

 **17-21**  
**Sept. 2024**

 **Vienna, Austria**  
Aula der Wissenschaften



The world's largest conference  
on railway safety.

**LIVING SAFETY.**  
**SHAPING TOMORROW.**  
**CONFERENCE**  
**PROGRAM**

Update: 18 SEPT 2024

partner

 Federal Ministry  
Republic of Austria  
Climate Action, Environment,  
Energy, Mobility,  
Innovation and Technology

**SIEMENS**

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 RAILWAY  
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# OVERVIEW

	Tuesday 17.SEP	Wednesday 18.SEP	Thursday 19.SEP	Friday 20.SEP	Saturday 21.SEP
Morning		Doors Open & Registration from 07:30	Doors Open & Registration from 07:30	Doors Open & Registration from 07:30	
		Opening Ceremony <b>Living Safety</b> 09:00 – 10:15	<b>Tunnel Safety: Key Challenges, Experiences and New Technologies</b> 08:30 – 10:15	<b>Safety Culture: Safety in Transition (Part 1)</b> 08:30 – 10:30	<b>Technical Visit 3</b> #semmering base tunnel on going construction site visit Southern Railway Museum and Semmering Railway World Heritage Site Mürzzuschlag 09:00 – 17:00
Afternoon		Coffee Break Exhibition 10:15 – 10:45	Coffee Break Exhibition 10:15 – 10:45	Science World Café "Safety Culture" E-Poster Tour#1 & Coffee Break 10:30 – 11:30	
		<b>Safety on Track: The transformation of CCS (Control Command and Signalling)</b> 10:45 – 13:00	<b>New Technologies &amp; Methodologies Increasing Resilience &amp; Safety</b> 10:45 – 13:00	<b>Safety Culture: Safety in Transition (Part 2)</b> 11:30 – 13:15	
		Lunch Break Exhibition 13:00 – 14:00	Lunch Break Exhibition 13:00 – 14:00	<b>20years European Union Agency for Railways and Conference Closing</b> 13:15 – 14:00	
		<del>Technical Visit 1 #servicejet New ÖBB Rescue Train 13:30 – 16:00</del> <b>Due to the weather conditions, Technical Visit 1 has been postponed to Friday.</b>	<b>Rail Freight: Game Changing Technologies Increasing Safety</b> 14:00 – 15:30	Walking Lunch & Science World Café "Safety Culture" E-Poster Tour#2 14:00 – 15:00	
Evening		Coffee Break Exhibition 15:30 – 16:00	Coffee Break Exhibition 15:45 – 16:15	<b>Technical Visit 1</b> #servicejet New ÖBB Rescue Train time tbc	
		<b>Level Crossing: Rail X Road – Innovations to Increase Safety</b> 16:00 – 17:30	<b>Safety Aspects and Challenges in Passenger Transportation</b> 16:15 – 17:45	<b>Technical Visit 2</b> #nightjet New ÖBB Night Train ÖBB Technical Services Workshop 15:30 – 17:30	
	Stakeholder Meetings Lassallestrasse 5 17:00 – 18:30			<b>Core Group Meeting</b> Start: 18:00 ÖBB Headquater Am Hauptbahnhof 2	
	Welcome Reception @ ÖBB Open Innovation Factory Vienna Lassallestrasse 5 18:30 – 22:00	Gala Dinner @ Palais Ferstel Start: 19:00 Strauchgasse 4	Get - together @ Albertina Start: 19:00 Albertinaplatz 1		



## Conference Location

Aula der Wissenschaften  
Wollzeile 27A  
1010 Vienna

**LIVING SAFETY. SHAPING TOMORROW.**

## Session 1.1 | Opening Ceremony “Living Safety”

09.00 - 10.15

### Conference Opening

Andreas Matthä, CEO ÖBB-Holding AG, AT

### Opening Keynote

Leonore Gewessler, Federal Minister for Climate Action, Environment, Energy, Mobility, Innovation and Technology, AT

### Executive Talk “Living Safety”

Ansgar Brockmeyer, Executive Vice President Marketing and Sale Stadler Group, CH

Francois Davenne, Director General UIC, FR

Josef Doppelbauer, Executive Director European Union Agency for Railways, FR

Gerhard Greiter, CEO Region North-East Europe Siemens Mobility, DE

Vera Hofbauer, Director General Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology, AT

Gudrun Senk, CTO Wiener Linien GmbH & Co KG, AT

Piotr Sieczkowski, Rail Safety and Interoperability Unit in Directorate-General for Mobility and Transport in the European Commission, BE

Manuela Waldner, CFO ÖBB-Holding AG, AT

10.15 - 10.45 Coffee Break

## Session 1.2 | Safety on Track: The Transformation of CCS (Control Command and Signalling)

10.45 - 13.00

### Keynote “Paving the Way to a Successful ERTMS Rollout – Together!”

Enno Wiebe, Director General UNIFE, BE

### Keynote “The transition period in Europe”

Marc Trippel, Executive Vice President Division Signalling/CEO Stadler Signalling AG, CH

### Keynote “Connected Train Operation - Next Level”

Christos Roumoglou, Head of Business Development Train Control at Siemens Mobility GmbH, DE

### Executive Talk “The Transformation of CCS”

Christos Roumoglou, Head of Business Development Train Control at Siemens Mobility GmbH, DE

Mark Topal-Gökceli, CTO ÖBB-Holding AG, AT

Giorgio Travaini, Executive Director Europe’s Rail JU, BE

Marc Trippel, Executive Vice President Division Signalling/CEO Stadler Signalling AG, CH

Enno Wiebe, Director General UNIFE, BE

Piotr Sieczkowski, Rail Safety and Interoperability Unit in Directorate-General for Mobility and Transport in the European Commission, BE

Moderator: Jens Engelmann, Managing Director railiable, DE

### Is Automatic and Unmanned Shinkansen Operation Possible in Terms of Safety?

Katsuyuki Sasaki, East Japan Railway Union JREU, JP

13.00 - 14.00 Lunch Break

## Session 1.3 | Rail Freight: Game Changing Technologies Increasing Safety

14.00 - 15.30

### **Keynote “Embracing New Realities in Rail Freight”**

Gilles Peterhans, Secretary General UIP – International Union of Wagon Keepers, BE

### **Keynote “Applying Technologies to Improve Safety and Rail Market Share”**

Matt Soule, CEO Parallel Systems, US

### **Executive Talk “Game Changing Technologies Increasing Safety in Rail Freight”**

Bart Accou, Head of Safety & Operations - European Union Agency for Railways, FR

Constanze Bannholzer, Digital Automatic Coupling (DAC) Program Manager ÖBB-Holding AG, AT

Stefan Kirch, CCO Nevomo, PL

Paolo Pagliero, Vice President of Transit Engineering Wabtec Corporation, IT

Gilles Peterhans, Secretary General UIP – International Union of Wagon Keepers, BE

Matt Soule, Parallel Systems, US

Enno Wiebe, Director General UNIFE, BE

Moderator: Sebastian Sperker, Head of Service Design Rail Cargo Austria AG, AT

15.30 - 16.00 Coffee Break

## Session 1.4 | Level Crossings: Rail X Road – Innovations to Increase Safety

16.00 - 17.30

### **Intelligent Safety for Light Rail Operations**

Billy Tam W.P, MTR Corporation, CN

### **Keynote “Returning Home Safely: Innovative Solutions to Address Level Crossing Risk”**

Karen Philbrick, Executive Director Mineta Transportation Institute, US

### **Keynote “The Level Crossing System in Great Britain: Risk Management Now and in the Future.”**

Robert Wainwright, Head of Level Crossings and Public Safety Network Rail, UK

### **Executive Talk “Level Crossings - Innovations to Increase Safety”**

Peter Doggett, COO ONRSR Rail Safety Regulator, AU

Michael Luczensky, Head of Directorate / Railways - Federal Ministry for Climate Action, Environment,

Energy, Mobility, Innovation and Technology, AT

Karen Philbrick, Executive Director Mineta Transportation Institute, US

Christian Sagmeister, Division Manager Railway Systems of ÖBB-Infrastruktur AG, AT

Robert Wainwright, Head of Level Crossings and Public Safety, Network Rail, UK

Moderator: Ann Mills, Deputy Director System Safety & Health, RSSB, UK

WED 18

THU  
19 SEPT

FRI 20

## Session 2.1 | Tunnel Safety: Key Challenges, Experiences and New Technologies

08.30 - 10.15

### **Keynote "ÖBB Tunnel-Projects and Respective Safety Aspects"**

Judith Engel, Member of the Management Board of ÖBB-Infrastruktur AG, AT

### **Keynote "Enhancing Railway Tunnel Safety - A Journey Through Innovation and Experience, Lessons from Eurotunnel and Beyond"**

Ali Chegini, Director Eurotunnel, UK

### **Executive Talk "Safety in Railway Tunnels"**

Markus Bolli, Founder and CEO Suprexa AG, CH

Ali Chegini, Director Eurotunnel, UK

Judith Engel, Member of the Management Board of ÖBB-Infrastruktur AG, AT

Tshepo Kgobe, CEO Gautrain, ZA

Moderator: Dietmar Zierl, BOKU University Vienna, Institut of Transport Studies, AT

### **Keynote "The New Stadler Rescue-Train"**

Stefan Bernsdorf, Senior Project Manager, Stadler Bussnang AG, CH

### **Best Practices Benchmarking on Tunnel Safety in Europe**

Henri Dupuis, Responsible Of International Affairs at EPSF (Etablissement public de sécurité ferroviaire), FR

### **Innovative Safety Systems for Austria's Super-Long Railway Tunnels**

Florian Diernhofer, Team Leader/Project Manager ILF Consulting Engineers, AT

### **The Pathway Towards Sustainable Railway – Catastrophic Flooding Preparedness**

Ian Leung, Senior Engineer Railways EMSD, CN

10.15 - 10.45 Coffee Break

## Session 2.2 | New Technologies & Methodologies Increasing Resilience & Safety

10.45 - 13.00

### **Keynote "Interlocking in the Cloud: Efficient, Redundant, Safe"**

Sonja Steffens, Project Head Safety Platform of Siemens Mobility GmbH, DE

### **Keynote "RISE: Safeguarding Structural Health for Steel Bridges"**

Christoph Schwald, Executive Vice President Research, Development & Innovation, TÜV Austria, AT

Franz Forstlechner, Bridges Specialist of ÖBB-Infrastruktur AG, AT

### **Common Safety Indicators: Lessons Learned after 20 Years. How do they Assess Safety Performance?**

Stephen Queva, National and International lesson learning adviser EPSF, FR

### **Improve Occupational Safety in Shunting with Innovations, Rethink Established Methods**

Karin Hesse, Safety & security director freight train Green Cargo, SW

Jens Lindgren, Traffic safety manager Green Cargo, SW

### **Going Beyond Human Error in Incident Investigations to Create Real World Solutions for Railway Construction**

Charlotte Kaul, Senior Human Factors Consultant Systra, UK

### **Enhancing High-Speed Train Operations with the Random Forest Algorithm for Predictive Control Methodology**

Susu Huang, Research Associate China Academy of Railway Sciences Co. Ltd, CN

# LIVING SAFETY. SHAPING TOMORROW.

## Identify and Manage your Safety Critical Components for Improving the Safety in Railways

Nathalie Duquenne, Engineer European Union Agency for Railways, FR

## Case Study - Factors Affecting Decision-making for Track Safety Management

Deepak Budhram, Head of Research and Technical Skills Development of Railway Safety Regulator, ZA

## Exploring the Effectiveness of Driver Attention and Alertness Monitoring Technology for GB Railway

Paul Leach, Head of Human Factors RSSB, UK

13.00 - 14.00 Lunch Break

## Session 2.3 | Controlling the Risk

14.00 - 15.45

### Keynote "Mount Everest and beyond!"

Evelyne Binsack, Mountain Guide, Writer, Speaker, CH

### Keynote "Train-meets-Plane"

Peter Woditschka, Pilot Austrian Airlines, AT

### Executive Talk "Controlling the Risk – Reaching to the Stars... Without Falling Down"

Manfred Arndt, Executive Board Advisor, former CEO & Founder of voestalpine SIGNALING Siershahn GmbH, DE  
Evelyne Binsack, Mountain Guide, Writer, Speaker, CH

Bettina Castillo, Member of the Management Board of Rail Cargo Austria AG, AT

Natalie Loughborough, Executive Director - Rail/Public Transport at NTRO, AU

Esther Mateo, General Director of Security, Processes and Corporate Systems ADIF, ES

Johann Pluy, Member of the Management Board of ÖBB-Infrastruktur AG, AT

Peter Woditschka, Pilot Austrian Airlines, AT

Moderator: Mark Topal-Gökceli, CTO ÖBB-Holding AG, AT

15.45 - 16.15 Coffee Break

## Session 2.4 | Safety Aspects and Challenges in Passenger Transportation

16.15 - 17.45

### Keynote "Safety Aspects in Unattended Train Operation (UTO)"

Gudrun Senk, CTO Wiener Linien GmbH & Co KG, AT

### Keynote

Tshepo Kgobe, CEO Gautrain, ZA

### AI Analytics in Escalator Safety Incident Management

Zoe Tse, General Manager - Operations Safety & Quality MTR Corporation, CN

### UIC Projects on Hydrogen; a General Approach to the Risk Analysis

Francisco Cabrera, Deputy Head of Operations and Safety UIC, FR

### Authorization Experience in Hydrogen Trains on the Spanish Railway Network

Ines Vadillo, Head of Sustainability R&D&I Projects, ADIF, ES

### Autonomous Detection and Alert with Cutting-edge Computer Vision Enhancing Platform Safety

Wai Pan Tam, Senior Technology Development Manager – Operations Systems, MTR Corporation, CN

## Session 3.1 | Safety Culture: Safety in Transition (Part 1)

08.30 - 10.30

**Keynote "Mental Health, Well-being, and Resilience for Transport Workers: Current Research and Practical Applications for Safety Culture Development"**

Karen Philbrick, Executive Director Mineta Transportation Institute San Jose State University, US

**Keynote "How can an Authority Contribute to Foster Safety Capabilities? About the ERA Training Catalogue and Qualification Schemes"**

Gregory Rolina, Program Manager European Union Agency for Railways, FR

**Keynote "Safety Culture, Friend, or Foe?"**

Thom Koning, Expert Investigating Safety Culture, NL

**Keynote "Psychological Anticipation as a Powerful Tool to Prevent Accidents"**

Thomas Müller, Criminal Psychologist Profiler, AT

**Executive Talk "Safety Culture: Safety in Transition"**

Klaus Garstenauer, Member of the Management Board of ÖBB-Personenverkehr AG, AT

Thom Koning, Expert Investigating Safety Culture, NL

Thomas Müller, Criminal Psychologist Profiler, AT

Karen Philbrick, Executive Director Mineta Transportation Institute San Jose State University, US

Gregory Rolina, Program Manager European Union Agency for Railways, FR

Moderator: Michaela Schwarz, ÖBB-Produktion GmbH, AT

10.30 - 11.30 **Science World Café "Safety Culture"** (Tour#1) & Coffee Break

## Session 3.2 | Safety Culture: Safety in Transition (Part 2)

11.30 - 13.15

**Safety Culture Peer Review: a New Tool to Measure Safety Culture Progress in Rail Sector**

Virginie Papillault, Manager of Human & Organisational Factors - Safety Culture UIC, FR

**Safety Culture @ JREU**

Makoto Kato, East Japan Railway Union JREU, JP

**Development of Technology for Preventing Human Error Accidents in Railway Operations**

C.W. Park, Korea Railroad Research Institute, KR

**Cooperation between SNCF and UIC for the Use of Machine Learning Tool on Safety Databases**

Guillaume Foeillet, Group Safety Project Manager SNCF, FR

**Evaluating Safety Culture of European Railways**

Krzysztof Zubilewicz, Project Officer ERA, FR

## Session 3.3 | 20years European Union Agency for Railways and Conference Closing

13.15 - 14.00

**20years European Union Agency**

Josef Doppelbauer, Executive Director European Union Agency for Railways, FR

Bart Accou, Head of Safety & Operations European Union Agency for Railways, FR

**Closing of the IRSC2024**

incl. Presentation IRSC2025

14.00 - 15.00 **Walking Lunch & Science World Café "Safety Culture"** (Tour #2)

## E-Papers @ Science World Café “Safety Culture”

Ian Leung	CN	Hauling Rope Condition Monitoring System for Peak Tramway System	EMSD	Senior Engineer Railways
C. F. Chan	CN	AI Interacted Automated Testing of Railway Signalling System	EMSD	Senior Engineer Railways
Ernest Y. F. Li	CN	Real-time Monitoring and Data Analytics System for Overhead Line Wire Tensioning with Balance Weight Assemblies in Railways	EMSD	Senior Engineer Railways
Yang Zhao	CN	The Application of Safety Integration Technology in the Intelligent High-speed Railway Train Control System	China Academy of Railway Sciences Co. Ltd/ Signal and Communication Research Institute	
Yeow Chin Shin	SG	Viaduct Bearing Inspection using Drone, Photogrammetry, and AI	Land Transport Authority	Director, Asset Management Steward
Yanhao Sun	CN	Research on Human Error in High-Speed Railway Train Dispatchers Based on Interval Type-2 Fuzzy Sets and Weighted CREAM Method	China Academy of Railway Sciences Co. Ltd/ Signal and Communication Research Institute	
Parveen Kumar Pathak	IN	Culture/Safety Performance/Safety Transition	DMRC	General Manager / Safety (Operation & Maintenance)
Peaceman Sopazi	ZA	Training of nominated managers...	Railway Safety Regulator	Head: Technology, Standards, & Training
Nathalie Duquenne	FR	A newsletter to provide valuable insights into European railway accident trends, lessons learned, and safety practices.	EMSD	Project Officer
Francisco Garcia Franco	ES	Integration safety culture and human and organisational factors, in the company, since before beginning the operation	ILSA Intermodalidad de Levante	Director Safety & Quality
Zoe Tse	CN	Just Culture Implementation and Psychological Safety	MTR Corporation	General Manager - Operations Safety & Quality
Juan Luis Fuentes de Blas	ES	A Just Culture Policy in ADIF	ADIF	Head of Safety Culture
David Gomez-Rey Romero	ES	Safety Notification System in Adif: “Better all together”	ADIF	Director of Traffic Safety
Tayakorn Chandrangsu	TH	The study of Thailand’s rail vehicle regulatory safety standards and electronic applications for rail vehicle approval and registration	DRT	Director of Safety and Maintenance Standards Division
David Gomez-Rey Romero Juan Luis Fuentes de Blas	ES	Safety Leadership Empowerment	ADIF	Director of Traffic Safety Head of Safety Culture