

Industry 4.0 and the challenges of digitalization

Game-changing technologies to transform the elevator industry

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# thyssenkrupp Elevator

150 countries

900 locations

+24,000 service technicians

+50,000 employees

1.2 million units under maintenance

€7.5 billion in sales





# Our world is changing

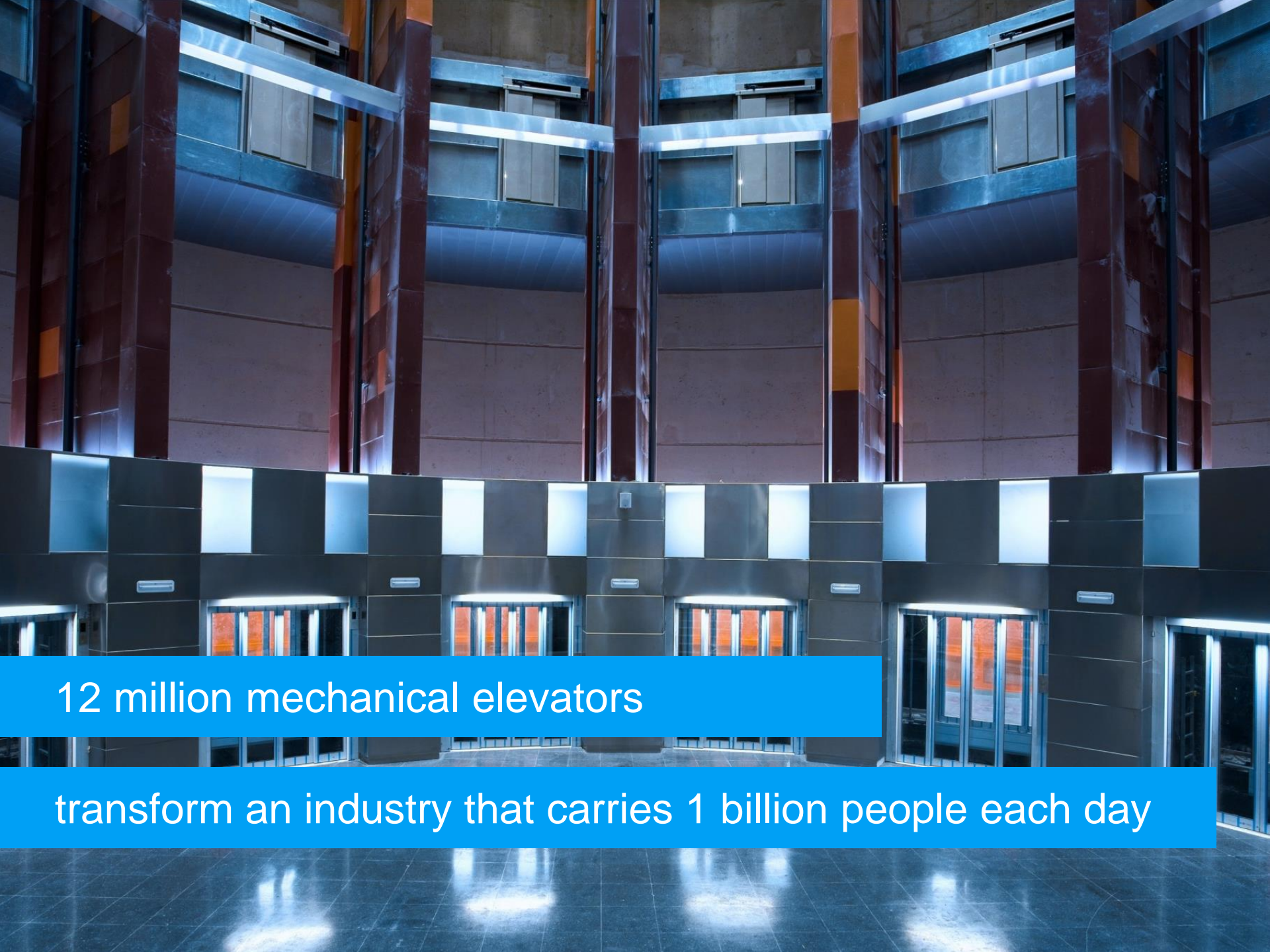


Urbanization: size of Manhattan being built every day

Digitalization: 50 billion connected devices in 2020

Population ageing: 16% population over 65 years by 2050





12 million mechanical elevators

transform an industry that carries 1 billion people each day



Elevators has 190 mil. hours downtime worldwide



4 callbacks per unit-year

Traditional designs are not enough

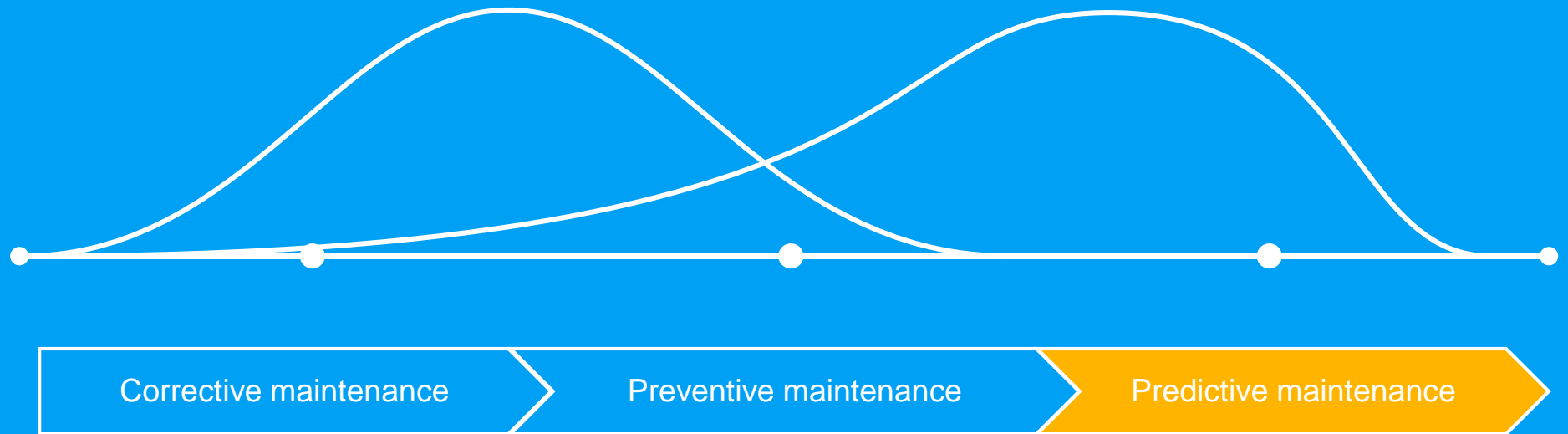






Manhattan: Riding 6 years Waiting 16.6 years

We need to make the transition from preventive to predictive maintenance





Our commitment: 50% reduction in downtime



# Why Open Innovation 4.0?



Provides a framework for interaction with start-ups

Scouting of best practices for Industry 4.0

Opportunity to detect potential new working lines

Agility to provide solutions to existing challenges from a different perspective

Opportunity of working in new technologies with shared risk between private and public investment

New applications in alternative industries for existing technologies

Potential improvement of existing developments

