



NATIONAL RAIL SAFETY CONFERENCE & KNOWLEDGE FORUM

Advancing Safety Leadership • Connecting Knowledge •
Inspiring Railway Transformation

A Premier National Knowledge Initiative of the
All India Rail Safety Council (AIRSC)

A NATIONAL PLATFORM FOR RAILWAY SAFETY EXCELLENCE



SAFETY
LEADERSHIP



TECHNICAL
KNOWLEDGE
EXCHANGE



RESEARCH
COLLABORATION



INSTITUTIONAL
ENGAGEMENT



RESPONSIBLE
INNOVATION



PASSENGER-
CENTRED
TRANSFORMATION

RAILWAYS • METRO • HIGH-SPEED RAIL • FREIGHT • SIGNALLING • DIGITAL TECHNOLOGIES

CONNECTING EXPERTISE • EXAMINING CHALLENGES • EXPLORING PRACTICAL SOLUTIONS



TRANSFORMING COLLECTIVE KNOWLEDGE INTO ACTION
THAT PROTECTS PEOPLE, INFRASTRUCTURE AND NATIONAL MOBILITY

KNOWLEDGE FOR SAFETY • LEADERSHIP FOR TRANSFORMATION

ALL INDIA RAIL SAFETY COUNCIL



RAILWAY
VISION 2047



ATMANIRBHAR
BHARAT



VIKSIT
BHARAT 2047



DIGITAL
INDIA



MAKE IN
INDIA



SKILL
INDIA



SUSTAINABLE &
GREEN MOBILITY

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NATIONAL RAIL SAFETY CONFERENCE & KNOWLEDGE FORUM

CONNECTING LEADERSHIP, KNOWLEDGE & PRACTICE

Advancing Safety Leadership • Connecting Knowledge • Inspiring Railway Transformation

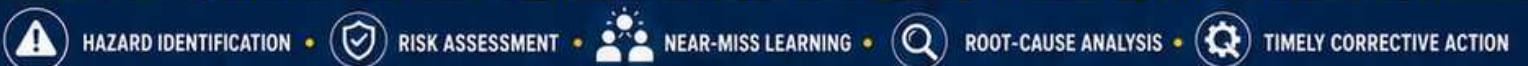
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 ACCIDENT PREVENTION	 INFRASTRUCTURE & OPERATIONAL RELIABILITY	 PASSENGER & WORKFORCE SAFETY	 SIGNALLING, KAVACH & TRAIN PROTECTION	 AI, DIGITAL TWINS & CYBERSECURITY	 HUMAN FACTORS & SAFETY CULTURE
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METRO • HIGH-SPEED RAIL • FREIGHT • CLIMATE RESILIENCE • SUSTAINABLE MOBILITY • ACCESSIBILITY



FROM DISCUSSION TO RECOMMENDATIONS • PARTNERSHIPS • KNOWLEDGE PAPERS • PRACTICAL SAFETY ACTION

LEARN FROM EVIDENCE • ACT BEFORE RISKS BECOME ACCIDENTS

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NATIONAL RAIL SAFETY CONFERENCE & KNOWLEDGE FORUM

PEOPLE • INFRASTRUCTURE • CULTURE • COMPETENCE

Advancing Safety Leadership • Connecting Knowledge • Inspiring Railway Transformation

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SAFETY • ACCESSIBILITY • DIGNITY • CONFIDENCE • WELLBEING

TRACKS • BRIDGES • TUNNELS • STATIONS • ROLLING STOCK • SIGNALLING • ELECTRICAL SYSTEMS



PASSENGER SAFETY & PUBLIC CONFIDENCE



INFRASTRUCTURE RESILIENCE & ASSET INTEGRITY



HUMAN FACTORS & ORGANISATIONAL SAFETY CULTURE



WORKFORCE COMPETENCE & LEADERSHIP DEVELOPMENT



SAFETY • ACCESSIBILITY • DIGNITY
• CONFIDENCE • WELLBEING



TRACKS • BRIDGES • TUNNELS
• STATIONS • ROLLING STOCK
• SIGNALLING • ELECTRICAL SYSTEMS



COMMUNICATION • TEAMWORK • FATIGUE
• WORKLOAD • SITUATIONAL AWARENESS
• ACCOUNTABILITY



TECHNICAL CAPABILITY • ETHICAL
LEADERSHIP • PUBLIC SERVICE
• CONTINUOUS LEARNING



ACCESSIBLE & DIGNIFIED TRAVEL



PUBLIC AWARENESS



RISK-BASED INSPECTION



PREDICTIVE MAINTENANCE



FAIR HAZARD REPORTING



CONTINUOUS TRAINING



COMPETENT PEOPLE • RESILIENT ASSETS • TRUSTED RAILWAYS

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MAKE IN INDIA



SKILL INDIA



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NATIONAL RAIL SAFETY CONFERENCE & KNOWLEDGE FORUM

TECHNOLOGY • AI • SIGNALLING • CYBER RESILIENCE

Connecting Expertise • Inspiring Innovation • Building Safer Railways

A Premier National Knowledge Initiative of the All India Rail Safety Council (AIRSC)



KAVACH • CBTC • ETCS • FRMCS • LTE-R • 5G RAIL NETWORKS

RELIABLE • VALIDATED • SECURE • INTEROPERABLE • HUMAN-CENTRED

INNOVATION MUST SOLVE REAL SAFETY PROBLEMS

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NATIONAL RAIL SAFETY CONFERENCE & KNOWLEDGE FORUM

EMERGENCY PREPAREDNESS • CLIMATE RESILIENCE • SUSTAINABLE RAILWAYS

Safe Railways • Protected Lives • Resilient Nation

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CLIMATE & INFRASTRUCTURE MONITORING



RAINFALL
MONITORING



FLOOD
MONITORING



HEAT
MONITORING



SLOPE MOVEMENT
MONITORING



STRUCTURAL &
DRAINAGE SENSORS



INCIDENT COMMAND
& COMMUNICATION



PASSENGER
EVACUATION & RESCUE



MEDICAL & INTER-AGENCY
COORDINATION



CLIMATE-RESILIENT
INFRASTRUCTURE



GREEN & SUSTAINABLE
MOBILITY



INCIDENT COMMAND POST



PREPAREDNESS CYCLE



PREVENT



PREPARE



RESPOND



RECOVER



LEARN

CLIMATE SCOPE



HEAT • FLOODS • HEAVY RAINFALL
• LANDSLIDES • CYCLONES

GREEN SCOPE



RENEWABLE ENERGY • HYDROGEN • BATTERY SYSTEMS
• WATER CONSERVATION • WASTE MANAGEMENT

ENVIRONMENTAL PROGRESS MUST ADVANCE WITH SAFETY



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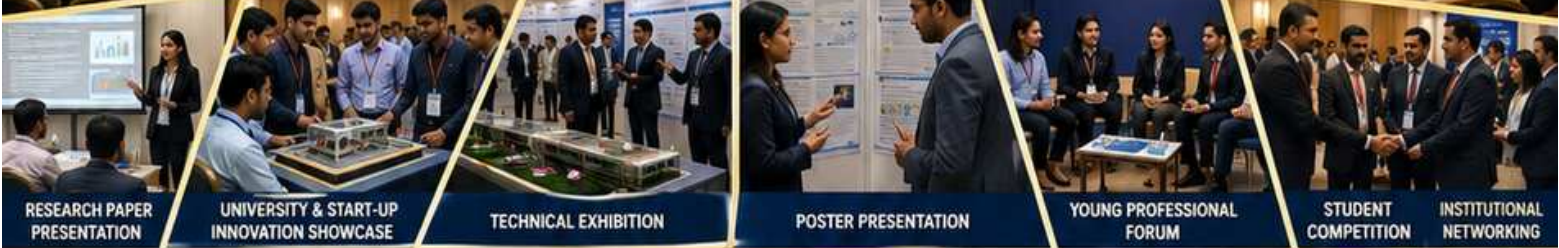


NATIONAL RAIL SAFETY CONFERENCE & KNOWLEDGE FORUM

RESEARCH • INDIGENOUS INNOVATION • KNOWLEDGE LEGACY

Knowledge for Safety • Collaboration for Progress • Leadership for Transformation

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RESEARCH & INDIGENOUS CAPABILITY



PROFESSIONAL KNOWLEDGE NETWORKS



DISTINGUISHED PARTICIPATION



CONFERENCE & LEARNING FORMATS



RECOGNITION OF EXCELLENCE



OUTCOMES & KNOWLEDGE LEGACY

KEYNOTES • PLENARIES • PAPERS • PANELS • ROUNDTABLES • WORKSHOPS • EXHIBITIONS • YOUNG PROFESSIONAL FORUMS

KNOWLEDGE LEGACY



PROCEEDINGS



TECHNICAL SUMMARIES



THEMATIC REPORTS



RESEARCH PRIORITIES



PARTNERSHIPS



PROFESSIONAL RECOMMENDATIONS

KNOWLEDGE SHARED • PARTNERSHIPS CREATED • RISKS BETTER UNDERSTOOD • SAFETY IMPROVEMENTS INSPIRED



CONNECTING EXPERTISE
• INSPIRING INNOVATION •
BUILDING SAFER RAILWAYS



SAFE RAILWAYS
• PROTECTED LIVES •
RESILIENT NATION



RAILWAYS—THE
LIFELINE OF OUR NATION



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