



Rail Depots & Workshops Modernisation Congress 2016

Improving Efficiencies Through Design & Innovation

25th-26th May 2016 | London | UK

Supplying Innovative Solutions For Modernising Rail Depot Operations And Designing Upgrades For Efficiency

Learn How To Cost Effectively Improve Depot Efficiencies
Reduce Maintenance Times, Handle New Fleets And
Maximise Safety Performance

Key Issues To Be Discussed Include:

This conference is driven specifically by new ideas and innovation, showcasing best practices from Europe's leading railways on reviewing current depot & workshop facilities and equipment, and designing new build, upgrades and modifications.

DESIGNING THE MODERN RAIL DEPOT: Designing Innovative Modifications To Rail Depots And Workshops: Driving Efficiency Gains And Ensuring New Fleet Compatibility

DEPOT MODIFICATION WHILE OPERATING: Planning For The Modification Of Depot Facilities While Operating: How To Select A Project Management Team To Deliver Upgrades On Time And On Budget

HANDLING NEW FLEETS: Discussing Design And Competency Management Best Practices To Ensure Fleet Compatibility With The Depot And The Maintenance Staff

INCREASING OVERALL DEPOT EFFICIENCIES: Reviewing Process, Power Usage And The Supply Chain To Minimise Depot Costs And Maintenance Times

FUNDING DEPOT MODIFICATIONS: Detailing Investment Strategies And Preemptive Planning To Deliver Safe And Robust Operations

AUTOMATION, MONITORING & SECURITY: Showcasing Innovation In Enhancing Maintenance And Security And Reducing Workforce Expenditure

HEALTH & SAFETY: Presenting Up-To-The-Minute Health & Safety Technologies And Techniques To Deliver Safe And Efficient Operations

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London Business Conferences

Expert Speakers Include:



Ingo Trockels
Head Of Infrastructure Planning
Rolling Stock Maintenance
Deutsche Bahn (Germany)



Robert Leuch
Head Of Production Engineering
SBB (Switzerland)



Dave Hatfield
Fleet Director
Grand Central Railway (UK)



Falco Moeren
Fleet & Project Manager
Nederlandse Spoorwegen (Netherlands)



Neil O'Connor
Head Of Fleet Performance
Southwest Trains (UK)



Antonios Moschopoulos
Head Of Thessaloniki Depot
E.E.Σ.Σ.T.Y. (Greece)



Vincent Van Opstal
Workshop Manager
SNCB (Belgium)



Werner Kurfess
Senior Project Manager
SBB (Switzerland)



Chi Wong
System Safety Manager
Crossrail (UK)



Ian Prosser
Director Of Safety
Office Of Rail & Road (UK)

Driving Innovation And Efficiency In The Modern Rail Depot

Train operating companies across Europe are implementing key strategies in modernising their maintenance facilities to enhance depot efficiencies.

And currently, innovations in rail depot design and management are being driven by a need to seamlessly integrate new fleets and maximise train availability.

But to ensure new fleet compatibility, operators must make key decisions on whether to build a new depot or modify existing facilities, on how to fund depot expansion projects and on choosing the best methods and technologies to optimise operational costs.

Hear World Class Case Studies On How Europe's Leading Train Operators Are:

- Improving overall depot efficiencies
- Maximizing fleet availability by minimising workshop turnaround times
- Implementing strategies for integrating new fleets at minimal cost
- Reducing costs through technological innovation
- Efficiently dealing with unscheduled problems

The first event dedicated specifically to the innovative design and efficient operation of train maintenance facilities, **Rail Depots & Workshops Modernisation 2016** debuts at **London's Hilton Metropole Hotel on the 25th and 26th of May**.

Following on from the success of our highly acclaimed rail series, the event will see leading European operators including Deutsche Bahn, London Overground, Southwest Trains, SNCB, East Midlands Trains and Grand Central Railway converge to share their critical experiences in modifying and managing the depot.

Rail Depots & Workshops Modernisation 2016 will crucially also:

- Clarify future sources for depot modification investment in the UK and across the continent
- Determine the latest technologies and techniques in improving depot health and safety and minimising costs
- Deliver transferrable lessons in process efficiency from the aviation industry

Maximum Fleet Availability

To enhance train availability and efficient operations, railways must modernise their depot facilities to stay in line with new fleets.

Rail Depots & Workshops Modernisation 2016 will deliver the most crucial successes and mistakes in depot design and operations.

- **Pan-European Event** – Delegates from across Europe will congregate to share best practices and outside-the-box depot management strategies
- **Innovation** – We will bring together Europe's most cutting-edge technologies to broaden the range of solutions available to depot managers
- **Most Recent Case Studies** – The event will showcase modifications and designs from the most recently developed depots in the industry
- **Clarification Of Funding Issues** – Speakers will discuss the most viable avenues for securing depot modification investment
- **Debate On Future Of UK Model** – Panellists will debate the impact of the Hendy Report and the categorization of depots as 'non-critical infrastructure' and subsequent depot sell-offs

Venue

PALACE BALLROOM
London Hilton Metropole Hotel
225 Edgware Road
London
W2 1JU

Day One

Wednesday 25th May 2016

Day One Will Look At A Holistic Approach To Depot Layout And Design To Efficiently Handle New Fleets, Improve Overall Depot Efficiencies And Minimise Maintenance Turnaround Times

8.50 Chair's Opening Remarks

Chaired by: Neil O'Connor, *Head Of Fleet Performance, Southwest Trains (UK)*

KEYNOTE PANEL: DESIGNING THE MODERN RAIL DEPOT

9.00 Designing Innovative Modifications To Rail Depots And Workshops: Driving Efficiency Gains And Ensuring New Fleet Compatibility

- How rail operators and OEMs are implementing innovative strategies for improving depot and workshop efficiencies
- Reviewing staff upskilling programs to ensure that new technologies are integrated safely
- Evaluating the use of automated materials stores that allow efficient access to spare parts for technicians
- Detailing train planning software that allows quick, bug-free communications between train operators
- Considering the design of pit access, wheel drops and bogie drops to reduce the time needed to change each wheel set

Moderated By: Neil O'Connor, *Head Of Fleet Performance, Southwest Trains (UK)*

Panellist: Ingo Trockels, *Head Of Infrastructure Planning Rolling Stock Maintenance, Deutsche Bahn (Germany)*

Panellist: Robert Leuch, *Head Of Production Engineering, SBB (Switzerland)*

DEPOT MODIFICATION WHILE OPERATING

9.40 Planning For The Modification Of Depot Facilities While Operating: How To Select A Project Management Team To Deliver Upgrades On Time And On Budget

- Discussing the liaison process between the project and facilities managers to ensure minimum interference with 'business as usual'
- Outlining progress reporting, scheduling and finance control skills to deliver modification projects on time and on budget
- Pre-empting environmental, residential and noise level issues to minimise delays to a modification project

Neil O'Connor, Head Of Fleet Performance, Southwest Trains (UK)

10.10 Question & Answer Session

NETWORKING BREAK SPONSOR - RAILSHINE

10.20 Railway Network Electrification Programmes: What Change For The Depots?

- Implementing Retractable OCS to improve maintenance operations
- Using Retractable OCS to optimize production / logistics time
- Using RAILSHINE Train Feeding Solutions to accommodate both diesel and electric power cars on the same track of a depot

Samuel Dulheuer, Managing Director, Railshine (France)

10.30 Morning Refreshments In The Exhibition Showcase Area

Handling New Fleets

Discussing Design And Competency Management Best Practices To Ensure Fleet Compatibility With The Depot And The Maintenance Staff

MODIFICATION VS. NEW FACILITIES CONSTRUCTION: EUROPEAN PERSPECTIVE

11.00 Strategies For Introducing New Fleets Into Depot And Workshop Facilities: Comparing The Cost-Benefits Of Tailoring Existing Facilities Vs. New Build

- Clarifying the influences on project feasibility - modification and extension versus greenfield development
- How to design the interface between the workshop and the rolling stock to develop the workshop layout and equipment to be within budget and adequate for fleet size and diversity
- Demonstrating contemporary solutions and the limits of multi-purpose work stands and equipment

How To Modernise Depot Facilities To Ensure New Fleet Compatibility And Minimise Operational Costs And Turnaround Times

Ingo Trockels, Head Of Infrastructure Planning Rolling Stock Maintenance, Deutsche Bahn (Germany)

11.30 Question & Answer Session

MODIFICATION PLANS VS. NEW BUILD: UK PERSPECTIVE

11.40 Making The Business Case For Introducing New Fleets Into Depot And Workshop Facilities: Is It More Economical To Build New Facilities Or To Tailor Existing Ones?

- Assessing running and heavy maintenance facility requirements to inform choice of lifting or dropping equipment
- Comparing overhead cranes, jacks and sim-lifts to accommodate jacking points on a new fleet
- Delivering an overview of depot power requirements to advise on selection of pneumatics, airlines and distribution of electrics
- Contrasting gantry, ladders and step installation to allow easy and safe access to pantographs and roof mounted equipment

Paul Edwards, Fleet Manager, London Overground (UK)

12.10 Question & Answer Session

Examining Existing Facilities To Improve Overall Depot Efficiencies And Reduce Costs
Reviewing Process, Power Usage And The Supply Chain To Minimise Depot Costs And Maintenance Times

INNOVATING EQUIPMENT AND WORKING METHODS

12.20 Presenting Rail Depot Equipment For Gear Running Condition Based Maintenance

- Evaluate the latest decision support software to bogie & wheel set full automated maintenance plants. Identify best practices and equipment's for heavy Bogie & wheel set maintenance activities.
- Evaluate how new CNC embedded algorithms can improve railway wheel re-profiling.
- Learn how to use the dynamic train bogie test rig for assessing the correct railway maintenance of the bogie rotary parts and bearings.

Andar Azkarate, Innovation Manager, Danobat (Spain)

12.40 Question & Answer Session

12.50 Lunch In The Exhibition Showcase Area

OPTIMISATION OF HEAVY MAINTENANCE OF TRAINS

13.50 Presenting The Adaptation Of Maintenance Workshops To The Requirements Of The New Train Fleets Of SBB

- Transformation of depots and workshops to realise modular maintenance concepts as a base for more efficiency in operating rolling stock
- From maintenance processes to optimised workshop layouts
- How to rebuild a workshop under operation conditions

Robert Leuch, Head Of Production Engineering, SBB (Switzerland)

Werner Kurfess, Senior Project Manager, SBB (Switzerland)

14.20 Question & Answer Session

MOVEABLE OVERHEAD CONDUCTOR BARS

14.30 Making The Business Case For Movable Overhead Conductor-Bars Within Depots To Support Modular Fleet Maintenance

- Safety combining electric traction with modular maintenance
- Optimising safety in depots with electrify trains and pantographs through linking cranes, gantries and stairs to isolation and earthing equipment
- Delivering efficient working to suit new train types
- Maximising reliability and minimising risk of overhead line in depots
- Supporting the conversation of traditional depot working into a F1 pit crew

Robert Daffern - Principal Engineer, Furrer+Frey GB Ltd (UK)

Ankur - Project Engineer, Rigid Overhead Conductor Rail Systems, Furrer+Frey GB Ltd (UK)

14.50 Question & Answer Session

Managing Environment & Power

Outlining Cutting-Edge Waste Management And Power Conservation Strategies To Enhance The Value Stream And Reduce Contamination Risk

NETWORKING BREAK SPONSOR - VOGELSANG

15.00 Innovating Train Care Depot CET & Water Supply Systems

- CET & Water Supply System innovations to drive depot efficiency minimize downtime and improve user's health & safety.
- Showcasing the benefits of fully advanced automatic and integrated CET servicing modules.
- Considering the implementation of remote monitoring and user pre-authorization technology to improve system availability and quality of train care maintenance service

Hermann Lucks, Project Engineer, Vogelsang (Germany)

15.20 Afternoon Refreshments In Exhibition Showcase Area

PANEL: EFFICIENT POWER MANAGEMENT

15.50 How To Leverage Smart Technological Innovations For Power, Lighting & Heating To Deliver Cost Savings And Conserve Energy

- Power - Delivering appropriate power for running or heavy maintenance through correct distribution of electrics, pneumatics and airlines
- Lighting - A cost-benefit analysis of LED lighting, automatic switches and hooded shade installation
- Heating - Assessing UV heating systems and heat sensors and other non-roof mounted alternatives to ambi-rads to minimise lost heat

Moderated By: Neil O'Connor, *Head Of Fleet Performance, Southwest Trains (UK)*

Panellist: Werner Kurfess, *Senior Project Manager, SBB (Switzerland)*

Panellist: Antonios Moschopoulos, *Head Of Thessaloniki Depot, E.E.Σ.Σ.T.Y. (Greece)*

Pre-Emptive Planning

Demonstrating Risk Analysis & Rescheduling Methods To Increase Train Throughput

ACTIVE FORWARD PLANNING

16.30 Implementing Active Forward Planning And Preventative Systematic Scheduled Tasks To Pre-empt Depot Issues And Ensure Rapid Maintenance

- Outlining how to access the right component data for effective predictive maintenance
- Understanding how to prioritise depot tasks to ensure efficient use of resources in the event of a catastrophe
- Discussing the role of centralised planning of exams to match available resources to deliverable work and avoid train delay penalties
- Detailing the most effective maintenance rescheduling and rostering methods to deliver minimal depot disruption when a train is late
- Implementing weekly depot team meetings and job completion contingencies to account for short staffing and maintenance delays

Antonios Moschopoulos, Head Of Thessaloniki Depot, E.E.Σ.Σ.T.Y. (Greece)

17.00 Question & Answer Session

17.10 Chair's Closing Remarks

17.20 - 18.20 Networking Drinks Reception In Exhibition Showcase Area

"A thought-provoking conference that allowed a number of areas to be considered and new ideas to take away"

Eurostar

Day Two Will Look At Depot Modification Funding Options, Safety & Security Measures To Minimise Risk, Process And Scheduling Techniques For Minimal Downtime And Automated And Digitalised Lean Maintenance Methods

8.20 Chair's Opening Remarks

Chaired by: Rob Whyte, MD Regional, Intercity & Svs Europe, Alstom (UK)

KEYNOTE PANEL: STRATEGIES FOR FUNDING DEPOT MODIFICATIONS

8.30 Delivering Future Depot Investment By Reviewing The Evolving Role Of Network Rail And UK And European Franchise Models

- Discussing the Hendy Report to outline Network Rail's future role in project investment and approvals
- Detailing the eligibility criteria for Department For Transport funding to improve scheme timescales and make a project a priority
- Clarifying which scheme has replaced the RAD funding system to deliver depot upgrades for potential new franchises
- Learning from private funding options used by ROSCOs to allow investment in previously unconsidered equipment

Moderated By: Rob Whyte, MD Regional, Intercity & Svs Europe, Alstom (UK)

Panellist: Dave Hatfield, Fleet Director, Grand Central Railway (UK)

Panellist: Neil O'Connor, Head of Fleet Performance, Southwest Trains (UK)

AUTOMATION & MONITORING

9.10 Inspecting The Latest Automation And Monitoring Technologies Used To Conduct Mundane And Repetitive Tasks And Minimise Downtime

- Discussing the use of condition-based monitoring systems to facilitate efficient scheduling of maintenance
- Understanding how to shape facilities around maintenance procedures to build reliability and control costs
- Reviewing passenger information system updates and glitches to minimise disruption to maintenance

Dave Hatfield, Fleet Director, Grand Central Railway (UK)

9.40 Question & Answer Session

NETWORKING BREAK SPONSOR - MECHAN

9.50 Equipping A "High Performing Depot" - Help To Meet The NTF 20 Point Plan Specification

- Evaluate the latest lifting jack technology for coupled formation lifting
- Flexible undercar handling systems - bogie drops that handle more than bogies
- In house v outsourced - bogie workshop equipment
- Provide the depot team with a clean atmosphere - fume extraction options
- Efficient depot movements - electric road / rail shunters for multiple applications

Richard Carr, CEO, Mechan (UK)

10.00 Morning Refreshments In The Exhibition Showcase Area

Health And Safety

Presenting Up-To-The-Minute Health And Safety Technologies And Techniques To Deliver Safe & Efficient Operations

HEALTH AND SAFETY COMPLIANCE

10.30 Outlining Health And Safety Compliance To Ensure That Safe Working Practices Develop Alongside New Depot Modifications

- Outlining correct safety management systems and EU directives to ensure worker safety in the depot
- Delivering an update on ORR safety regulation to minimise risk of injury or death in the depot
- Discussing A-G forms to ensure systematically safe working procedures with hazardous equipment including the track and OLE
- Considering risk assessments, safety validations, work package plans and depot inductions to minimise the risk of an accident
- Reviewing CDM design and building regulations to clarify regional standards and avoid penalties

Ian Prosser, Director Of Safety, The Office Of Rail And Road (UK)

11.00 Question & Answer Session

PANEL: TECHNOLOGY FOR IMPROVING HEALTH AND SAFETY IN THE DEPOT

11.10 Highlighting The Most Effective Depot Protection System Technologies To Avoid Catastrophic Events

- Detailing the safe use of rapid isolation equipment to reduce the time necessary to remove power from the third rail or overhead wire
- Discussing the use of CCTV and strobe lights to ensure a faster and more secure safety in-line process
- Showcasing the latest laser curtain systems to allow 360 train checks and a quick reaction to any abnormality

Moderated By: Rob Whyte, MD Regional, Intercity & Svs Europe, Alstom (UK)

Panellist: Ian Prosser, Director Of Safety, The Office Of Rail And Road (UK)

Panellist: Chi Wong, System Safety Manager, Crossrail (UK)

Lean Maintenance

How To Use Digital Data Gathering Systems To Form Robust Maintenance Operations

LEAN MAINTENANCE

11.50 Improving Operational Efficiency To Achieve Business Growth

- Outlining how centralising preventative maintenance activities has generated depot capacity
- Demonstrating how lineside materials & self-service access to parts has improved workforce efficiency
- Explaining how the use of Lean Techniques including standard operations have improved productivity
- Outlining adaptations to business strategy to achieve greater responsiveness to customer needs through improved efficiency

Steve Hadfield, Head of Operations Mainline Services, Alstom (UK)

12.10 Question & Answer Session

12.20 Lunch In The Exhibition Showcase Area

DIGITALISATION OF MAINTENANCE SYSTEMS

13.20 Discussing The Use Of LEAN And Remote Condition Monitoring For Unscheduled Repairs To Minimise Unplanned Downtime

- Outlining data analyses to understand waste in asset downtime
- Applying LEAN to speed up unscheduled repairs
- Using remote condition monitoring to plan unplanned events
- How to co-ordinate between railway operations and maintenance operations across geographical locations
- Discussing the future of predictive and prescriptive maintenance to improve customer satisfaction on the railway

Falco Mooren, Fleet Manager, Nederlandse Spoorwegen (The Netherlands)

13.50 Question & Answer Session

Security, Automation & Monitoring Showcasing Innovation In Enhancing Maintenance And Security And Reducing Workforce Expenditure

DEPOT SECURITY

14.00 Assessing Innovations In Automated And Drone Security Technologies To Reduce Depot Security Costs

- Ascertaining the efficacy of drone security technology to decide on whether or not to invest
- Comparing CCTV camera technologies to ensure picture clarity in lower lighting levels
- Weighing the cost-benefit of automated gates, fences and coded keypads to minimise security expenditure and ensure peace of mind
- Considering the use of GPS sensors to ensure that a security guard has completed his patrol
- Katie Buss, Crime Reduction Service Delivery Supervisor South, British Transport Police (UK)
- Mark Stokes, Crime Reduction Service Delivery Supervisor North, British Transport Police (UK)

14.30 Question & Answer Session

14.40 Afternoon Refreshments In The Exhibition Showcase Area

NEW FLEET INTEGRATION: COMPETENCY MANAGEMENT

15.10 Outlining Staff Up-Skilling And Competency Management Programs To Ensure Seamless Integration Of New Fleets

- Reviewing the maintenance staff's existing competencies to identify the function of maintenance level present
- Assessing the maintenance functions required for a new fleet to inform the maintenance discipline that is needed
- Implementing training schemes in key competencies across the workforce to bridge the gap
- Detailing the testing of technical, practical, academic, investigation and management competencies to formalize the ability to do certain work
- Mapping the application of new maintenance competencies to minimize idle time and ensure quality and safety
- Discussing the IT skills required for RCM fault code analysis to allow depot staff to accurately assess train component performance

Kevin Smith, Technical Trainer, Merseyrail (UK)

15.40 Question & Answer Session

ROUND TABLE: CONTINGENCY PLANNING

15.50 Implementing Contingency For 'Golden Assets' To Ensure Smooth Operation Of Critical Depot Infrastructure In Unforeseen Circumstances

- Employing a risk analysis of all depot equipment to identify what constitutes a critical or 'golden' asset
- Considering a contingency plan for each golden asset to ensure a robust asset management strategy
- Comparing UPS systems such as generators, batteries and solar panels to deliver electricity in the event of a national grid power outage
- Discussing redundancy schemes for depot signaling systems to allow trains to access and exit the depot in case of signal failure
- Using asset management systems to efficiently track and log depot assets and tasks completed

Led By: Rob Whyte, MD Regional, Intercity & Svs Europe, Alstom

16.30 Chair's Closing Remarks And End Of Conference



Details PLEASE USE CAPITALS - PHOTOCOPY FOR MULTIPLE DELEGATES

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Mr Dr Miss Ms Mrs Other:

Name _____
Position _____
Organisation _____
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Delegate 2

Mr Dr Miss Ms Mrs Other:

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Position _____
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Enquiries And More Information

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