

“Going underground: Our journey to the future” – the exhibits

Visitors to “Going underground: Our journey to the future” at The Crystal can experience the exhibition with an interactive guide which is available as an App.

It can be downloaded here: <http://media4rail.GoingUndergroundGuide.com> and provides information about the various exhibits on display.

Inspiro – the new metro from Siemens

The highlight of the exhibition is a full scale mock up of an Inspiro, the brand new mass transit metro platform – an innovative and iconic concept to inspire modern cities.

The Siemens Inspiro interior concept can be summarized in two words: light and space. The interior space is flooded with light from LED panels spanning the entire ceiling, visually “raising the roof” and offering an environment that feels at once spacious, clean, safe and modern. The passenger space is enhanced by the open gangways allowing users to flow freely throughout the train. The sense of openness is accentuated by the use of light, bright colours on the floors, seats and grab handles.

The Inspiro platform can be adapted to meet the requirements of a particular city. Articulated and modular, the train length can be adapted to match the platform length of the individual lines by variation of the number of cars. The train is 30% more energy efficient and 20 % lighter than similar modern metro trains.

www.siemens.com/Inspiro

Automated metro lines are more energy-efficient, punctual and optimise passenger services

Existing metro lines can be modernised by equipping them with automatic train control and protection systems. The result: more passengers reach their destination faster and in a more environmentally-friendly way. A metro line's capacity can be increased by up to 50 percent with this technology. Short headway times of 80 to 90 seconds are possible. If passenger volumes suddenly increase, the metro operator can deploy additional trains independently of the regular schedule. They can be automatically sent into operation straight from the depot at the push of a button. In addition, automatically controlled vehicles consume less energy thanks to optimised acceleration, traction and braking processes. Depending on the degree of automation, power consumption can be cut by up to 30 percent.

www.siemens.com/press/trainguardmt

eTicketing: A smart key to linking different means of transportation

The electronic ticket not only replaces the paper ticket, but can be used for all means of transport. Using such a system will make it easy to complete and pay for an individual journey – charging only for those services actually used, whether riding a train, renting a bicycle or parking a car.

As an innovation leader in the field of integrated mobility solutions Siemens offers interoperable multi-modal eTicketing solutions - covering the full value chain from mobile and card-based ticketing via innovative Be-in / Be-out and Check-in / Check-out access and control systems to comprehensive back office solutions. Combined with the Integrated Mobility Platform it opens up entirely new prospects for the networked mobility of tomorrow in terms of enriched information, route planning and individual booking services.

www.siemens.com/press/eTicketing

Passenger information systems increase attractiveness of mass transit for travellers

Dynamic real time information with data from vehicles and timetables is made available to passengers with the help of public address systems, displays and infotermi-

nals as well as on websites and mobile devices. In order to achieve this, numerous communication systems are linked to one network. Clear and simple information on the trains is provided by the summary of departures boards, which shows the next 1, 2 or 3 trains scheduled to arrive. Trains are tracked in real time and shown on active maps of the line so that passengers know when the next train arrives. As a train approaches a station, a colour-coded diagram shows which sections of the trains are already full of passengers, and which carriages are less crowded, so the traveller can choose one which offers more space for a more pleasant travel experience.

Increasing the safety and comfort of rail passengers

Smart environments enable us to travel, work, relax and socialise in comfort and safety. Smart stations require responsive, integrated solutions that ensure high level, unobtrusive security, discreet fire safety and automated energy management.

Siemens offers not only comfort and safety for the rail user, but also cost savings, greater efficiencies and carbon reduction commitments for the rail operator. To increase the efficiency of station resources and manpower, our technologies will monitor passenger activity and improve people flow, whilst human behaviour models optimise the use of station facilities. Analysis of queue duration and length can automatically trigger deployment of additional staff, whilst statistical information reviewing passengers in high-traffic locations and restricted areas ensures all people are accounted for 24/7.

Significant energy savings are achieved with the automation of heating, ventilation and lighting systems, resulting in reductions in energy consumption and improved carbon reduction targets, underpinned by transparent, detailed analysis and performance monitoring.

The importance of rail electrification in developing the intelligent energy infrastructure of the future

Much of the world's existing energy infrastructure was built in the era of black-and-white TV. There were fewer consumers with fewer devices, smaller cities and smaller economies – it was, as they say, a more simple time. A constant and reliable energy supply has always been crucial, but as the complexity of our world continues to increase, our energy system must adapt to contend with these new and dynamic

challenges. In a word, our energy infrastructure needs to be “smarter”. In this exceedingly complex world, everything is interlinked. The electrification of rail traffic supports smart grid environments and the intelligent infrastructure of the future.

www.siemens.com/rail-electrification

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More information about the Going Underground exhibition is available at

www.siemens.com/tube150

The press kit and pictures are available at

www.siemens.com/press/goingunderground

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The **Siemens Infrastructure & Cities Sector** (Munich, Germany), with approximately 90,000 employees, focuses on sustainable technologies for metropolitan areas and their infrastructures. Its offering includes products, systems and solutions for intelligent traffic management, rail-bound transportation, smart grids, energy efficient buildings, and safety and security. The Sector comprises the divisions Building Technologies, Low and Medium Voltage, Mobility and Logistics, Rail Systems and Smart Grid. Further information is available on the Internet at <http://www.siemens.com/infrastructure-cities>

Siemens Rail Systems

As part of the Siemens Infrastructure & Cities Sector, Siemens Rail Systems Division provides expertise and technology in the full range of rail vehicles – from heavy rail to metros to trams and light-rail vehicles. In the UK, the Division employs around 700 people and maintains over 350 Siemens passenger trains for First TransPennine Express, South West Trains, Heathrow Express, Greater Anglia Franchise (Abellio), Northern Rail, London Midland and ScotRail. www.siemens.co.uk/rail

