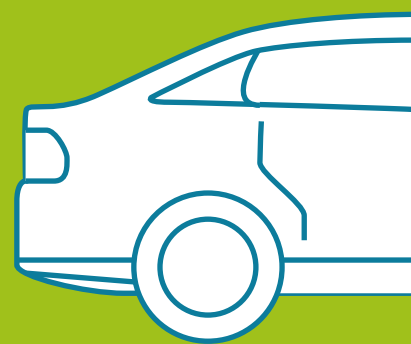
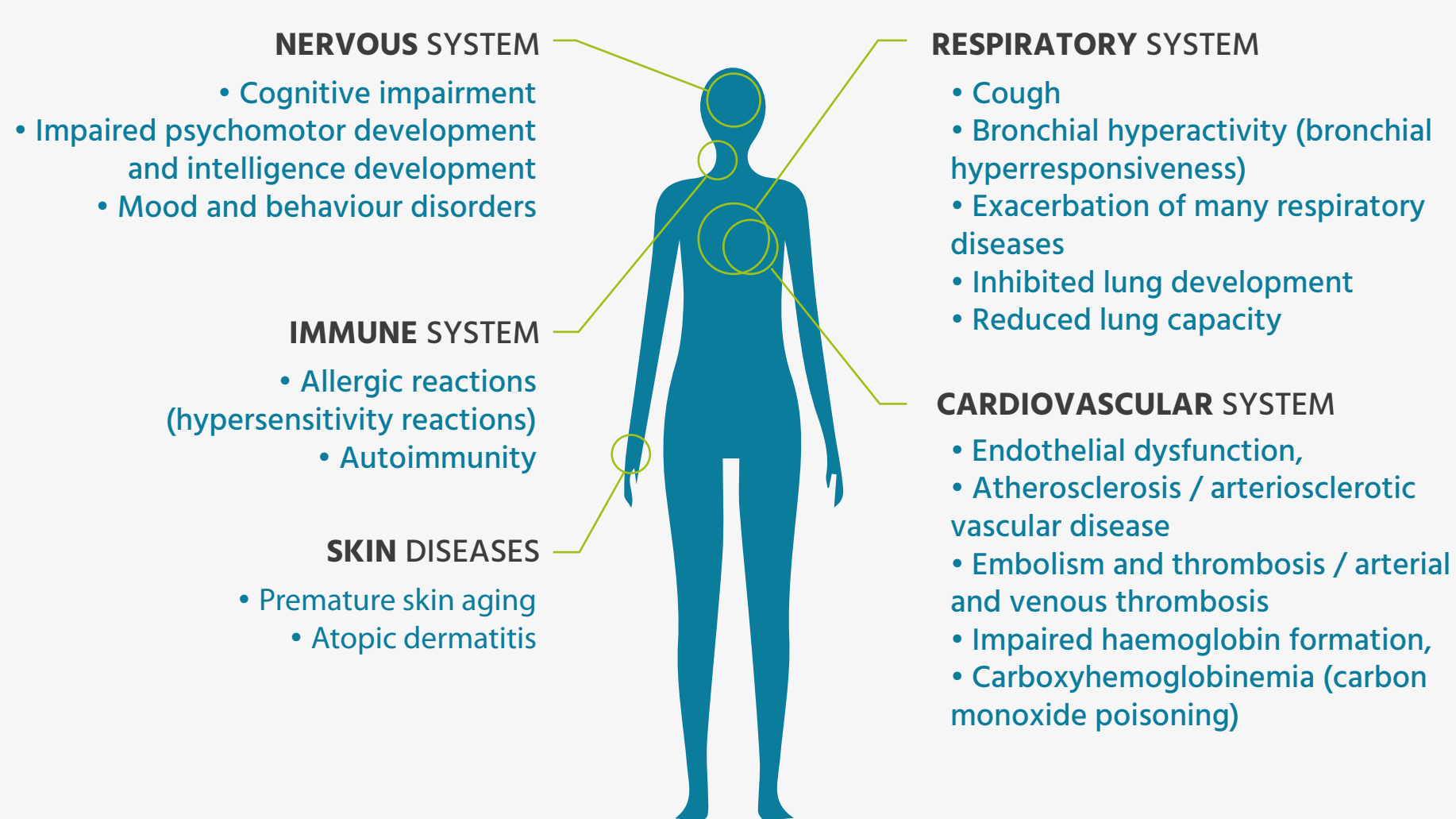


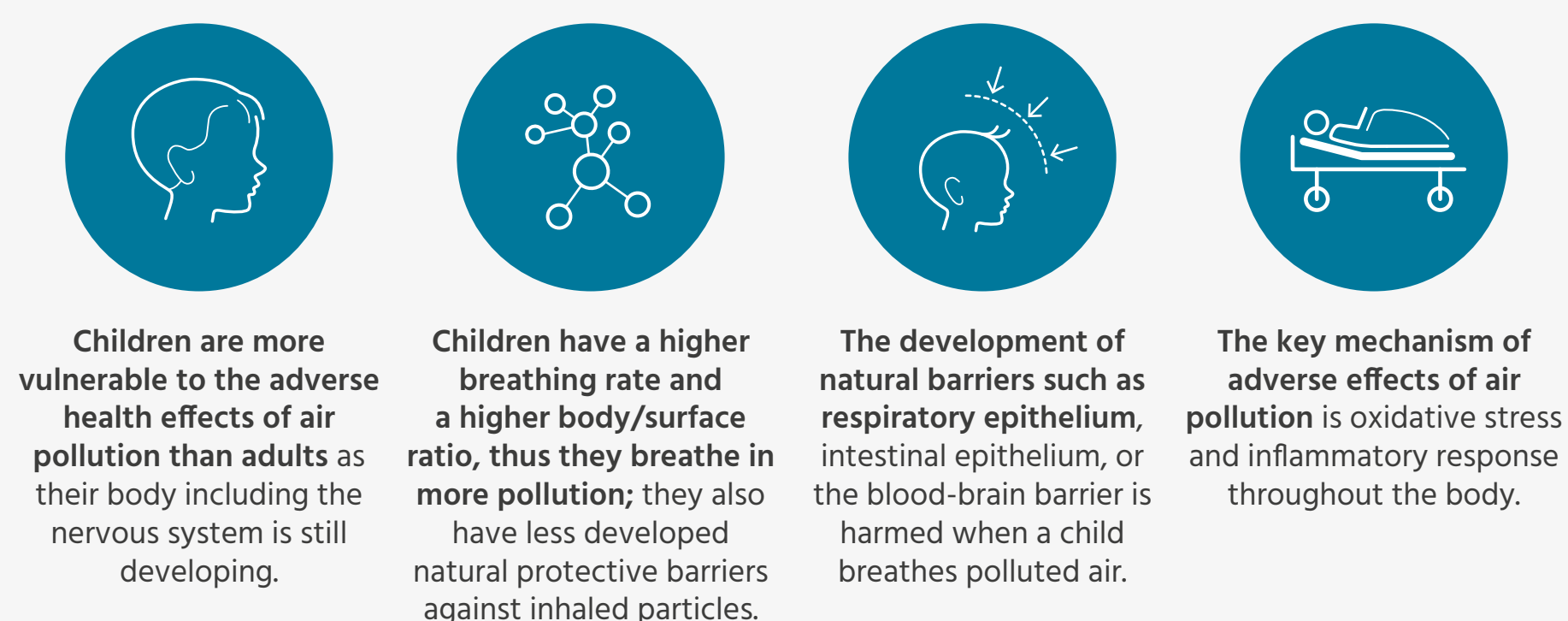
The impact of air pollution from transport on children's health and development



The impact on the human body



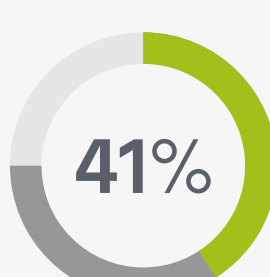
Why are air pollutants particularly harmful for children's health?



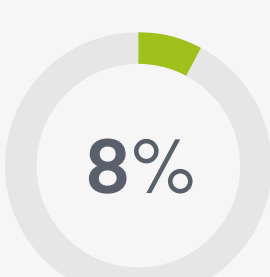
AIR POLLUTION FROM TRANSPORT

ROAD TRANSPORT IN POLAND IS RESPONSIBLE FOR:

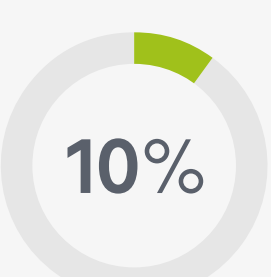
Around 41% of emissions of nitrogen oxides (NO_x), and in cities even for 75% of NO₂ emissions



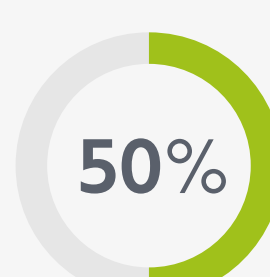
Approx. 10% of particulate matter emissions with a high content of so-called black carbon – up to 10 times more harmful to health than its other varieties



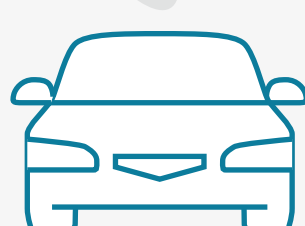
8% particulate matter PM₁₀, 11% PM_{2.5}



Up to 50% of pollution comes from the road surface abrasion of tires, brake pads and raising dust from the road surface



Photochemical smog (or tropospheric ozone, O₃) in large urban agglomerations on hot, dry and sunny days

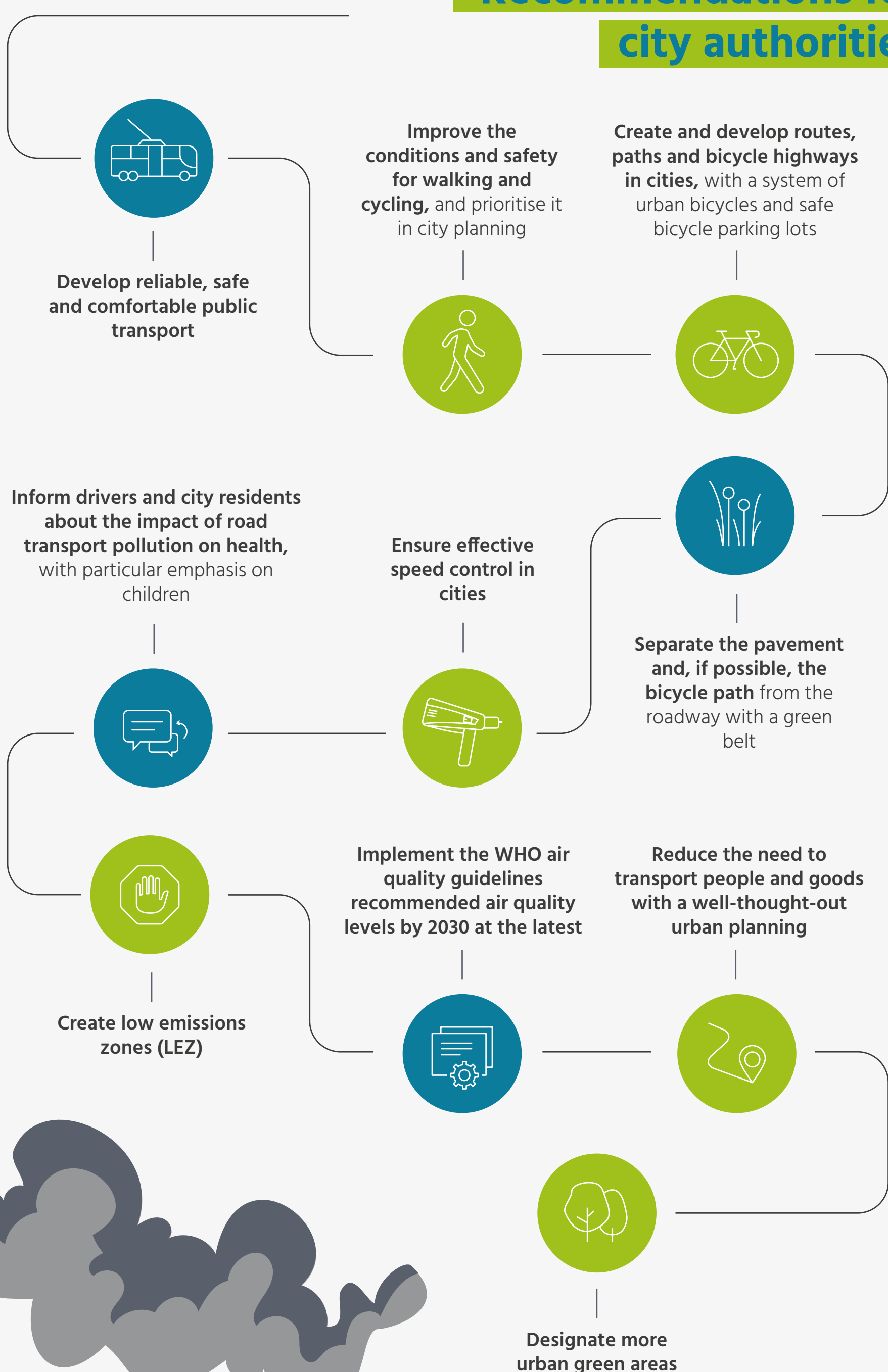


New WHO Global Air Quality Guidelines

BASED ON A COMPREHENSIVE REVIEW OF THE SCIENCE, WHO HAS PUT FORWARD THESE RECOMMENDATIONS FOR MAXIMUM CONCENTRATIONS OF AIR POLLUTANTS.

POLLUTANT	AVERAGING TIME	AQG LEVEL IN 2005	AQG LEVEL IN 2021
PM _{2.5} , µg/m ³	Annual	10	5
	24-hour	25	15
PM ₁₀ , µg/m ³	Annual	20	15
	24-hour	50	45
O ₃ , µg/m ³	Peak season	–	60
	8-hour	100	100
NO ₂ , µg/m ³	Annual	40	10
	24-hour	–	25
SO ₂ , µg/m ³	24-hour	20	40
CO, µg/m ³	24-hour	–	4

Recommendations for city authorities



source: "Impact of air pollution from transport on children's health and development"; HEAL, PKEOM 2021

infographic: Polska Grupa Infograficzna (infograficy.pl)



HEAL gratefully acknowledges the financial support of the European Union (EU) and the European Climate Foundation (ECF) for the production of this infographic. The responsibility for the content lies with the authors and the views expressed in this publication do not necessarily reflect the views of the EU institutions and funders. The European Climate, Infrastructure and Environment Executive Agency (CINEA) and the funders are not responsible for any use that may be made of the information contained in this publication.

HEAL EU transparency register number: 00723343929-96