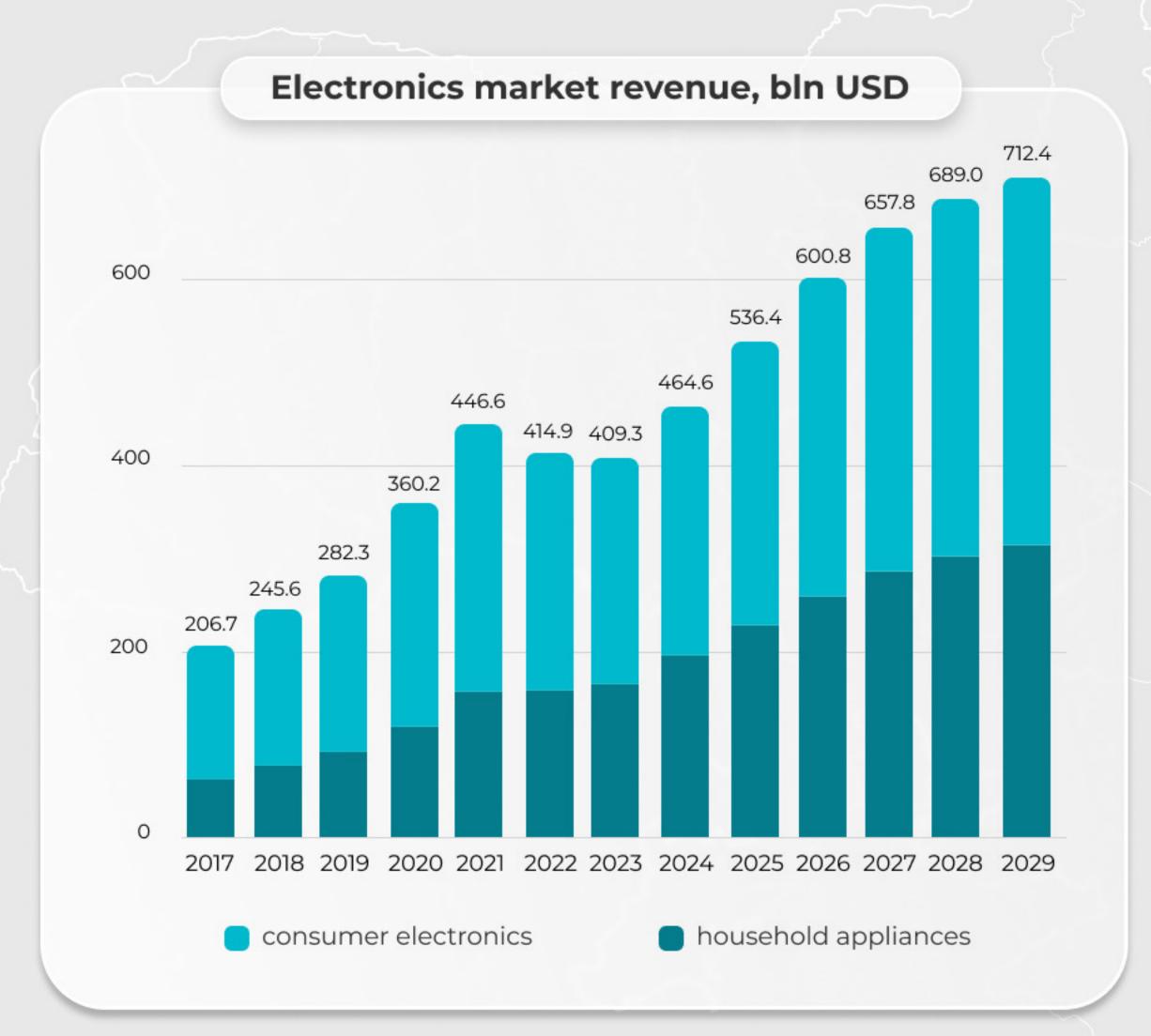
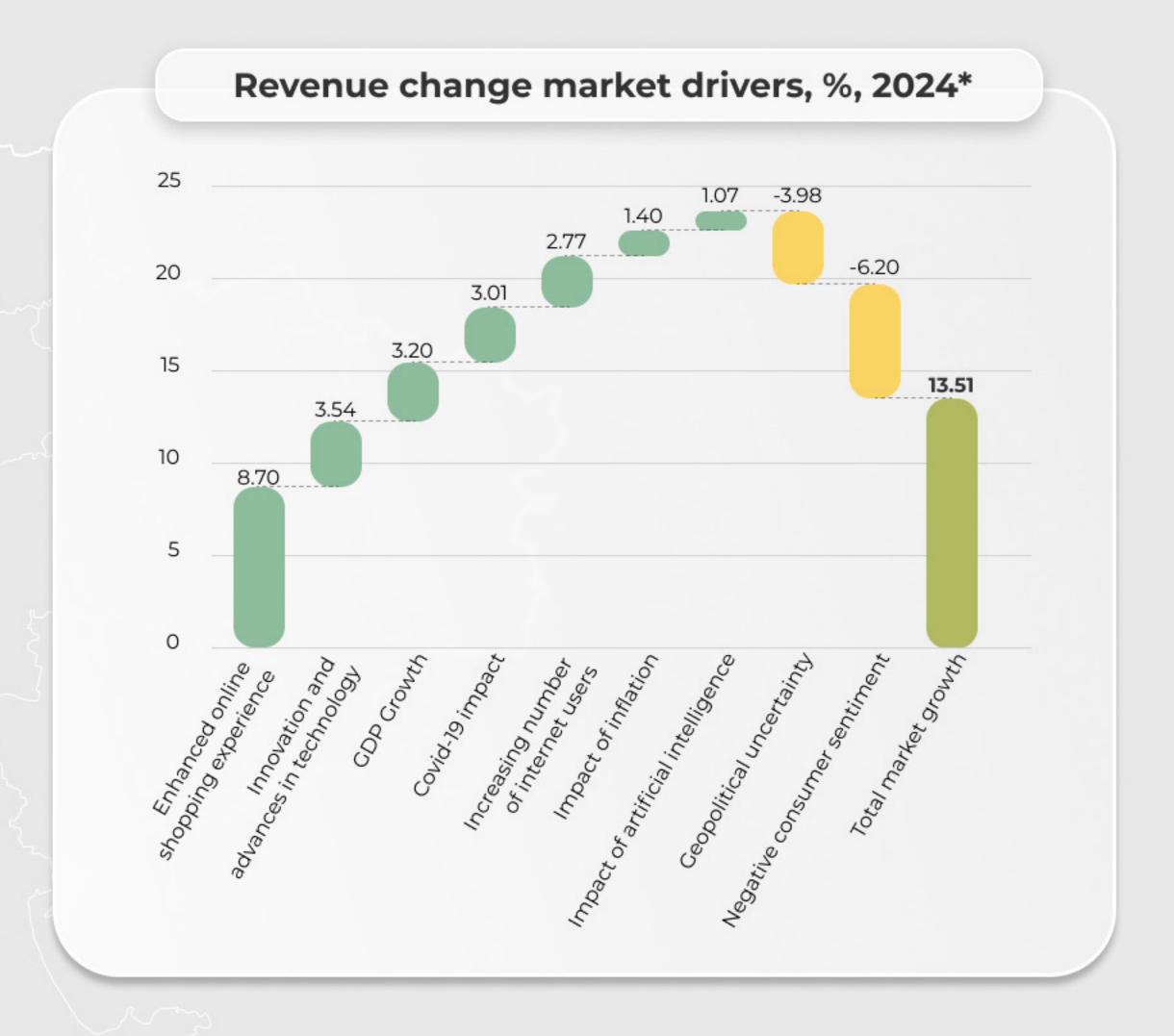




Global macroeconomics

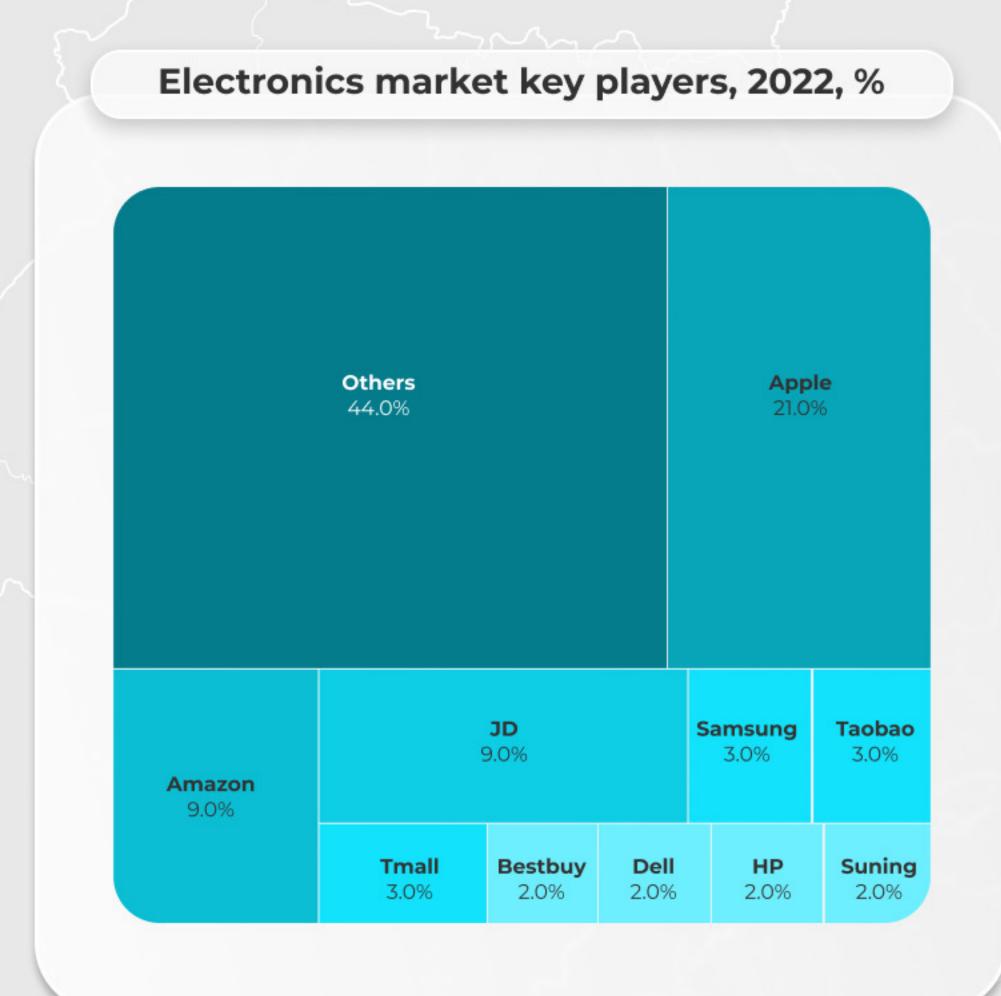


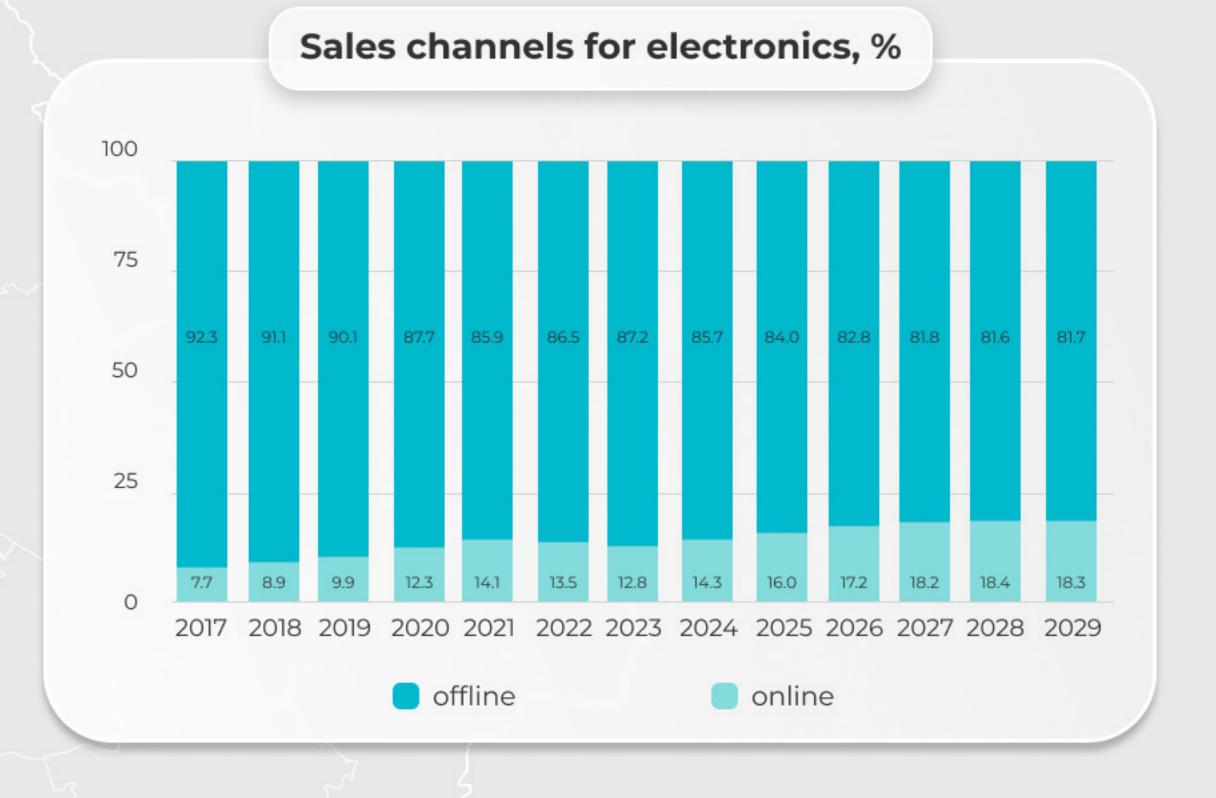


<sup>\* -</sup> The growth rates of the drivers in the market driver chart are calculated using USD values. Using a different currency will not affect their growth rates; however, the data might change due to conversion rates.



Global macroeconomics







## 3 bln users

expected in the electronics market by 2029

Sources: Statista 03



Global macroeconomics



#### 900+ bln USD

forecast of the global semiconductor industry by 2030

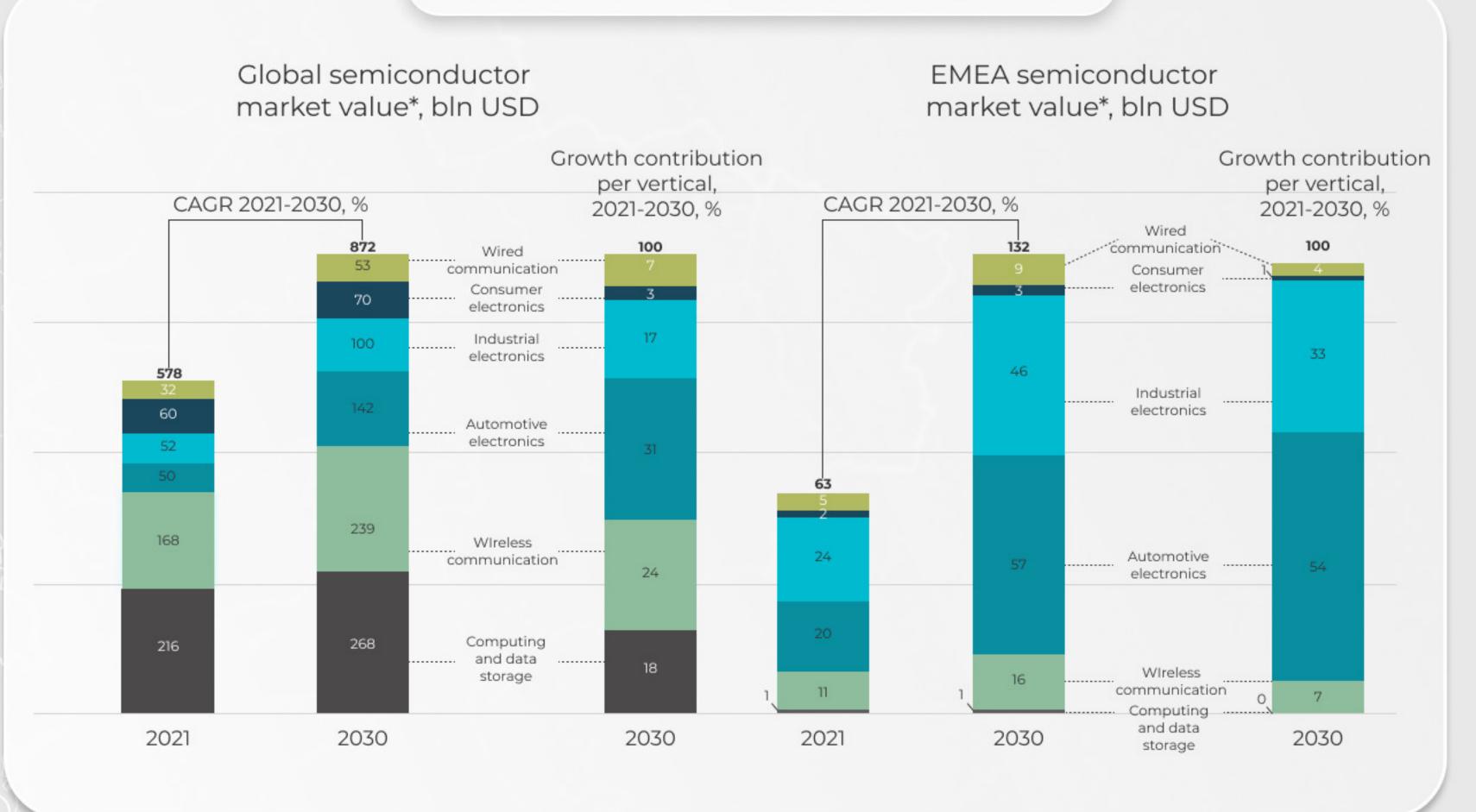
~80% of sales



~90% of growth

in semiconductors will be driven by the automotive and industrial electronics sectors

#### Global semiconductor market growth



Source: Statista \* - by vertical, indicative



Ukrainian electronics manufacturers



#### 5 625

electronics manufacturers in 2023, of which:



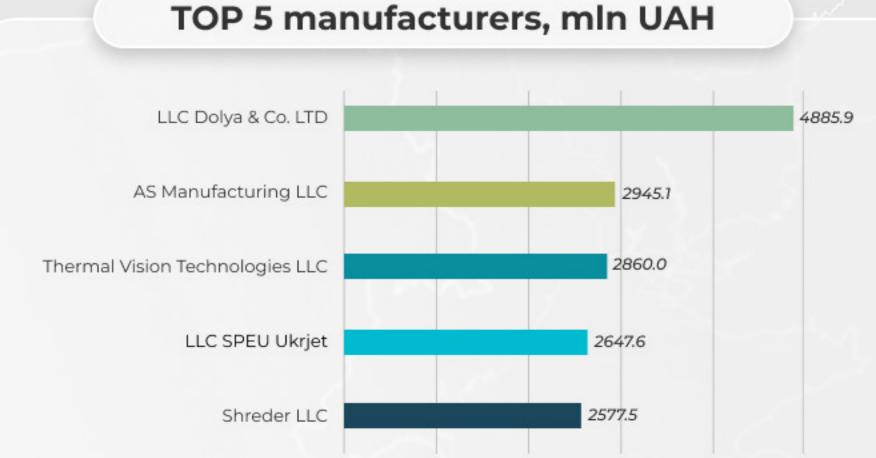
4 122

operating companies



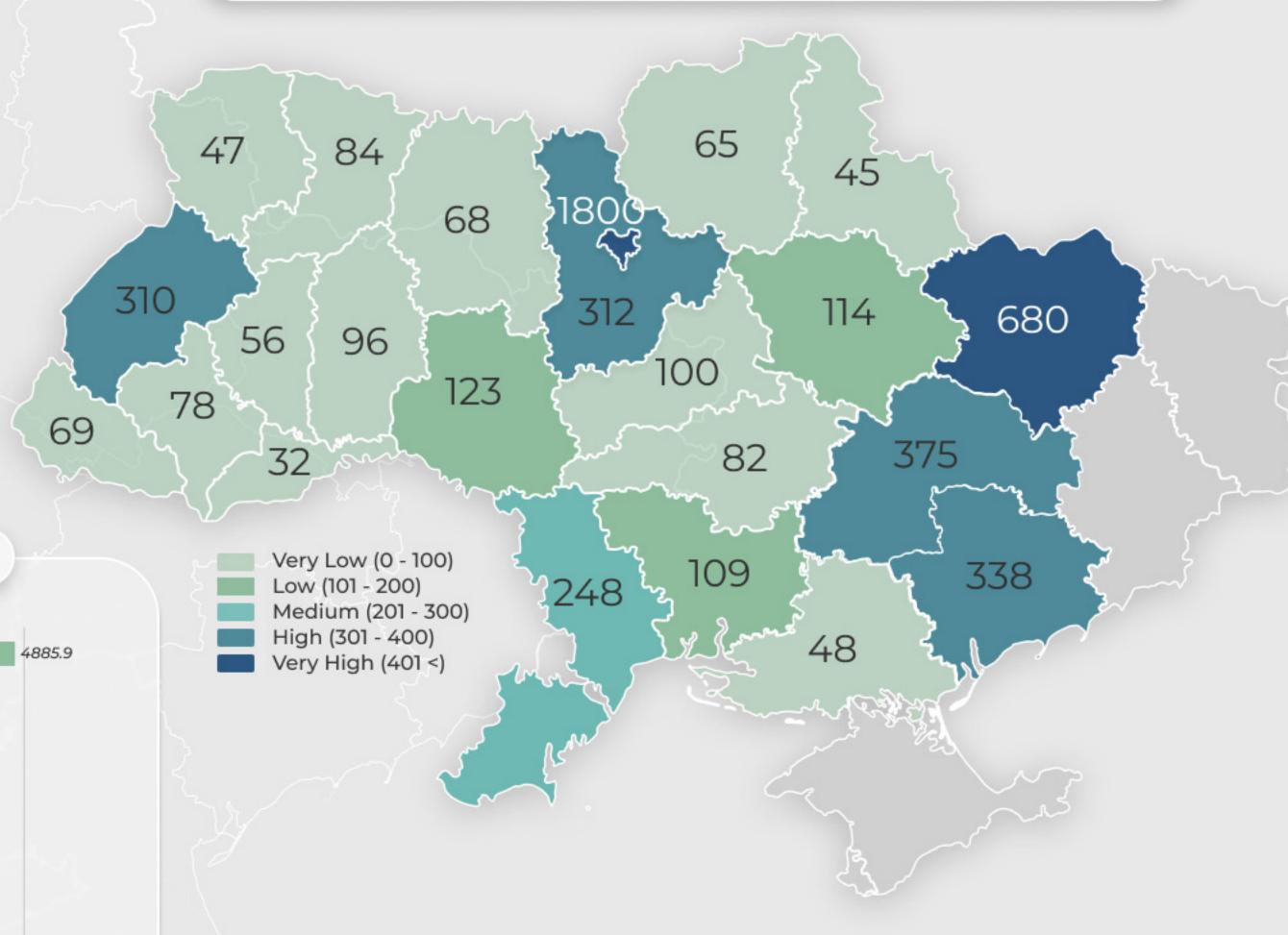
1507

individual entrepreneurs



2000 3000 4000 5000

#### Regional breakdown of manufacturers, 2023



Sources: YC Market

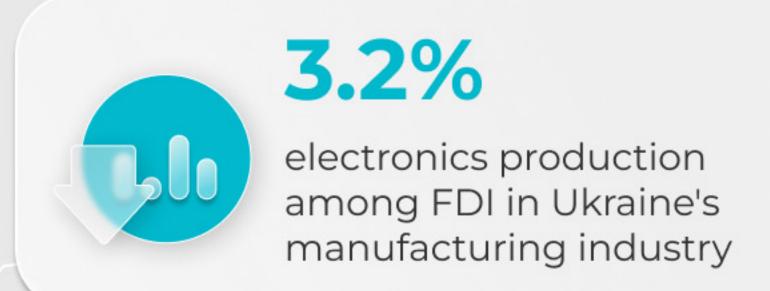


#### FDI snapshot

The decline in 2022 at the beginning of russia's full-scale invasion of Ukraine was followed by a gradual recovery of the industry in 2023 despite the ongoing hostilities



War risk insurance and government policies aimed at improving the investment climate contribute to the growth of the industry



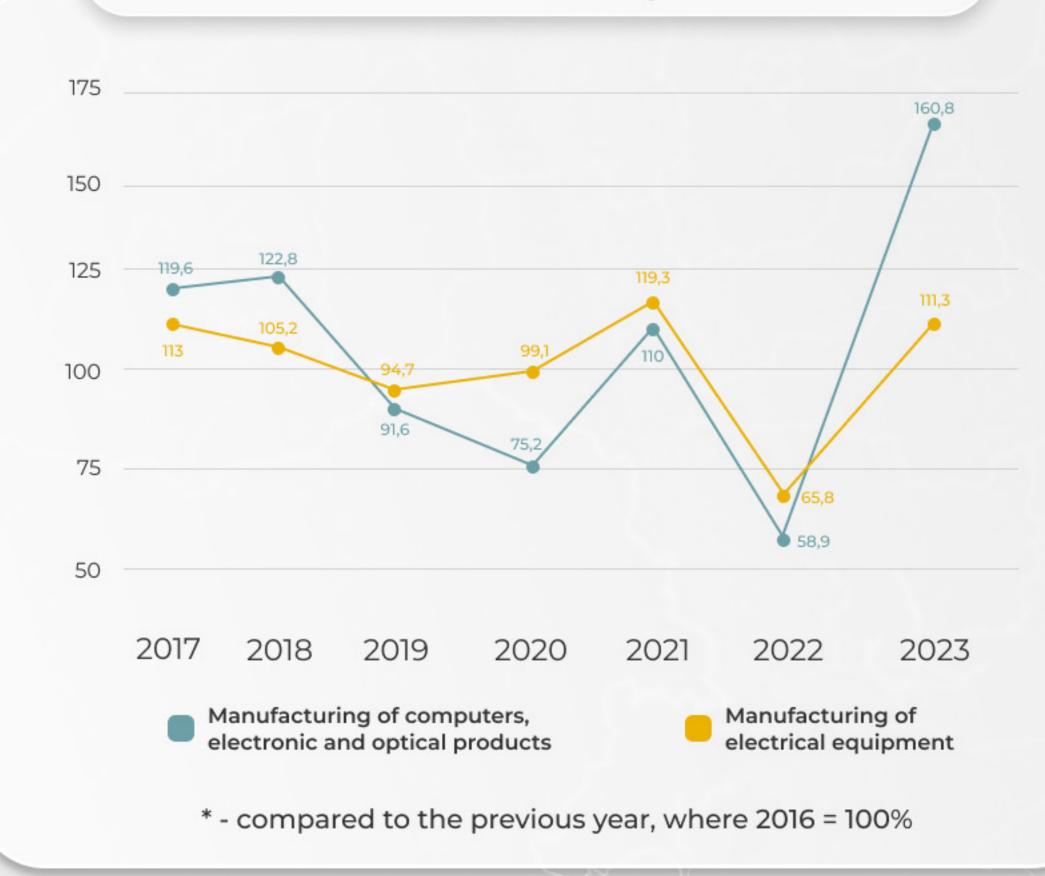


Sources: National Bank of Ukraine

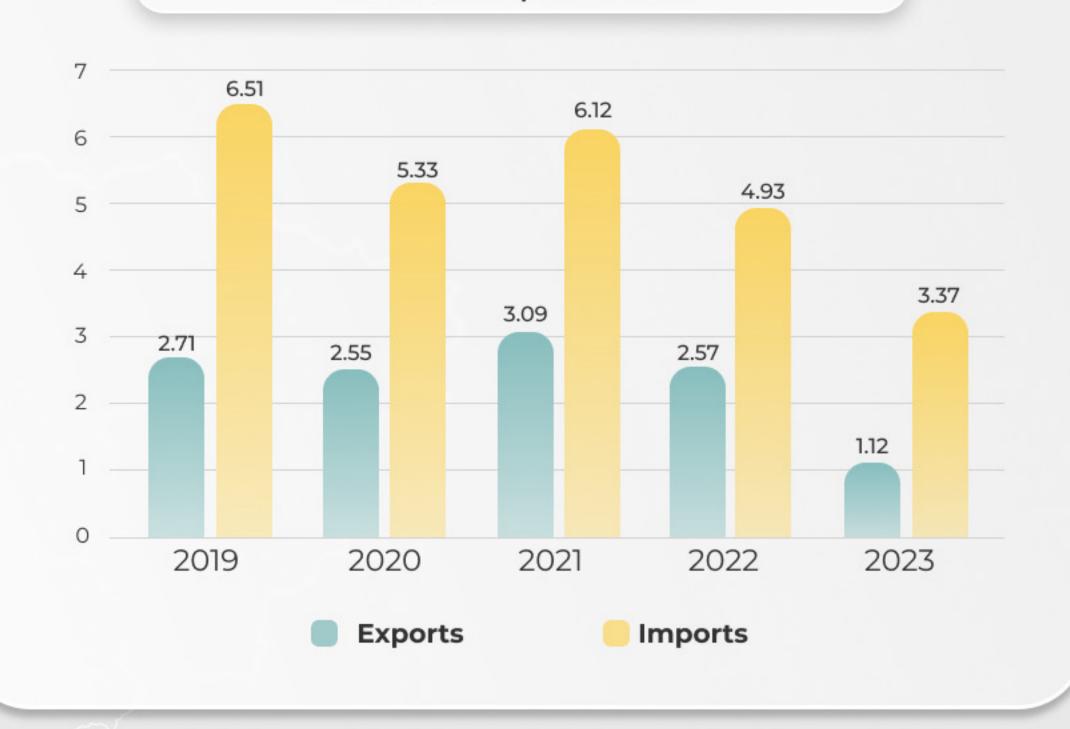


Production and foreign trade

## Industrial production index by types of economic activity, %\*



Ukraine's trade turnover of electrical machines, equipment, their parts, 2019-2023, mln USD

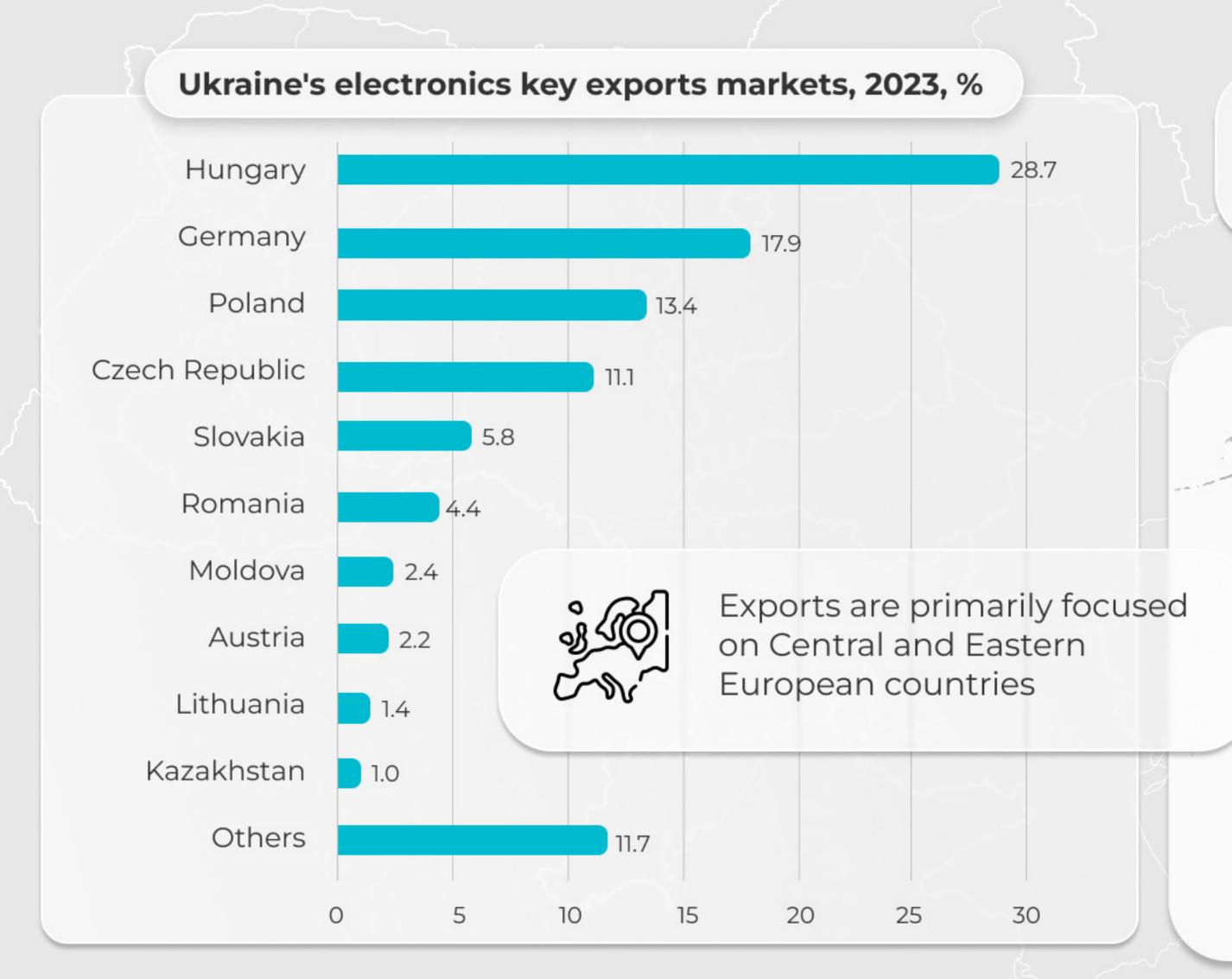




Electronics production in Ukraine demonstrated unstable dynamics in 2017-2023



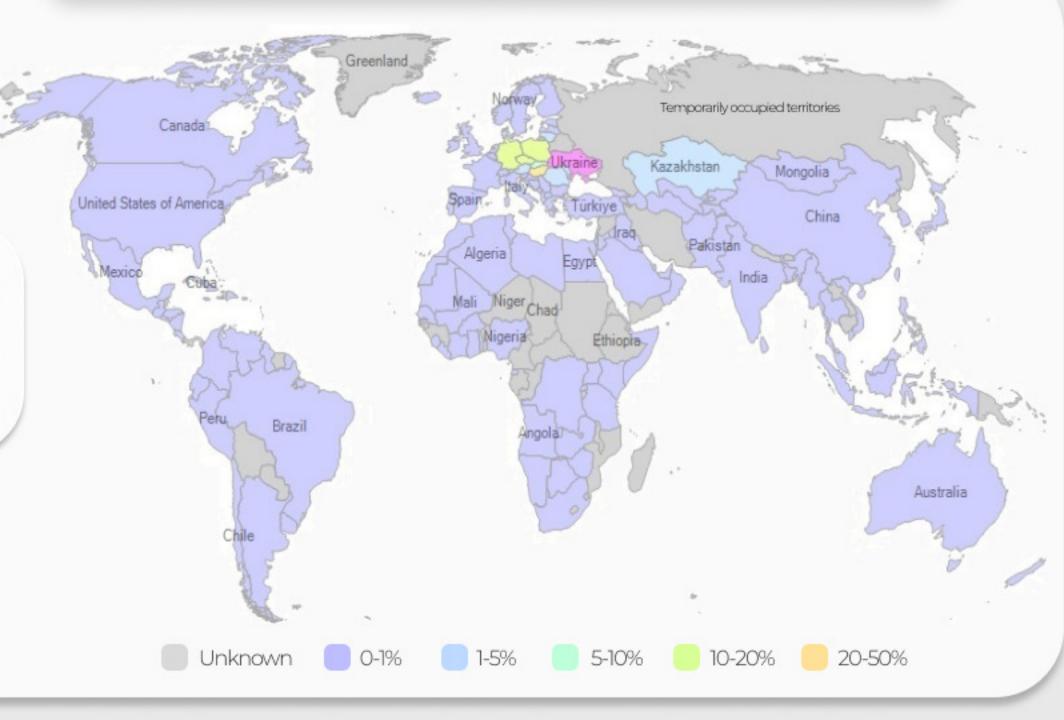
Ukraine's exports



## 1.63 bln USD

Ukraine's electronics exports, 2023\*

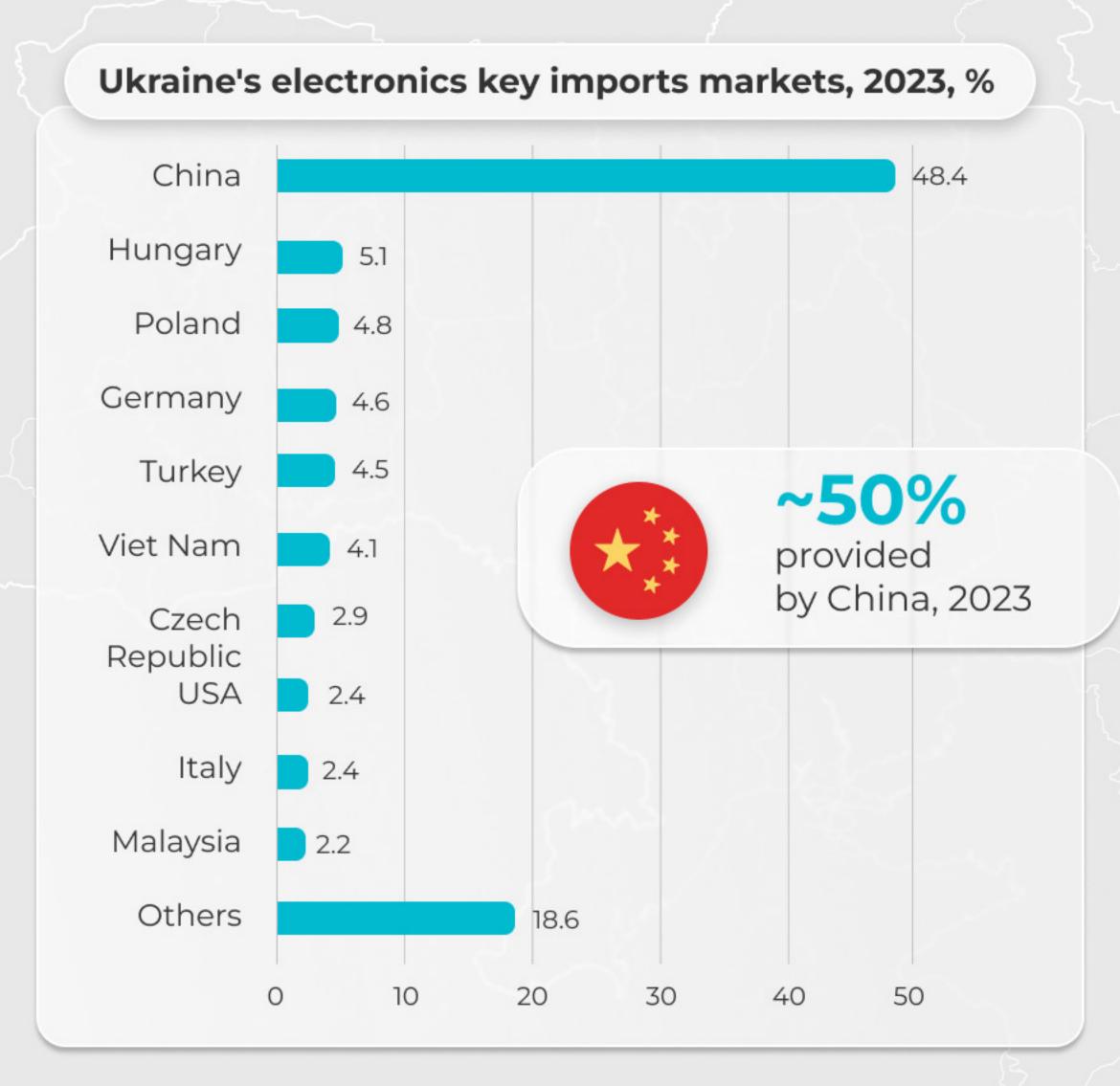
#### Ukraine's electronics exports markets, 2023



Sources: Trade Map, State Customs Service of Ukraine \* - HS Code 84, 85, 90



## Ukraine's import

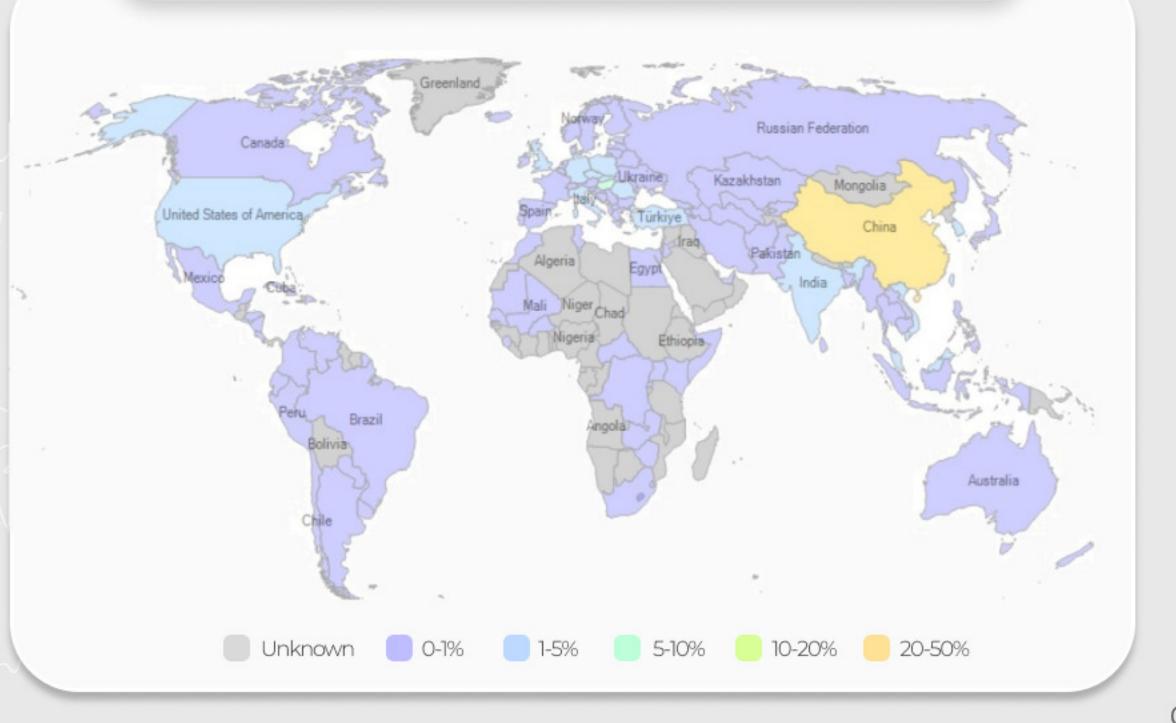




## 6.67 bln USD

Ukraine's electronics imports, 2023\*

#### Ukraine's electronics imports markets, 2023



Sources: Trade Map, State Customs Service of Ukraine \* - HS

\* - HS Code 84, 85, 90



#### Raw materials

Si Manufacturing of semiconductors, Silicon integrated circuits, microprocessors Wiring, printed circuit boards, Cu electrical connections Copper Li Batteries for mobile devices and electric vehicles Lithium Co Cathode in batteries Cobalt Au Coatings for contacts Gold in microcircuits, microprocessors

Ag Soldering, electrical contacts, solar panels Silver Al Device housings, cooling radiators Aluminum Ta Production of capacitors in mobile devices Tantalum Ni Batteries (nickel-cadmium, nickel-metal hydride) Nickel Neodymium in magnets, europium for screens, Lantaterbium oxide for fluorescent lamps noids



Ukraine has deposits or occurrences of most of these elements, but not all of them are extracted on an industrial scale due to modern rocessing technologies and the russian occupation, which have so far hindered their development

Source: Trade Map



## Graphite and silicon



#### 18 mln t

reserves of balance graphite deposits

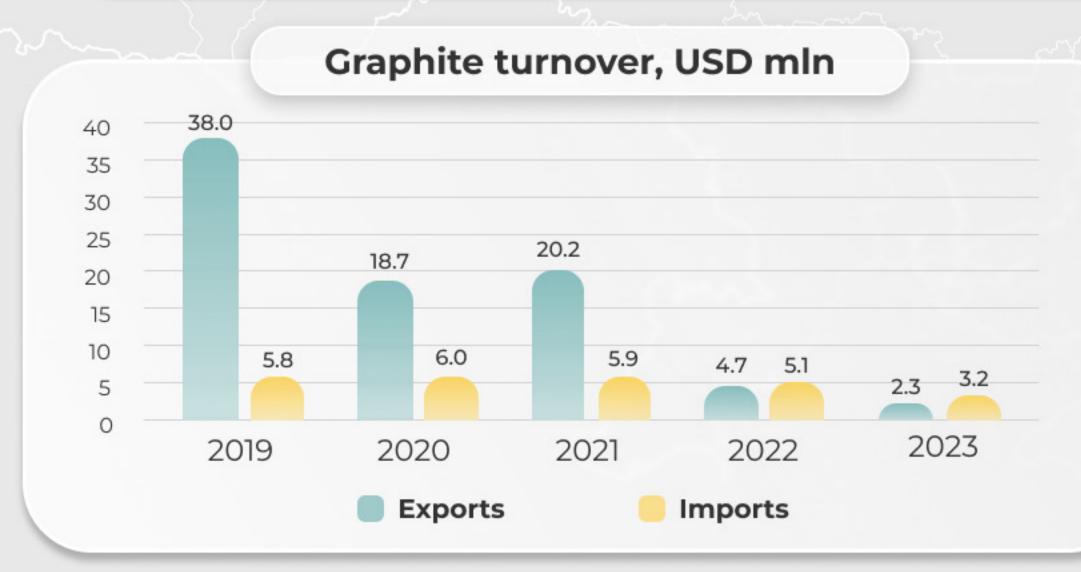


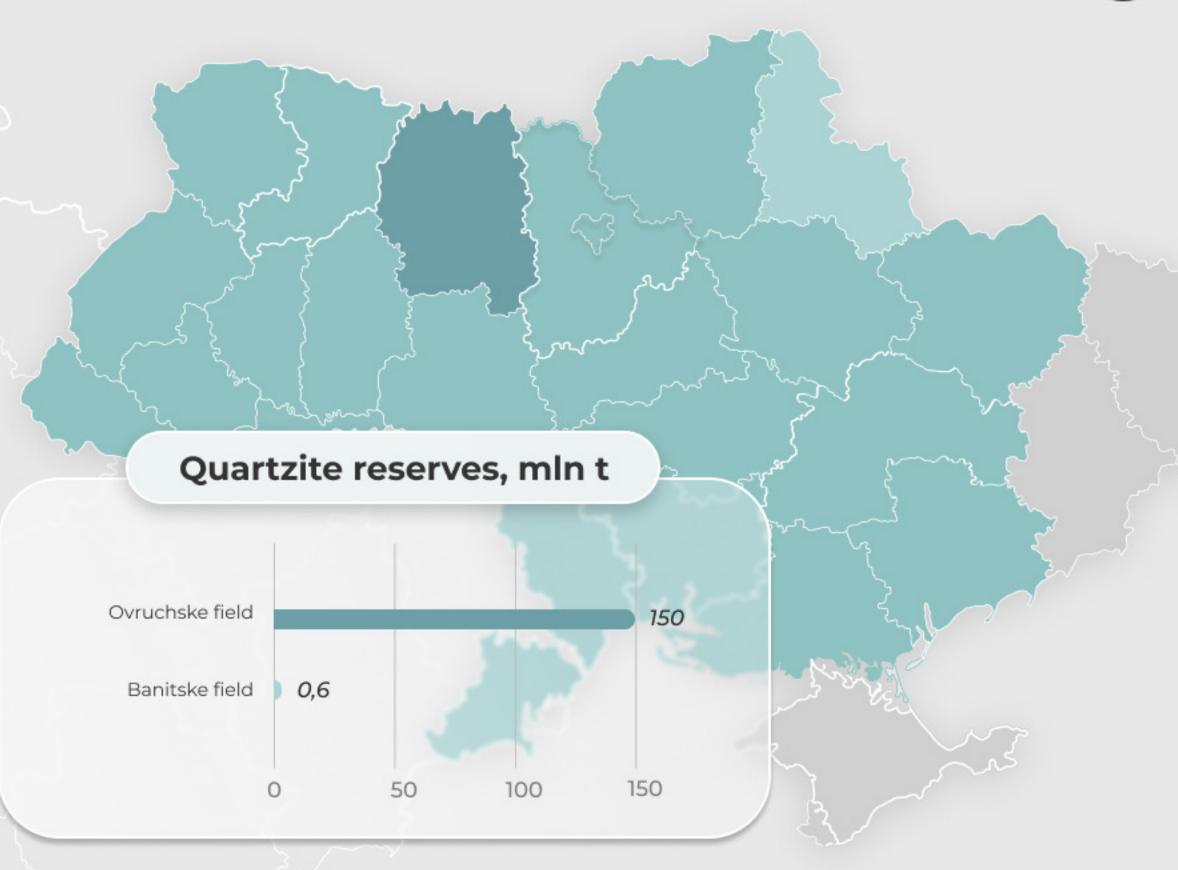
#### 100 mln

perspective graphite resources



## 100 ore occurrences







#### 180 mln t

confirmed quartzite reserves in Ukraine



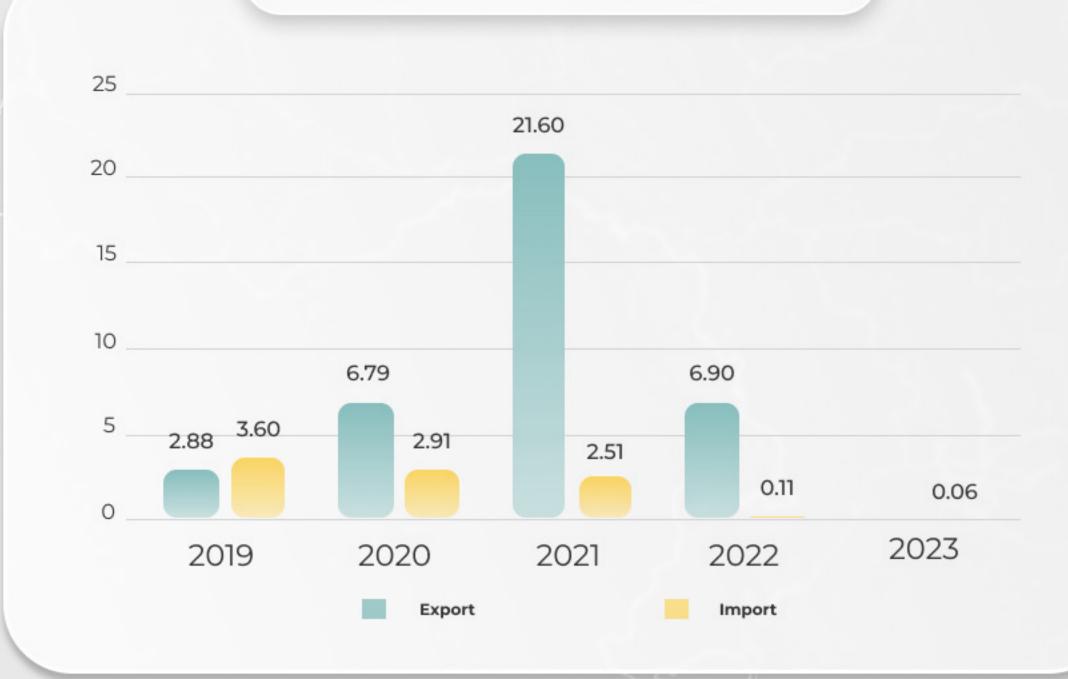
Copper



95 000 t

confirmed copper reserves in Ukraine

#### Copper turnover, bln USD

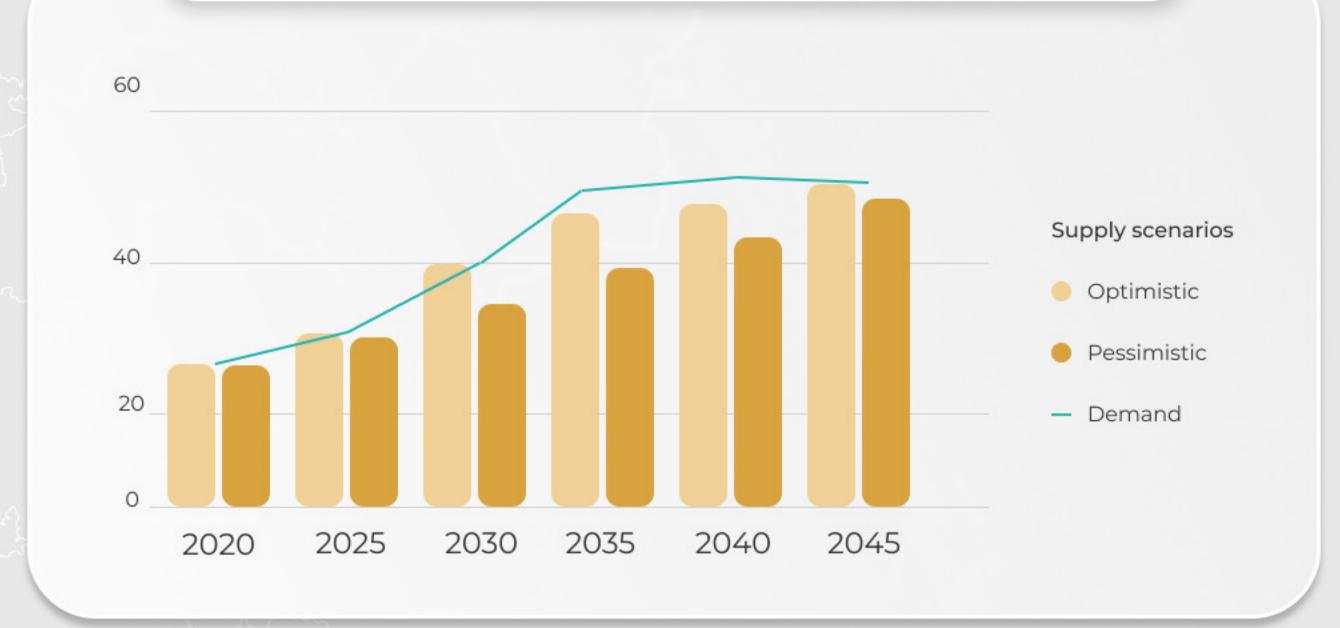




9.9 mln t

global copper deficit will increase by 2035

#### Global copper supply scenarios and demand, mln mt



Sources: State Customs Service of Ukraine, S&P Global

12



#### Lithium

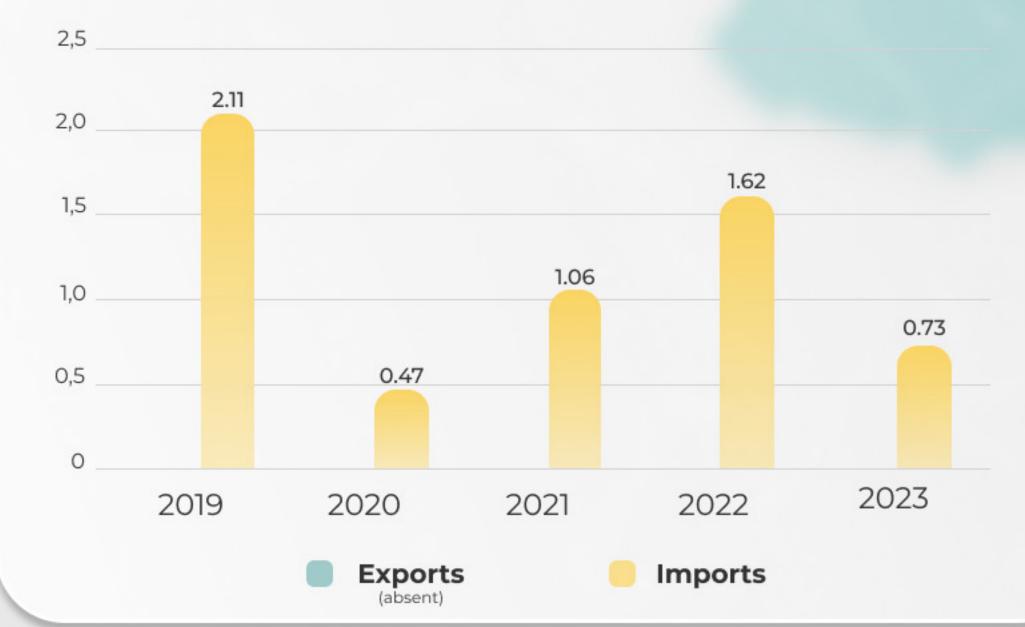


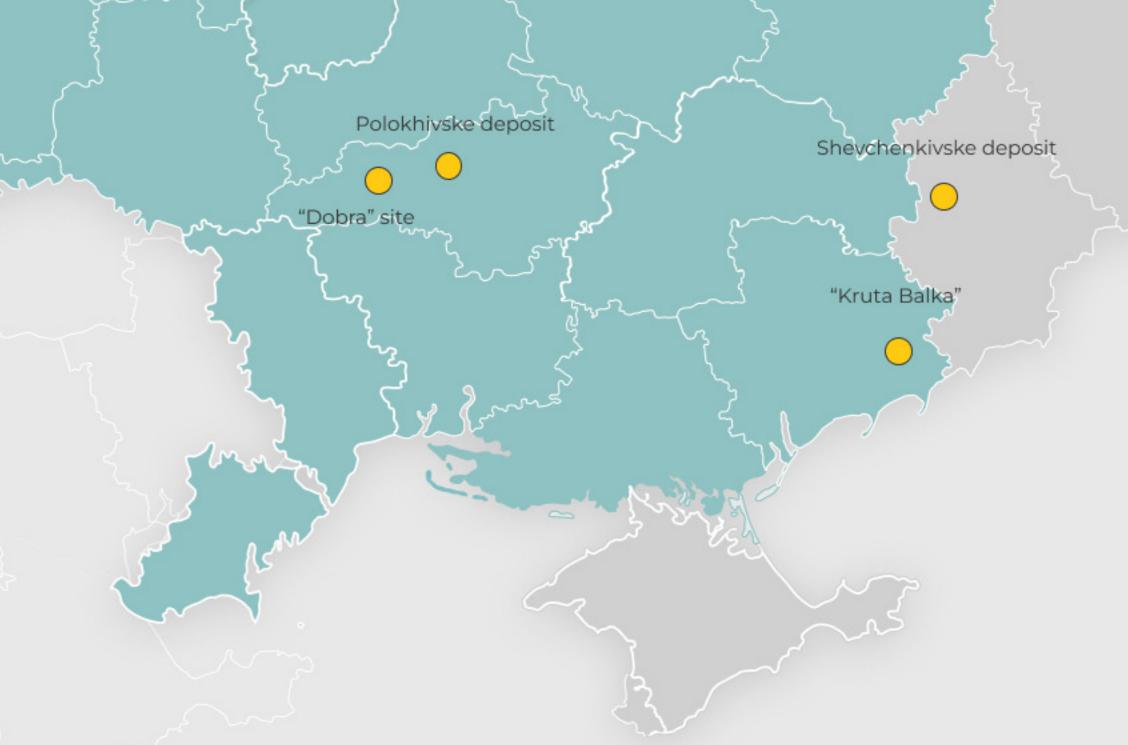
## 500 thsd t

Ukraine's spodumene lithium reserves, which are among the largest in the world



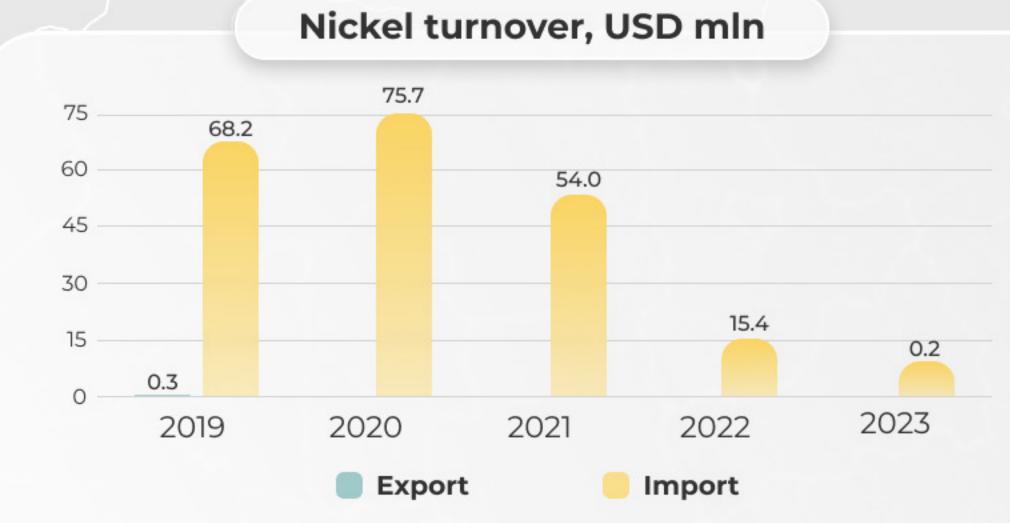
# Lithium turnover, USD mln

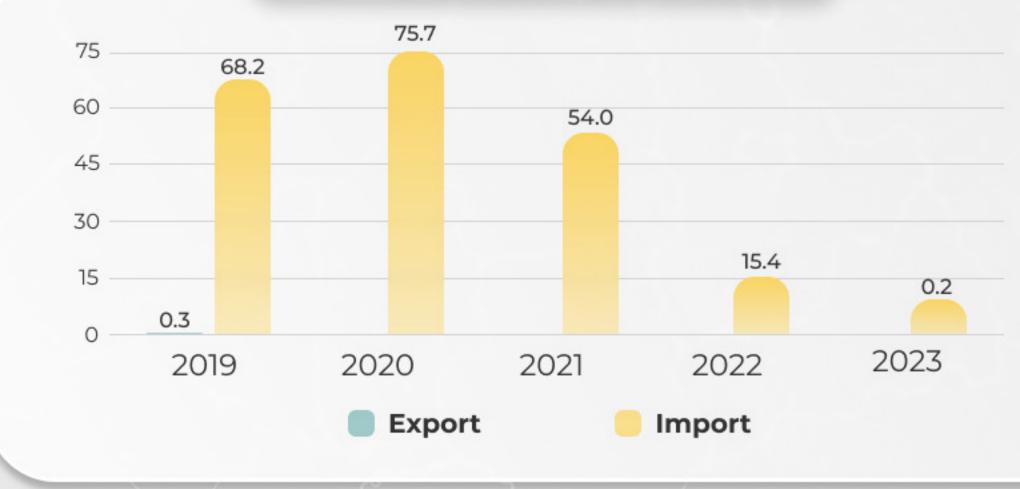






#### Nickel and cobalt







217.8 thsd t

nickel balance reserves

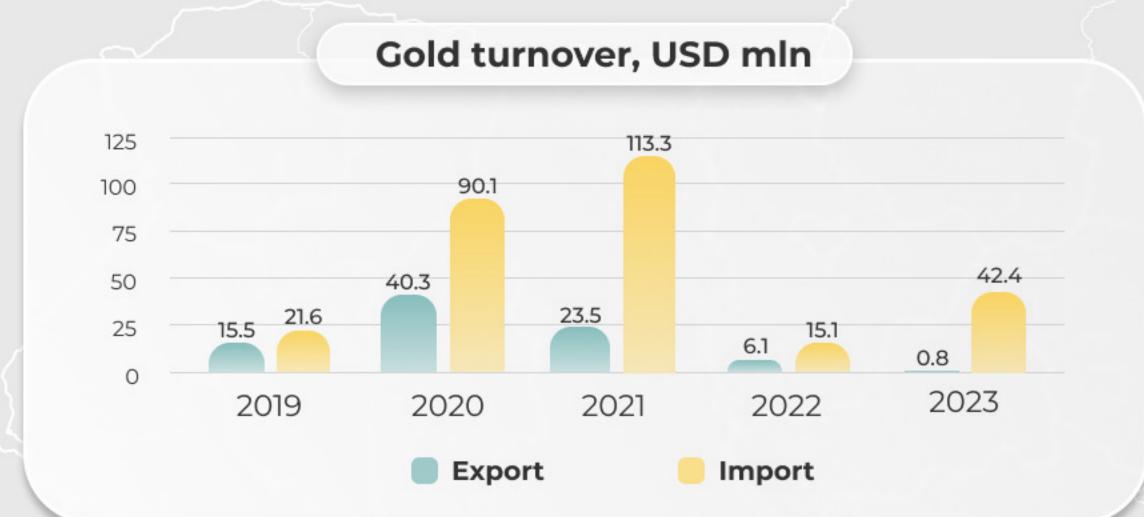


off-balance reserves of nickel

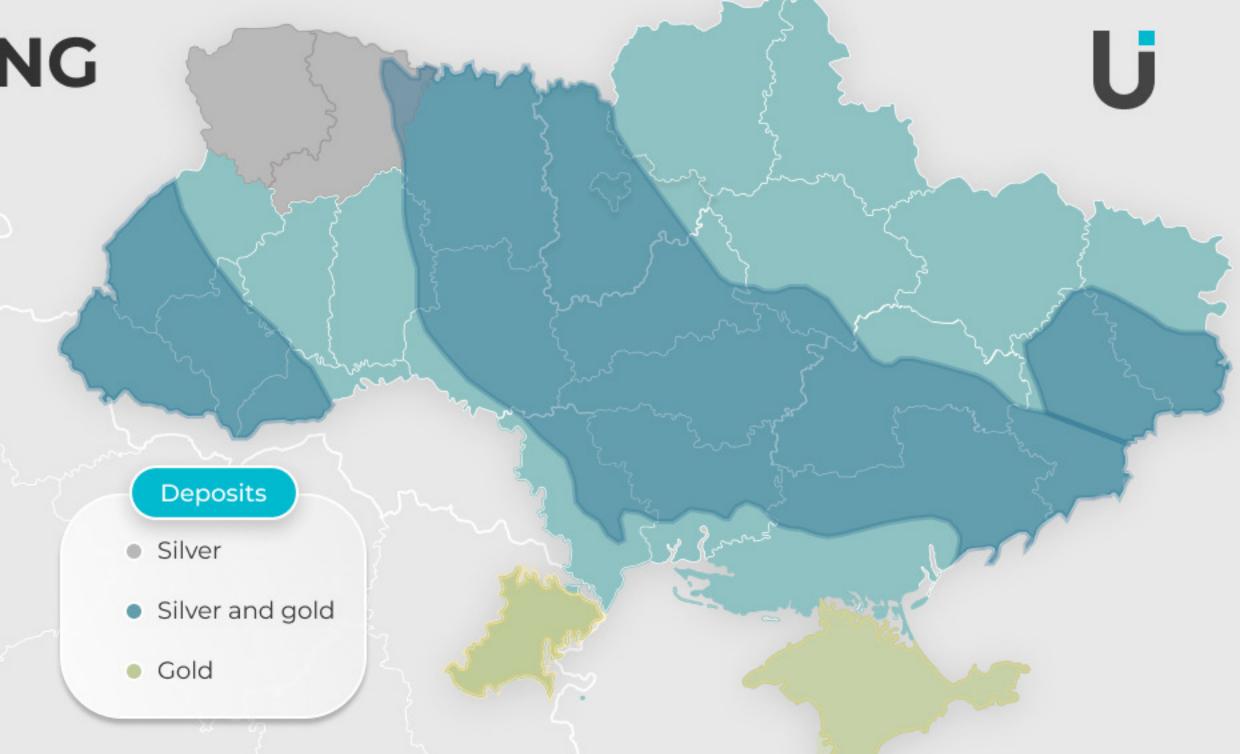




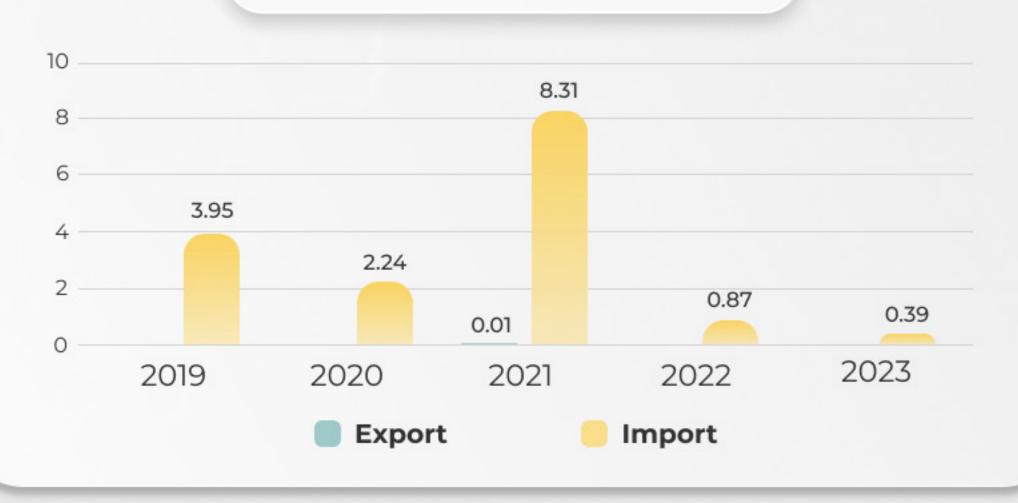
Gold and silver













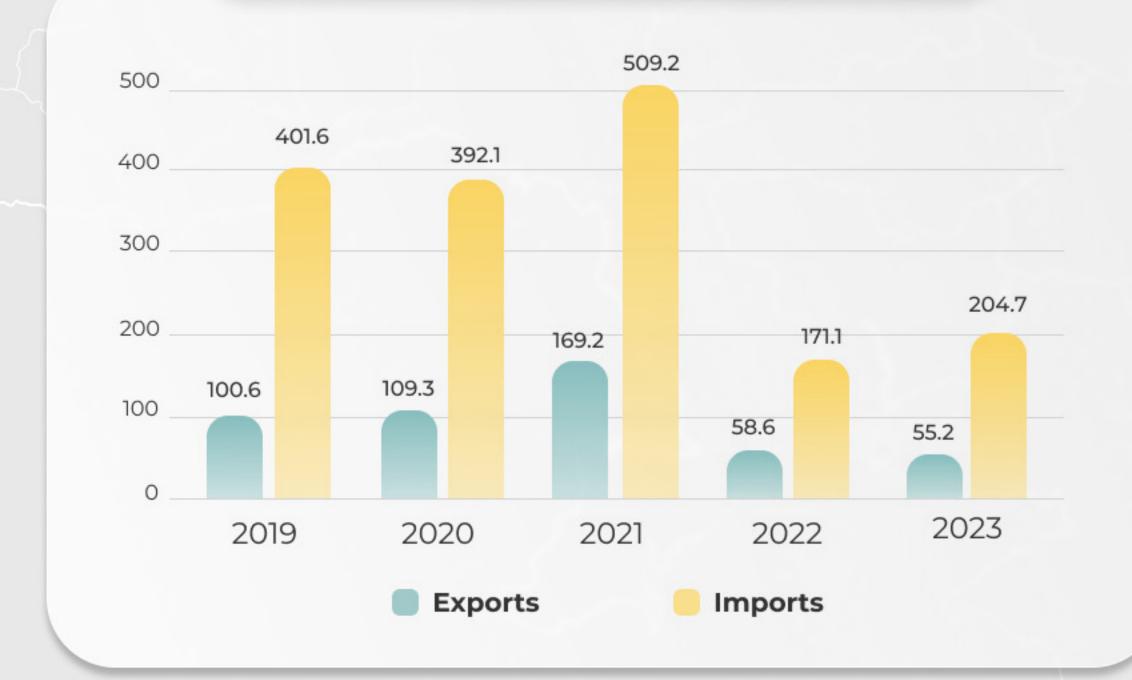
#### Aluminium and tantalum



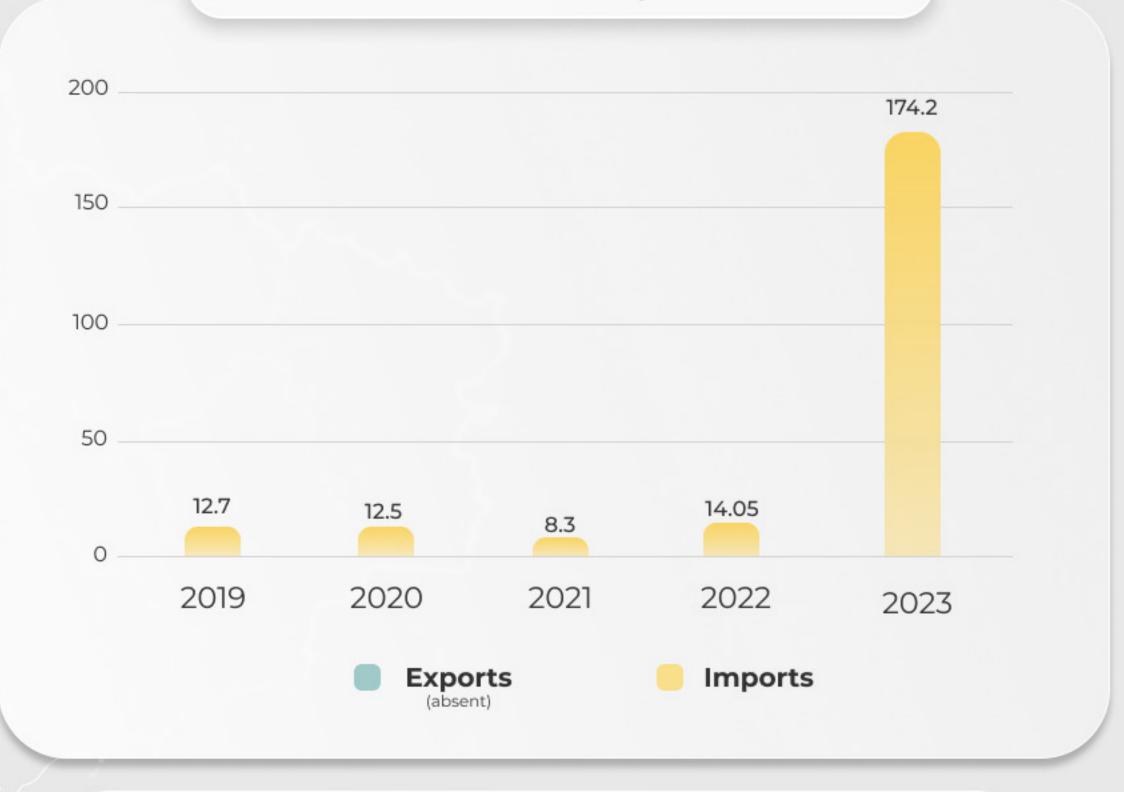
## 18.9 mln t

aluminium reserves in Ukraine

#### Aluminum turnover, mln USD



#### Tantalum turnover, thsd USD





Tantalum pentoxide (Ta<sub>2</sub>O<sub>5</sub>) detected in ores of Malyshevske and Vovchanske deposits in Dnipropetrovska oblast



Access to regional consumer markets

Nearly 1 bln consumer market can be reached within 2 500 miles

- ~450 mln **European Union**
- ~90 mln CIS (selected)
- ~500 mln Non EU
- ~40 mln **Ukraine**

About 6 mln Ukrainian refugees were registered in Europe as of 1H 2024



The Deep and Comprehensive Free Trade Areas (DCFTA) with EU

Ukraine has 19 FTAs with 47 countries

Ukraine is a member of The Regional Convention on pan-Euro-Mediterranean preferential rules of origin (PEM Convention)



U

Skilled workforce and competitive costs



#### 8th in the world

ranks Ukraine by the number of computer and information technologies specialists



400+ EUR

average monthly engineer's salary



0.17 euros per kWh

average electricity price for industrial consumers in Ukraine



4.5-5.3 USD

average rental cost per m<sup>2</sup> of class A warehouse facilities in Ukraine



# GRADUATES OF THE 2022/2023 ACADEMIC YEAR BY SPECIALIZATION

Name of Specialization	Number of C	Number of Graduates	
	Bachelor's degree	Master's degree	
Natural Sciences	2 651	592	
Mathematics and Statistics	881	217	
Information Technology	14 265	2 182	
Mechanical Engineering	3 247	2 182	
Electrical Engineering	3 364	542	
Automation and Instrumentation Engineeri	ng 2 398	399	
Chemical and Bioengineering	1 435	329	
Electronics and Telecommunications	1 624	223	
Production and Technology	3 764	670	
Architecture and Construction	4 270	1 249	
Agricultural Sciences and Food Technology	5 380	1 050	
Transport	5 925	441	
Health care	3 324	11 066	

Sources: Sun One, Jooble, Ministry of Finance of Ukraine, Delo.ua

#### INVESTMENT OPPORTUNITIES



#### R&D development



over

## 100 R&D centers

operating in Ukraine



5-7-9%

#### Affordable loans

simplifying financing for SMEs and innovative startups

over



300 млн дол. США\*

state budget of Ukraine for scientific research, 2025





46th

ranked Ukraine among 100 countries in the Global Startup Ecosystem Index 2024

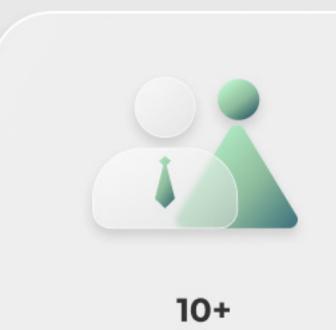
## **INVESTMENT INCENTIVES**

#### Capital investments

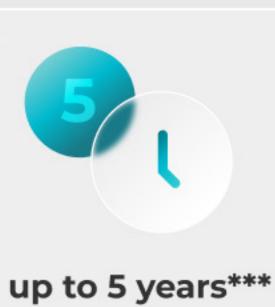
#### REQUIREMENTS FOR INVESTMENT PROJECT



12+ EUR mln of investment



of new jobs



of project

implementation



#### **FORMS OF SUPPORT**





CIT exemption\* (for 5 years by choice)



for importing new equipment and components to it \*\*



Exemption from **import duties** for new equipment
and components to it \*\*



Construction/compensation for built **engineering and transport infrastructure** (highways, communication lines,utilities, etc.).



Lease of state or communal land plots without land auctions



Compensation for costs of connection to engineering and transport networks



Land tax exemption/ reduced land tax rates



Exemption from compensation for losses of forestry production

#### **AMOUNT OF SUPPORT**

up to 30% CAPEX



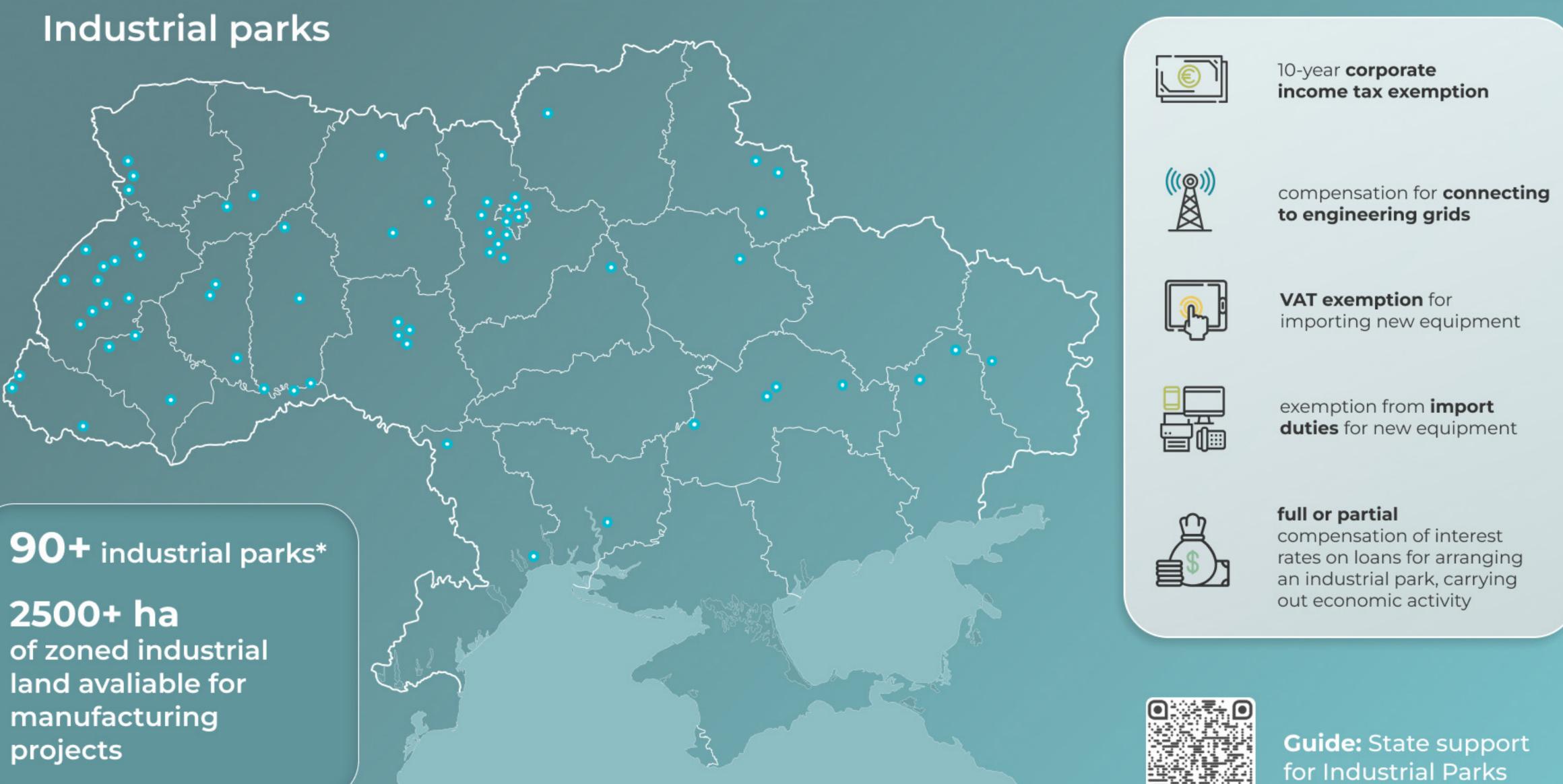
For more detailed information, we recommend paying attention to the following regulatory acts

- \* Not applicable to projects in the field of extraction for the purpose of further processing and/or enrichment of natural resources.

  \*\* List and volume of equipment is approved by the CMU for each project.
- \*\*\* The applicant, not earlier than 18 months before the date of submission of the application to the authorized body, may make investments in investment facilities in the amount not exceeding 30% of the total amount of significant investments required for the implementation of an investment project with significant investments

## INVESTMENT INCENTIVES





Source: Cabinet of Ministers of Ukraine

## INVESTMENT INSURANCE









A formalized agreement on the implementation of the investment insurance mechanism for foreign investments: 2022

Annual rate: 2-3%

Insurance period: 10 years

Coverage of the amount of losses: up to 90% Sure Trust Fund: USD 110 mln, goal - USD 330 mln



Law No. 9015 "On Amendments to the Law of Ukraine

"On financial mechanisms for stimulating export activity" regarding insurance of investments in Ukraine against military risks": 2023

Annual rate: 0.49% - 8.05%

Insurance amount: **UAH 200 mln** 

Insured for 5 months in 2024: UAH 2.93 bln



Property insurance against war risks: 2024
Implemented cases: Grain elevators



Ship insurance in the Black Sea: 2023

Containers with grain, iron ore, and steel, electrical equipment, fodder

Annual rate: 0.75%

Coverage amount: USD 50 mln



U.S. International Development Finance Corporation



Memorandum on coverage of American, international and Ukrainian investments in Ukraine: 2023
Coverage of the amount of losses: up to 85%
Insurance for SMEs: USD 50 mln

Insurance of the agricultural sector, manufacture: USD 300 mln

22 export-import agencies: Germany, WB, USA, Japan, Canada, Italy, Poland, Norway, Slovakia, France, Bulgaria, Estonia, Latvia, Lithuania, Czech Republic, Austria, UAE, Portugal, Spain, Sweden, Finland, Denmark

Volume of the collected fund: EUR 1 bln

Source: MIGA, Ministry of Economy of Ukraine, USAID





UKRAINEINVEST GUIDE

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