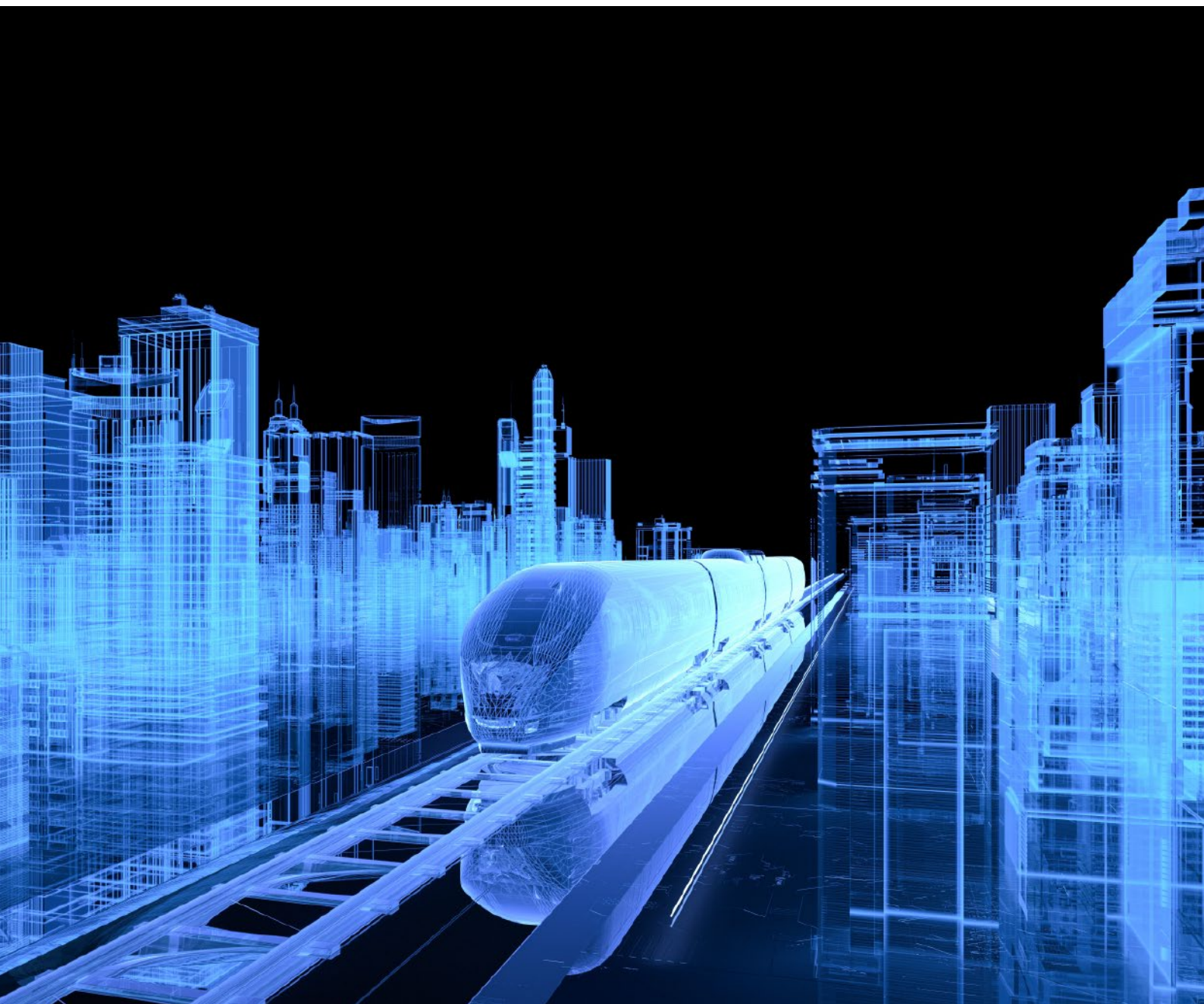


THE RISE OF
IoT & BIG DATA
BY ROTAIA MEDIA

↑
N RAIL



EVENT PROGRAMME

COLOGNE | 14TH & 15TH MAY 2025

CONTENTS

THE NUMBER ONE EVENT TO MATCH BUYER REQUIREMENTS WITH
EXPERT SOLUTIONS DURING THE RAIL SECTORS DIGITAL EVOLUTION
– BRINGING TOGETHER RAILWAY EXPERTISE & DATA SCIENCE.

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WELCOME



Returning to the conference calendar for a seventh consecutive year, The Rise of IoT & Big Data in Rail has firmly established itself as the rail sector's trusted meeting place for business leaders to gain a clear and pragmatic idea about the industry's digital challenge, and how data has become the significant source to unlocking added value.

Over these past seven years, we have quickly established a true community of like-minded, passionate individuals who not only have the solutions, but can visualise a better way to deploy data to create and preserve value in the transport chain. It's through the extraordinary passion, trust and technical expertise of these people, that our event has become so successful as these individuals have the conviction to act on their vision.

This exclusive gathering will explore how IoT and Big Data, power solutions such as predictive maintenance, asset optimisation and AI-Powered Applications to improve reliability, enhance efficiency, increase capacity and reduce maintenance costs, empowering rail operators and infrastructure managers to make smarter data-driven decisions.

If you are serious about creating future value for your shareholders and for the wider world, this is the most relevant stage to be on. It's here where the very best rail leaders, strategists, technologists, engineers and visionaries meet to transform the industry.

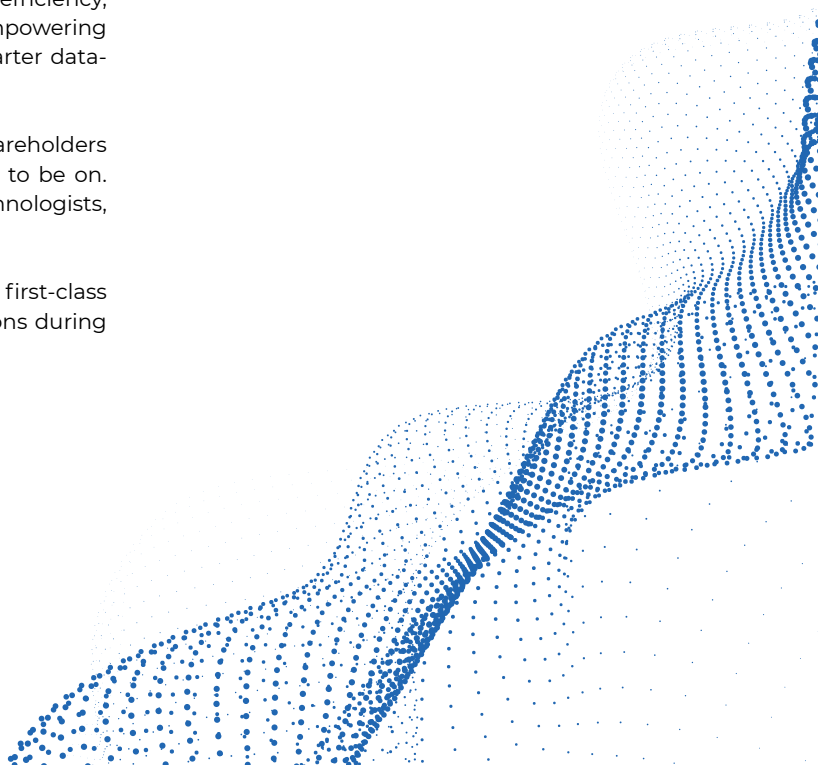
I am delighted to invite you to join us in Cologne at this first-class event to match buyer's requirements with expert solutions during the rail sector's digital evolution.

Ben Holliday

Founder & Managing Director

A stylized, handwritten signature in black ink, appearing to read 'Ben Holliday'.

ROTAIA MEDIA



THE MARKET

The global predictive maintenance market—which includes IoT-based remote monitoring of trains—is on track for explosive growth between 2023 and 2030. Currently valued at €8.9 billion in 2023, the market is expected to surge to €60.3 billion by 2030, reflecting a massive increase in adoption and investment in technologies like IoT and AI to optimize train operations and prevent costly maintenance failures.



The Internet of Things (IoT) is rapidly transforming the railway industry, unlocking significant potential for operational and maintenance improvements. By integrating IoT technologies, railways can create more predictive and efficient systems, particularly in maintenance. This integration allows operators, maintainers, and asset owners to connect their assets, utilizing advanced connectivity, data analytics, and AI-driven decision support. The result is increased availability, enhanced customer experience, and optimized operation and maintenance systems.

One of the key advancements is predictive maintenance, which uses IoT-based remote monitoring to forecast issues before they occur, reducing downtime and lowering costs. The global predictive maintenance market, which includes IoT-based solutions for rail, is forecasted to grow

substantially from €8.9 billion in 2023 to €60.3 billion by 2030. As rail operators continue to invest in these technologies, staying updated with the latest innovations is a challenge, particularly around data ownership and how it can be shared among all stakeholders.

Beyond maintenance, the IoT is also transforming logistics, offering improved end-to-end visibility, which benefits both freight and passenger services. With the integration of Industrial IoT and Big Data analytics, rail can shift more freight from road to rail, achieving the much-desired modal shift. This shift is now possible as the rail sector embraces the digital future and competes to stay ahead of other transportation sectors, making it a crucial time for all stakeholders to fully engage with these technologies.

KEY TOPICS




















- Effectively deploying IoT data for predictive maintenance
- Maximising the benefits of big data for asset management
- Using digital twins concepts to drive digital transformation
- Modernising maintenance through data analytics and insight
- Applying deep reinforcement learning AI to capture and solve the complexity of rail networks
- Technical and business advancements for condition-based asset management
- How IoT tech will bring advancements in data collection and analysis to leverage digital trends
- Driving organizational resiliency through asset Intelligence
- Ensuring the interconnectivity of IoT and blockchain to ensure data security and an accurate ledger
- Harvesting big data to reduce operational costs
- Methods to improve reliability and availability of assets
- Strategies to increase performance and service life
- Building a big data platform to analyse, understand and model track condition and degradation
- How to mitigate the big data cyber security risk
- Technology demands for future fleet management

“

I truly believe this is the best Railway conference in the market. A well structured and organised event. I had the possibility to meet new potential customers and exchange relevant information with many participants which is why I am sponsoring the event for the 6th consecutive year. A perfect mix between rail operators and systems suppliers.

Head of Rail | SKF

OUR PARTNERS

 HEXAGON PLATINUM	 vossloh GOLD	 SIEMENS GOLD	 SKF GOLD
 KNORR-BREMSE GOLD	 nexxiot GOLD	 RAILNOVA GOLD	 RAILWAY SYSTEMS by voestalpine GOLD
 ALSTOM GOLD	 Nomad Digital smarter transport, connected passengers GOLD	 instrumentel MEASURING SUCCESS GOLD	 intelliQis GOLD
 KONUX GOLD	 Talgo GOLD	 Transmission Dynamics GOLD	 ZF GOLD
 MachinesWithVision GOLD	 Plasser & Theurer GOLD	 tmc Track Machines Connected GOLD	 kallipr. IoT Technologies GOLD
 INFRAVIEW Part of DB E.C.O. Group SILVER	 T Systems SILVER	 ASTERRA SILVER	 EUTELSAT ONEWEB EUTELSAT GROUP SILVER
 CEMIT SILVER	 Amsted DIGITAL SOLUTIONS BRONZE	 ICOMERA AN EQUANS COMPANY BRONZE	 DTEC GmbH BRONZE
 Predge BRONZE	 reFAMO BRONZE	 OneBigCircle BRONZE	 d-fine BRONZE
 VIT BRONZE	 Cohesive BRONZE	 PJM BRONZE	 ALTAIR BRONZE
 KAPERNIKOV BRONZE	 HITACHI BRONZE	 JAAI JUST ADD AI BRONZE	

WHY ATTEND?

98%

of previous attendees would return

100%

of previous sponsors already rebooked for 2025

35%

increase in attendees year on year

As one of the most asset-intensive industries in the world, the rail industry invests nearly 20% of its revenue in asset maintenance to ensure safe operations. What's more, significant challenges such as spiralling maintenance costs, narrow maintenance windows, non-availability of talent for remote condition monitoring, and heightened customer expectations, plague the industry.

As an infrastructure manager or train operator, it is not always possible to know everything about the depth of applications that can be implemented which can deliver positive changes for your organisation such as cost reductions and increase in revenues. For those infrastructure managers or train operators which have already implemented data capture systems, there will be the opportunity to consider how their current applications can be taken to the next level, and of course the opportunity to share both best practice and challenges with an audience of their peers.

Speed of innovation, new intelligent technologies and systems based on AI are now key requirements in order to solve maintenance problems which are responsible for a large percentage of Railways issues with quality. New

digital technologies are now required to help overcome the problem of capacity without expensive and time-consuming investments in new infrastructure.

This unique conference represents an invaluable and timely opportunity for companies with the digital expertise to help the operations and maintenance heads of global Railways understand how to collect and properly exploit massive sets of data from every aspect of their operations.

The 2025 conference is the perfect platform to bring together those with the questions, and those with the answers. It's an opportunity to share experiences – and for vital collaboration.

SUPPORTED BY



WHO WILL YOU MEET?

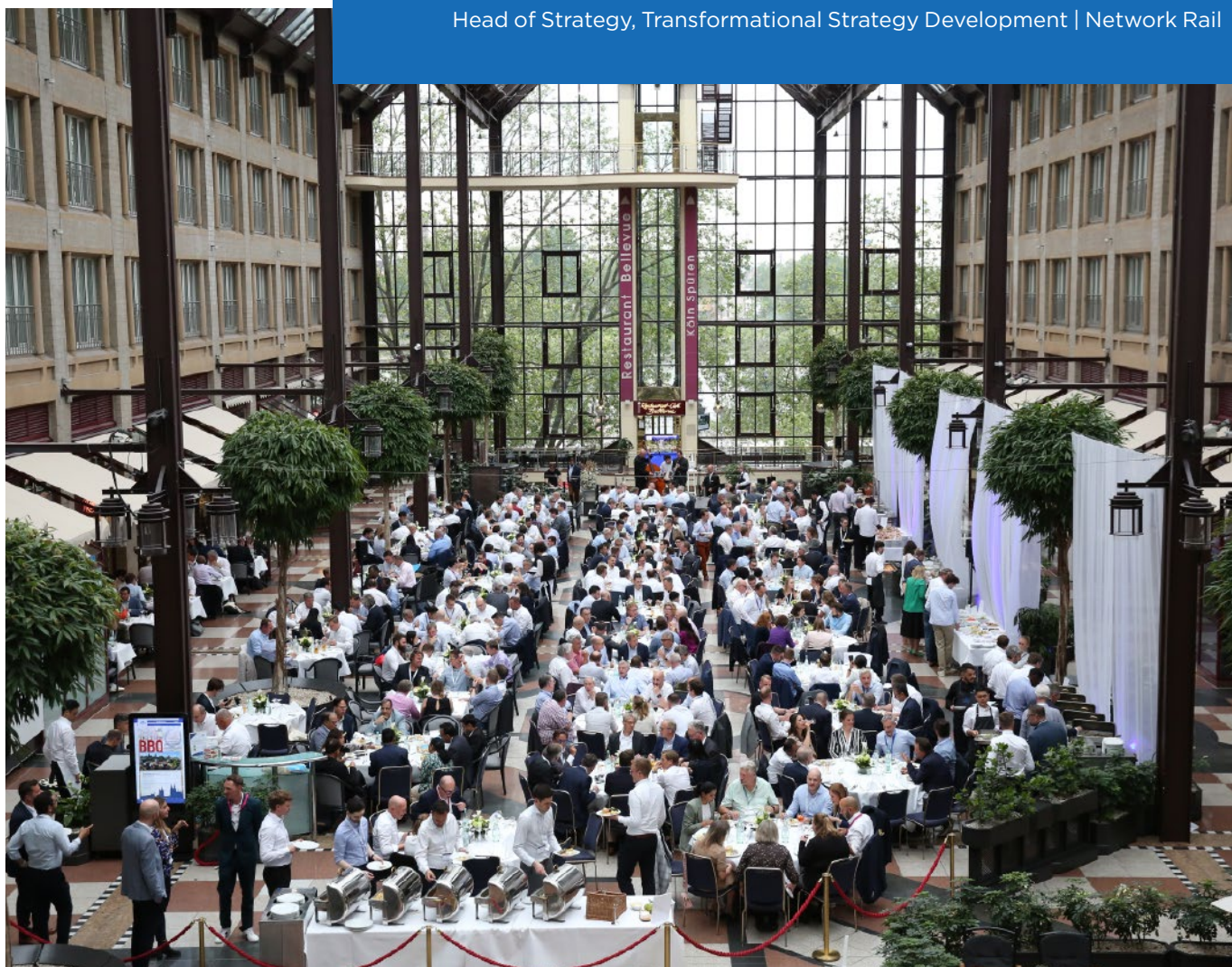
Infrastructure Managers, Train Operating Companies, Transport Authorities, Government Ministries, Technology and Solution Providers, Maintenance & Engineering Companies, System Integrators, Rolling Stock Manufacturers, Leasing Companies, Signalling Manufacturers and Consultants who are:

- Directors of Maintenance
- Heads of IoT & Big Data
- Directors of Asset Management
- Heads of Technology
- Directors of Operations
- Directors of Innovation
- Heads of Remote Diagnostics
- Directors of IT & Strategy
- Chief Information Officers
- Heads of Data and Analytics
- Directors of Procurement
- Heads of Rolling Stock
- Infrastructure Asset Managers
- Chief Technology Officers
- Directors of Infrastructure
- Data Management Consultants
- Data Scientists
- Heads of Asset Intelligence

“

I've been on the event circuit for a long time, and I've got to say that this event is by far the best one I've been to in ages! The breadth of information that was available was amazing, and the speakers and networking opportunities far exceeded my expectations.

Head of Strategy, Transformational Strategy Development | Network Rail



MEET THE SPEAKERS



Jasmin Bigdon

CTO



Shri G.V.L Satya Kumar

Managing Director



Chris Stanley

Head of Asset Data



Redouane Amti

Head of Maintenance
Management



Naser Krasniqi

CEO



Frederic Henon

Director of Freight Department



Annette Kvist

Director IT Development,
Train Operations



Maria Pinheiro

Head of Asset Management
Development



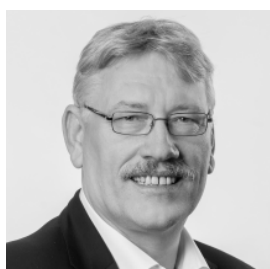
Maria Antonietta Zocco

CTO



David Shannon

General Manager



Dr. Uwe Jasnoch

Director EMEA for GTD



Arjen Kimmel

Senior Pre-Sales Solution
Consultant



MEET THE SPEAKERS



Manuel Urstöger

Product Manager



Maximilian Eichhorn

CEO



Stephen Warner

Head of Business Intelligence



Gerhard Paal

Head of Digital Services Sales



Cord Gatzka

Head of Railway Technology & Analytics



Robin Antoine

Product Manager



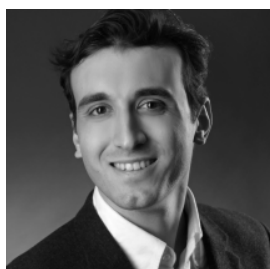
Malte Bieler

Head of Data & Insight
Railway Infrastructure



Christoph Schulze

S-VP Data Innovation



Isidoros Sapounas

Head of Digitalization



Francis Vander Ghinst

Sales Director



Terence Reverdin

Head of Track Maintenance



Damon Thomas

CEO & Founder



MEET THE SPEAKERS



Dr. Christiane Ziegler

Head of Innovation Strategy and
Business Model Development



Gerhard Loots

CEO



Rolf Samonte

Head of ICT & Cyber Security Team



Anthony Ashbrook

Chief Technology Officer



Jarek Rosinski

CEO & Founder



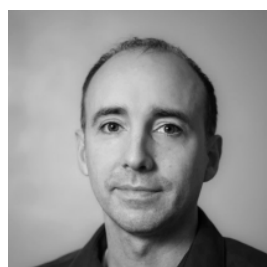
Jenny Hudson

Managing Director



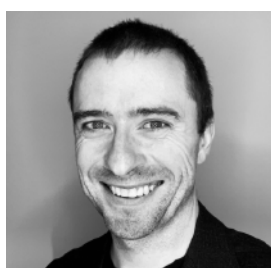
Benedict Houben

Head of Digital Maintenance
Value Stream



Dr Jonathan Birch

Technical Director



Ivan Rochford

Digital Train Manager



Krzysztof Wilczek

Head of Track Analytics



Pedro Conceição

CBM Technical Sales Consultant



Alan Dittrich

Head of Digital Solutions,
Rail Drive Systems



MEET THE SPEAKERS



José Antonio Marcos
Head Area Manager of Smart
Maintenance Engineering



Simon Giovanazzi
CEO



Manuel Simon
Sales Director



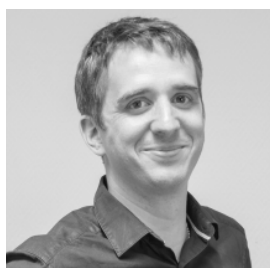
Benjamin Krause
System Architect Driver
Advisory Systems



Imma Baradyana
Director of Strategic Development



Martin Runge
Head of Digital Services



Flavien Vigieur
Head of Innovation, Data Science
and 3D Development



Amira Youssef
Lead Data Scientist



Christian Burk
Director & Authorized Signatory



Matthaeus Decker
Head of Global Railway



Vitali Rjasanzew-Frey
Technical Lead AI Vision Systems



Elisa Sengle
Product Owner AI Vision Solutions



OUR CONFERENCE CHAIRMAN



The Rise of IoT and Big Data in Rail conference marks a pivotal point in the year for all of us dedicated to harnessing digital rail technology to enhance the sector. Conference delegates are focused on creating value for multiple stakeholder groups across passenger, freight and rail infrastructure —now and in the future.

This is the most relevant stage to be on, and that's why the event is attended by top rail leaders, strategists, technologists, engineers, and visionaries from all over the world. This year's event presents a unique opportunity to discover the latest and most impactful innovations. Delegates will learn how they can transform our industry and drive it towards greater safety, efficiency, and sustainability performance across the entire ecosystem.

Now, in 2025, it's the 7th time the conference has taken place, and I'm thrilled to be part of it for the 6th time as Conference Chairman. A new culture of innovation in rail is leading the industry with its forward-thinking approach and commitment to progress. Together, we are embracing the growth potential brought about by digital transformation. Data has become a key enabler of change, allowing us to optimize processes and unlock new value and use cases across the sector.

One of the standout features of this event is the remarkable collaboration it fosters. Delegates come together, representing operators, infrastructure providers, and technology leaders. This mix creates a dynamic environment where, together, we explore solutions that not only address existing challenges but also create a platform for continuous improvement. We will be joined by key representatives from across Europe, who will share insights into how rail undertakings and operators are improving their operations. Leading innovators will demonstrate how they are driving new value for customers and reshaping the rail landscape. We are also excited to welcome contributions from North America and India, and other areas of the world to gain perspective on global collaboration.

As we gather in the beautiful Cologne setting, this year's event promises to be more valuable than ever. Let's come together to shape the future of rail, exchange ideas, and build long-lasting partnerships.

I look forward to welcoming you all and to continuing our journey of innovation and progress.







Yours sincerely,

Daniel MacGregor

Co-Founder of Nexxiot and Conference Chairman



AGENDA | DAY 1

08:00	Registration and Welcome Refreshments in the Exhibition Area	
08:55	Ben Holliday Managing Director Rotaia Media (Organiser) & Daniel MacGregor Co-Founder Nexxiot (Chairman) Welcome Address	
09:00	Jasmin Bigdon CTO Deutsche Bahn Transforming Rail with IoT and Big Data: A Technical Perspective <ul style="list-style-type: none"> Challenges the rail sector faces (e.g. operational performance, economic pressure) Opportunities for technical innovation in the railway industry Three unexpected examples for the usage of IoT and Big Data in the rail industry 	
09:15	Aleksandr Zaitsev Head of Digital Transformation & Innovation Department Estonian Railways Implementing Field Service Management in Estonian Railways: Project Goals, Challenges, and Progress <ul style="list-style-type: none"> Preparation and analysis Master data and its challenges MVP and active development phase 	
09:30	Dr. Uwe Jasnoch Director EMEA for GTD Hexagon & Arjen Kimmel Senior Pre-Sales Solution Consultant Hexagon Asset Lifecycle Intelligence Gaining the edge: linking digital twins with enterprise asset management <ul style="list-style-type: none"> What makes a Digital Twin for Rail Infrastructure special What information of a Digital Twin is relevant for enterprise asset management – and vice versa How to improve your Asset Performance by using Hexagon's technology 	
09:45	Maria Pinheiro Head of Asset Management Development Infraestruturas de Portugal Journey for intelligent asset management <ul style="list-style-type: none"> Infraestruturas de Portugal vision for digital asset management The importance of establishing a Data Governance Model Current challenges and insights 	
10:00	Anthony Ashbrook CEO Machines with Vision Using AI and AR for game-changing navigation of workers and vehicles on track, delivering new levels of safety and efficiency for inspection and maintenance <ul style="list-style-type: none"> Game changing navigation for track workers based on AI and AR How Fault Navigator is improving safety and productivity of ultrasonic testers in the UK A glimpse into the future of autonomous inspection and maintenance 	

○ 10:15

Railway Operators Panel Discussion

Providing data and predictive analytics to operator's mends breaks within that specific piece of the chain. If one part of the chain moves fluidly, then the potential for the entire chain to move fluidly is a lot higher.

- What needs to happen to create an information-sharing program that would encourage all stake holders to share data with each other in order to combat supply chain disruptions and delays?
- One key to advancing sustainable transportation is to digitally increase the capacity of rail systems with less resources. How can rail operators, maintainers and asset owners achieve this to enhance operations and improve maintenance?
- How would the industry benefit from having open ecosystem for rail systems that includes customers and partners with the overall goal of integrating all assets?

Panellists:

- Cord Gatzka | Head of Railway Technology & Analytics | Deutsche Bahn
- Redouane Amti | Head of Maintenance Management | NS
- David Shannon | General Manager | RailPulse
- Martin Runge | Head of Digital Services | Siemens Mobility
- Matthaeus Decker | Head of Global Railway | SKF
- Manuel Simon | Sales Director | Cemit

○ 10:45

Morning Refreshments in the Networking & Exhibition Area

○ 11:15

David Shannon | General Manager | RailPulse

Using railcar telemetry to improve north American freight rail service

- Collaboration across stakeholders is key to success in complex North American rail freight network
- There is no single silver bullet - stacking value is critical to broad adoption
- Fostering innovation through focus on outcomes and data standard vs technical specifications



○ 11:30

Maximilian Eichhorn | CEO | Nexxiot

Asset Intelligence for Improved Efficiency, Safety and Sustainability in Rail

- Tangible value is delivered from real-time data
- What's next for Asset Intelligence?



○ 11:45

Marianto Zocco | CTO | Mercitalia Intermodal (Polo Logistica, FS Group)

Advancing Rail Freight with IoT: Innovations and Impact

- Real-time monitoring and predictive maintenance for enhanced safety
- Leveraging self-powered and wireless IoT solutions
- Optimizing asset lifecycle and operational efficiency



○ 12:00

Robin Antoine | Product Manager | Vossloh Rail Services

Smart High-Speed Grinding: on board inspection for next level maintenance optimization

- Train based rail inspection: latest developments at Vossloh
- Visualization of large-scale rail condition datasets and anticipating rail defects
- How Simulation of rail maintenance shifts improve efficiency



○ 12:15

Annette Kvist | Director IT Development, Train Operations | DSB**Innovate to Elevate Rail in Denmark**

- Leveraging AI for Operational Excellence: Explore how DSB is harnessing the power of artificial intelligence to improve overall operational efficiency
- Success stories using data from IoT devices, AI algorithms, generative AI and integration to existing application architecture
- Driving Innovation and avoid getting lost in an endless maze of POC's



○ 12:30

Ivan Rochford | Digital Train Manager | SKF**Small components – big data – great impact**

- Technology and data automation
- Bearing lifecycle and environmental context
- Practical examples



○ 12:45

Lunch in the Networking & Exhibition Area

○ 13:45

Stephen Warner | Head of Business Intelligence | Arriva UK**Centralised V localised Business intelligence. Is there a way of having the benefits of both without the downsides**

- The challenges and the opportunities
- What do our customers need from a business intelligence team / platform
- Arriva's approach



○ 14:00

Benjamin Krause | System Architect Driver Advisory Systems | Knorr-Bremse**Leveraging multiple data sources to provide best in class energy efficient rail operations**

- A success story: the driver advisory system LEADER of Knorr-Bremse goes "connected"
- How traffic, track and train model data are used to optimize our customers' freight train operations
- Discover chances and risks of future DAS products



○ 14:15

Chris Stanley | Head of Asset Data | Network Rail**Tracks & Bytes: Unleashing the Power of Data Sharing for the Railway Industry**

- The rationale behind Network Rail's adoption of data-sharing practices
- Potential benefits for the industry and passengers through enhanced data sharing
- Strategies for fostering engagement within your organization



○ 14:30

Christoph Schulze | S-VP Data Innovation | voestalpine Digital Track Management**Effective usage of data intelligence in railway infrastructure maintenance**

- Challenges of supporting infrastructure maintenance by means of data intelligence
- The importance of process integration or "Nobody wants data!"
- Our holistic approach of using data, analytics and AI in maintenance



14:45

Redouane Amti | Head of Maintenance Management | NS (Dutch Railways) & Benedict Houben | Head of Digital Maintenance Value Stream | NS (Dutch Railways)

An insight in data driven maintenance within Dutch Railways

- Several use cases of how real time monitoring and AI helps in improving performance
- How IT supports daily operations in planning recovery of trains at the right moment, place and capabilities
- Challenges when implementing new technologies



15:00

Pedro Conceição | Head of Product Management | Nomad Digital & Nenad MIJATOVIĆ | Chief AI & Data Scientist | Alstom

How we can use AI to enhance the passenger experience and our fleet management capabilities

- What is AI and how can it help
- 'Real world' examples
- What lessons have we learned so far



ALSTOM

15:15

Vitali Rjasanzew-Frey | Technical Lead AI Vision Systems | DB Cargo & Elisa Sengle | Product Owner AI Vision Solutions | DB Cargo

From Manual Checks to AI Insights: Transforming Freight Wagon Maintenance and Operations

- AI-Powered Inspection: Detecting wagon defects and monitoring loads using advanced computer vision models
- From Tracks to Screens: Digitalizing wagon checks with AI to reduce manual inspections, centralize monitoring, and improve operational efficiency
- Real-World Impact & Future Vision: Live use cases, business value, and the next step—an AI co-pilot for predictive maintenance and smarter logistics



15:30

Afternoon Refreshments in the Networking & Exhibition Area

16:00

Francis Vander Ghinst | Sales Director | Railnova

Empowering Rail Operators with Data Sovereignty: Unlocking Independence and Control in Fleet Operations

- Data Sovereignty & Independence
- Empowering Fleet Performance
- Real-World Application



16:15

Malte Bieler | Head of Data & Insight Railway Infrastructure | Bane NOR

Strategic use of data for smarter and safer railway transportation

- Becoming a data forward organization in the transportation sector
- Using data capabilities to unlock the value of data products for improving infrastructure maintenance
- Practical example: Using sensors and AI for improving infrastructure maintenance



16:30

Gerhard Paal | Head of Digital Services Sales | Siemens Mobility Customer Services

Maintenance Execution and Operation Support enabled by Railigent X

- The power of choice for maintenance optimization, automation and operations support
- Combining the real and digital worlds for superior operation support and maintenance execution
- Railigent X applications support essential tasks and workflows in maintenance – perfectly interlinked with operations



16:45 **Frederic Henon | Director of Freight Department | UIC**
The DAC related necessity for a future “Central Instance”

- Monitoring Software versions of DAC
- IT Architecture and Data Exchange
- Governance and Organisation



17:00 **Drinks Reception Sponsor**

**Jarek Rosinski | CEO & Founder | Transmission Dynamics &
 Jenny Hudson | Managing Director | Transmission Dynamics**

Intelligent Railway Systems: How AI is Powering Trains with Brains®

- Transforming OLE monitoring with real-time AI insights
- Smart solutions for track monitoring, including points and crossings
- Enhancing rolling stock and freight performance with AI analytics



17:10 **Infrastructure Manager Panel Discussion**

Intelligent Infrastructure Programmes are now key to future performance improvements achieved through new digital and innovative technologies.

- However, how do we create better centralised databases which gives teams more transparency to the data to plan what, where and when to act?
- What are the challenges in sharing 'prime' data; the data that can be trusted to offer users actionable insights? What barriers need to be broken to achieve this?
- Having disparate systems and parties who are responsible for different parts of the infrastructure network (from switches and heating systems) is arguable a very fragmented approach which may lead to inefficiencies. How do we create a single, scalable system that gives real-time access of all data to all users to offer valuable operational insight?

Panellists:

- Chris Stanley | Head of Asset Data | Network Rail
- Maria Pinheiro | Direct Lead of Asset Information | Infraestruturas de Portugal
- Malte Bieler | Head of Data & Insight Railway Infrastructure | Bane NOR
- Dr. Uwe Jasnoch | Director EMEA for GTD | Hexagon
- Krzysztof Wilczek | Head of Track Analytics | Plasser & Theurer
- Simon Giovanazzi | CEO | infraView GmbH, Part of DB E.C.O. Group

17:40 **Chairman's Closing Comments**

17:45 **Drinks Reception in the Networking & Exhibition Area**

18:45 **Networking Gala Dinner in the Conference Hall**

20:45 **End of Day 1**

AGENDA | DAY 2

- 09:00 Dr. Christiane Ziegler | Head of Innovation Strategy and Business Model Development | DB InfraGo
- [Condition-based maintenance and planting an apple tree](#)
- Risk based approaches indicate the best seed in data-driven maintenance of assets
 - How to grow CBM when technology is analogue? – the case of signal boxes
 - Harvesting by combining automatisisation of inspections



- 09:15 Dr Jonathan Birch | Technical Director | Instrumentel
- [Realising the Value of Data Insights - How operators and asset owners realise the value of their data to maximise their assets and increase competitiveness](#)
- Breaking down the value chain
 - Collaborative commercial models
 - Incentivising every person within every organisation



- 09:30 Rolf Samonte | Head of ICT & Cyber Security Team | Metro Trains Sydney
- [Protecting data, cyber incident response, and fostering partnerships](#)
- Protecting OT & IT Systems
 - Securing AI - Future Proofing Business
 - Fostering Partnerships



- 09:45 Alan Dittrich | Head of Digital Solutions, Rail Drive Systems | ZF Group
- [ZF connect@rail – the digital revolution of a condition monitoring system](#)
- Sustainable Rail Transport: How ZF Connect@Rail enhances maintenance processes for sustainability
 - Impact on Preventive Maintenance: The disruption and benefits of condition monitoring systems
 - Reality of Digitalization: Assessing the revolutionary impact of successful digitalization



- 10:00 Isidoros Sapounas | Head of Digitalization | CFL
- [The transformation in the field of maintenance and how the railway can benefit from digital maintenance possibilities](#)
- Efficiency through Digitalization & CBM
 - Changing Roles and Agility with pragmatic solutions for the maintenance
 - Data Partnerships and Target State (Know-how Integration)



- 10:15 Damon Thomas | CEO | Intelligis
- [New Developments in the digitisation of Freight Rail](#)
- Taking a flexible and modular approach to IoT integration in freight
 - The value of aggregated data - placing value on outcomes not data
 - Building the business case - the benefits of adoption versus the cost of inaction



○ 10:30

Gerhard Loots | CEO | Kallipr**How rail operators are boosting safety with precision monitoring**

- IoT's impact on managing speed restrictions, reducing derailment risks and maintaining safety in weather events
- A roadmap to implementing predictive maintenance across your network
- Learnings and actionable insights from real-world applications at Aurizon and Yarra Trams



○ 10:45

Morning Refreshments in the Networking & Exhibition Area

○ 11:15

Flavien Vigieur | Head of Innovation, Datascience and 3D Development | SNCF & Amira Youssef | Lead Data Scientist | SNCF**Deployment of datascience solutions for maintenance and asset management**

- Multisource data analysis
- 3D data valorisation
- Decision-making tools: maintenance versus renewal



○ 11:30

Krzysztof Wilczek | Head of Track Analytics | Plasser & Theurer & Manuel Urstöger | Product Manager | tmc Track machines connected**Data-Driven Track Maintenance: Risks, Challenges, and Opportunities**

- Navigating complex environments: Operating heavy machinery in harsh conditions while ensuring safety and precision
- Impact on lifecycle costs and safety: How track quality directly influences operational costs and system reliability
- Bridging the skills gap: Using digital technologies to enhance workforce capabilities and meet increasing operational demands

Plasser & Theurer

○ 11:45

Christian Burk | Director & Authorized Signatory | Kölner Verkehrs-Betriebe AG**Challenges of an ageing, growing and increasingly strained urban rail network (2 solution concepts)**

- Urban rail network in Cologne (chances and challenges)
- Mass data concept for monitoring and dashboarding
- Precise data concept for modelling and prediction



○ 12:00

José Antonio Marcos | Head Area Manager of Smart Maintenance Engineering | Talgo**Dynamic Maintenance Approach based on Artificial Intelligence**

- The democratization of AI generative for the industry
- Industry 4.0 technologies applied in maintenance services



○ 12:15

Imma Baradyana | Director of Strategic Development | Konux**Transformation in Rail Enabled by Data**

- Promoting data sharing to drive collaboration and innovation in rail operations
- Using real-time data analytics to optimize infrastructure reliability and reduce downtime
- Advancing sustainable railway solutions through intelligent monitoring and decision-making systems



○ 12:30

Naser Krasniqi | CEO | InfraKos (Kosovo Railways)**Preparation of Infrakos for Harmonization with the Revised TEN-T Regulation**

- Assessment and Adaptation of Standards
- Modernization of Infrastructure
- International Coordination and Key Projects



○ 12:45

Daniel Larsson | Strategic System Developer | SJ Götalandståg AB**Decoding Delays: Data, Trains, and Human Behaviour**

- Merging traffic delay causes and vehicle usage
- Balancing Technology and Human Input
- Moving towards AI



○ 13:00

Terence Reverdin | Head of Track Maintenance | Schweizerische Südostbahn AG**The life-cycle of track assets – is there a missing link?**

- Infrastructure and the track as a complex system
- The challenge in the implementation of data-driven maintenance processes
- Track data and its embedding in asset management processes



○ 13:15

Lunch in the Networking & Exhibition Area

○ 13:00

Round Table Discussion Groups

1. Satellite Deep Dive: Sharing experiences, implementation strategies, successes, and failures
2. How do we shift the emphasis on to outcomes rather than data and develop commercial models that support collaboration and data sharing, whilst protecting the integrity of individual Intellectual Property?
3. Challenges for next future, manpower vs robotics
4. How are transport innovators unlocking new revenue streams?
5. The future of predictive maintenance in rail: Opportunities, challenges and innovations
6. AI...is it genuinely new or has it been around for years? Which AI developments are really making a difference in the transport/rail world?
7. How does the audience experience developments around the rail data space and similar initiatives and what are chances and risks from those
8. Boots OFF ballast - using digital solutions to eliminate on track inspection
9. Enhancing Rail Industry Efficiency through Integrated IoT and Big Data Solutions in EAM and APM
10. Data access independent from OEM: challenges and opportunities
11. What is stopping the rail industry from realising the benefits of IoT and Big Data?
12. High Speed Rail inspection: what challenges for network operators and maintainers
13. Envisioning the Next Generation of Infrastructure Monitoring
14. Low Earth Orbit Connectivity – the Role of Satellite in the Digital Transformation of Rail
15. From Fragmented to Connected: How can interoperable data spaces foster collaboration and fuel AI-powered solutions.

○ 15:30

Chairman's Closing Comments & End of Conference

THE VENUE

Maritim Hotel Köln

The Maritim Hotel Köln is situated right on the banks of the Rhine, in the heart of the city, very close to the world famous Cathedral and the main railway station. The trade fair centre, too, is easily accessible. Many leisure activities can start off on foot, from the hotel, such as exploring the historic old city, a visit to the numerous museums or an event in the Musical Dome as well as the Philharmonic and of course a stroll along the beautiful Rhine promenade.

Heumarkt 20, 50667 Cologne, Germany
 Phone: +49 (0) 221 2027-0
 Reservation phone: +49 (0) 221 2027-849
www.maritim.com



DELEGATE RATES

Conference delegate fee includes:

- Two-day conference and exhibition pass
- Complimentary drinks reception at the end of day 1
- A reserved seat at the gala networking dinner on the evening of day 1
- Participation to the roundtable discussion groups
- Full delegate conference pack
- Lunch and refreshments on both days
- Presentation materials post event

Infrastructure Managers, Train Operators, Transport Authorities & Academics:

£395

Technology Providers, Suppliers, Leasing & Engineering Companies, Manufacturers and Consultants:

£1,595

If you have a question about the event or how you can be involved, please contact Ben Holliday at:

ben.holliday@rotaiamedia.com or 0044 (0)7904 374271

MARKETING OPPORTUNITIES

Does your company have the solutions to help global Infrastructure Managers and Train Operating Companies fulfil their increasingly critical digitalisation and maintenance goals during a period when they are seeking help and expertise?

If the answer is YES, there are numerous opportunities at the conference to promote your expertise:

- Make a presentation to an audience of existing and prospective clients and highlight how your solutions can help them achieve their goals and objectives
- Host a roundtable discussion group to attract prospective clients to meet with you and discuss how your solutions and expertise can help overcome their challenges
- Sit on a panel discussion debate with your existing and prospective clients to discuss the industry's most pressing topics which will raise your company's profile as a thought leader in your field
- Have an exhibition stand which acts as a focal point to meet face-to-face with your existing and prospective clients and showcase your solutions
- Benefit from a targeted marketing campaign in advance of the event and align your brand with existing and prospective clients who are also supporting the event
- Reduce your overheads and meet with your existing and potential clients in one place
- Differentiate your expertise from that of your competition when they are targeting the same prospective clients



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I truly believe this is the best and most perfect event in the industry. The event not only fosters innovation, but it also strengthens the community within the rail sector!

Project Leader IoT | SNCF

Unlike most conference organisers who offer standard sponsorship packages, at Rotaia Media we create and design bespoke sponsorship packages for each individual client. In doing this, you can be assured that you are investing in a tailored solution to help you meet and exceed your objectives.

If you are interested in discovering how you can raise your profile at the event, influence your prospective clients and build future business relationships, please contact Ben Holliday at:

ben.holliday@rotaiamedia.com or 0044 (0)7904 374271.

ABOUT THE ORGANISER

ROTAIA MEDIA was founded by Ben Holliday, a publishing and events specialist with more than 21 years of experience of specifically working in the rail sector.



With a wealth of knowledge of the international rail industry and a successful delivery record in delivering business opportunities for his clients, Ben has established close relationships with the owners and board level management of Railway Infrastructure Managers, Train Operators, national and local Transport Authorities and leading rail industry suppliers from around the globe.

Ben has a formidable reputation for delivering outstanding value to his rail sector clients.

By choosing to work with ROTAIA MEDIA, you are being given the ideal platform to engage face to face with your target audience – key buyers of infrastructure and rolling stock solutions. ROTAIA MEDIA's goal is simply: to match buyer requirements with expert solutions. We exist to help you to help them.

Ben Holliday

Founder & Managing Director

ROTAIA MEDIA

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Thank you so much for your excellence in delivering outstanding events for Rail. You are truly making a positive impact for the industry and we, all from Nexxiot, are grateful to be able to join you on this journey

Marketing Director | Nexxiot



ALPINE RAIL

BY ROTAIA MEDIA OPTIMISATION



VIENNA | 21ST OCTOBER 2025

UNPRECEDENTED RAIL INVESTMENT DRIVING DIGITAL TRANSFORMATION IN THE ALPINE REGION

The rail operators and infrastructure managers of the Alpine region are leading a new era of digital transformation, driven by the undeniable link between modern railways and economic growth. Recognising the need for integrated, inclusive, and environmentally sustainable mobility, the Alpine railways are committing to historic levels of rail investment in digitalisation: Deutsche Bahn: €86 billion, ÖBB €21 billion, RFI €94 billion, SNCF €46 billion and SBB €22 billion!

For organisations looking to retain, or expand their market share in the Alpine rail market, now is the time to be forefront of mind with the key buyers from the region. This conference offers an exclusive platform to not only engage directly with infrastructure managers and rail operators driving these investments into digitalisation, but to ensure that their solutions are recognised as pivotal to this unprecedented investment era.

For speaking, exhibiting and sponsoring opportunities, please contact:
Ben Holliday: ben.holliday@rotaiaimedia.com

www.alpinerailoptimisation.com