

# Munich Climate leader

City data report 2021

## OVERVIEW

Munich is setting standards for renewable energy adoption, and building its reputation as a leading European center for technology and innovation.

### DIGITALIZATION READINESS

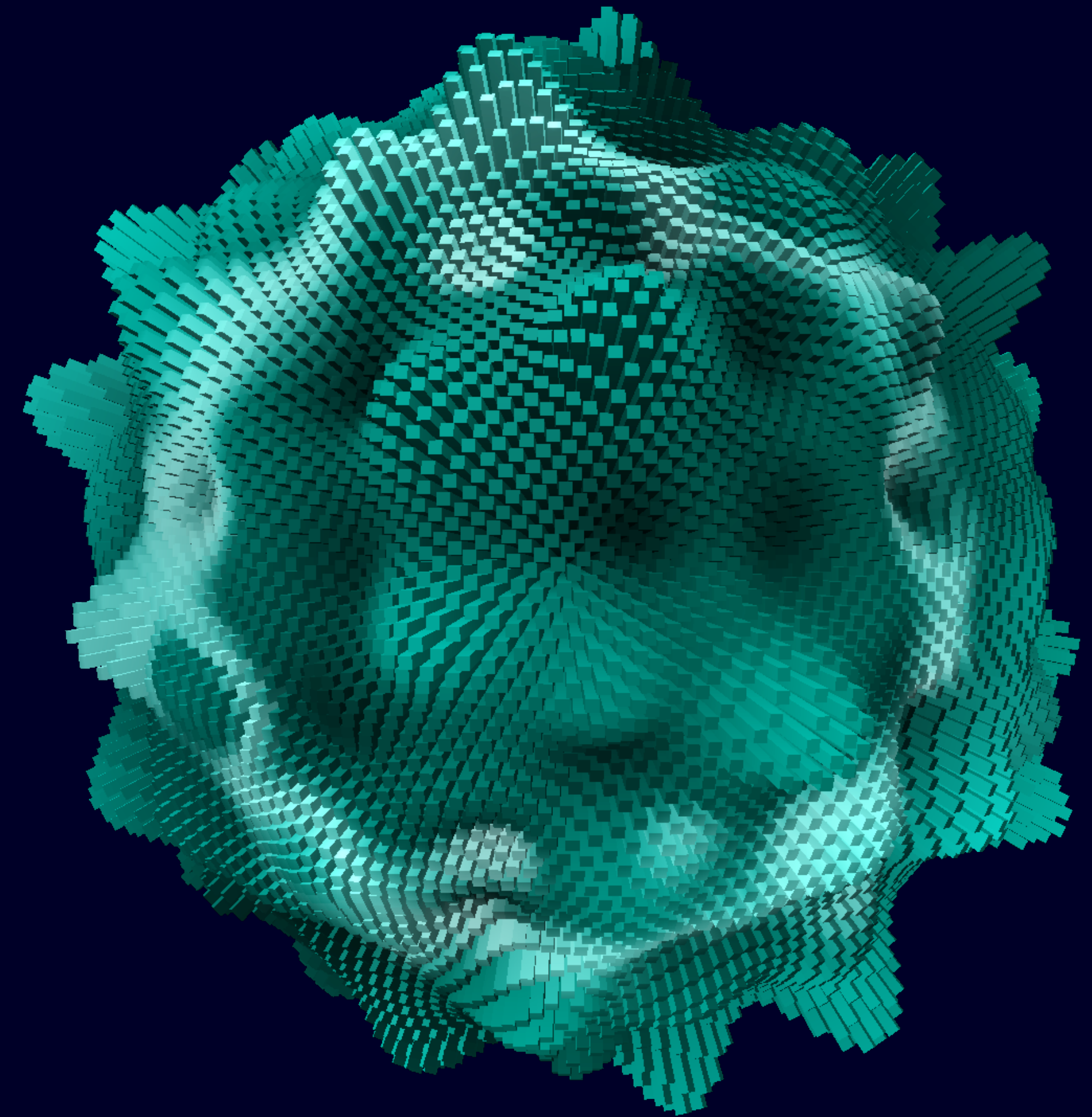
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Munich is on the digitalization fast track, with pioneering solutions that address urban challenges for districts, roads, and public transport.

### DIGITALIZATION POTENTIAL

2/10

Munich's technology credentials have made it an ideal European test-bed for sustainability solutions and smart city infrastructure.












SUSTAINABILITY

# Green city with green energy

The city has already made strong progress toward its objective. Regional energy and infrastructure company **Stadtwerke München** currently generates enough electricity from renewable sources to power all of Munich’s households, and its subway and tram systems. The objective is to supply the entire municipality with green energy by 2025, and provide heating on a net-zero basis using geothermal energy. Stadtwerke München is also expanding the availability of district-wide cooling using groundwater and city streams, and transitioning all buses to electric vehicles by 2030.

## Renewable energy sources powering Munich

	14 hydropower plants
	2 wind power plants
	6 geothermal power plants
	1 biogas plant
	1 biomass power plant
	33 photovoltaic plants and solar thermal systems
	District cooling from ground water/underground steams

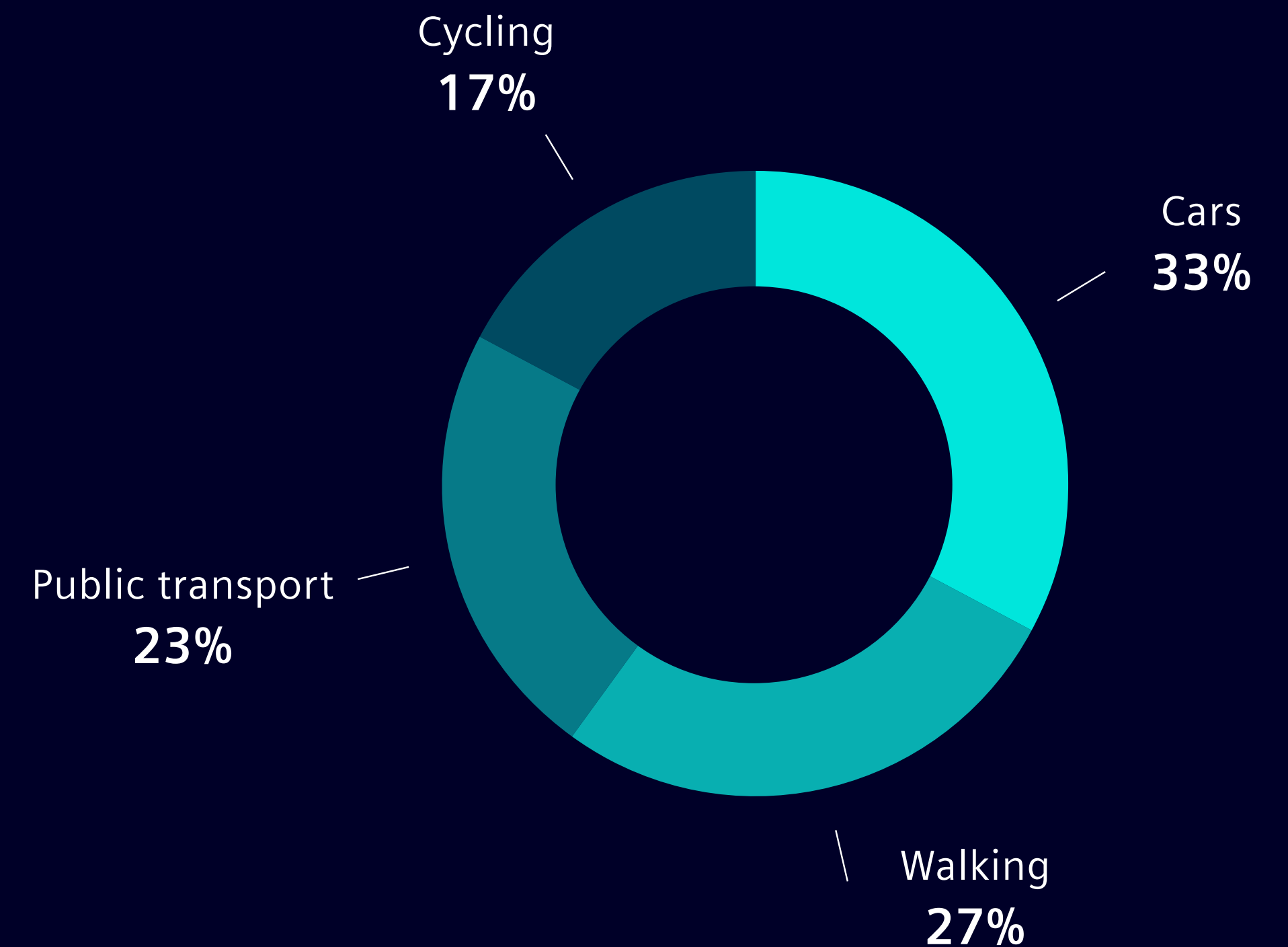
Source: **Stadtwerke München**

## MOBILITY

## Expanding public transport

The Munich metro system was part of the construction plan for the 1972 Olympic games, and has since become the most popular mode of public transport. Currently carrying over one million passengers per day, the city is working to increase metro ridership while improving its energy and cost efficiency. Siemens provided an initial delivery of 21 **six-car trains** in 2016 to replace existing rolling stock, with a further 46 trains to be delivered over the coming years. The bespoke vehicles offer a high level of comfort and safety, and won a Red Dot Award for design concept.

Transport share in Munich



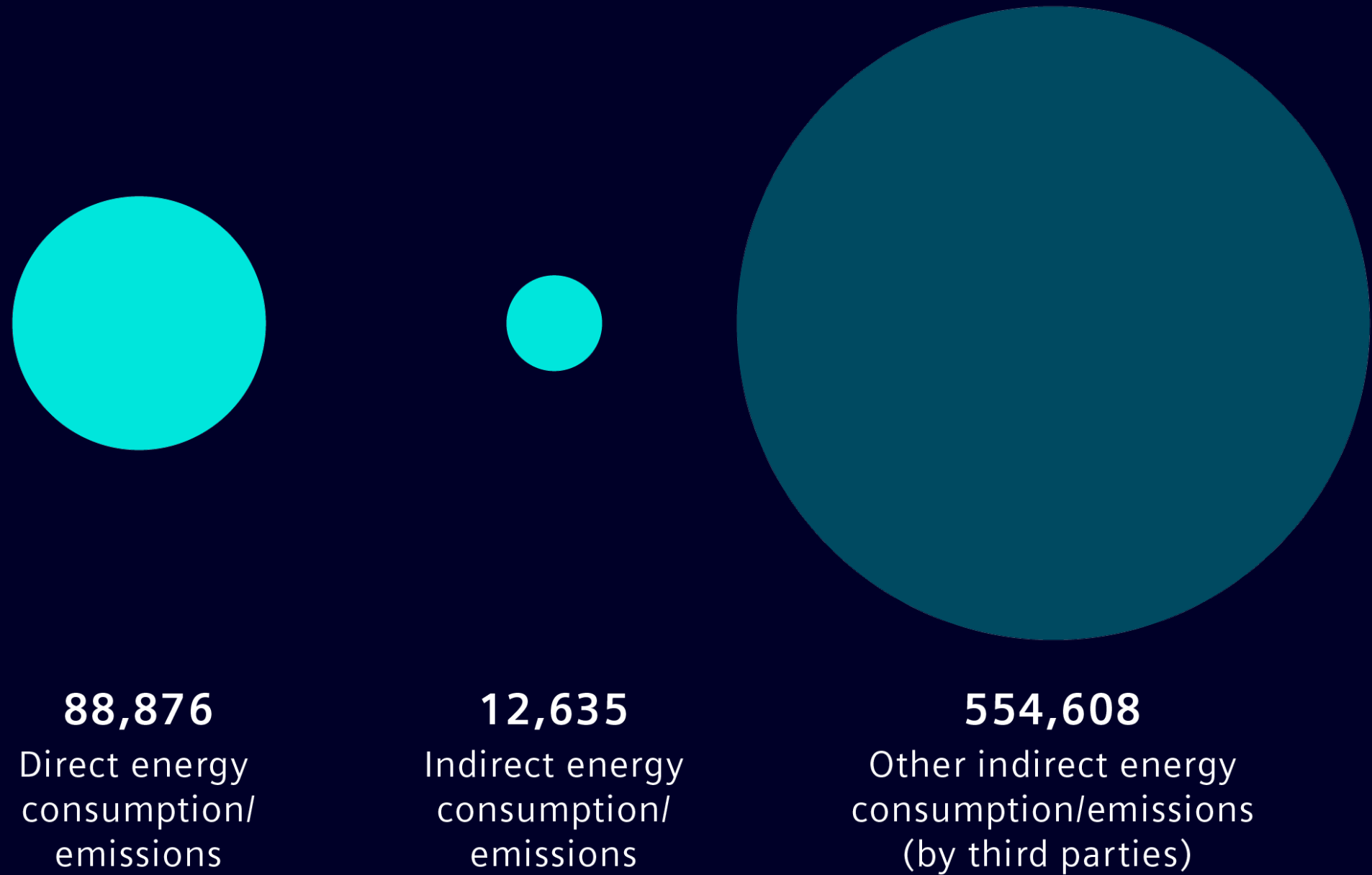
Source: **Civitas**

OPPORTUNITY

# Center for airport digitalization

Like most international airports, Munich is on a fast track to greater digitalization, and has launched a dedicated **innovation center** to generate ideas that enable its digital future. LabCampus is a collaboration between Siemens and a range of businesses, universities, and research institutes. Key areas of focus include improving the energy efficiency of buildings, and streamlining the baggage handling system. The **MindSphere** IoT platform supports digital services that help the airport to optimize efficiency and safety, and enhance the passenger experience.

Carbon emissions of Munich Airport, 2019



Source: **Munich Airport**



# THE ATLAS OF DIGITALIZATION



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