

Sustainable urban mobility

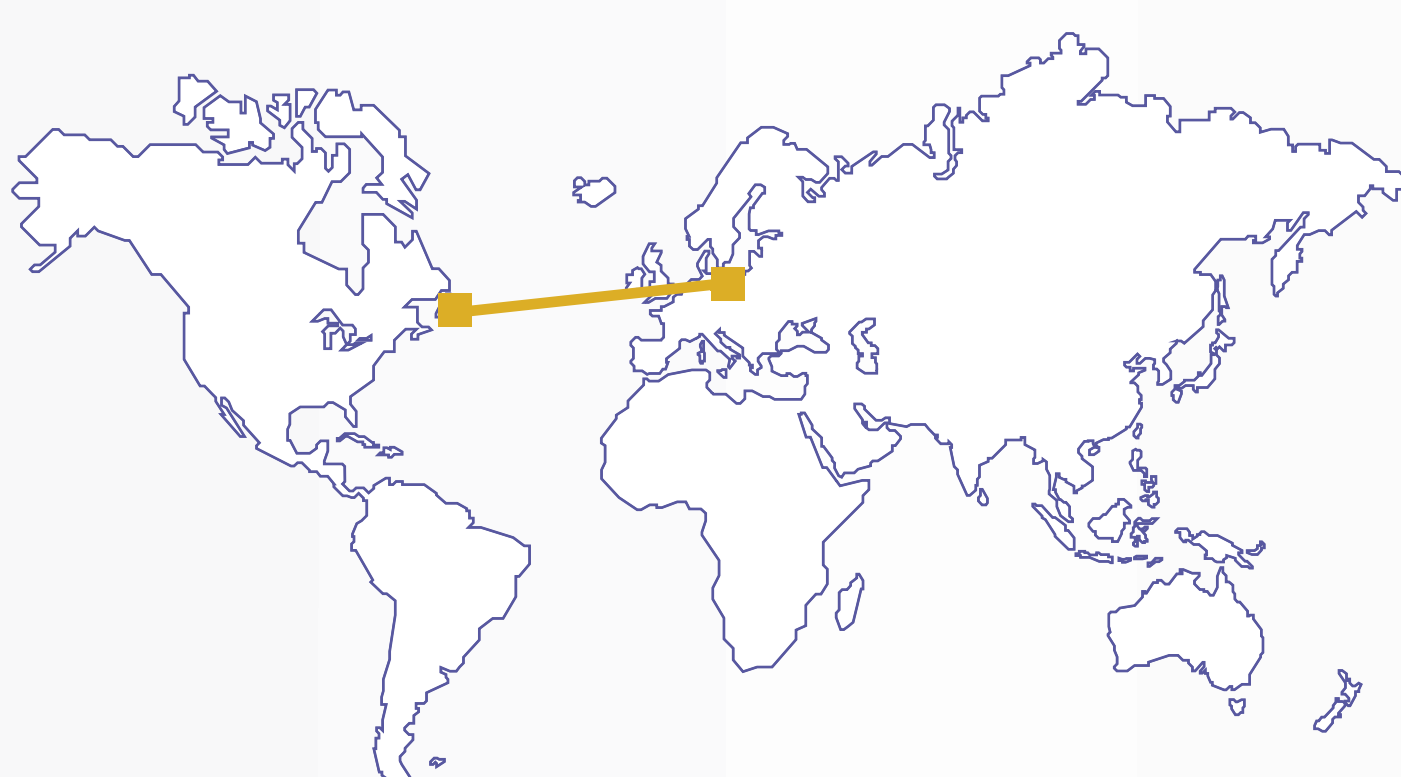
For the first time in history, more than half of the world's 7 billion people live in cities.

As urban populations soar, more cities are turning to public mobility solutions such as rail to efficiently and sustainably support more commuters.

For every person who moved to a city between 2000 and 2010, urban travel increased by

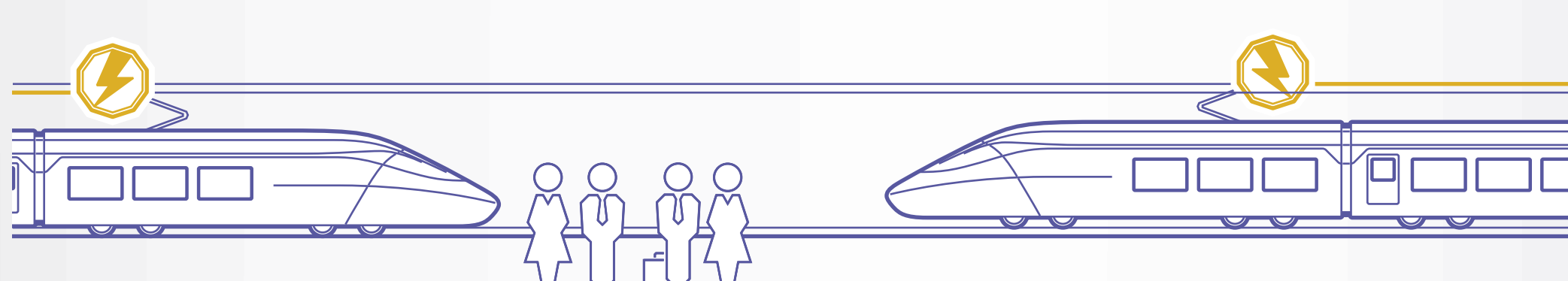
5,000 km

a year – about the distance between Berlin and Canada.



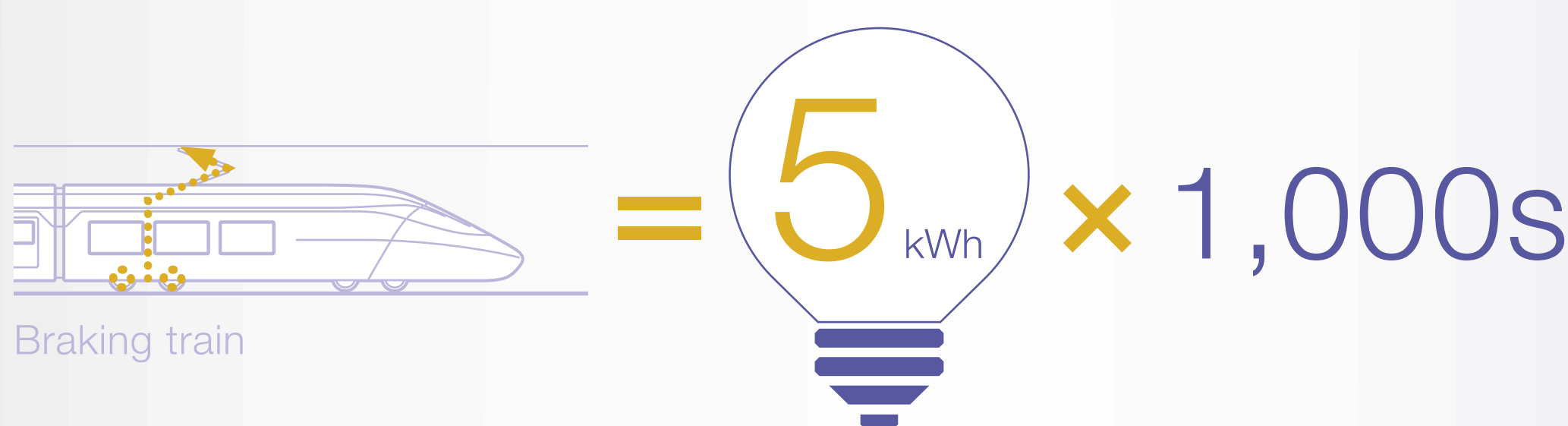
50%

of a train's total energy consumption can be recovered with regenerative braking and recuperation.



Each time a train brakes, its kinetic energy is converted into electricity and returned to the train's traction line.

This happens thousands of times a year, and generates a high amount of energy that often goes to waste.



But this energy can be recycled with a wayside energy storage and recuperation system and used to power other trains later on.



5 to 20%

Energy storage and recuperation systems can reduce the energy use of a rail traction system by more than 20%¹, making efficient urban transportation even more efficient.



¹ Depending on the time of day and train frequency.

Visit www.abb.com/railway to learn about ABB's full range of reliable, energy efficient solutions for the rail sector including the ENVILINE™ ERS (Energy Recuperation System) and other innovative components and sub-systems used in urban, intercity and high-speed networks for both infrastructure and rolling stock.