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Siemens Mobility GmbH

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Transport for London's Elizabeth line opens with Siemens Mobility's digital technology

- Will transform the everyday journeys of passengers across London and southeast England
- Siemens Mobility's digital signalling and railway management systems make journeys smooth and seamless from station to station
- Complexities managed through careful testing and integration

With Siemens Mobility Communications-Based Train Control (CBTC) and rail systems technology at its heart, the Elizabeth line between Paddington and Abbey Wood opened today, 24 May, and is set to transform the everyday journeys of passengers across London and southeast England. Siemens Mobility delivered the central section signalling and the communication and control systems for the new line on behalf of Crossrail Ltd. The CBTC signalling and control system will enable high-frequency and automated train operation for the central section of the Elizabeth line. The technology was designed, manufactured, installed, tested and commissioned at Siemens Mobility facilities in both the United Kingdom and Germany.

Andy Byford, London's Transport Commissioner, said: "We are delighted to open the Elizabeth line for passengers today, which is a truly historic moment for the capital and the UK, showcasing this stunning addition to our network. The Elizabeth line will help transform life and travel in London and the South East by dramatically improving transport links, cutting journey times, providing additional capacity, and transforming accessibility with spacious new stations and walk-through trains."

Michael Peter, CEO of Siemens Mobility said: "We are so proud to have contributed to this landmark project, one which will significantly transform mobility in London and across southeast England. Our digital signalling and station

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management technologies are transforming the everyday journeys of Elizabeth line passengers in London and the South East and we're proud that much of the technology was developed and tested in the UK. The railway has capacity for over 200 million passengers per year and it will provide an enhanced travelling experience featuring superior service reliability and availability."

The Siemens Mobility systems link seamlessly with the main line railway signalling systems to the east and west of the central section. The CBTC system, Trainguard MT, was extensively tested in Braunschweig, Germany. This was then integrated with other elements of the signalling and the platform screen door systems at Siemens Mobility's manufacturing and testing facility in Chippenham, England. Using digital technology to simulate other elements of the railway over many months of extensive testing against multiple scenarios ensured that everything would run smoothly on the live railway.

The communication and control systems delivered for this project provide a host of systems that touch virtually every part of the railway. Testing was also crucial for these highly complex station/central management systems, which links up over 30,000 connections from CCTV, public address, passenger information systems to rail and station systems, many speaking different computer languages. A huge number of real-life scenarios were tested virtually first, at Siemens Mobility's manufacturing and testing facility in Ashby, England.

Passengers will be informed effectively throughout their journey, which will result in safe, reliable travel and constant access to the information passengers need to travel easily, and for staff to manage stations efficiently, identifying and avoiding crowding, responding to incidents quickly, and ultimately providing the best possible passenger experience.

This press release is available at https://sie.ag/3lBaRAM

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Siemens Mobility is a separately managed company of Siemens AG. As a leader in transport solutions for more than 160 years, Siemens Mobility is constantly innovating its portfolio in its core areas of rolling stock, rail automation and electrification, turnkey systems as well as related services. With digitalization, Siemens Mobility is enabling mobility operators worldwide to make infrastructure intelligent, increase value sustainably over the entire lifecycle, enhance passenger experience and guarantee availability. In fiscal year 2021, which ended on September 30, 2021, Siemens Mobility posted revenue of €9.2 billion and had around 39,500 employees worldwide. Further information is available at: www.siemens.com/mobility.