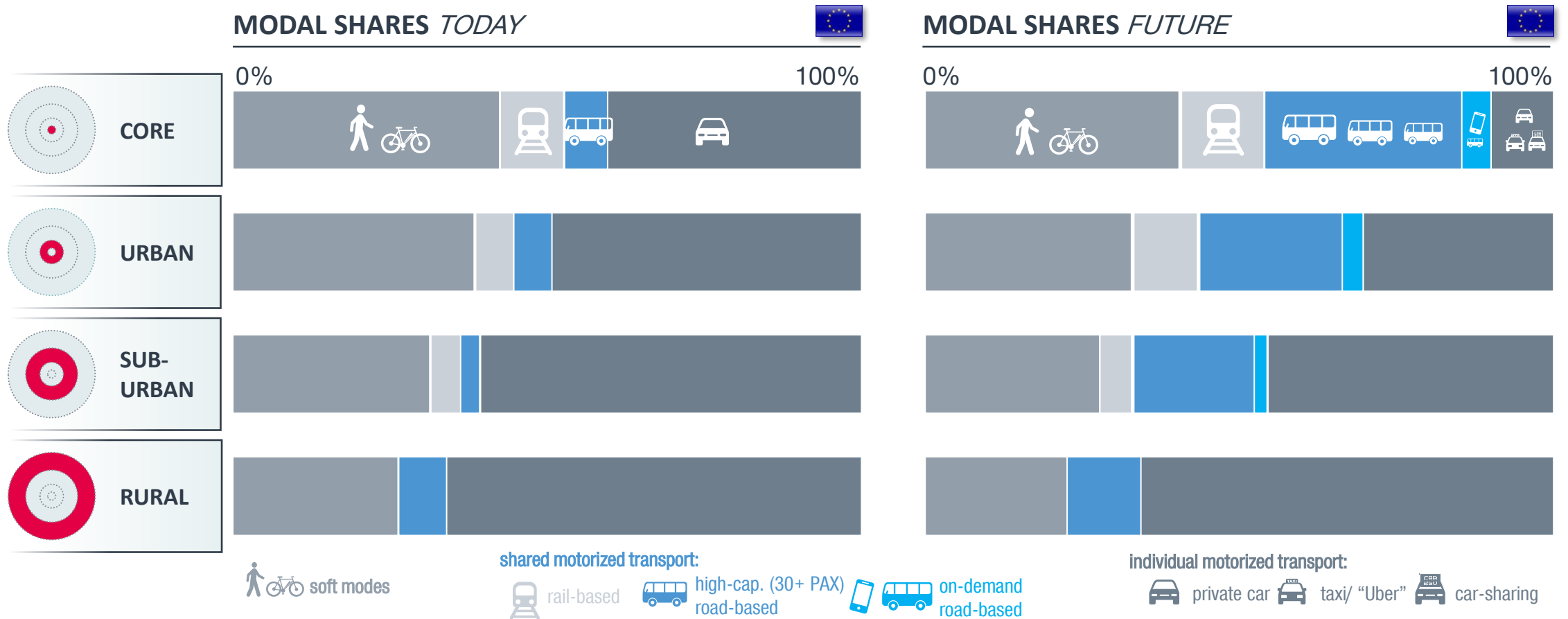


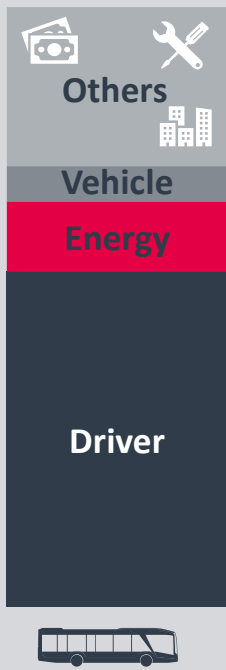
AUTOMATED PUBLIC TRANSPORT WITH MAN



KEY FOR THE MOBILITY REVOLUTION: SHARED AUTOMATED MOBILITY – IN ALL SIZES

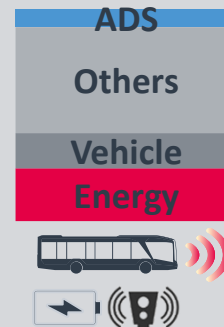


AUTOMATED DRIVING MAKES SHARED PUBLIC TRANSPORT MORE COST-EFFICIENT - IN ALL BUS SIZES



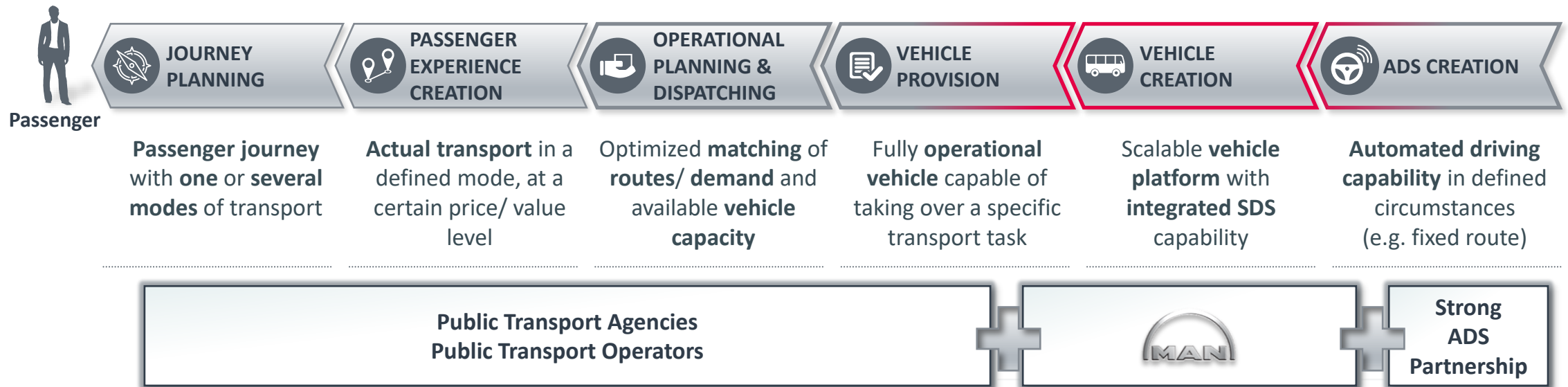
> -50% TCO Reduction

- Driver
- Diesel Motor
- + Electrical Powertrain
- + Automated Driving System



AUTOMATED PUBLIC TRANSPORT REQUIRES SYSTEM PARTNERSHIPS – OUR EXPERTISE: SAFE AND RELIABLE PUBLIC TRANSPORT VEHICLES

BUILDING BLOCKS OF AUTOMATED PUBLIC TRANSPORT (FIXED-ROUTE/ SCHEDULED)



A SAFE & RELIABLE BUS REQUIRES MORE THAN AN AUTOMATED DRIVING SYSTEM

AD sensors

- Lidar
- Radar
- Camera
- Ultrasonic

Redundant ADS

- AD ECU
- AD Software

Offboard

- Data management
- Fleet management
- Event recording
- Teleoperations / control center
- HD maps

Replacement of driver functions

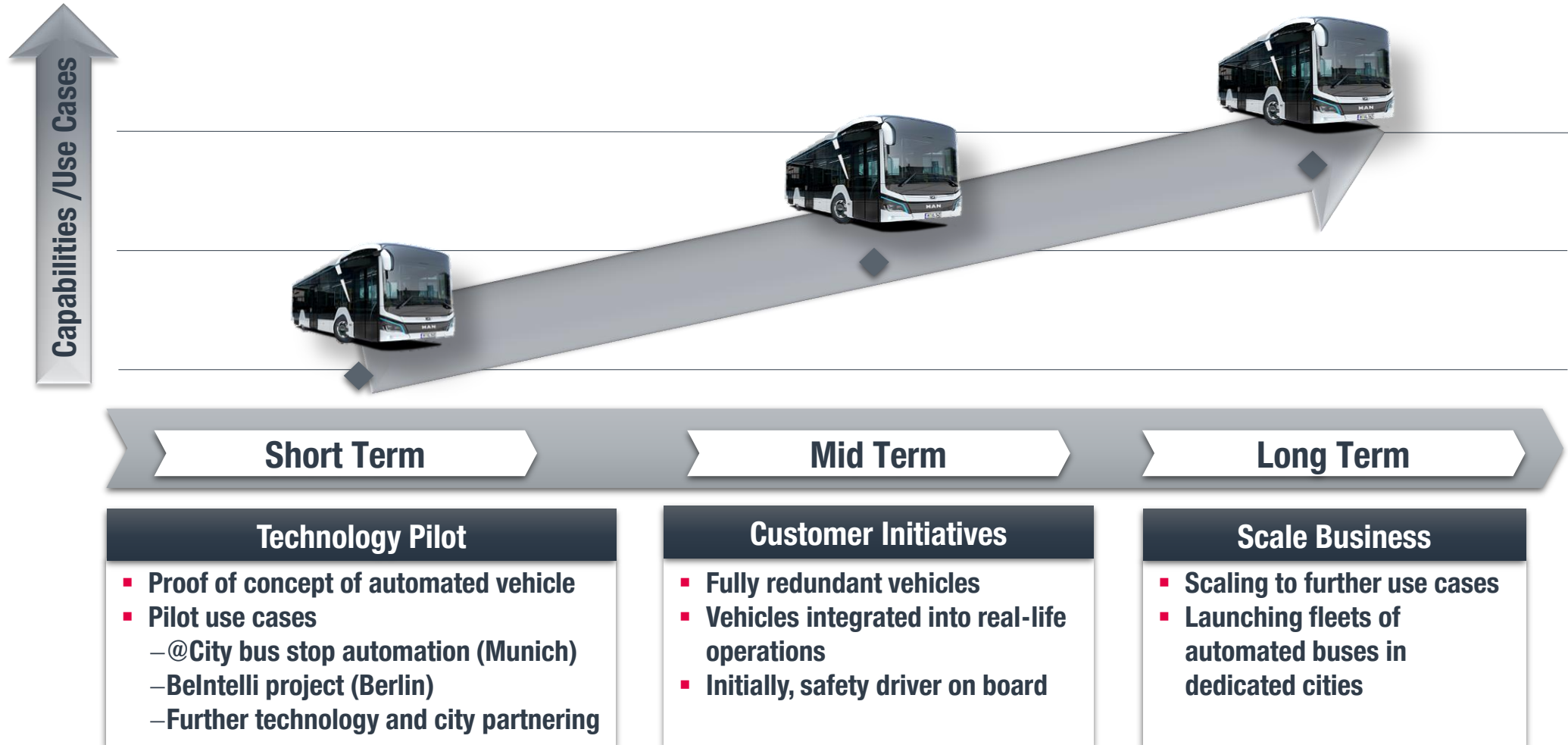
Redundant steering

Redundant brake

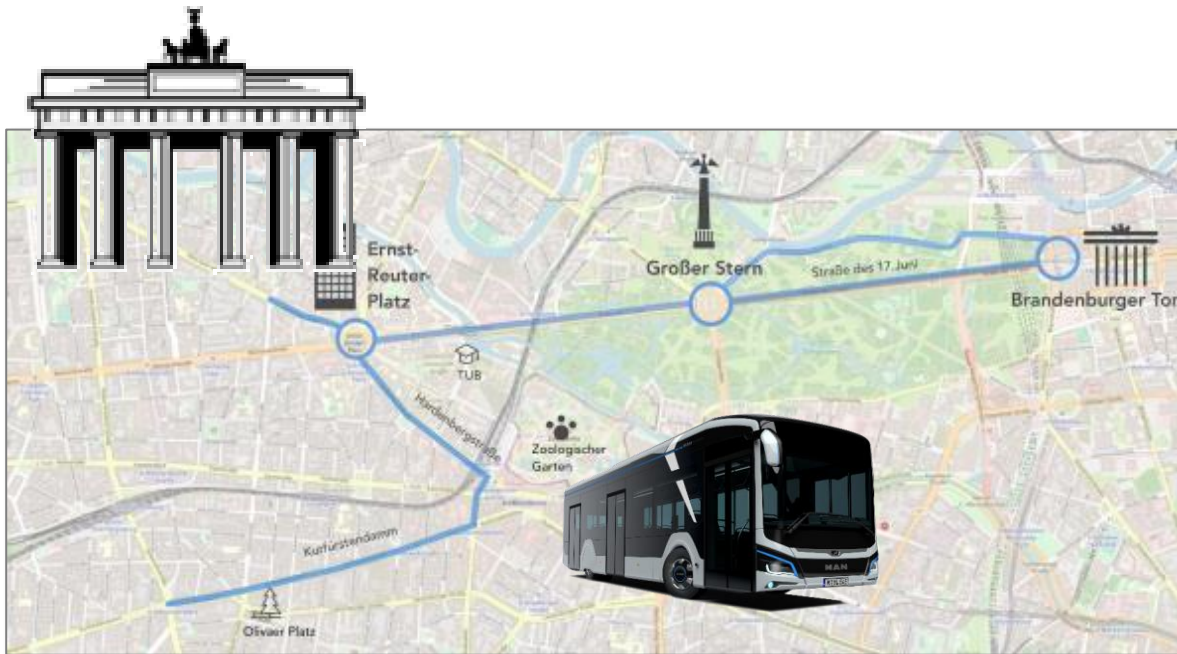
Redundant power supply



OUR CITY BUS ROADMAP FOR AUTOMATED PUBLIC TRANSPORT



TECHNOLOGY PILOT: USE CASE FOR AUTOMATED CITY BUS IN BERLIN



- Development of ADS software stack and fleet management
- Public demonstration of bus, van, and car
- Integration of ADS hardware and software in city bus
- Test track between “Brandenburger Tor” and “Oliverplatz” in BERLIN
- Go-live 2022

Partner



automotive engineering



LET'S START THE DIALOGUE!

CONTACT:

MICHAEL ROTH
HEAD OF PRODUCT STRATEGY BUS
MICHAEL.ROTH@MAN.EU

