



INTERNATIONAL UNION  
OF RAILWAYS

# International technical cooperation a catalyst of for concerted national responses

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Director General

A railway that supports a green recovery as the **backbone of sustainable mobility**. Connectivity that contributes to healthy and sustainable lifestyles and economies on every continent – that is zero emissions, a community hub, accessible for all, and is both biodiverse and a good neighbor.



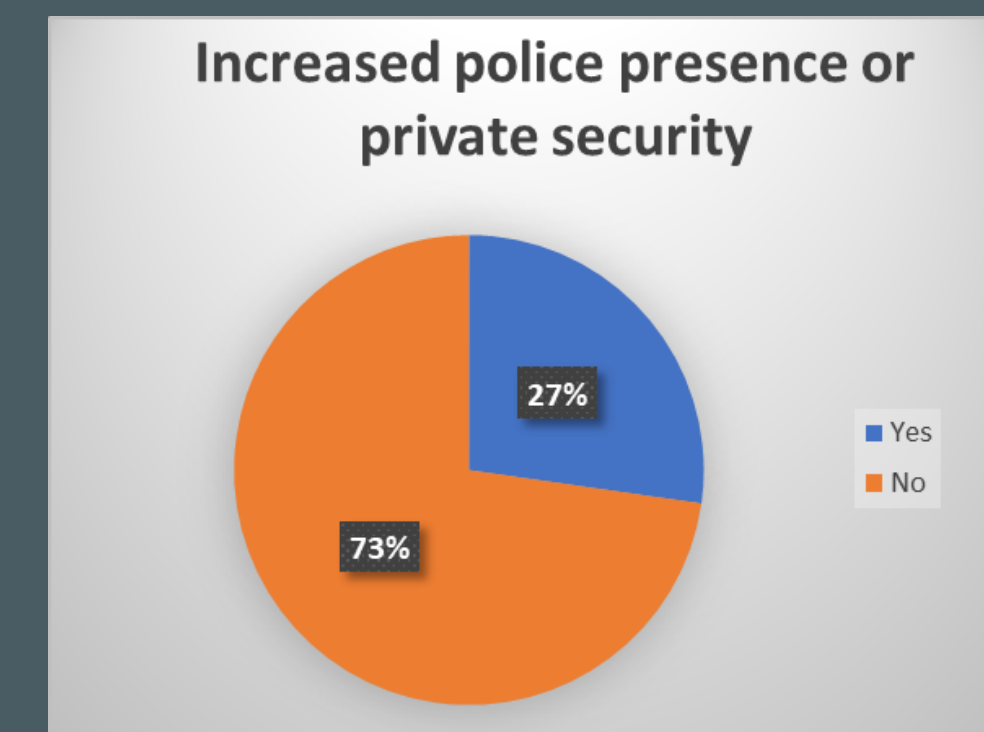
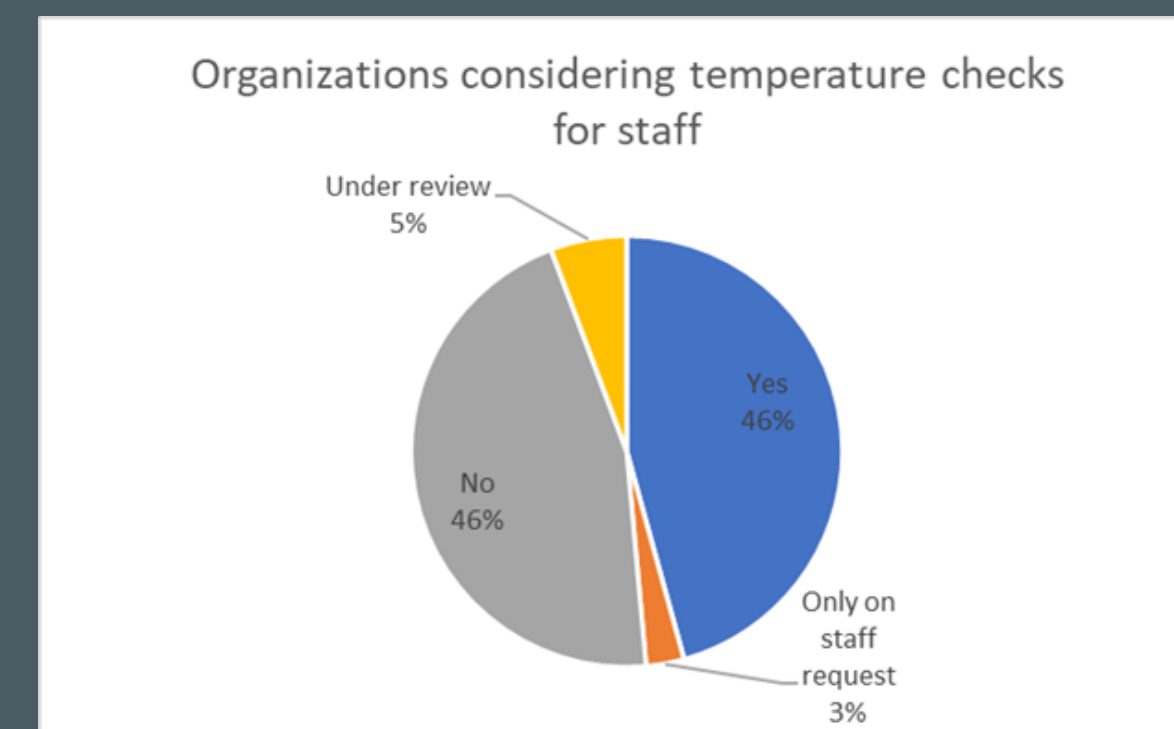
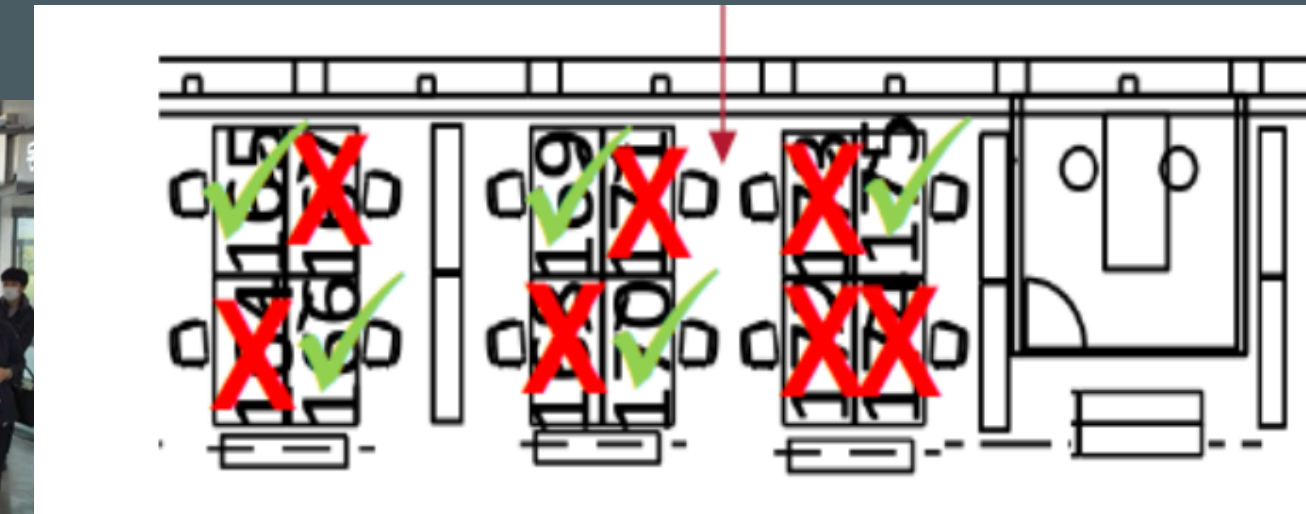
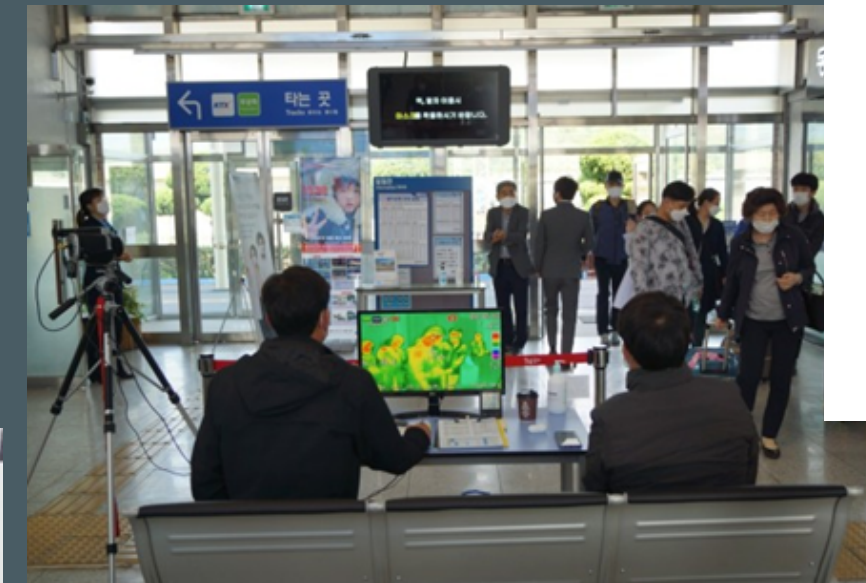
## Our Vision

**Make modal shift desirable**



# RAILsilience - Back on the track

- **Passenger service resumption post-confinement**
  - Measure differentiation
  - New technologies
  - Communication campaigns
- **Freight service post-lockdown**
  - Measures to recover freight business
  - Measures to recover confidence
- **Staff confidence**
  - Back to work measures
  - Measure differentiation
  - Staff trainings
- **Security issues:**
  - Assurance of passengers' feeling of security
  - Increased police presence or private security
  - Security technologies to manage crowds
- **Ethical/legal issues**



## INTEGRATING MAJOR TECHNICAL BREAKTHROUGHS

- Digitalisation
- 5G
- Automation
- Artificial Intelligence
- Overcoming cyber risks

## ACCELERATING THE CYCLE OF INNOVATION

### RAILWAY BECOMES THE BACKBONE OF THE OVERLAND MOBILITY

- Offer the end-users (passengers and freight) an easier and seamless access to a portfolio of sustainable mobility
- For passengers: Mobility as a Service (MaaS)
- For freight: to transform rail freight into a high-performing, efficient and sustainable backbone transport system for a European multimodal logistics industry (Rail Freight Forward 2018) <sup>(1)</sup>



# Designing a desirable « New Normal »

## Developing a sense of urgency:

- A non-linear environment
- Ten years to make our systems smart.
- selecting transformational projects

- ⇒ UIC post Covid new normal white paper
- ⇒ 30/11, UIC centenary symposium: Which Railways in 5,10 and 15 years



**Services to the end user:**

- Digital ticketing
- Stations / Freight hubs

**Safety and Security:**

- Cyber Security
- Safety for ATO

**Network Productivity:**

- Smart Traffic Management systems
- Modelling (RTM)



**Stay in touch with UIC!**

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**Thank you for your kind attention**