Siemens UK in numbers: FY13

- **12*** Manufacturing facilities
- **33*** Major Siemens sites
- **13,520*** UK employees
- **£3.2bn** Revenue in 2012

*Numbers have increased following the acquisition of Invensys Rail*
Over 350 trains in service each weekday travelling over 50 million miles per annum
Siemens Rail Systems UK: a growing business

- **Current no. of vehicles**: 1,508
- **Current + New Class 350**: 1,588
- **Current + New Class 350 + Eurostar e320**: 1,748
- **Current + New Class 350 + Eurostar e320 + Desiro City**: 2,848

Number of rail vehicles
Rail Systems UK sites – own depots supported by client-owned facilities

Heathrow Express, CL332, CL360/2
York, TPE CL185
Northam, South West Trains, CL450/444
Ardwick, TPE, CL185
Shields, FSR, CL380
Kings Heath, LM, CL350/1, CL350/2

Siemens has the widest experience in Full Train Service contracts and is at present fulfilling SIX Train Service Agreements (TSA) for Commuter Multiple Units
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Plus constructing two additional depots as part of Thameslink Rolling Stock Project

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Thameslink: an update

- The Desiro City will be the UK’s first, second generation train
- Design reviews completed
- Two carriage, full scale mock-up manufactured
- Pre-series vehicles running at Wildenrath
- Traction tests ongoing
- Bogie tests ongoing
- Car bodies now in production
- Depot construction well underway
Industry challenges: skills gap

- Ageing population / workforce retirement profile
- Significant technological advancements on new trains
- Drive to attract new talent to the sector
- Substantial industry growth and investment
- Current geographical concentration of labour / skills

Requirement to bring 4,500 new people into traction & rolling stock within next five years & upskill existing workforce
Industry advancements: electrification

**Ardwick is one of six* existing Siemens-built depots in UK**
- Built 2006 at a cost of more than £30 million
- Current home to 51 x Class 185 diesel units

* Two further depots currently under construction as part of TRSP

**Government focus on electrifying the railways**
- £200 electrification programme in the North West
- Order for new electric units / depot electrification plan

**Hybrid diesel-electric depot**
- Work began September 2012, completed this month
- New Class 350/4 EMUs start to come into service end 2013
- Fundamental step in helping train operator deliver more capacity and faster journey times
Rail Automation: scope of offering

- Interlockings
- Communications
- CBTC and driverless
- Trackside
- Crossings
- ERTMS
- Control Centres
- Design
- Maintenance
- SCADA
Rail Automation: Crossrail signalling, control and communications

- Europe’s largest construction project
- The route will pass through 37 stations and run 118km between Maidenhead, Heathrow, Shenfield and Abbey Wood
- Will operate a 24 TPH service between Paddington and Liverpool Street
- CBTC signalling and interlocking for the central area of the Crossrail network
- Station management systems, including customer information, public address and CCTV
- Rail and station SCADA systems including traction power, tunnel lighting and drainage, station equipment
- Radio systems
- Interfaces with railways at each end
**Rail Automation: Victoria Line signalling upgrade**

- £10 billion, nine-year upgrade programme of the Victoria Line
- Peak services increased from 28 to 33 trains per hour
- Overlay delivery strategy allowed old and new trains to run during the upgrade works
- Includes RailCom system integrating line management, operational comms and signalling systems
- Line remained operational during the day throughout the project
- Victoria Line is the busiest line of the London Underground network, carrying over 183 million passengers each year
Rail Electrification: market segments

Contact Line for Mainline Railways

AC Traction Power Supply

Network Control

DC Traction Power Supply

Contact Line for Mass Transit
Change: the only constant within our industry
Our journey to the future
Thank you for your time

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