VERTIV™

SECURING YOUR RAIL INFRASTRUCTURE

With billions of passengers, millions of journeys and tonnes of freight moving each year, the rail industry is both a vibrant and challenging environment.

You, as a rail operator, are expected to:
- Deliver **reliable service**
- Ensure **the safety of passengers and operative personnel**
- Minimize **operating and maintenance costs**
- Guarantee **a more efficient and resilient system**

Continual progress in Information and Communication Technology means that your customers require information on demand and have ever greater expectations of punctuality, value and amenities.

These same advances in technology open up opportunities for truly intelligent rail networks:
- Smart ticketing enables improved mass data capture and passenger flow
- In-cabin signalling systems allow for optimized command and control
- Remote condition monitoring supports safer and proactive maintenance

We have a proven track record of helping some of the largest rail operators in the world to leverage these opportunities, meet operational challenges and protect their infrastructure.

Our engineers and project managers have a comprehensive knowledge gained from **many years of experience in designing, building and servicing mission-critical soluti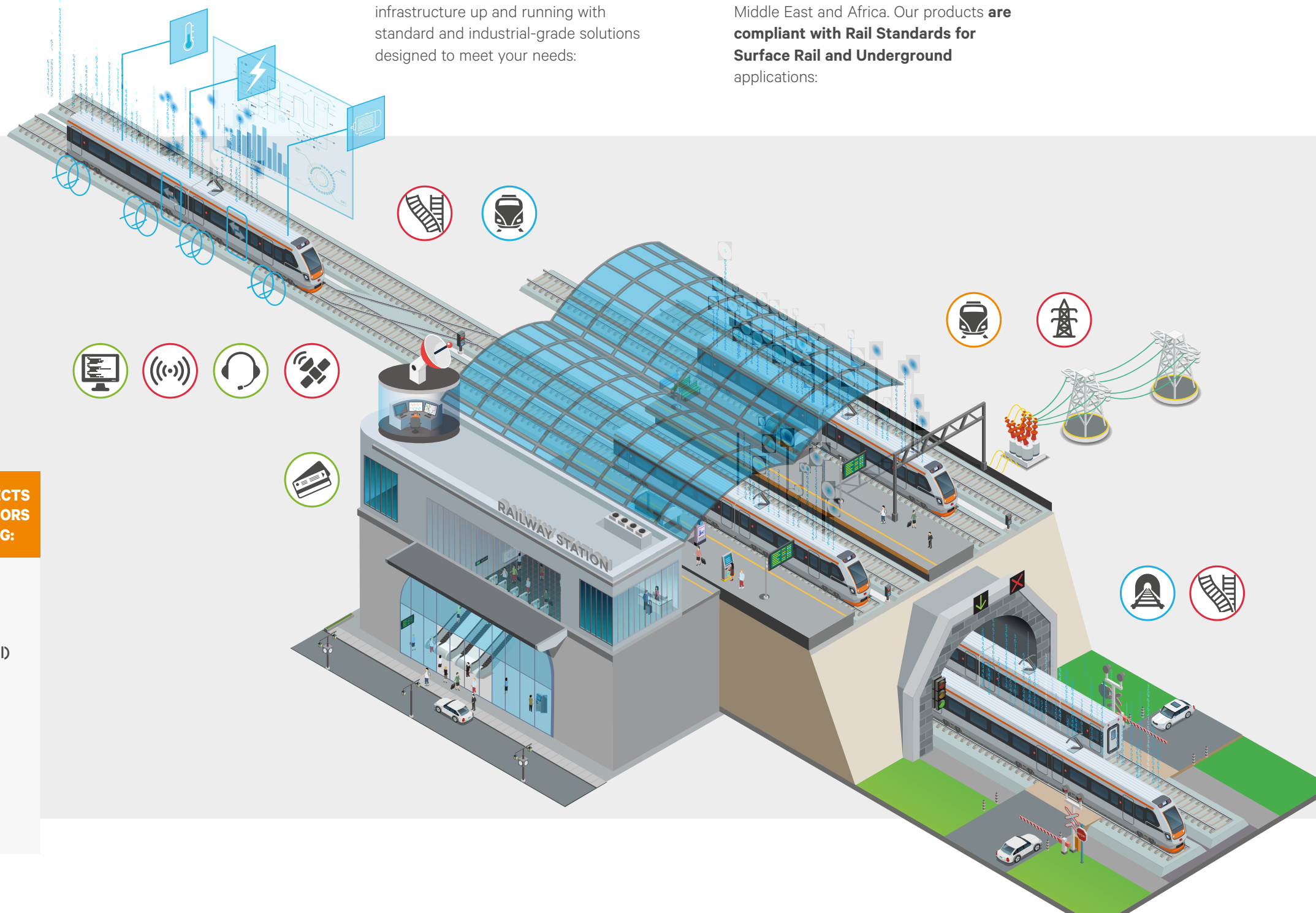ons for rail and transport applications,** just like yours. While you ensure the best experience for your customers, we keep your infrastructure up and running with standard and industrial-grade solutions designed to meet your needs:

- **AC and DC power protection solutions**
- **Thermal management for critical systems**
- **IT infrastructure management devices**
- **Modular and scalable options**
- **Remote diagnosis and monitoring**
- **Energy and asset management services**
- **Battery maintenance services**

We have **a wide range of products that are included in numerous industry approved registers** across Europe, Middle East and Africa. Our products **are compliant with Rail Standards for Surface Rail and Underground** applications:

- EMC compliance (BS EN 50121 & S1222)
- BS EN 62040
- CE marked
- ECA listed products

By placing your trust in Vertiv™ you can leverage extensive experience in infrastructure support, thus guaranteeing your passengers **a safe journey, a smarter experience and a future-proof service.**

VERTIV HAS COMPLETED PROJECTS FOR A NUMBER OF RAIL OPERATORS AROUND THE WORLD, INCLUDING:

- **Alstom** - France
- **Ansaldo ST (Hitachi)** Italy
- **Bombardier** - Germany
- **Bombardier Transportation (Signal)** Russia
- **DB Netz** - Germany
- **Istanbul Ulasım A.S.** Turkey
- **London Underground** - UK
- **Network Rail** - UK
- **ÖBB** - Austria
- **Major Australasian Rail Network Provider**

SIGNALLING AND CROSSING

TRACK SAFETY
- Signalling and crossings

TUNNEL SAFETY
- Power back-up for ventilation
- Emergency lighting
- Solutions for video, signaling, fire detection

TRACKSIDE

COMMUNICATION
- Solutions for the Telecommunications network

TRACKSIDE IT INFRASTRUCTURE AND TRACK SAFETY
- Signalling and crossings

POWER AND TRANSFORMER STATIONS
- Power back-up

SWITCH CONTROL
- Traffic management

STATIONS

CONTROL ROOMS
- Passenger information
- Line monitoring systems

PLATFORM VIDEO AND VOICE SYSTEMS
- Monitoring system announcements

PASSENGER INFORMATION AND ACCESS CONTROL
- Secure power for station control and equipment protection

ROLLING STOCK
- On-board power back-up

VERTIV™