biotech solutions
- ★ Reduction of project implementation time through procurement by 30%
- ✓ Pilot testing of 5+ Biotech projects through state programs



Ukraine is creating the world's best digital governance system, where technology ensures maximum freedom and mobility for citizens and businesses



PRIORITY

- Development and implementation of unified standards for the entire software development cycle
- Introduce a fast track for the implementation of innovative digital solutions in the field of governance (Mriia, use of Al, etc.)
- Creating a regulatory sandbox for testing innovative govtech solutions, including Al and XR
- Harmonization of standards with the EU to facilitate the export of govtech solutions

OTHER TASKS

- Define a clear structure and functions of public authorities for the development and implementation of legislation and project management
- Adoption of procedural standards for the preparation, procurement, sale and implementation of digital products and active involvement of the private sector
- Developing regulations and guidelines for collecting, integrating and analyzing data from various sources, including Al
- Implementation of advanced analytical tools for data processing and interpretation, launch of a full-fledged data-driven approach

INFRASTRUCTURE

PRIORITY

- Establishment of the WINWIN CoE of digital competences
- Establishment of the WEF GGTC Govtech Kyiv Centre
- Establishment of govtech incubators for the development and testing of innovative solutions in special test environments

OTHER TASKS

Identification of key market players to create a sustainable innovation ecosystem

MARKET DEVELOPMENT

PRIORITY

- Integration of innovative solutions (private sector), including artificial intelligence, into less than 10 public services
- Establishing a mechanism for interaction between the private sector, developers and government agencies
- Launching independent public digitalization surveys to assess service satisfaction and the number of digitized services

OTHER TASKS

Strengthening the private sector by supporting Ukrainian consortia and GovTech alliances

EDUCATION AND WORKFORCE

PRIORITY

- Establish a network of GovTech incubators in the 5 largest cities
- ★ Launch a separate acceleration program for GovTech startups

OTHER TASKS

- Develop and implement regular training for civil servants on the use of data and analytical tools
- Strengthening the capacity of central executive authorities and state-owned enterprises to collect, analyze and use data
- Develop training programs for working with data disaggregated by gender and other social indicators

FINANCIAL INSTRUMENTS

PRIORITY

Creation of a fund to support innovative projects in the field of governance (grants)

PARTNERSHIPS

PRIORITY

Active promotion of Ukrainian GovTech solutions and expertise to the world through the Digital State UA platform

OTHER TASKS

- Create mechanisms for engaging staff of Ukraine's diplomatic missions abroad to promote Ukrainian business
- Development of Ukraine's digital and technological brand in the field of GovTech
- ✓ Integration with 3+ international GovTech platforms
- ✓ Participation in 10+ international GovTech projects
- Engaging international experts for mentoring / potentially creating a separate board
- Creation of 5+ joint R&D projects with international partners

THE SYSTEM OF ORDERS

OTHER TASKS

Strengthen communication on competitions and tenders (in cooperation with international partners) to ensure greater involvement of Ukrainian business



Ukraine is a high-tech agricultural country where strong human capital, natural resources and technologies enhance Ukraine's competitive advantage in the context of global food security and environmental revival

RESTORATION OF DEGRADED LAND

AUTOMATED HARVESTING SYSTEMS

PROCESSING OF AGRICULTURAL RAW MATERIALS WITH THE HELP OF TECHNOLOGY

PHYTOREMEDIATION

PRIORITY

- ✓ Ukrainian legislation is harmonized with EU regulations on agricultural innovation and environmental sustainability
- Develop a regulatory framework for the use of autonomous machinery and precision farming technologies
- Implementation of intellectual property protection mechanisms for Agrotech startups and innovations

INFRASTRUCTURE

PRIORITY

- ★ WINWIN Agrotech CoE is opened
- ★ A national agro-innovation cluster involving 50+ participants (universities, start-ups, agricultural producers) has been created
- ★ A network of 10+ test sites for testing autonomous vehicles and new agricultural technologies is launched

OTHER TASKS

- Open 3-5 R&D centers at leading agricultural universities to develop new technologies
- ✓ Prioritize funding in the form of grants and loans for R&D and projects focusing on the processing of agricultural raw materials

DEVELOPMENT OF THE MARKET

PRIORITY

- Attracting investments in the Agrotech sector through public-private partnerships
- Establish grant programs to support SMEs and start-ups in the Agrotech sector

- ✓ Include agro-technology companies to Diia.City residents with the creation of a special category for the industry
- 10+ innovative agro-technology products launched on international markets

EDUCATION AND WORKFORCE

PRIORITY

- Training programs for 1,000+ specialists in agro-technology launched in cooperation with universities and vocational education institutions
- ✓ Introduce retraining programs for engineers from other industries to work in Agrotech

OTHER TASKS

- 5+ new educational programs on agroinnovation, precision farming and agricultural processing implemented
- 3+ acceleration programs for Agrotech startups organised

SCIENTIFIC RESULTS AND INNOVATIONS

PRIORITY

- 5+ successful cases of Agrotech use in the restoration of degraded land developed

OTHER TASKS

- 20+ patents for innovative developments in Agrotech
- ★ 10+ innovative solutions in the field of vertical, hydroponic and precision agriculture implemented

PARTNERSHIPS

PRIORITY

- 5+ memoranda with international organizations and enterprises for the implementation of joint projects
- International agro-innovation forum organized to attract new partners and investors

- Ukrainian Agrotech companies integrated into Horizon Europe and other global initiatives
- ✓ Developed and launched joint R&D projects with leading international companies in the field of agrotechnology



Ukraine has a future-ready educational ecosystem to create, develop and return the most talented professionals, creating a global competitive environment

SIMPLIFYING THE REGULATORY ENVIRONMENT

simplifying the licensing system for Edtech businesses and IT schools; establishing criteria for evaluating and accrediting non-formal education courses; promoting the protection of intellectual property rights for educational products; ensuring access of Edtech businesses to innovation clusters

INNOVATIVE SOLUTIONS FOR FORMAL AND NON-FORMAL EDUCATION (INCLUDING PERSONALIZATION OF EDUCATIONAL TRAJECTORIES)

CREATING AN INNOVATIVE EDUCATIONAL ENVIRONMENT BY SUPPORTING TECHNOLOGICAL SOLUTIONS FOR LIFELONG LEARNING

PLATFORMS FOR RETRAINING AND ADVANCED TRAINING USING AI

PRIORITY

- Simplified licensing procedure for EdTech businesses and IT schools (by Q3 2025)
- The introduction of accreditation of online educational courses provides a basis for simplifying licensing
- Criteria for the recognition of non-formal education results in formal education are established (by Q4 2025)

OTHER TASKS

- Integration of EdTech solutions into state education standards creates an opportunity for recognition of nonformal education
- An accreditation system for online educational courses is created

INFRASTRUCTURE

PRIORITY

- Establishment of the WINWIN EdTech CoE (includes support for universities and infrastructure development)
- 5+ pilot projects on the use of VR/AR in education launched
- Al solutions integrated into the educational process of at least 10 educational institutions

MARKET RESULTS

PRIORITY

Launch of accelerators and support for startups within Diia.City stimulate the creation of new companies. 20+ new EdTech companies created

OTHER OBJECTIVES

- Attract investments in Ukrainian EdTech startups
- ★ Introduction of government grants and marketing campaigns helps attract investment

EDUCATIONAL OUTCOMES

PRIORITY

- 1,000+ teachers trained in the use of EdTech tools. The development of training programs for teachers and educators is focused on achieving this indicator

OTHER TASKS

- Diia.Education expands students' access to digital solutions
- Integration of EdTech solutions into state education standards supports the creation of new courses

INNOVATIVE RESULTS

PRIORITY

- 5+ Al solutions for personalized learning developed
- ✓ Implementation of pilots for STEM centers and robotics supports the development of innovative solutions



Ukraine has transformed its historical technological potential into a strategic platform to strengthen Europe through the creation of advanced semiconductor manufacturing and integration into global technology supply chain





INTEGRATION INTO GLOBAL VALUE AND SUPPLY CHAINS UNDERGOING RECONFIGURATION

PRIORITY

- Adoption of a law that creates incentives for the development and investment in the microelectronics sector (by Q4 2025)
- Harmonization of Ukrainian legislation with EU norms, particularly with the provisions of the European Chips Act

OTHER TASKS

Development of tax and investment incentives to support national manufacturing capacities in the microelectronics sector

INFRASTRUCTURE

PRIORITY

- Establishment of the National Center for Microelectronics Technologies (WINWIN Semiconductor CoE), which will unite industry initiatives
- Organization of production capacities for microchips with technological nodes in the 180-130 nm range
- Modernization of 3+ university laboratories and research laboratories in the microelectronics sector

OTHER TASKS

Creation of science parks and innovation clusters for the operation of higher education institutions, research institutions, and private enterprises

MARKER DEVELOPMENT

PRIORITY

- Market Opening: facilitating investment in creating production capacities
- Signing of 5+ memoranda with EU market enterprises for the implementation of joint projects, investment programs, and integration into the European Chips Act framework
- ★ Launch of grant programs for SMEs in the microelectronics sector

- Integration of Ukrainian microelectronics into the development of other innovation clusters, especially military technologies
- ★ Inclusion of microelectronics companies in Diia.City with the development of a special category for the sector
- Promotion of the integration of Ukrainian microelectronics into global value and supply chains, including both defense and civilian sectors

EDUCATION AND WORKFORCE

PRIORITY

- Launch of training programs for 500+ new specialists in semiconductor technologies in cooperation with vocational education institutions and universities
- Implementation of a retraining program for engineers to integrate into microelectronics projects

OTHER TASKS

Establishment of training centers or programs for high school students for early engagement in the sector

SCIENTIFIC RESULTS AND INNOVATIONS

PRIORITY

- Integration of Ukrainian microelectronics into the development of other innovation clusters, including military technologies
- Aqcuisition of 20+ patents for the development and innovation in microelectronics, including radiation-resistant microchips and energy solutions

PARTNERSHIPS

PRIORITY

- Formation of partnerships with 3+ leading companies in the sector for joint R&D projects
- Integration of Ukrainian companies into global programs such as Horizon Europe to support R&D

OTHER TASKS

Organization of an international microelectronics forum to attract new investors and partners



Ukraine has become a global leader in implementing GreenTech innovations, creating a sustainable economy to preserve the country's environment, the planet, and future generations





GREEN ENERGY TRANSITION

MICROGRIDS AND SMART GRIDS

PROJECTS IN GREEN METALLURGY

TECHNOLOGIES FOR ENERGY-EFFICIENT INDUSTRY

BIOENERGY AND BIOMETHANE PRODUCTION

PRIORITY

- Harmonization of Ukrainian legislation with European standards in green energy, including digital networks, support for microgrids, and energy storage systems
- ✓ Introduction of tax incentives for decarbonization and modernization projects based on 3D principles (Digitalized, Decentralized, Decarbonized)
- Implementation of a regulatory framework for the localization of green energy components (solar panels, batteries, inverters)

FINANCIAL INSTRUMENTS

PRIORITY

- ✓ Implementation of a grant program to support startups in green technologies
- Introduction of state guarantees to stimulate private investment in the green economy

OTHER TASKS

Development of support mechanisms for the export of green technologies (support for water, aluminium, and steel producers)

OTHER TASKS

Provision of preferential loans for innovations in the green sector

INFRASTRUCTURE

ENERGY SYSTEMS

PRIORITY

- Launch of 38 GW of energy storage systems
- Start of construction of 140 GW of wind power plants and 87 GW of solar power plants

INNOVATION HUBS

PRIORITY

- Opening of 5+ R&D centers in green technologies in partnership with industry leaders
- Development and launch of the WINWIN CoE AI for Energy Competence Center for energy security, digital networks, and automated dispatching

INDUSTRY

OTHER TASKS

Localization of semiconductor and electronics production for the energy sector

MARKET DEVELOPMENT

EXPORT OF GREEN TECHNOLOGIES

PRIORITY

Introduction of 10+ Ukrainian green technologies to international markets

OTHER TASKS

✓ Increase of hydrogen exports to 3.5 million tons, green ammonia to 2.5 million tons, and green steel to 36 million tons by 2050

INVESTMENT

PRIORITY

Establishment of a National Green Innovation Fund

ENERGY COOPERATION

PRIORITY

Implementation of platforms for integrating consumers into energy supply and demand management (microgrids, home energy storage systems, energy efficiency)

OTHER TASKS

★ Launch of initiatives for digital interaction between energy consumers and suppliers

EDUCATION AND WORKFORCE

EDUCATIONAL PROGRAMS

PRIORITY

Development of 10+ new educational programs in AI for energy, green chemistry, and digital networks

OTHER TASKS

Partnerships with top universities (MIT, Stanford, Frauhofer Institute)

TALENT POOL

PRIORITY

Training of 1,000 new specialists for the green economy

OTHER TASKS

Involvement of 50+ international experts for internships and knowledge exchange

SCIENTIFIC RESULTS AND INNOVATIONS

DEVELOPMENTS

PRIORITY

★ Implementation of 20+ innovative solutions in energy storage, microgrids, and AI for energy

OTHER TASKS

Obtaining 30+ national patents in green technologies

PILOT PROJECTS

PRIORITY

★ Launch of 15+ bioenergy and renewable energy restoration projects

OTHER TASKS

Implementation of 15+ bioenergy and renewable energy restoration projects

PARTNERSHIPS

INTERNATIONAL COOPERATION

PRIORITY

- ✓ Signing of 10+ memoranda with international companies (LG Chem, Siemens, Northvolt)
- Integration of Ukraine into Horizon Europe and the European Innovation Coouncil

GLOBAL R&D PROJECTS

- ✓ Implementation of 5+ joint projects with international R&D centers
- Engagement of university partnerships to create innovation laboratories



Ukraine is the first country in the world where immersive technologies are a social norm

DIGITIZATION OF GOVERNMENT DECISIONS

- Testing new policies
- Using digital twins to model the impact of reforms before implementation
- Assessing the economic and social effectiveness of reforms before implementation
- Data analysis for decision-making
- Using simulations to support decisions in budgeting, healthcare, and education



- For monitoring and optimization of production processes
- For predicting equipment failures using simulations
- For managing complex engineering systems (e.g., power plants, transportation infrastructure)



- Managing city infrastructure in realtime (traffic, water supply, energy)
- Modeling the impact of city policies (e.g., transport routes, construction)
- For supporting planning in crisis situations (evacuation and disaster recovery)





- Simulating combat situations and training in virtual envirnoments
- Operational analysis and visualization of missions
- Simulations for predicting the effectiveness of new weapons



- Medical use for surgery planning or rehabilitation
- Training and personal development on educational platforms



- Real-time monitoring of bridges, roads, and buildings
- Optimizing construction and predicting infrastructure longevity

REGULATORY AND LEGAL FRAMEWORK

PRIORITY

- ★ Develop and approve a legislative framework to protects citizens' rights and regulate interactions in the metaverse
- Create data protection regulations for personal data in immersive environments
- Update the 5G technology development plan, adding support for metaverse solutions
- Develop safety standards for XR solutions, especially for education and defense

OTHER TASKS

- Incorporate the "Freedom of Panorama" principle into the Copyright Law and adapt digital content standards to international norms (e.g., ISO/IEC 12113:2022)
- Establish a regulatory sandbox for testing and launching innovative XR solutions
- ★ Improve public procurement procedures in the field of innovation, introducing pilot projects for innovative XR solutions

INFRASTRUCTURE

PRIORITY

- Launch a pilot project on digital twins of infrastructure facilities, especially in the energy sector
- ✓ Integrate 5G infrastructure for XR innovation and ensure testing zones with high-speed internet access

OTHER TASKS

- Create a Center of Excellence (WINWIN XR CoE) for best practices in XR research, promotion, and development
- Include the development of cloud infrastructure for XR solutions.

INVESTMENT AND BUSINESS STIMULATION

PRIORITY

- Launch a state grant program to support startups and small businesses in the XR sector
- Integrate startups and companies in XR into Diia. City, creating a special category for residents

OTHER TASKS

Organize a marketing campaign to promote Ukrainian metaverse solutions among international investors

POPULARIZATION AND COMMUNICATION WITH SOCIETY

PRIORITY

- Launch an information campaign to raise public awareness of metaverse solutions
- Organize a national forum for representatives of the public and private sectors aimed at developing metaverse technologies

OTHER TASKS

Conduct public surveys to assess the needs and possibilities of implementing immersive solutions in the public sector

MONITORING AND PERFORMANCE ANALYSIS

PRIORITY

Develop a system of metrics and KPIs to evaluate the effectiveness of metaverse solutions in the public sector

OTHER TASKS

- Create an analytical platform to monitor the implementation of immersive solutions in the public sector
- Publish an annual report on the state of immersive technology development in Ukraine, including pilot project results

EDUCATION AND WORKFORCE

PRIORITY

- Develop educational programs for highly specialized professionals such as CDTOs, operators, and XR solution developers
- Implement pilot programs using educational immersive content for vocational and technical education

OTHER TASKS

Create a national knowledge base for immersive content moderated by the Ministry of Education and Science of Ukraine

IMPLEMENTATION OF PILOT PROJECTS

PRIORITY

- XR-based project for the rehabilitation of wounded individuals
- ✓ Industrial direction (training in production environments)



Al in Ukraine has become a key tool for increasing the efficiency of government institutions, businesses, and improving the quality of life of citizens

DEVELOPMENT OF UKRAINIAN-LANGUAGE AI

DATA-DRIVEN DECISION SUPPORT SYSTEMS

| IMPLEMENTATION IN PRIORITY SECTORS

REGULATORY AND LEGAL FRAMEWORK

PRIORITY

- Development of a White Paper on AI regulation in Ukraine
- Creation of testing and certification standards for Al solutions
- Harmonization of legislation with EU regulations in the field of AI

OTHER TASKS

- Development of regulations on the ethical use of AI
- Creation of unified standards for the entire software development cycle for Al
- ★ Introduction of AI advisors (experimental norm) - the state
- Ensuring the AI non-discrimination algorithms

INFRASTRUCTURE

PRIORITY

- Establishment of the WINWIN CoE Al (including for the energy security)
- Creation/development of Al innovation clusters
- Establishment of a regulatory sandbox for testing Al products
- Development of computing infrastructure for Al

MARKET DEVELOPMENT

PRIORITY

- Support for the development of Al solutions in priority sectors (defense, integration with medical technologies)
- Development of Ukrainian-language Al
- Expansion of the export potential of Ukrainian AI products
- Creation of conditions for the commercialization of AI developments

OTHER TASKS

Encouraging the implementation of AI in business processes

EDUCATION AND WORKFORCE

PRIORITY

- Organization of qualification improvement programs for civil servants, the private sector, and scientists
- Creation of an AI faculty on the basis of CDTO Campus
- Development of research competencies in the AI sector

OTHER TASKS

Integration of AI learning into educational programs

FINANCIAL INSTRUMENTS

PRIORITY

- ★ Launch of a separate grant-based program (support for AI projects)
- Creation of co-financing mechanisms

OTHER TASKS

- Promotion of venture capital involvement at the state level
- ★ Tax incentives for AI development

PARTNERSHIPS

PRIORITY

- Promotion of cooperation between science and business
- Development of international cooperation
- ✓ Participation in European AI initiatives

SYSTEM OF ORDERS

PRIORITY

- Formation of state procurement orders for AI solutions
- ★ Implementation of AI in government services
- Creation of a system for prioritizing Al projects
- Development of mechanisms for public-private partnerships in the AI sector



Ukraine has become one of the world's leaders in the development and implementation of AUV technologies, becoming an innovation hub. This will contribute to economic stability, security, and provide opportunities for continuous technological improvement

DEVELOPMENT OF UNMANNED TECHNOLOGIES FOR AGRICULTURE

DEVELOPMENT OF UNMANNED DEFENSE TECHNOLOGIES

AUTONOMOUS TESTING HUB

R&D HUB FOR AUTONOMOUS TECHNOLOGIES

DEVELOPMENT OF UNMANNED CARGO AND MARITIME VESSELS

PRODUCTION OF AUTONOMOUD VEHICLES ANS SPARE PARTS

DEVELOPMENT OF THE LEGAL FRAMEWORK

PRIORITY

- Develop and approve a legal framework for testing, implementing, and commercializing AUVs with focus on logistics (cargo), civilian, and military (demining) needs
- Simplify procedures: create a fast track for licensing, testing, and certifying autonomous transport systems
- ✓ Hramonize legislation: ensure Ukrainian AV-regulations align with international standards (e.g., UNECE, ISO 26262 for automobile security)
- Establish an AUV Regulatory Sandbox with the possibility of testing autonomous transport conditions

ORGANIZATION AND MANAGEMENT

PRIORITY

- Create a separate agency (or a task group during wartime) for AUVs covering strategic issues, deregulation, investment, project implementation, security monitoring, and public communication
- Develop an agency's comprehensive action plan for implementing AUV technologies

INFRASTRUCTURE DEVELOPMENT

PRIORITY

- Testing R&D centers: Establish the WINWIN CoE AUV Center of Excellence in cooperation with Ukrainian and international universities.
- Expansion of C-ITS: Develop projects to implement intelligent transport systems for AUVs in key regions of Ukraine
- ★ 5G Integration: Ensure test zones with high-speed internet to support V2X communication

OTHER TASKS

- Simplify procedures: introduce special permits for military and civilian AUV projects within government programs
- Tax policy incentives: include preferential taxation for companies engaged in AUV production, testing, and R&D in Ukraine
- Process transparency: develop and electronic portal for submitting applications for AUV certification and licensing, accessible to Ukrainian and international companies

OTHER TASKS

Conduct additional consultations with government organizations in Singapore, the UAE, and California (USA) to implement best practices

OTHER TASKS

Route infrastructure: Deploy intelligent communication systems on pilot toutes and in logistics hubs

CYBERSECURITY

PRIORITY

- Security standards: establish accessible security requirements for AUV operations and real-time monitoring
- Cyber Security Center: establish a specialized center to detect, analyze and respond to cyber threats in the AUV ecosystem

OTHER TASKS

Integrate security: develop a multi-layered data security system for AUVs, including encryption, authentication and protection against cyber threats

INVESTMENTS IN R&D

PRIORITY

- Acceleration programs: launch acceleration programs for AUV startups focused on military and logistics applications
- Scholarships for R&D: implement grant programs for teams developing innovative solutions for AUVs

OTHER TASKS

- ★ Simulation laboratories: develop modern laboratories for simulating scenarios using VR/AR for operator training
- Environmental monitoring: to use AUVs to assess the state of the environment in demining zones and damaged regions by creating environmental maps
- ★ Intellectual property: facilitate the registration of at least 10 patents in the field of navigation, AI technologies and demining solutions

EDUCATION AND HUMAN RESOURCES

PRIORITY

Training programs: launch training programs to train 200 engineers, operators and maintenance specialists for AUVs

OTHER TASKS

Training modules: develop training modules together with international universities to develop specialized skills, such as AI development for AUVs

ATTRACTING INVESTORS

PRIORITY

- International cooperation: secure at least three strategic agreements with global technology leaders for joint research and testing of AUVs
- Integrate AUV startups and companies into Diia. City with the development of a special category for residents

OTHER TASKS

- International missions to attract partners from the EU, the US, and Asia
- Promotion: organize marketing campaigns and investment tours to present the possibilities of using AUVs in logistics and demining
- Public-private partnerships: launch joint programs with Ukrainian and international companies to integrate AUVs into cargo transportation, environmental monitoring and military operations

PUBLIC COMMUNICATION

OTHER TASKS

- Awareness raising: conduct public demonstrations of AUVs, organize AV conferences and information campaigns to popularize autonomous technologies among businesses and the public
- Social acceptance: to launch a survey among logistics companies, military structures and citizens to collect feedback and adjust AUV implementation programs

HD MAPPING AND INFRASTRUCTURE DIGITALIZATION

- Implementation of pilots: to launch two pilot regions for HD mapping with the integration of AUVs into logistics processes
- Continuous updating: implement real-time technologies to update maps and ensure data accuracy



Ukraine is a full-fledged participant in the global space market, integrating advanced technologies, promoting international cooperation and ensuring strategic development of space infrastructure for scientific, defence and commercial needs

DEVELOPMENT
OF SMALL
SATELLITES

PRODUCTION
OF SPACE
TECHNOLOGY

INTEGRATION OF SPACE
TECHNOLOGIES INTO DIGITAL
INFRASTRUCTURE

DEVELOPMENT OF GROUND INFRASTRUCTURE

PARTICIPATION IN INTERNATIONAL SPACE PROGRAMS

LEGAL AND REGULATORY FRAMEWORK

PRIORITY

- A new version of the Law of Ukraine 'On Space Activities' harmonized with European legislation is approved (by the Q4 of 2025)
- The National Space Program, which provides support for start-ups and commercialization of innovations, is approved and launched

OTHER TASKS

- Implemented a quality management system in accordance with EN9100/AS9100 standards in 10+ key space industry enterprises
- Harmonization with international standards

INFRASTRUCTURE

PRIORITY

- 3+ laboratories / production facilities upgraded to meet international standards

OTHER TASKS

- ✓ Small satellites
- ★ Space communications
- A test site for space start-ups was launched to test components, modules and technologies
- A cloud-based platform for space mission simulations and data exchange between industry enterprises was deployed
- 2+ space technology centers at universities established to support research and development of space innovations

PARTNERSHIPS

PRIORITY

- 5+ memoranda of cooperation with European space agencies (ESA, CNES, etc.) signed
- 3+ agreements with international companies for joint R&D projects signed

- Ukrainian companies are integrated into 2+ European space programs, such as Horizon Europe or Galileo
- Space innovation forum organized in Ukraine to attract international partners

ECONOMIC RESULTS

PRIORITY

- Attracting investments in the space industry through public-private partnerships
- Grant programs for SMEs in the space sector are introduced

OTHER TASKS

- Opening markets: stimulating the production of space components in Ukraine for domestic and foreign markets
- Create a special fund to finance small space projects
- 10+ new space startups created through acceleration programs
- Export (potentially)

HUMAN RESOURCES RESULTS

PRIORITY

- 200+ new specialists in the space industry trained through specialized programs at universities
- Launch programs to train cybersecurity specialists for space technologies

OTHER TASKS

- Development of training programs for working with satellite platforms and mobile media
- 20+ international experts were engaged to work in Ukrainian companies
- ★ 500+ new jobs created in the industry through new projects

SCIENTIFIC RESULTS

PRIORITY

- 5+ new space technologies developed, including control systems for small satellites and modules for space missions
- A pilot project was implemented to use AI to analyze remote sensing data

- ★ Launched a retraining program for engineers from other industries to integrate into space projects
- ★ 30+ patents in the space sector, including innovations in rocket engines, materials and communication systems
- ★ Al research in space



Ukraine is an integral part of the global digital economy, providing the most convenient conditions for businesses and citizens through effective regulation, innovative platforms and continuous access to financial and technological solutions

CREATING A FAVORABLE REGULATORY ENVIRONMENT FOR BUSINESS AND CITIZENS

DEVELOPMENT
OF DIGITAL
INFRASTRUCTURE

GLOBAL INTEGRATION AND INVESTMENT ATTRACTION, SUPPORT FOR THE EXPORT OF DIGITAL PRODUCTS AND SERVICES

EDUCATION FOR THE FUTURE (AI-READY)

LEGAL AND REGULATORY FRAMEWORK

PRIORITY

- Legislation has been developed to regulate the gig economy, digital platforms, smart contracts and digital platform operators
- Updated regulations on personal data protection in line with GDPR standards are introduced
- A regulatory framework to support blockchain initiatives and smart contracts has been created
- Ukrainian legislation is harmonized with EU regulations in the field of digital economy
- Consider mechanisms for adapting legislation to respond quickly to new technologies (e.g., Al, metaverse)

INFRASTRUCTURE

PRIORITY

- Develop and launch an online platform for coordinating digital services and supporting the gig economy
- Include programs to support the integration of digital services and the digital economy in rural areas

OTHER TASKS

- Developed and implemented the Science. City legal regime aimed at supporting knowledge-intensive companies and start-ups
- Approve the regulatory framework for the functioning of Industry 4.0 implementation centers
- Consider cybersecurity formats for digital platforms and transactions

OTHER TASKS

- Special zones for digital nomads with the necessary infrastructure (hubs, coworking spaces) have been opened for example, 5+ Diia.Business-TISC centers have been launched at universities for technology transfer
- Create testbeds for digital solutions, loT and AI in urban infrastructure

DEVELOPMENT OF THE MARKET

PRIORITY

- ✓ Digital companies are included as residents of Diia.City with the development of a special regime for the Gig Economy
- Programs to reduce barriers for Ukrainian digital products to enter international markets have been launched
- Grant programs to support start-ups in the digital economy have been introduced

- A unified platform for collecting, analyzing and sharing data in the field of innovation was created
- Mechanisms for simplifying access to the stock market for digital innovation companies developed

EDUCATION AND HUMAN RESOURCES

PRIORITY

- New study programs in Web3, AI, and Industry 4.0 launched on the basis of Diia.Business
- Create a program for retraining traditional specialists in digital industries

OTHER TASKS

- Conducted 50+ trainings on digital tools for SMEs on the basis of Diia.Business
- Organized internship programs for freelancers, digital nomads and gig specialists

ORDERING SYSTEM

PRIORITY

- Innovative procurement unit for state projects in the digital economy introduced
- 10+ projects piloted through state digital innovation programs

OTHER TASKS

★ Reduced the time for implementing digital solutions through procurement by 30 %