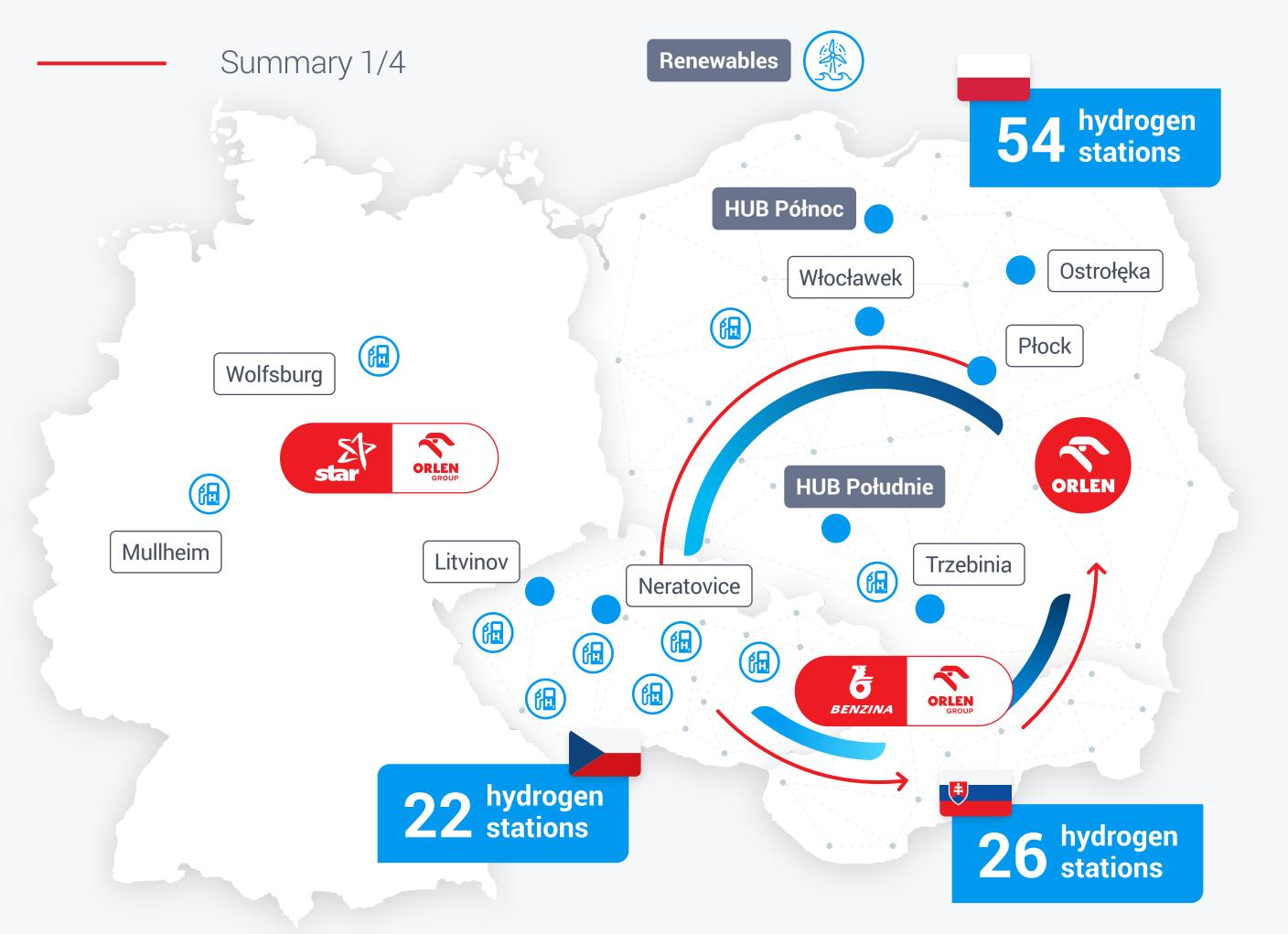
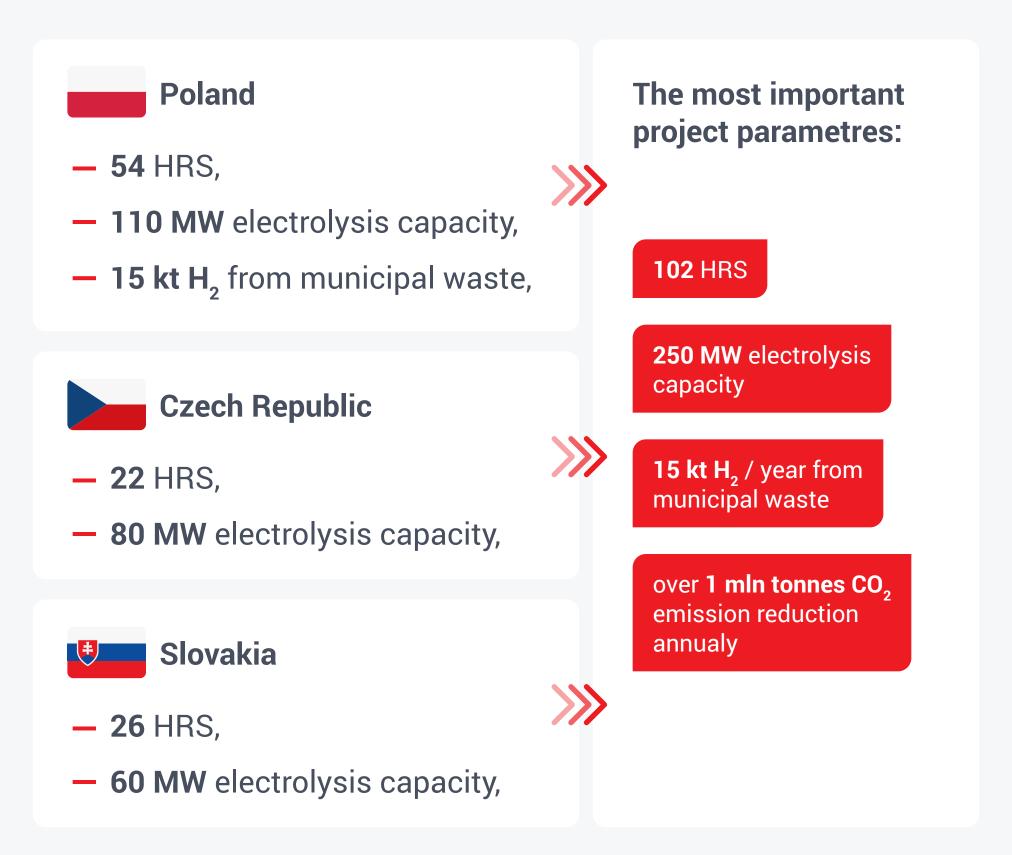






Hydrogen Eagle is a comprehensive infrastructure project implemented by ORLEN Group in the territories of Poland, **Czech Republic nad Slovakia**





"HYDROGEN EAGLE" project parametres in Poland

Summary 2/4

Diversified hydrogen sources:



Hydrogen generation from offshore RES - 100 MW



Hydrogen generation from municipal wastes - 15 kt /year



Hydrogen generation from onshore RES in a distribiuted system - local Hubs 10MW



Hydrogen generation from the existing hydrogen sources: Włocławek, Trzebinia, Płock

New end-uses directions:



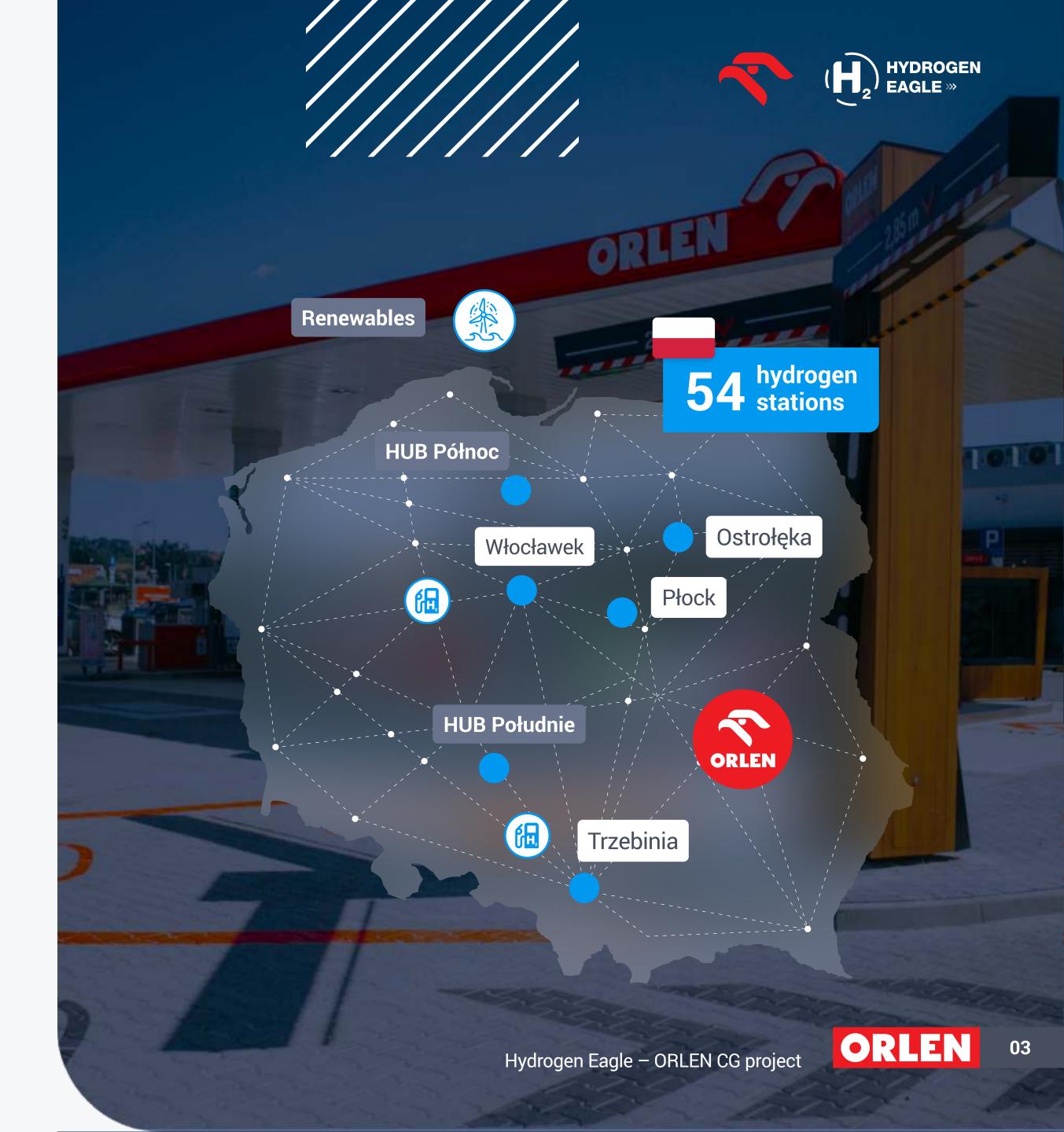
Public transport (road and railway) - 54 HRS



Industry and power applications (decarbonization)



European Hydrogen European Hydrog Backbone (EHB)



"HYDROGEN EAGLE" project parametres in Czech Republic

Summary 3/4

Diversified hydrogen sources:



Hydrogen generation from onshore RES – **26 MW** (PV in Litvínov) + 18 WM (PV in Spolana)



Hydrogen generation from the existing hydrogen sources: Litvínov POx, CCR, Steam Cracker



Hydrogen generation from municipal wastes – **36 MW** (Waste in Spolana)





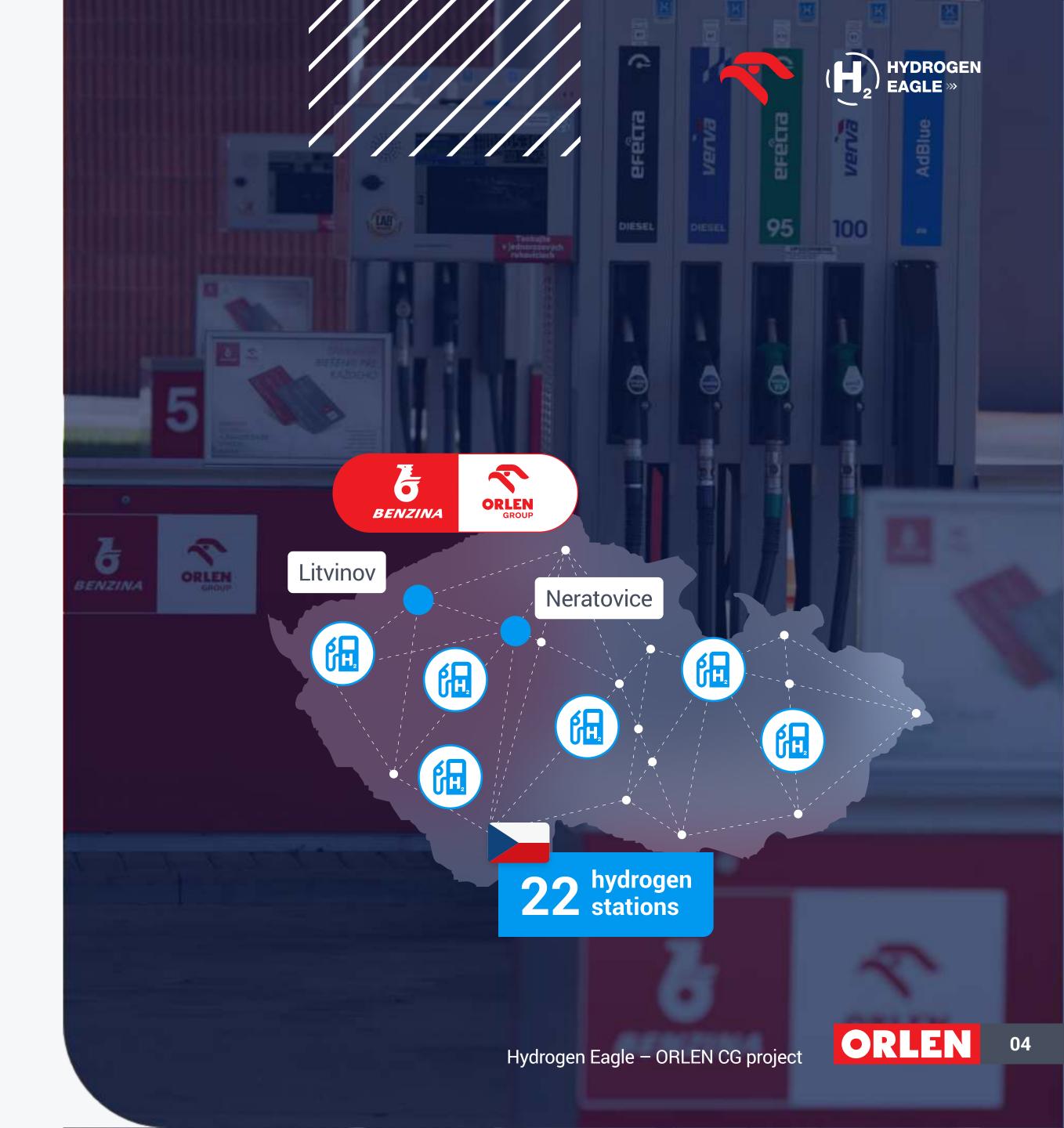
Public transport (road and railway) – 22 HRS



Industry and power applications (decarbonization)



European Hydrogen European Hydrog Backbone (EHB)



"HYDROGEN EAGLE" project parametres in Slovakia

S

Summary 4/4

Diversified hydrogen sources:



Hydrogen generation from onshore RES - **60 MW (PV)**

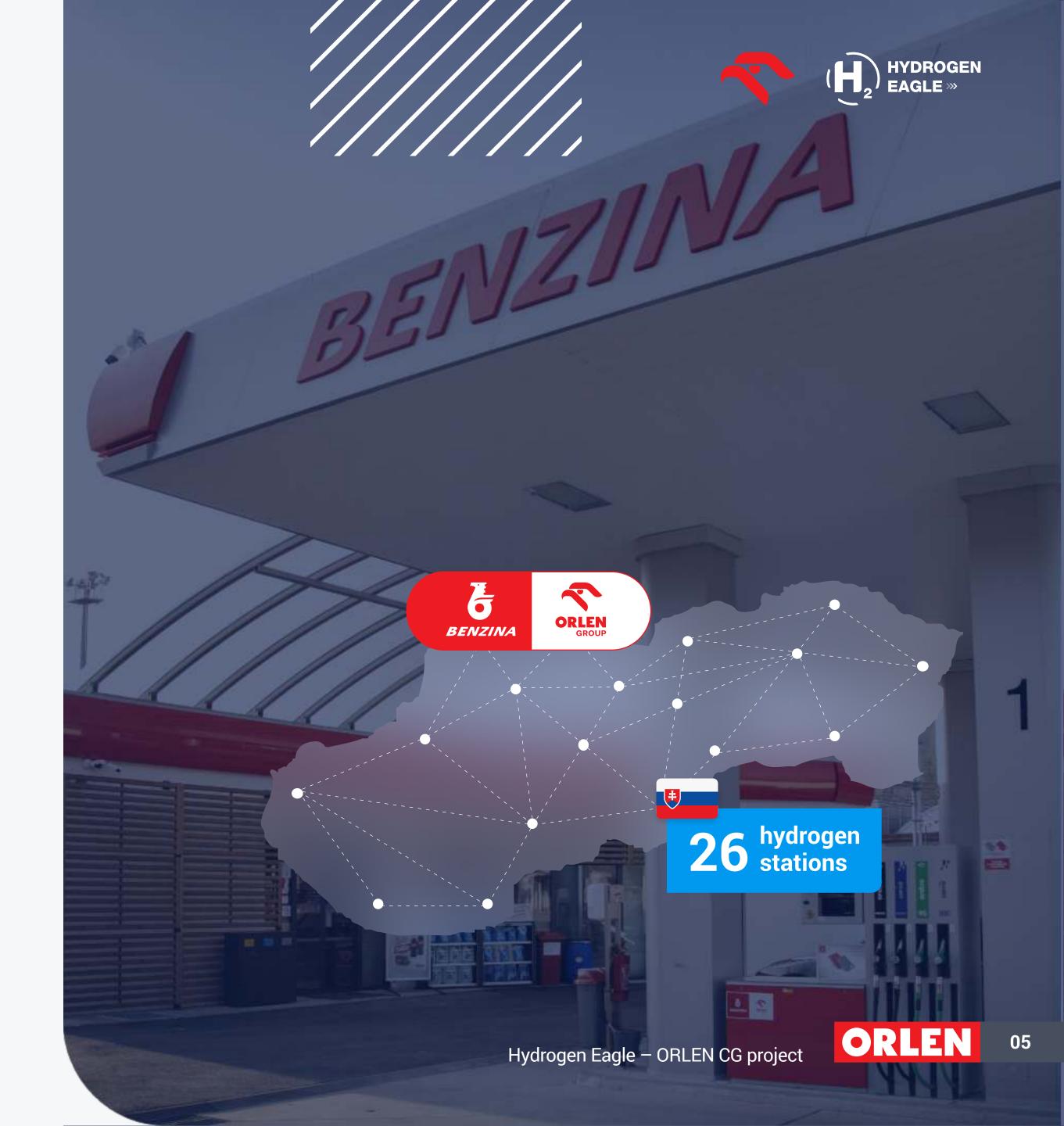
New end-uses directions:



Public transport (road and railway) – **26 HRS**



European Hydrogen Backbone (EHB)



Purpose

Hydrogen Eagle is a staged, comprehensive infrastructure project which aims to establish production, transport and distribution capacities for zero/low-emission hydrogen and to utilise it in the mobility sector and, potentially, for energy and industry applications, contributing to the development of a solid supply chain at the European market level.



CO₂ emission reduction from urban, heavy duty and railway transport



Shift from conventional fuels to low and zeroemission hydrogen



Low- and zero-emission hydrogen production on a large scale in CEE region using offshore RES, onshore RES and municipal waste



Set up a necessary infrastructure in CEE region



Enhancing Europe's competitiveness and advancing its climate neutrality goals based on environmentally sustainable solutions



Potential to become an important part of the European Hydrogen Backbone



Benefits

Strengthen of Union's Economy in CEE region:



Diversified
hydrogen
generation –
Energy security
of supply
improvement in
CEE region



Hydrogen Eagle will create over **5 000 new jobs**



Solving the municipal waste management problem
- Circular Economy solution



After 2030 logarithmic scalability of hydrogen generation in EU



