
warehouses and ESG

sustainability in the logistics industry

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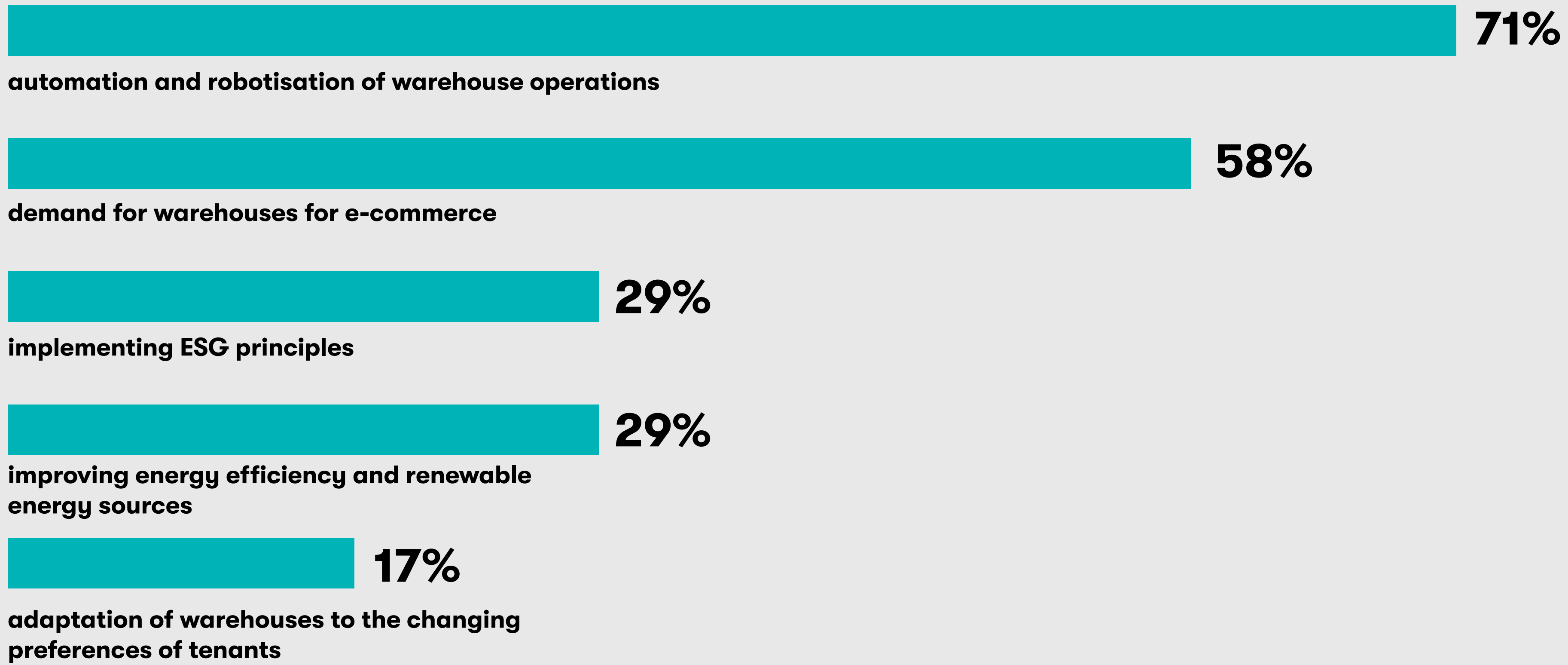


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which trends do you think have the most impact on the warehousing market today?



advantages of introducing ESG solutions



long-term savings



building brand credibility



more loyal customers



new funding opportunities



good reputation



more loyal customers



new and more sustainable partnerships



attracting new investors



positive impact on recruitment of new employees



improving employee productivity and satisfaction



an opportunity to re-examine operation the previous strategy of operation

motivations of polsj companies to implement sustainable development activities

source: CBRE, Organizacja ESG. Czy jesteśmy w Polsce gotowi na strategię zrównoważonego rozwoju?
[ESG Organisation. Is Poland ready for sustainable development strategies?], 2023.



in order to foster the company's image



ESG areas are part of our organisation's business strategy



we want to be compliant with EU regulations and objectives



ESG activities are driven by our values



employee wellbeing affects employee loyalty and talent acquisition



our customers expect it



we want to get ahead of the competition in this way



we want to reduce risks in our business model



sustainability supports the profitability of our business



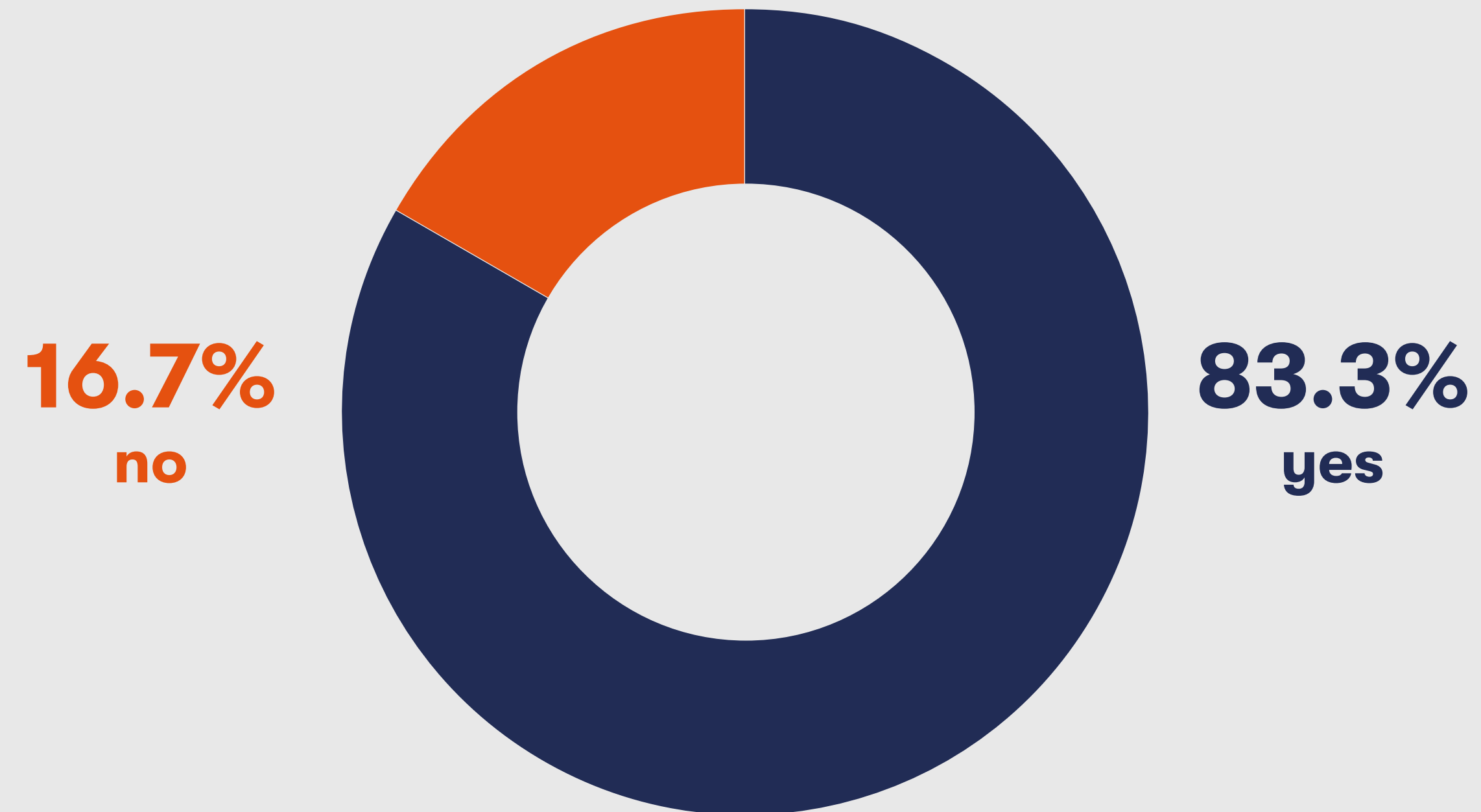
these actions are required of us by the headquarters

● I agree ● I strongly agree

in your opinion, do environmentally sustainable warehouses tend to perform better financially?

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representatives of companies from the logistics industry



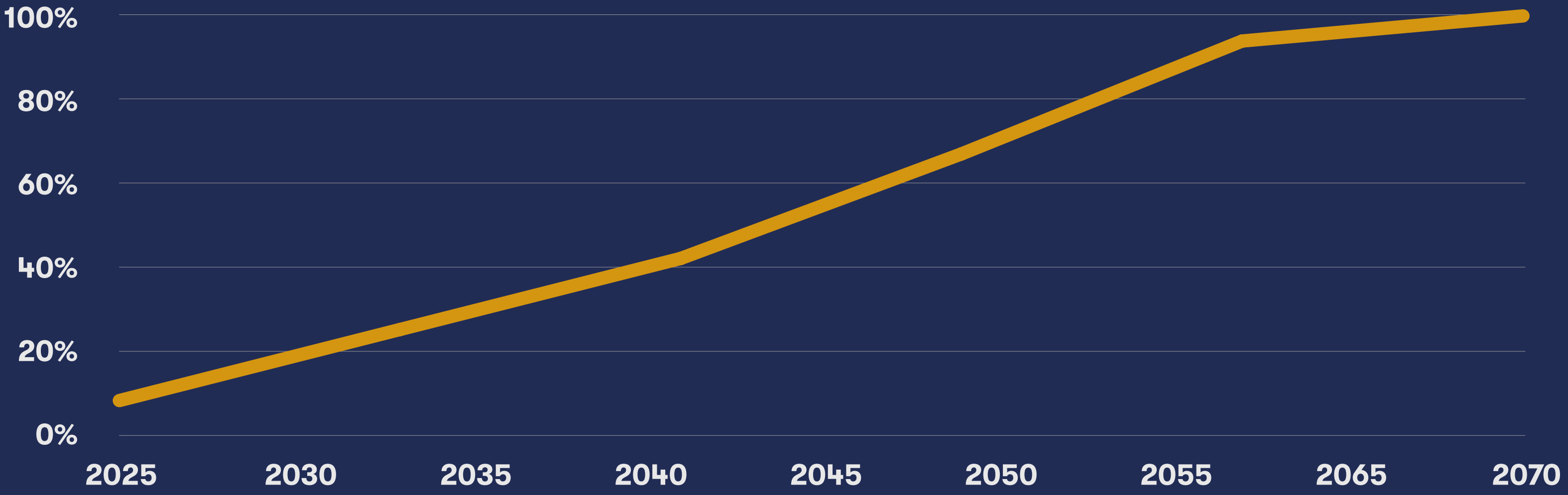
when does your company plan to achieve net zero emissions?

warehousing and transportation industry

does your firm have a net-zero goal?



if so, when?



source: MIT, A Closer Look at Net-Zero Goals, <https://tiny.pl/dxcd2> (access date: 27/02/2024).

pathway to zero emissions



*Certificates allowing to offset companies' residual emissions, which they are unable to reduce. Their acquisition is tantamount to financing activities that reduce CO₂ emissions, equivalent to those generated by the organisation, in another location.

indicators used to measure progress towards sustainable development goals

prepared by ThinkCo based on: Sievo, How to measure sustainable performance: KPIs and Metrics, <https://tinyurl.com/42unztvj>; Panattoni, European Logistics & Supply Chain Sustainability Report, 2023; Prabodhika A.P.K. et al., Measuring Sustainability Performance of Logistics Service Providers using AHP, 2021; PwC, How to measure your ESG performance, <https://tinyurl.com/3f64s3zb> (date of access: March 9, 2024).

indicators used

E	carbon footprint	reduction of plastic in metric tons	number of suppliers audited for compliance in terms of environmental standards
	energy consumption in kWh	noise pollution in decibels	amount of waste sent for recycling
	water consumption in metric tons	compliance with chemical safety requirements	fuel efficiency
	waste reduction in cubic metres	compliance with environmental standards	number of kilometres driven

indicators used

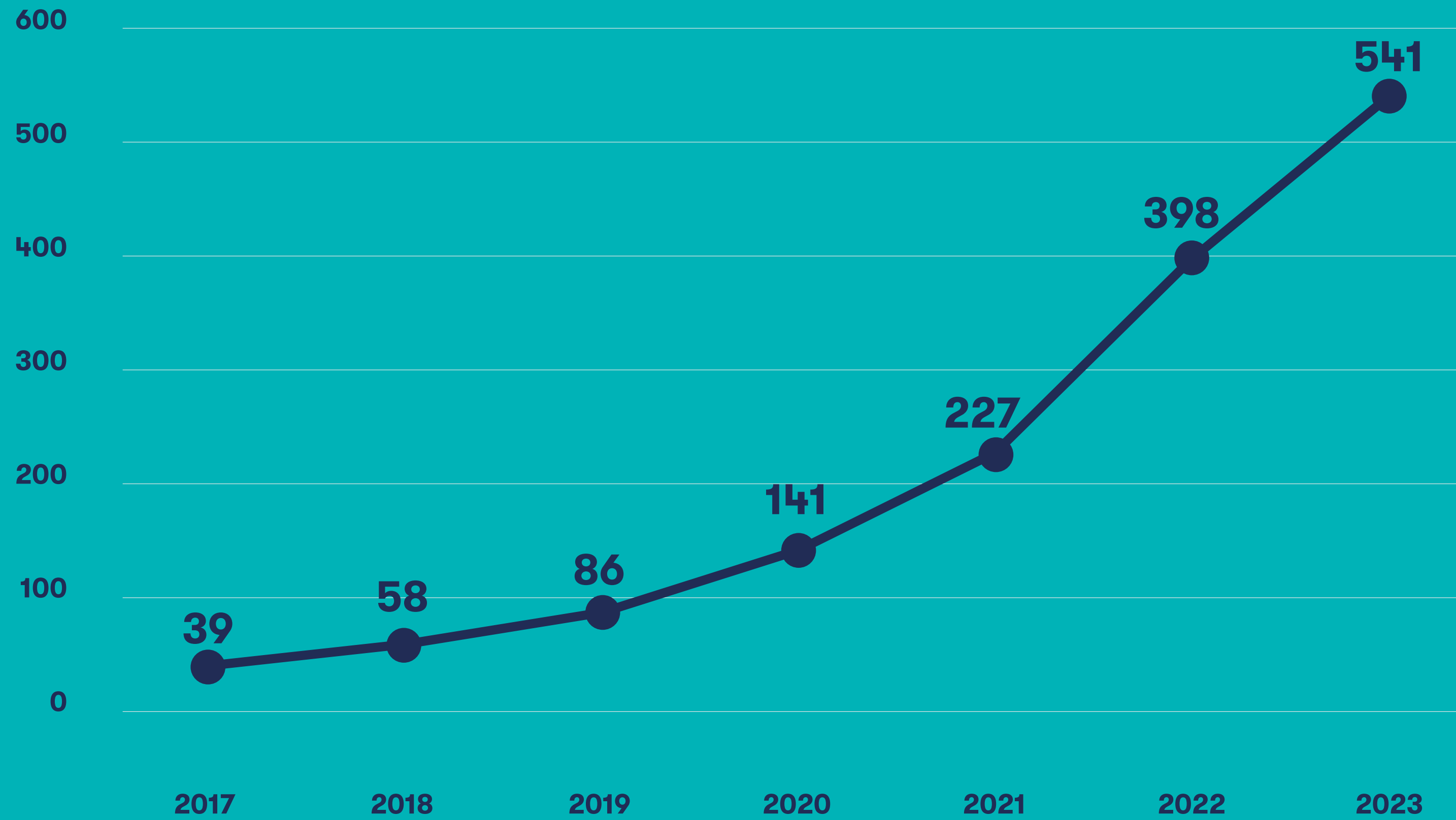
S	number of corruption cases	hiring representatives of minorities	number of work-related accidents and illness
	hiring women	investments in community development programs	working conditions and respecting human rights

indicators used

G	management board structure and operations	anti-corruption measures	ethics of the business model
	transparency and reporting	corporate behaviour	management remuneration

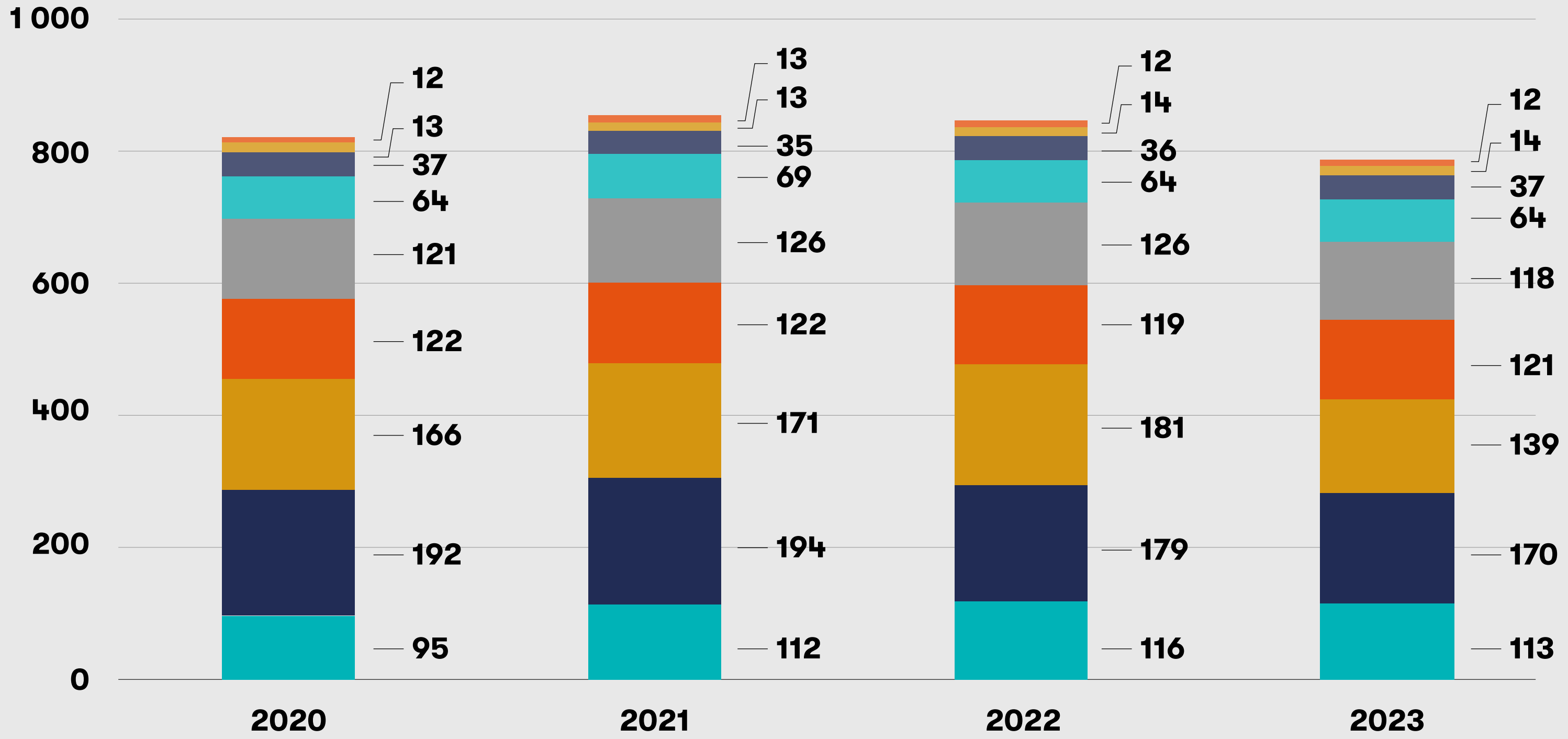
number of certifies logistics facilities in poland

source: own compilation based on Polish Green Building Council's (PLGBC) data



greenhouse gas emissions in the EU

in millions of tons



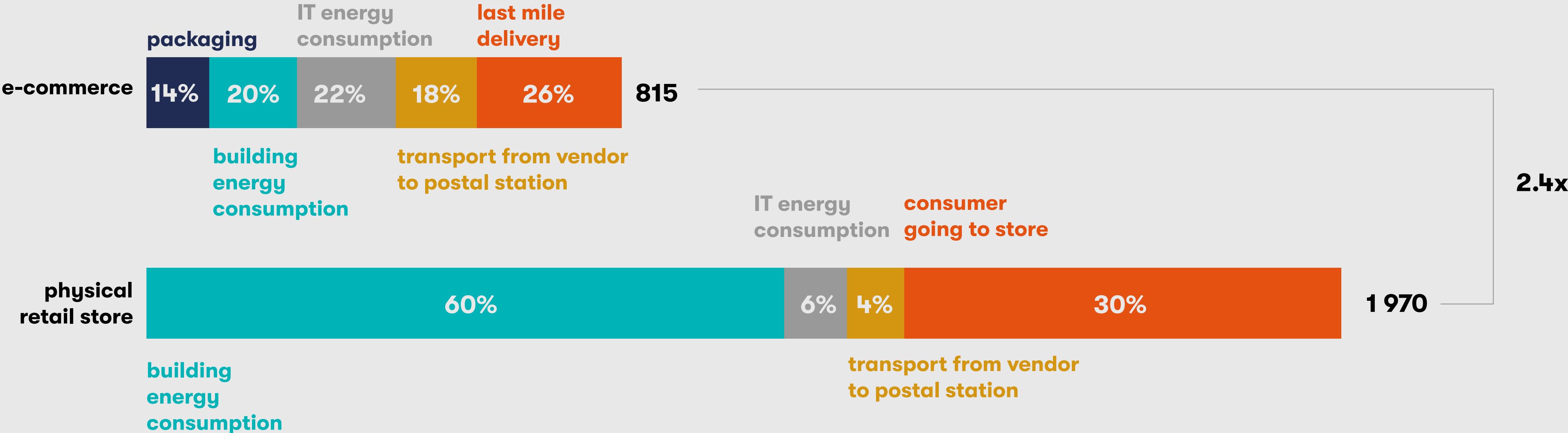
- transportation and storage
- manufacturing
- electricity, gas, steam and air conditioning supply
- agriculture, forestry and fishing
- total activities by households
- services
- water supply, sewerage, waste management
- mining and quarrying
- construction

source: Eurostat, EU economy greenhouse gas emissions: -7.1% in Q3 2023, link: <https://tiny.pl/dqfq3> (access date: 19/02/2024).

average CO₂ emissions per product purchased through various sales channels

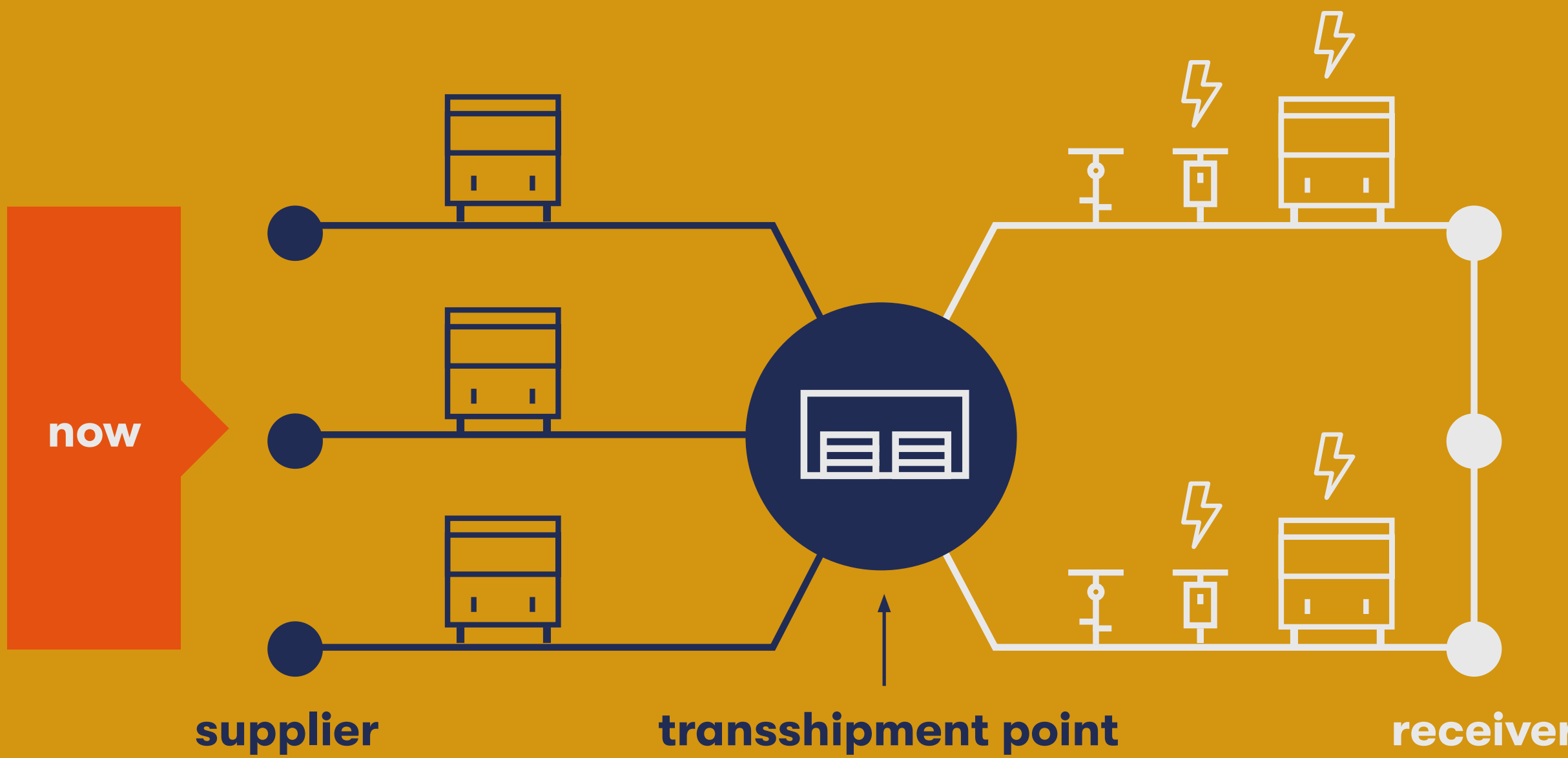
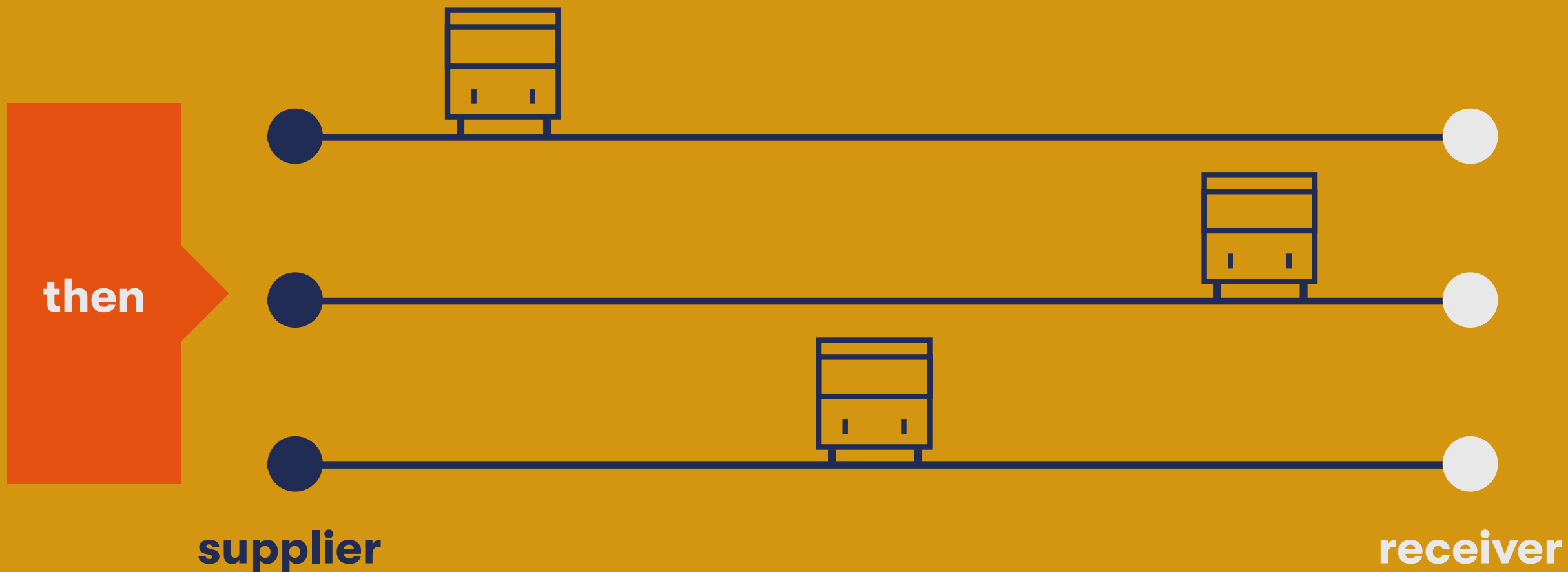


for an average product in grams



source: Oliver Wyman, Is e-commerce good for Europe? Economic and environmental impact study, link: <http://bitly.pl/pqFgW> (access date: 18/03/2024)

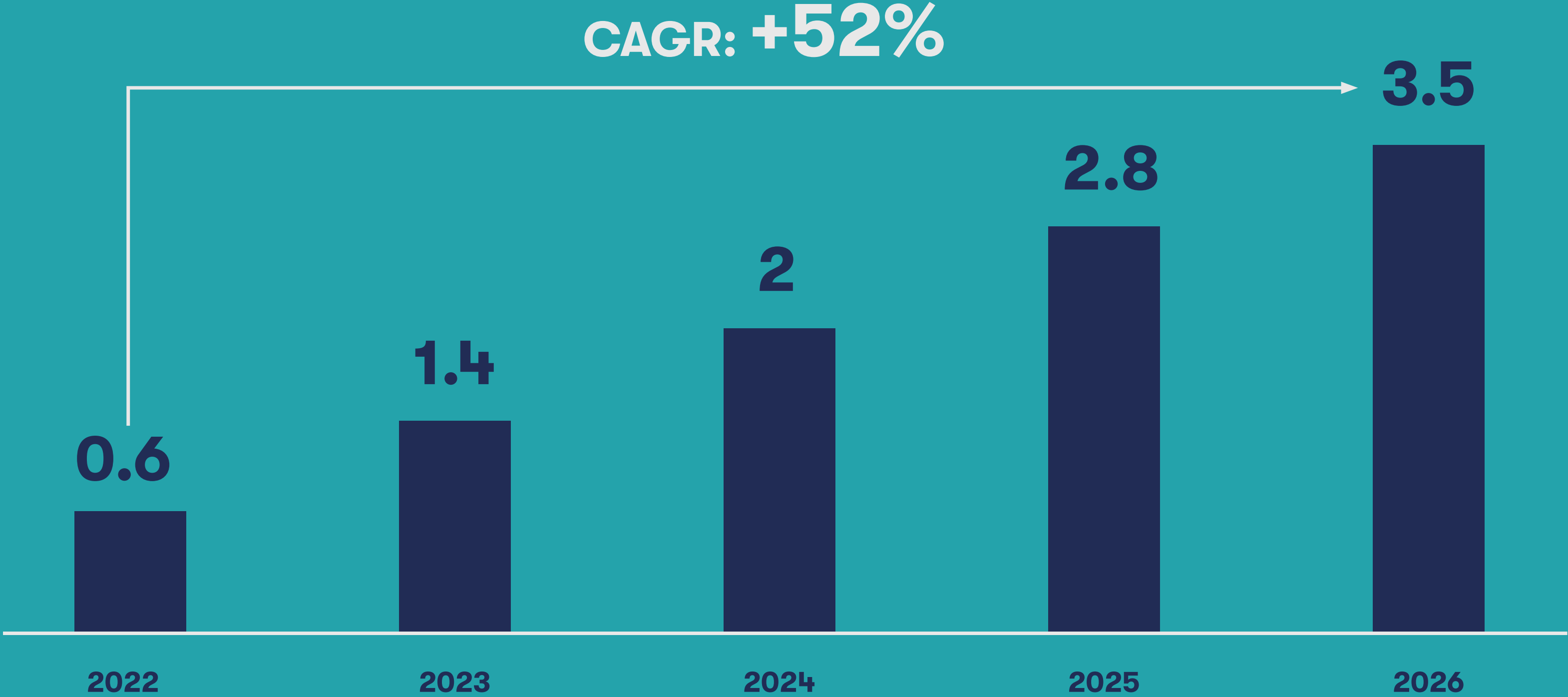
goods supply chain now and then



source: Polityka Insight, Transformacja ostatniej mili, zeroemisyjność w logistyce miejskiej
[Transforming the last mile, zero emissions in urban logistics], 2022.

demand for last mile infrastructure

millions sq. m.



source: Bank Pekao, Transport i logistyka, pomiędzy pandemią a zieloną transformacją. Ocena kondycji i wyzwań sektora TSL [Transportation and logistics, between the pandemic and the green transformation. Assessment of the condition and challenges of the transport, shipping and logistics sector], 2023.

types of urban warehouses



consolidation

surface:
3-20 thousand sq. m.

- located on the outskirts of the city
- require good access for trucks
- although goods are there for short periods of time, they must have sufficient space to store them



peripheral

surface:
5-20 thousand sq. m.

- located mainly within existing industrial areas
- sorting packages and loading them into delivery vehicles
- in some cases, they serve a warehousing function for products frequently ordered in a particular region



downtown

surface:
2-5 thousand sq. m.

- great location is more important than functional capabilities
- little storage space, fast movement of goods and parcels
- due to limited space, multi-level solutions are often used



transshipment points

surface:
500-1.5 thousand sq. m.

- located very close to final destination
- breakdown of shipments into smaller individual deliveries made using cargo bikes or on foot



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