

In Metropolis GZM. Business

ECONOMIC BULLETIN OF METROPOLIS GZM

NO. 2/2021

Katowice-Airport aims to break record

The Upper Silesian Aviation Group, a company managing the Katowice-Airport (Wojciech Korfanty Katowice International Airport in Pyrzowice) expects over 50% increase in cargo compared to 2020 and going closer to above 30 thousand ton of air freight handled annually.

SCHEDULED FREIGHT CONNECTIONS FROM KATOWICE-AIRPORT

DIRECTION OF FREIGHT CONNECTIONS	COUNTRY	OPERATOR
Frankfurt	Germany	Lufthansa Cargo
Cologne Bonn	Germany	UPS
Liège	Belgium	TNT
Leipzig-Halle	Germany	DHL Express
Paris (Charles de Gallue)	France	FedEx
Stuttgart	Germany	FedEx
Timișoara	Romania	TNT
Warsaw	Poland	TNT
Vienna	Austria	Lufthansa Cargo

WATCH



New investor in the Zabrze part of Katowice Special Economic Zone

Eurosleeve S.A. plans to invest PLN 15 million and hire around 70 people in Zabrze. In May 2021, the company acquired a plot of over 1 ha located in the Zabrze part of Katowice Special Economic Zone (KSSE S.A.). The company specialises in the production of assortment needed for packing and displaying herbs, pot flowers, vegetables, fruit, sweets, and bread.

STATISTICS FOR THE ZABRZE PART OF KSSE S.A.

32

ENTITIES ACQUIRED
REAL ESTATE

92,6%

AREA SOLD

approx. PLN 1 billion

OF INVESTMENT

approx. 1,500

NEW JOBS



Source: own elaboration based on "Kolejna sprzedana działka w zabrzańskiej strefie" ["Another plot sold in the Zabrze zone."]

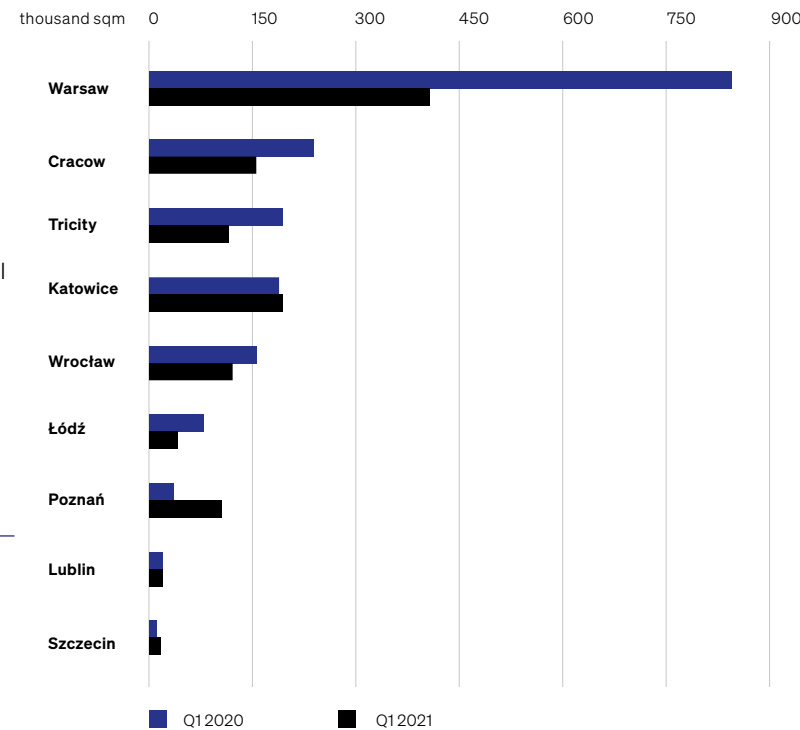
Partner



Metropolia GZM

200 thousand sqm of offices under construction in Katowice

According to the information prepared by Cresa Polska – a commercial real estate advisory company – at the end of Q1 2021, there were 200 thousand sqm of offices under construction in Katowice.



Source: own elaboration based on “Niskie poziomy wynajęcia realizowanych inwestycji biurowych oraz mniej metrów w budowie” [“Low rental levels of the ongoing office investments and fewer metres under construction.”]

Ammega Group opens global business services centre in Katowice

The centre will be designing and improving end-to-end processes in a comprehensive way for key business areas such as: finance, IT, HR, marketing, supply chain management, environment protection, as well as production data forecasting and evaluation with the use of modern, digital solutions.

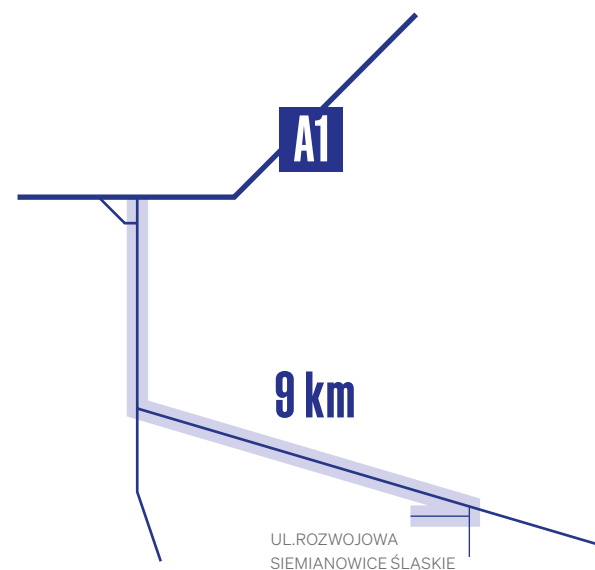
Ammega Group is a global leader in power transmission, conveying systems, and fluid power. Ammega delivers services for industry in 150 locations all over the world, for more than 50,000 customers.

Source: own elaboration based on “W centrum Katowic powstaje pierwsze globalne centrum usług biznesowych grupy Ammega.” [“First global business services centre of Ammega Group under construction in the Katowice city centre.”]

Zone 333 a new business district in Siemianowice Śląskie

Katowice Special Economic Zone S.A. became a strategic partner of the City Hall in the sale of new investment areas in Siemianowice Śląskie offered under the Zone 333 brand. The new business district of the city will be created on the administrative border with Chorzów.

Zone 333 is to be located in the immediate vicinity of the already operating Silesian Business Park. The entire area is located only 9 km away from the A1 motorway.



Source: own elaboration based on “KSSE oficjalnym partnerem w sprzedaży terenów inwestycyjnych - rusza projekt Strefa 333.” [“KSSE an official partner in the sale of investment area - Zone 333 launches.”]

Poland’s first excellent-level business park created in Sosnowiec

Panattoni Park Sosnowiec I has been awarded with “Excellent” level in the BREEAM International New Construction system. It is the first such high certification level on the industrial properties market in Poland awarded to the newly developed project. The park has received a maximum score (100%) for water systems which enabled limiting water consumption by 66.5%, as well as for land use and ecology. The greenhouse gas emissions have been reduced by 46% of the reference value. The park with an area of over 31.5 thousand sqm was created in the post-industrial area. Almost 1/3 of the area has been designated for flower meadows. The remaining part has been covered with, among others, ecological lawns that don’t require frequent mowing.

Source: own elaboration based on: “Polska z pierwszym magazynem na poziomie Excellent w BREEAM International New Construction. Panattoni Park Sosnowiec wyrósł na przemysłowym gruncie.” [“Poland with the first excellent-level warehouse in BREEAM International New Construction. Panattoni Park Sosnowiec established on a post-industrial land.”]

New investment projects in the Metropolis

Source: own elaboration based on:

“Ruszyła budowa Vendo Parku w Chorzowie Batorym” [“Vendo Park construction launched in Chorzów Batory.”]

“InPost otworzy dwa huby logistyczne na Śląsku” [“InPost to open two logistics hubs in the Silesian Voivodship”]

“European Logistics Investment rozpoczyna budowę centrum logistycznego na Śląsku o powierzchni 100 tys. mkw.”. [“European Logistics Investment launches 100 thousand sqm logistics centre construction in the Silesian Voivodship.”]

CITY	INVESTMENT TYPE	ADDITIONAL INFORMATION
Chorzów	Vendo Park – Park handlowy	4 commercial buildings with land development
Katowice	InPost Logistics Hub	investment announcement
Tychy	Logistics Centre – Park Tychy	area of 100 thousand sqm
	InPost Logistics Hub	investment announcement

TÜV Rheinland Polska moves to Zabrze

TÜV Rheinland Polska has decided to move its headquarters from Warsaw to Zabrze. The change of the location results from its development plans – there is a large group of the company’s clients in the region. The new headquarter will house all of its departments, that is, Systems Certification, Services for Industry, Product Certification, Economic, Trainings, and Personnel Certification. A research and training laboratory has also been established in Zabrze.

Source: own elaboration based on “TÜV Rheinland Polska przenosi siedzibę z Warszawy do Zabrza” [“TÜV Rheinland Polska moves its headquarters from Warsaw to Zabrze”]

Export potential of the Metropolis cities

The cities that make up the Metropolis have a substantial influence on the export potential of the Silesian Voivodship. Three of them are within the top four poviats generating nearly half of the region's entire export. The capital of the Metropolis – Katowice – is the leader in terms of the number of exporters (454) and the number of export destinations (150).

EXPORT VALUE FROM INDIVIDUAL POVIATS OF THE SILESIA VOIVODSHIP [2019]

CITY WITH POVIAT RIGHTS	SILESIA VOIVODSHIP GENERAL RANKING	EXPORT VALUE 2019 (PLN)	% SHARE IN EXPORT OF THE SILESIA VOIVODSHIP
Dąbrowa Górnicza	2	13 344 702 300	11,1%
Gliwice	3	13 263 515 935	11,0%
Tychy	4	9 513 435 593	7,9%
Katowice	7	5 450 337 945	4,5%
Sosnowiec	10	3 607 708 417	3,0%
Chorzów	12	3 215 881 500	2,7%
Siemianowice Śląskie	17	2 066 691 923	1,7%
Zabrze	19	1 532 890 897	1,3%
Mysłowice	21	1 318 376 905	1,1%
Ruda Śląska	22	1 254 558 945	1,0%
Piekary Śląskie	33	430 067 435	0,4%
Bytom	34	342 711 833	0,3%
Świętochłowice	36	242 394 790	0,2%

EXPORT VALUE [2019]

55,6 MLD ZŁ

METROPOLIS GZM

120,4 MLD ZŁ

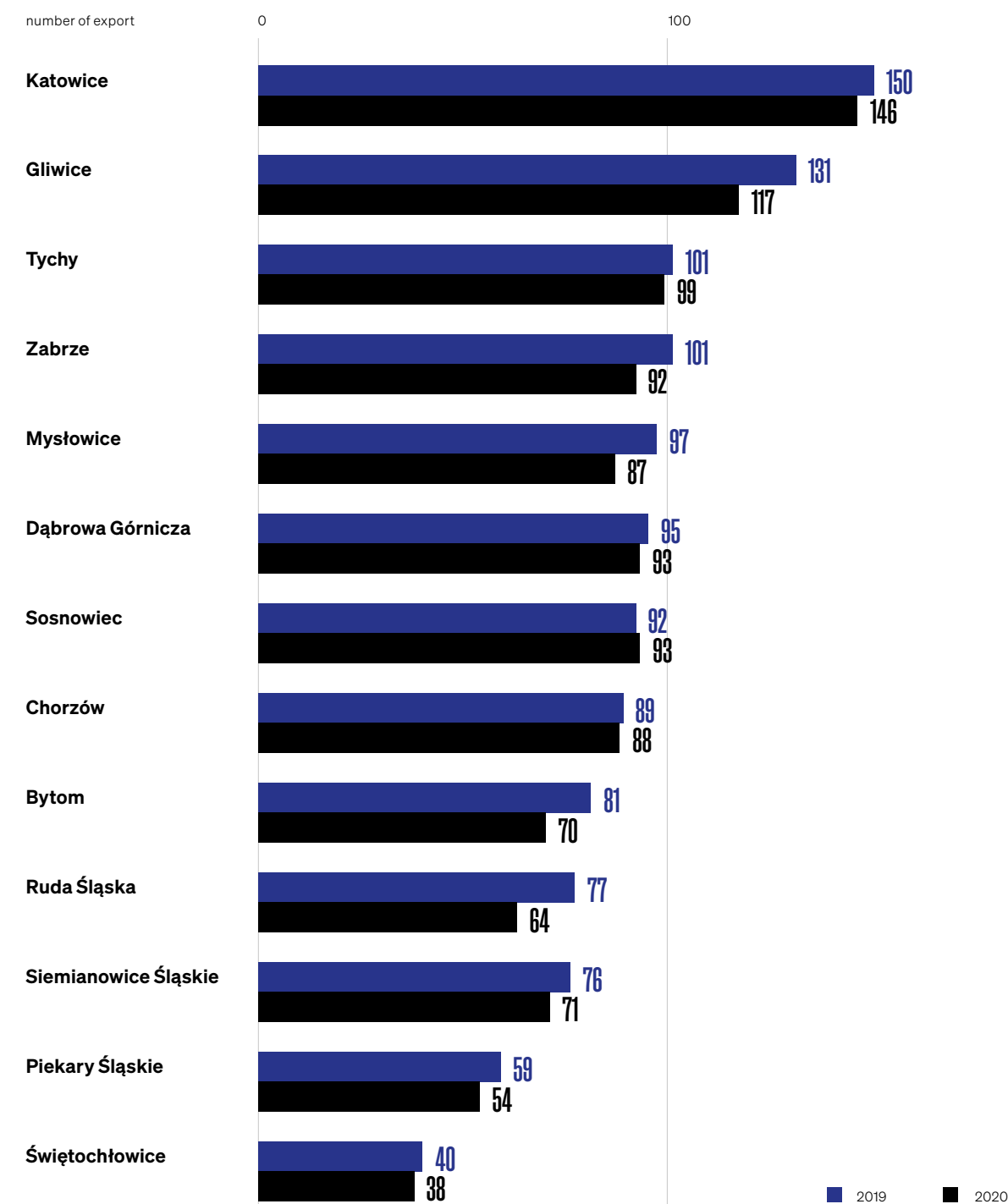
SILESIA VOIVODSHIP



46,2%

THE VALUE OF EXPORT FROM METROPOLIS GZM (CITIES WITH POVIAT RIGHTS) IN COMPARISON TO SILESIA VOIVODSHIP

NUMBER OF EXPORT DESTINATIONS SPLIT BY PARTICULAR CITIES WITH POVIAT RIGHTS, ASSOCIATED IN GZM [2019 AND 2020]



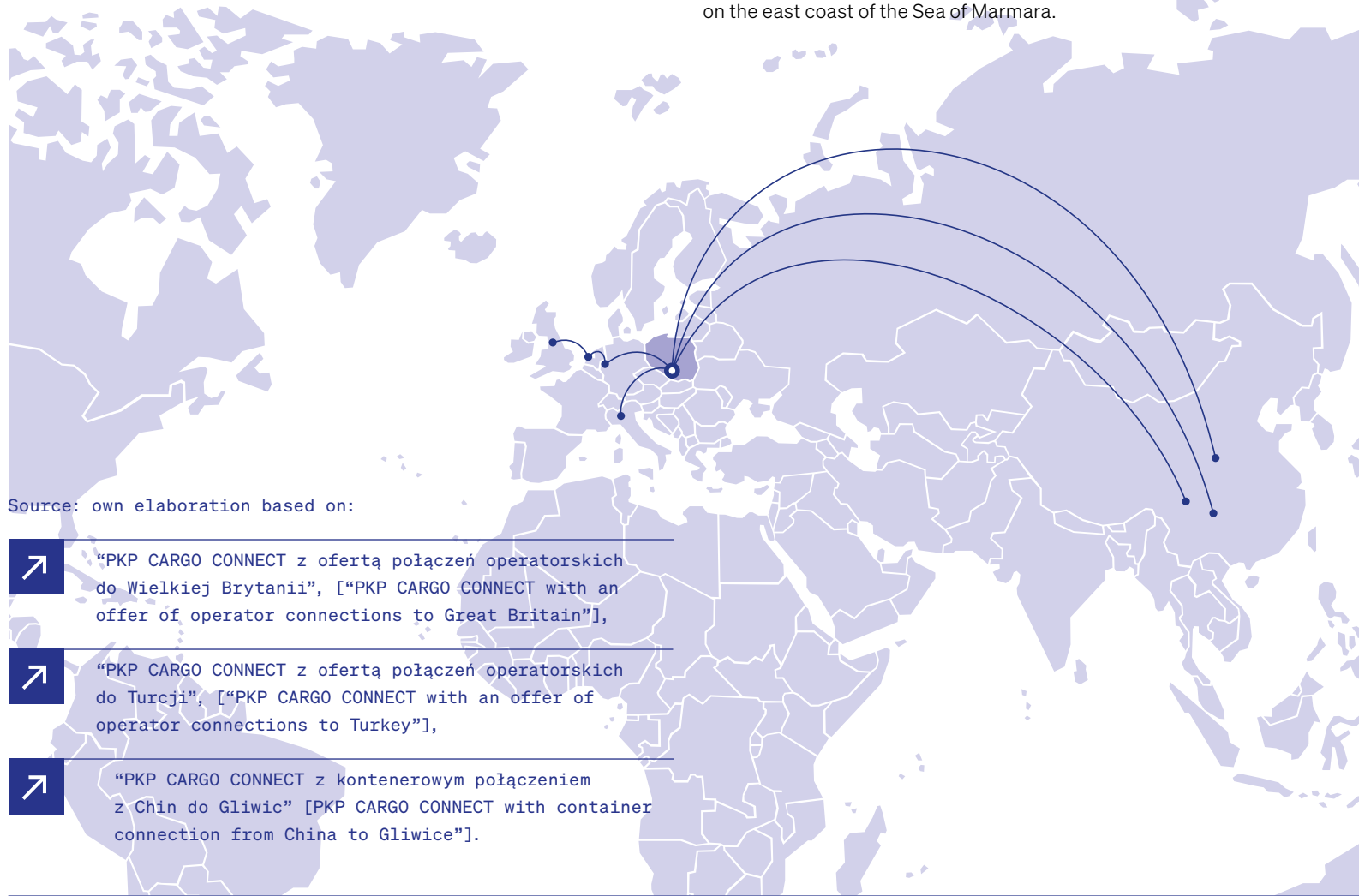
Source: own elaboration based on "WOJEWÓDZTWO ŚLĄSKIE - KIERUNEK: EKSPORT. Analiza potencjału i identyfikacja potrzeb przedsiębiorstw z sektora MŚP z województwa śląskiego w zakresie internacjonalizacji. Rekomendacje dotyczące instrumentów wsparcia i promocji gospodarczej. Raport końcowy, kwiecień 2021." [SILESIA VOIVODSHIP - DIRECTION: EXPORT. The analysis of the potential and identification of needs of SMEs from the Silesian Voivodship in terms of internationalisation. Recommendations on the instruments of economic support and promotion. Final report, April 2021.]

Gliwice terminal one of the region's key transshipment hubs

PKP Cargo Connect operates direct connections with Duisburg (Germany), Piacenza (Italy), and Mafaszewicze which is the gate to the European Union on the New Silk Road and further, in the export of European goods to Asia.

The regular connection Gliwice – Duisburg – Great Britain is operated twice a week. Each train transports 40 containers.

The Gliwice – Izmit (Turkey) – Gliwice connection is a joint venture of PKP CARGO CONNECT and Logitrans. Izmit is one of the most important cities on Turkey's economic map, a large port located around 100 km of Istanbul, on the east coast of the Sea of Marmara.



Outstanding results of the Polish Investment Zone (PSI) Katowice Special Economic Zone S.A. among the leaders

Within the first three months of 2021, as part of PSI, 96 decisions on investment support were issued totalling over PLN 3.5 billion. This way, almost 4 thousand new jobs are to be created – as results from the data of the Ministry of Development, Labour and Technology.

According to the data from Q1 2021, the three Special Economic Zones (SSE) with the highest number of positive decisions on the support are as follows: Katowice SSE, Łódź SSE, and Kostrzyn – Słubice SSE. From January to March 2021, 40 new investments were contracted there, with the total value of approximately PLN 1.5 billion. They constitute 32% of all projects initiated in the zones in Q1 2021.

The Polish Investment Zone was created under the act of 10 May 2018 on supporting new investments – this way Poland has become a single investment area. Since 5 September 2018, tax exemptions have been available country-wide, and not only within the areas (designated by regulations) of the special economic zones – as it had been before.

Source: Polska Strefa Inwestycji: znakomite wyniki na koniec pierwszego kwartału 2021 r. [Polish Investment Zone: outstanding results at the end of Q1 2021].

Information point for foreigners was created in Katowice

A special information point was created in Katowice with foreigners coming to work or study in mind. The place provides assistance in, among others, residence registration, employment, Polish language lessons or access to healthcare. Employees in the information point speak the following languages: English, German, Russian, and Ukrainian.

Information Point for Foreigners,
ul. Młyńska 5, Katowice

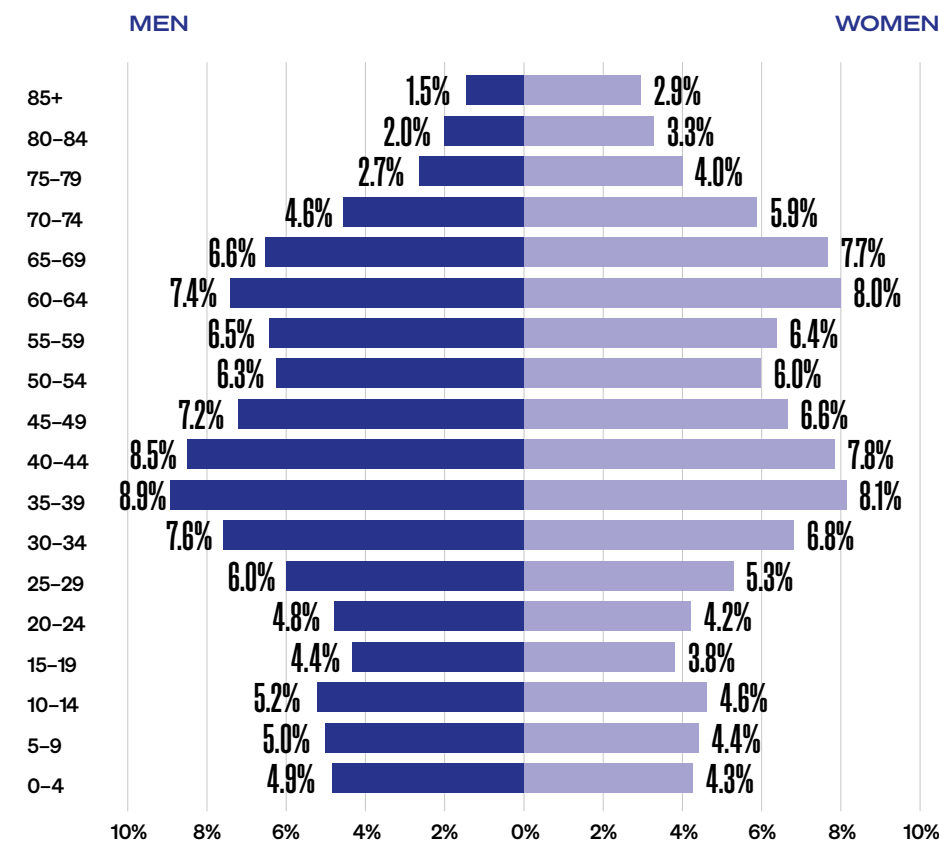
Opening hours:
Monday and Thursday: 12:00–5:00 pm
Tuesday, Wednesday, Friday: 9:00 am – 2:00 pm

Source: own elaboration based on “Punkt Informacyjny dla Cudzoziemców” [“Information Point for Foreigners”].

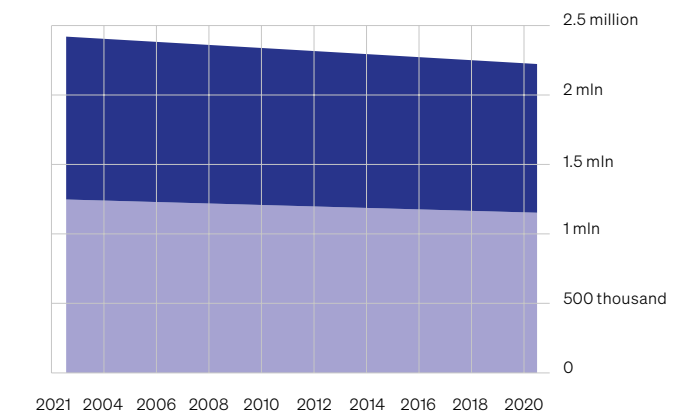
Age Pyramid of the Metropolis residents

On the website of Metropolitan Socio-Economic Observatory of Metropolis GZM, an age pyramid of residents has been published. It allows for comparing demographic data throughout the years (2002–2020) and in particular cities and municipalities in an easy and intuitive way. The tools can be used for a series of analyses concerning the job market.

POPULATION AGE PYRAMID 2020



METROPOLIS GZM CHANGE IN THE POPULATION

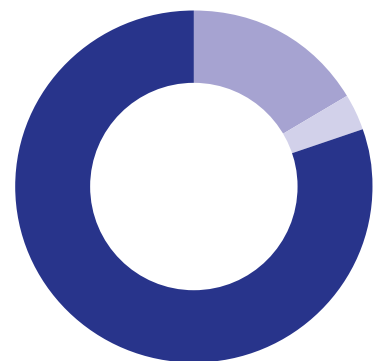


More and more foreigners working in the region

At the end of March 2021, approximately 66 thousand foreigners were employed in the Silesian Voivodship (nearly 10 thousand more than at the end of 2019). The majority of them come from Ukraine – in 2021, social security premiums were paid for over 53 thousand citizens from this country. The second largest nationality working in the Silesian Voivodship was Belarusian (2.2 thousand people). Among the most numerous nations employed we can also enumerate accordingly: Georgians, Moldovans, Russians, Romanians, Italians, and Czechs. In total, citizens from around 100 countries from all over the world – including, among others, from Jordan, Colombia, and Laos – work in the Silesian Voivodship.

66 thousand

TOTAL NUMBER OF FOREIGNERS EMPLOYED IN THE SILESIA VOIVODSHIP



10.8 thousand

CITIZENS OF GEORGIA, MOLDAVIA, RUSSIA, ROMANIA, ITALY, CZECH REPUBLIC, JORDAN, COLOMBIA, LAOS

53 thousand

CITIZENS OF UKRAINE

2.2 thousand

CITIZENS OF BELARUS



Source: own elaboration based on “Śląskie: padł rekord pracujących cudzoziemców. Najwięcej nowy Ukraińców” [“Silesian Voivodship: Record-high number of working foreigners. Most of them are Ukrainians.”]

Representative of the University of Economics in Katowice a member of the Team supporting persons with disabilities on the job market

Małgorzata Szwarz – an employee of the University of Economics in Katowice was appointed for the Team supporting persons with disabilities on the labour market. The team is an advisory body for the Minister of Labour in terms of his actions and decisions related to the improvement of the group’s employment situation on the labour market.



Source: own elaboration based on “Iwona Michałek wręczyła powołania członkom Zespołu ds. wspierania osób z niepełnosprawnościami na rynku pracy”. [“Iwona Michałek handed the members of the Team supporting persons with disabilities on the labour market their nominations.”]

More universities with support as part of the Metropolis Science and Education Support Fund

Six projects worth more than PLN 380 thousand has received funding as part of the Metropolis Science and Education Support Fund. Thanks to the funding provided by the Metropolis, the universities can host scientists from the world’s best academic centres.

University of Economics in Katowice focuses on internationalisation

The University of Economics in Katowice has launched a project aimed at building long-term relationships and increasing the engagement level of foreign graduates in the cooperation with the university. The university plans, among others, launching the “Foreign Ambassador” campaign and promotion abroad. For this purpose, the university has obtained nearly PLN 200 thousand from the National Agency for Academic Exchange (NAWA), as part of the “Welcome to Poland” contest.



Source: own elaboration based on “UE Katowice wśród zwycięzców konkursu NAWA »Welcome to Poland«” [“UE Katowice among the winners of the NAWA contest »Welcome to Poland«”]

Local governments strengthen cooperation with universities

Source: own elaboration based on:



Klasa patronacka o profilu politechniczno-lingwistycznym powstanie w I Liceum Ogólnokształcącym w Świętochłowicach dzięki współpracy z Politechniką Śląską”, [“Technological and Linguistic Vocational training class to be created in the Secondary School no. 1 in Świętochłowice thanks to the cooperation with the Silesian University of Technology.”]



“Tarnowskie Góry i SUM chcą zachęcać młodych ludzi do studiowania w regionie” [“Tarnowskie Góry and SUM want to encourage young people to study in the region.”]

Technological and Linguistic Vocational training class will be created in the Secondary School no. 1 in Świętochłowice. All thanks to the cooperation agreement signed between the school, the city of Świętochłowice and Silesian University of Technology.

The class will start on 1 September 2021. There will be more ICT, math, and specialist English lessons in the curriculum. Silesian University of Technology will enable pupils from the Secondary School no. 1 in Świętochłowice to participate in selected academic classes and support teachers from the school in improving their professional qualifications. They will also be able to get professional support in conducting classes from academic teachers.

The authorities of Tarnowskie Góry powiat (consisting of Metropolis municipalities such as: Ożarówce, Radzionków, Świerklaniec, Tarnowskie Góry, Zbrosławice) have signed a cooperation agreement with the Silesian Medical University. The main purpose of the agreement is to convince young people from Tarnowskie Góry powiat to study medicine in the region. The university plans to promote medical studies, and the powiat authorities to introduce scholarship system for the most talented pupils who will choose the studies.

“Virtual Patient” at the Medical University

A “Virtual Patient” using artificial intelligence (AI) – which will help students from the Medical University of Silesia in Katowice in the new academic year – will have as many as 50 thousand different diseases. Medical University of Silesia is the first Polish medical university to use artificial intelligence in the education at such a broad level. The project was financed by the National Centre for Research and Development, and was created in cooperation with BD Polska.



Source: own elaboration based on “Wirtualny Pacjent pomoże w nauce studentom medycyny SUM.” [“Virtual Patient will help SUM medical students learn.”]



Over PLN 12 million from the National Centre for Science for the Silesian University in Katowice

Nineteen projects and over PLN 12 million funding from the National Centre for Science for the Silesian University as part of three competitions.

OPUS 20

A competition that awards funding to research projects, including funding the purchase or production of a scientific and research equipment necessary to carry out the projects. The ranking includes eight research initiatives from the Silesian University.

PRELUDIUM BIS 2

As part of the competition, research projects submitted by entities running doctoral schools are implemented. The program supports doctoral students in their education through funding research projects they carry out as part of their Ph.D. dissertations. The ranking includes 5 undertakings from the Silesian University.

SONATA 16

As part of the competition for research projects carried out by persons holding the academic degree of Doctor, six initiatives from the Silesian University will receive funding.



Source: own elaboration based on "Naukowcy UŚ w konkursach NCN" ["The Silesian University Researchers in NCN competitions."]

Two new centres of the Silesian University of Technology



Industry 4.0 Centre of the Silesian University of Technology and European HealthTech Innovation Centre are the two new units established at the Silesian University of Technology.

Industry 4.0 Centre is the international-level, institution-wide organisational unit of the Silesian University of Technology in Gliwice, established in order to conduct research and development, implementation and training activities, promote expert knowledge in the scope of the issues related to the industry of tomorrow.

The main tasks of the European HealthTech Innovation Centre in Zabrze include conducting scientific research as well as post-graduate program and other forms of education. In addition, the unit is engaged in developing and implementing modern technologies and medical devices.

Source: own elaboration based on:



"Utworzono Centrum Przemysłu 4.0 Politechniki Śląskiej", ["Industry 4.0 Centre of the Silesian University of Technology has been established"]



"Powołano Europejskie Centrum Innowacyjnych Technologii dla Zdrowia". ["European HealthTech Innovation Centre has been established."]

Special purpose vehicle of the Jerzy Kukuczka Academy of Physical Education

The implementation or preparing for implementation of the results of the scientific activity or the relevant know-how, development works conducted at the Academy of Physical Education in Katowice is the main goal of the Akademickie Centrum Medyczne AWF Katowice sp. z o.o. [Academic Medical Centre of the AWF Katowice, limited-liability company] based in Katowice, appointed by the university senate.



Source: own elaboration based on "Utworzenie Akademickiego Centrum Medycznego AWF Katowice sp. z o.o." ["The establishment of Akademickie Centrum Medyczne AWF Katowice sp. z o.o."]

More municipalities development projects with the support of the Metropolis

Metropolis GZM has granted more funds as part of the Low Emissions Reduction Program and the Solidarity Fund.

Low Emissions Reduction Program	55 projects worth over PLN 26 million	Investments in thermo-modernisation of municipal buildings as well as construction of RES installations (Renewable Energy Sources), modernisation of lighting system into an energy-saving one, investments related to the public transport, such as construction or modernisation of integrated interchanges, infrastructure of transport shelters, construction and modernisation of cycle paths, as well as pedestrian infrastructure.
Solidarity Fund	46 projects worth over PLN 11 million	Modernisation of the road infrastructure, passenger infrastructure, as well as public spaces regeneration.

Source: own elaboration

Metropolis integrates city bike networks

CITY BIKES IN METROPOLIS IN 2021

In the current season, you can move freely between five cities of the Metropolis: Katowice, Chorzów, Tychy, Sosnowiec, Siemianowice Śląskie. Bikes and the stations are available 24/7 and you only need a smartphone to use them.



Source: own elaboration

The situation on the housing market in Metropolis GZM in Q1 2021

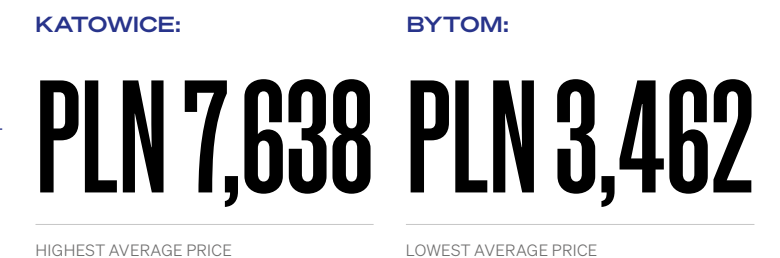
Average offer price of 1 sqm on the primary market in the GZM is PLN 5,486. In Q1 2021, the price above the average was recorded in 11 municipalities of GZM. The highest average price on the primary market was recorded in Katowice and amounted to nearly PLN 8 thousand (PLN 7,866). Prices up to PLN 6 thousand occurred in 5 other cities with poviats rights. The lowest price per 1 sqm on the primary market was estimated in Wojkowice and it was PLN 3,762, and among the cities with poviats rights – in Chorzów (PLN 4,518).

Average price of 1 sqm on the secondary market in the GZM municipalities studied amounted to PLN 4,767. The prices above the average were noted in 8 municipalities, and the highest one – above PLN 7 thousand – in Katowice (PLN 7,638). Apart from Katowice, the prices above PLN 6 thousand on the secondary market were recorded only in Siewierz. In as many as 15 municipalities, the price of 1 sqm was below the average for GZM. Among the cities with poviats rights, the lowest prices of 1 sqm were recorded in: Świętochłowice, Ruda Śląska and Bytom, where the price per 1 sqm was lowest in GZM and amounted to PLN 3,462 (over twice half as much as in Katowice, 4,175 in difference).

OFFER PRICES 1 SQM FOR FLATS - Q1 PRIMARY MARKET



SECONDARY MARKET



AVERAGE FLAT PRICE	PRIMARY MARKET	SECONDARY MARKET
	PLN 5,486 per sqm	PLN 4,767 per sqm
AVERAGE FLOOR SPACE	59.7 sqm	56.7 sqm



Source: an analysis prepared by the team of the Metropolis Social and Economic Observatory.

Drones in the service of Metropolis environmental protection

In six cities of the Metropolis GZM, demonstrations were held to show the practical aspects of using drones to perform services of natural environment protection for the benefit of local government units (JST).

At the beginning of each year, each of the member municipalities of the Metropolis GZM was asked to assess the attractiveness of over 50 services as part of which drones could help perform their tasks more effectively. The results were unambiguous – firstly, the need use drones to protect the environment was clearly demonstrated, and secondly, the cities confirmed their readiness to use the technology.

The additional qualitative research commissioned by the GZM (performed in the form of in-depth interviews) allowed to identify very specific

information needs of the representatives of the environmental protection departments. Combining this information (the services attractiveness evaluation, specific information needs, the state of capability of the existing technologies) enabled to prepare five diverse demonstrations tailored to the needs of individual cities.

Each of the demonstrations took place in an isolated area, respecting the security and data processing requirements. A measurable outcome of the demonstrations was not only to deliver the documentation, but also to develop a guide for the cities that would identify and describe the most attractive – from the local governments' perspectives – ways to use drones to protect the environment, and provide knowledge on how to implement the solutions.



GZM MUNICIPALITY	INFORMATION NEED SATISFIED WITH A DRONE SERVICE (DEMONSTRATION OF POSSIBILITIES)
Bytom and Radzionków (cities' border)	monitoring of mine slag heaps in terms of public safety, compliance with demolition permits and operating authorisations, fire safety
Mysłowice	monitoring of floodbanks, drainage ditches, drainage systems, and floodland
Sławków	identification of biologically active area, according to the records of local development plans
Łaziska Górne	identification of biologically active area, according to the records of local development plans
Rudziniec	discovering illegal discharge of waste water into the drainage ditches, streams, rivers, and lakes, as well as localisation of waste water inlets in terms of illegal drains and water supply pipes

Source: own elaboration

Metropolis GZM joined the international initiative of "Covenant of Mayors"

The Covenant of Mayors aims at accelerating decarbonisation, strengthening the potential of adapting to the climate change and providing residents with access to a stable, sustainable and cost-efficient energy. Signatory cities undertake to support the process of implementing the EU objective of reducing greenhouse gas emissions by 40% by 2030 and adopting a common approach to reducing the impact on the environment and adjusting to the climate change.

Source: own elaboration



Covenant of Mayors for Energy and Climate was established in 2008 in Europe. It is the first initiative of this type, related to energy and climate change which turned out to be a great expectations-exceeding success, achieved in a short time. Currently, there are 10,648 signatories, 228 coordinators and 215 supporting institutions from 61 countries.

Metropolis cities in the attractiveness ranking

The Metropolis cities were ranked among the top cities in a few rankings on the quality of life.

RANKING NAME	ASSESSMENT CRITERIA	METROPOLIS CITY	RANK
Polish cities with the best urban planning, TuWartoMieszkać.pl	Percentage of city area covered by local spatial development plans.	Chorzów Ruda Śląska Siemianowice Śląskie	1
The ranking includes 66 largest Polish cities (the so-called cities with poviat rights) which – according to GUS data (2019) – takes into account the percentage of the cities that is covered by local spatial development plans.		Piekary Śląskie	4
		Gliwice	5
		Świętochłowice	6
		Dąbrowa Górnicza	20
		Sosnowiec	22
		Bytom	24
		Tychy	29
		Mysłowice	33
	Zabrze	34	
	Katowice	36	
Newsweek weekly ranking of 89 Polish cities.	Labour market, earnings, safety, healthcare quality level, air quality – the assessment of the quality of life in the city.	Katowice among the cities of more than 100 thousand residents	6
	Labour market (city with the lowest unemployment rate)	Katowice	1
	Healthcare level	Katowice	2

Source: own elaboration based on:

- "Najlepiej zaplanowane polskie miasta" ["Polish cities with best urban planning"],
- "Katowice na 6. miejscu w Polsce pod względem oceny jakości życia." ["Katowice ranks 6th in Poland in terms of quality of life assessment."]



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