Innovations for Exports in Ukraine

співпраця з
НІМЕЧЧИНОЮ
DEUTSCHE ZUSAMMENARBEIT

giz
Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

NON – GOVERNMENTAL UNION
FOUNDATION FOR SUPPORT OF REFORMS IN UKRAINE

Trade
with
Ukraine

CROSS-SECTOR OVERVIEW

Ukraine's international innovation performance has been strong in recent years. In global rankings it scores relatively high in knowledge, technology, creative output and employment impact.

500 000+ construction, manufacturing, engineering students

38 commercialization centers

2 000+ startups

32 science parks

150 000+ patents and utilities issued in Ukraine since 2007

26 centers of innovation and technology transfer

Big number of technical universities

24 innovative business incubators

100+ R&D centers

22 innovation centers

60+ cluster organizations

16 technology parks

Around **40** industrial parks
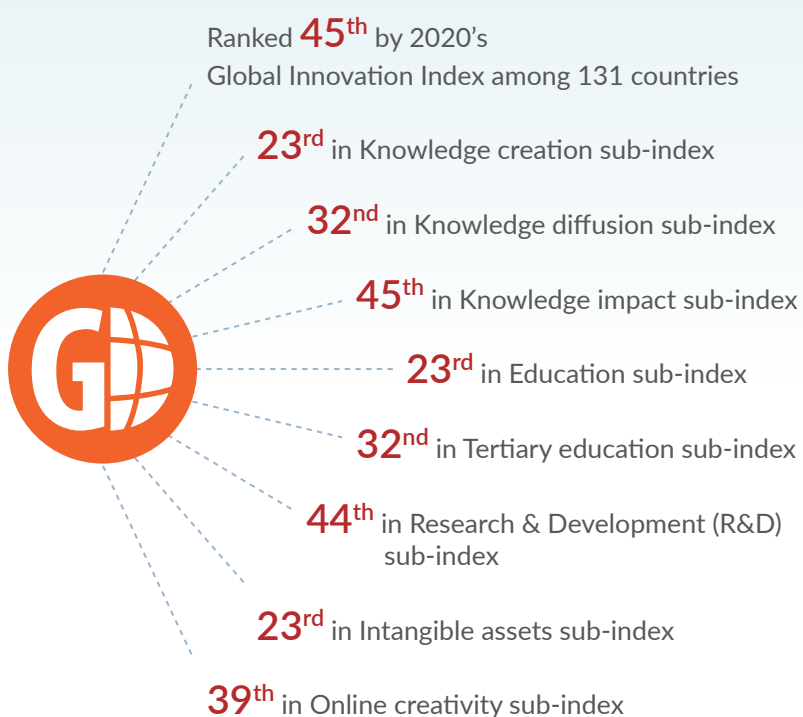
$510 ^{mln} investments in Ukrainian IT companies

UKRAINE IN GLOBAL RANKINGS

Ukraine shows an overall increase in 2020's Global Innovation Index. The country has significantly improved in education (20 ranks up) and R&D (10 ranks up).

Ranked **45**th by 2020's Global Innovation Index among 131 countries

23rd in Knowledge creation sub-index

32nd in Knowledge diffusion sub-index

45th in Knowledge impact sub-index

23rd in Education sub-index

32nd in Tertiary education sub-index

44th in Research & Development (R&D) sub-index

23rd in Intangible assets sub-index

39th in Online creativity sub-index

28th by World Design Ranking 2019 among 106 countries

29th by StartupBlink global ranking 2020 based on evaluation of Startup ecosystem

60th by 2019's WEF Global Competitiveness Index Innovation Ranking among 140 countries

WORLD ECONOMIC FORUM

Gradually improving in the Doing Business Ranking

WHY UKRAINE

- **Significant market capacity**
- **Developed innovations**
- **Strong skills and competences**
- **Qualified and recognized production services**
- **Historically strong tech education**
- **International and EU standards**
- **State digitalization program**
- **Reliable trade partner**
- **Qualified human capital**

UKRAINE'S INNOVATION ECOSYSTEM

- Financial Instruments
- Venture Capital
- Entrepreneurs
- Corporations
- R&D Universities
- Government Policy
- Service Providers
- Experienced Managers

INNOVATIONS

The Ukrainian Startup Fund is a national investment program that supports innovations in Ukraine by funding the most talented Ukrainian entrepreneurs.

Innovation and Development Foundation is an international solutions platform designing innovative mechanisms for accumulation, acceleration, and transfer of expertise aimed at state sector reforming, business consulting and civil societies support.
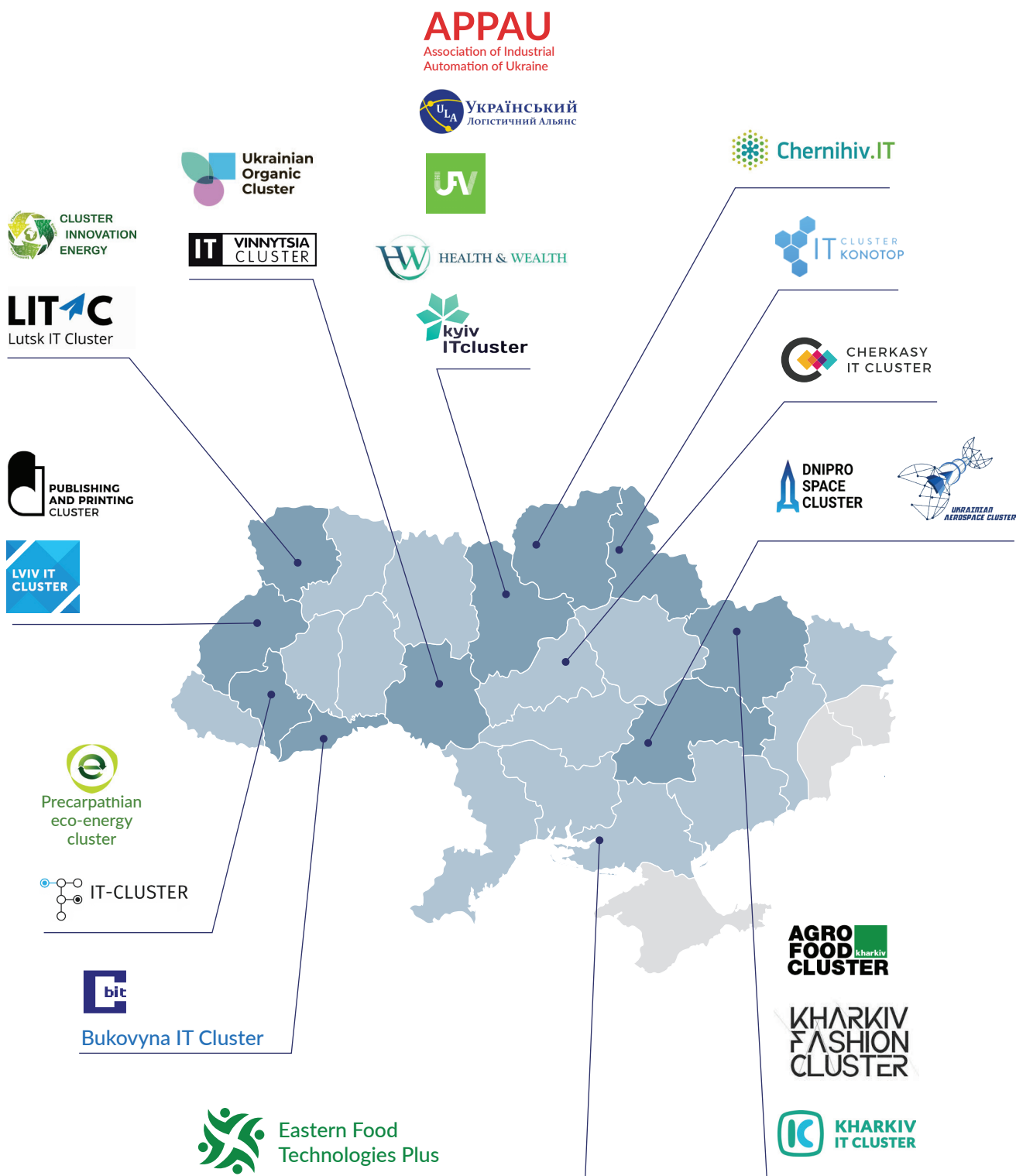
Private Joint Stock Company Export Credit Agency aims at facilitating Ukrainian exports.

MAJOR CLUSTER ORGANIZATIONS

The development of clusters in the spheres of IT, tourism and agrarian production is common in Ukraine. Cloud computing, IoT and robotics, big data and AI, 3D printing and blockchain are trending as well, and considered to be dynamic, fast–growing sector segments.
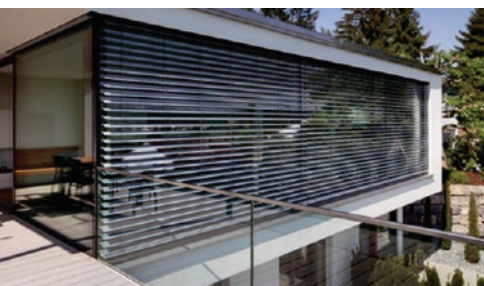

APPAU
Association of Industrial Automation of Ukraine

Український Логістичний Альянс

Chernihiv.IT

Ukrainian Organic Cluster

CLUSTER INNOVATION ENERGY

IT VINNYTSIA CLUSTER

HEALTH & WEALTH

IT CLUSTER KONOTOP

LIT C Lutsk IT Cluster

kyiv ITcluster

CHERKASY IT CLUSTER

PUBLISHING AND PRINTING CLUSTER

DNIPRO SPACE CLUSTER

UKRAINIAN AEROSPACE CLUSTER

LVIV IT CLUSTER

Precarpathian eco-energy cluster

IT-CLUSTER

AGRO FOOD CLUSTER kharkiv

bit
Bukovyna IT Cluster

KHARKIV FASHION CLUSTER

Eastern Food Technologies Plus

IC KHARKIV IT CLUSTER

UKRAINIAN INNOVATIVE PRODUCTS

ROBOTIC TECHNOLOGIES

UniExo

UniExo is a high tech company, that creates modular exoskeletons using machine learning algorithms and doctor online-surveillance. These devices reduce recovery period caused by injuries by assisting and supporting patients outside the healthcare facilities. Personalized physical rehabilitation solution can help regain and encourage limb mobility of patients.

SolarGaps

SolarGaps - external aluminum Venetian blinds with solar panels, which generate electricity. Smart blinds automatically track the sun and generate green energy. It can be used as an alarm clock in the morning and preserve your privacy during the night. SolarGaps protect house from external influences, shade the room, and ensure saving up to 30% on air conditioning.

SMART OASIS

SMART OASIS is a unique, fully autonomous modular system designed for independent zero-carbon water production. 3 product lines: city – fully autonomous water fountains that produce 55 litres of drinking water per day with zero-waste; smart farming – a fully autonomous greenhouse that can grow 3000 kg of greens per year even in the middle of the desert with no access to water and other utilities; solar – autonomous cleansing distilled water modules that increase productivity of the solar park by 25% and cut expenses on human labour.

Kodisoft

This is the first interactive, multi-touch table that can be used in public spaces such as restaurants due to its durability - technology recognizes touches through up to 20 mm of glass. Every visitor can touch the table surface to order menu items and services, as well as play games.

PassivDom
Autonomous Intelligent House

PassivDom is a housing solution for cold and hot climates. PassiveDom houses are solar-powered and have zero carbon emission. The autonomous house can operate itself and make own decisions. Houses are equipped with 6 glazed windows with infrared absorption and thermal energy storage.

For more details please refer to Ukrainian Innovative Products brochures:

CROSS-SECTOR EXPORT STRATEGY INNOVATIONS FOR EXPORTS

Vision — A creative economy for innovative, competitive and value-added exports

Strategic objectives

Strengthen the Ukrainian innovation ecosystem and support the business environment to boost innovation and entrepreneurship activity and grow exports

- Strengthen linkages between science and academia, business and government both within the ecosystem and beyond

- Improve the business, regulatory and policy environment to facilitate innovations

- Connect Ukrainian innovation ecosystem internationally to facilitate partnerships, business linkages and investments into innovations

Develop financial and support services for enterprises and innovators to rapidly develop and scale-up innovative and value-added exportable products and services

- Provide Ukrainian innovators and entrepreneurs with easy-to-access financial instruments for each and every stage of their innovation activity

- Develop extensive state-of-the-art tech infrastructure allowing to rapidly prototype and produce innovative products for exports

- Provide specific support instruments to enhance innovations in the ESU priority sectors

Develop skills and competencies of Ukraine's entrepreneurs, managers, scientists, innovators and enterprises to design and commercialise innovations internationally

- Develop education and training efforts with a focus on innovation management and entrepreneurship to ensure successful exports of innovative products and services

- Upgrade skills of managers, innovators, scientists and people who deal with innovations within private and public enterprises