



RAILWAY VISION 2047

CONNECTING PROGRESS • PROTECTING LIVES • STRENGTHENING THE NATION

A Strategic Vision Initiative of the
ALL INDIA RAIL SAFETY COUNCIL (AIRSC)

SAFE RAILWAYS • SMART MOBILITY • SUSTAINABLE GROWTH • STRONGER INDIA



Railway Vision 2047—Connecting Progress, Protecting Lives, Strengthening the Nation is a forward-looking strategic vision initiative of the All India Rail Safety Council (AIRSC). It articulates AIRSC's aspiration for a safe, intelligent, inclusive, resilient and globally competitive railway and metro ecosystem as India advances towards the centenary of its Independence in 2047.



Indian Railways is more than a transportation network. It is a national lifeline that connects people, communities, markets, industries, ports, educational institutions and centres of opportunity. It supports economic growth, social inclusion, cultural exchange, national integration and strategic mobility. Railway Vision 2047 recognises that the future of India's development will be closely connected to the safety, reliability, capacity and sustainability of its railway and urban-transport systems.



As India moves towards **Viksit Bharat 2047**, railway transformation must combine technological progress with an unwavering commitment to human life. Faster trains, modern stations, high-capacity corridors and digital systems will achieve their full national value only when supported by strong safety governance, competent professionals, resilient infrastructure, responsible passengers and a culture of continuous improvement.



OUR VISION FOR 2047



AIRSC envisions an Indian railway and metro ecosystem that is among the world's safest, smartest, most accessible and most sustainable transportation systems. By 2047, railway safety should be embedded throughout the entire system life cycle—from planning and design to construction, commissioning, operation, maintenance, renewal and modernisation.



The vision is of a **connected India** where railway development reaches every region responsibly; where passengers travel with confidence and dignity; where employees work in safe and professionally supportive environments; and where infrastructure remains reliable under growing demand, technological change and climate-related challenges.



Railway Vision 2047 seeks to help shape a future in which progress and protection advance together. Every new corridor, station, train and digital system should expand national opportunity while improving safety, accessibility, service quality and environmental responsibility.



RAILWAY VISION 2047 MISSION

- ✓ Embed safety as the highest priority across every railway and metro activity.
- ✓ Strengthen safety governance, accountability and organisational culture.
- ✓ Promote innovation, digital transformation and smart railway systems.
- ✓ Build resilient infrastructure for reliable and future-ready mobility.
- ✓ Enhance passenger experience through accessible, inclusive and high-quality services.
- ✓ Develop skilled and empowered railway professionals.
- ✓ Advance sustainable and green mobility for a cleaner, better tomorrow.
- ✓ Foster collaboration among government, industry, academia and communities.
- ✓ Prepare for emerging risks, climate challenges and future uncertainties.
- ✓ Contribute to national development goals through safe, efficient and sustainable rail and metro systems.

OUR COMMITMENT, OUR CONTRIBUTION TO NATION BUILDING



**Atmanirbhar
Bharat**

Self-Reliant India through
Innovation and Capability

**Viksit Bharat
2047**

Building a Developed India
with Safe and Smart Mobility



Indigenous Technology,
Manufacturing and Innovation



Skill India

Skilled Professionals,
Strong Railways



Digital India

Digital Technologies for
Smart and Safe Railways



**SUSTAINABLE &
GREEN MOBILITY**

Cleaner, Greener and
Future-Ready Rail Transport

OUR CORE VALUES



Safety First, Always



Integrity and Transparency



Excellence and Innovation



People Centric



Sustainability and Responsibility



Collaboration and Trust

OUR FOCUS AREAS FOR 2047



SAFE SYSTEMS
Zero Harm,
Zero Compromise



SMART TECHNOLOGY
AI, IoT, Big Data,
Automation



**RELIABLE
INFRASTRUCTURE**
Resilient, Durable,
Future Ready



**PASSENGER
CENTRICITY**
Accessible, Inclusive,
Seamless Journeys



**SKILLED
WORKFORCE**
Competent, Motivated,
Future Ready



**GREEN & SUSTAINABLE
RAILWAYS**
Low Carbon, Energy
Efficient



**OPERATIONAL
EXCELLENCE**
Efficient, Punctual,
Reliable



**SAFETY CULTURE
& LEARNING**
Report, Learn,
Improve



**DISASTER RESILIENCE
& EMERGENCY
PREPAREDNESS**
Prepared, Responsive,
Resilient



**COMMUNITY
PARTNERSHIP**
Together for Safer
Railways



We pledge to work towards a future where every railway and metro journey is safe, every employee returns home safely, every community is connected responsibly and every innovation creates lasting value for the nation.



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**SAFE RAIL
SAFE JOURNEYS**



**INFORMED PASSENGERS
SAFE COMMUNITIES**



**TRUSTED SYSTEMS
STRONG NATION**



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Viksit Bharat
2047

Building a Developed India
Connected • Inclusive • Prosperous



Indigenous Technology
Global Excellence



Skill India

Skilled Professionals
Strong Railways



Digital India

Digital Railways
Smart • Secure • Seamless



SUSTAINABLE &
GREEN MOBILITY

Cleaner • Greener • Resilient
Future-Ready Rail Transport

Railway Vision 2047 aspires to build a safe, intelligent, inclusive, resilient and globally competitive railway and metro ecosystem that powers India's transformation towards a **Viksit Bharat 2047**.



1 SAFETY AS THE FOUNDATION OF RAILWAY TRANSFORMATION

- Safety is the central pillar of Railway Vision 2047.
- Integrated in every policy, investment, engineering decision and operational practice from the beginning.
- A prevention-focused approach built on risk identification, engineering assurance, competent supervision, reliable maintenance, transparent reporting and organisational learning.
- Long-term aspiration to progressively reduce preventable accidents and serious incidents.
- Safer technology • Disciplined operations • Workforce competence • Responsible public behaviour



2 CONNECTING PROGRESS

- Seamless, reliable and affordable mobility connecting every region.
- Integration of conventional rail, high-speed rail, metro, RRTS, suburban systems, freight corridors, buses and other modes.
- Integrated terminals, coordinated information systems and convenient interchanges for smoother journeys.
- Digital connectivity for intelligent ticketing, real-time updates, multilingual assistance and accessible digital platforms.
- Connecting citizens to opportunities • Reducing congestion • Improving accessibility • Supporting economic growth



3 PROTECTING LIVES

- Protecting human life is the highest purpose of Railway Vision 2047.
- Comprehensive attention to passenger safety, workforce protection, track safety, level crossings, electrical systems, fire & life safety, stations, emergency response and public awareness.
- Safe, accessible and inclusive journeys for all—children, senior citizens, women, persons with disabilities and all passengers.
- Zero tolerance for trespassing, unsafe crossings, rooftop travel, dangerous photography and boarding/alighting from moving trains.
- Safety technology + Responsible behaviour = Lives saved
Every informed decision can prevent injury and save a life.



SAFE SYSTEMS
ZERO HARM



SMART TECHNOLOGY
INTELLIGENT OPERATIONS



GREEN & SUSTAINABLE
LOW CARBON FUTURE



SKILLED WORKFORCE
COMPETENT & EMPOWERED



INCLUSIVE MOBILITY
ACCESSIBLE FOR ALL



RESILIENT INFRASTRUCTURE
BUILT TO LAST



STRONG GOVERNANCE
TRANSPARENT & ACCOUNTABLE



GLOBAL EXCELLENCE
WORLD-CLASS STANDARDS

OUR COMMITMENT

AIRSC is committed to advancing safety, knowledge, innovation and collaboration to build a future-ready railway and metro ecosystem that strengthens India today and empowers generations towards Viksit Bharat 2047.



TOGETHER TOWARDS A SAFER, SMARTER AND STRONGER INDIA



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Self-Reliant Railways

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Indigenous Technology
Global Excellence



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Future-Ready Rail Transport

1 MODERN AND RESILIENT INFRASTRUCTURE

- Future-ready tracks, bridges, tunnels, viaducts, stations, depots and electrical installations.
- Condition monitoring, structural-health assessment, remote inspection and predictive maintenance.
- Asset management driven by condition, criticality and life-cycle risk.
- Resilient to extreme heat, flooding, cyclones, landslides, erosion and other climate hazards.
- Integrated design standards, maintenance strategies and emergency preparedness.



Condition
Monitoring



Predictive
Maintenance



Structural
Health



Climate
Resilience



Lifecycle
Management

2 HIGH-SPEED AND NEXT-GENERATION MOBILITY

- Safe and systematic development of high-speed, semi-high-speed and intercity services.
- Stronger track standards, advanced signalling, secure corridors and specialised maintenance.
- Safety assurance from feasibility and design through construction and operation.
- Disciplined interfaces between infrastructure and rolling stock.
- Passenger-focused services and emergency preparedness at every stage.



High-Speed
Corridors



Advanced
Signalling



Secure
Operations



Specialised
Maintenance



Safety
Assurance

3 METRO RAIL AND SUSTAINABLE URBAN MOBILITY

- Safe, affordable and accessible metro rail networks for future cities.
- Integration with buses, suburban railways, walking, cycling and shared mobility.
- Platform-train interface safety, tunnel evacuation, fire protection and ventilation.
- Automatic train operation, crowd management, escalator safety and depot operations.
- Inclusive design, passenger education and inter-agency emergency coordination.



Integrated
Mobility



Passenger
Safety



Fire & Tunnel
Safety



Automatic
Operations



Inclusive
Accessibility

4 FREIGHT, LOGISTICS AND ECONOMIC COMPETITIVENESS

- High-capacity freight corridors and modern terminals to power the economy.
- Multimodal logistics parks and intelligent scheduling for efficiency.
- Safe loading practices, wagon integrity and hazardous-material controls.
- Yard safety, asset inspection and emergency preparedness.
- Digital visibility and predictive logistics for faster, safer freight movement.



Freight
Corridors



Logistics
Parks



Digital
Visibility



Safe
Operations



Economic
Growth

5 PASSENGER SAFETY AND SERVICE EXCELLENCE

- Well-managed platforms, clear signage and responsible crowd movement.
- Reliable announcements, secure access and effective emergency communication.
- Punctual, comfortable, clean and accessible services for every passenger.
- Timely information and responsive grievance redressal during disruptions.
- Use of feedback, surveys and data for continuous improvement.



Safe
Platforms



Clear
Information



Accessible
Services



Clean &
Comfortable



Passenger
Support

6 WORKFORCE COMPETENCE AND PROFESSIONAL EXCELLENCE

- Advanced skills for engineers, operators, maintainers and safety professionals.
- Competency-based education, certification and simulation-based training.
- Technical workshops, leadership development and professional knowledge exchange.
- Attention to fatigue, health, mental well-being, ergonomics and teamwork.
- A strong safety culture with fair reporting and responsible communication.



Skill
Development



Simulation
Training



Health &
Well-being



Safety
Culture



Teamwork &
Leadership

RAILWAY VISION 2047 MISSION

- Embed safety as the highest priority
- Strengthen safety governance and culture
- Promote technology and digital transformation
- Build resilient and sustainable railways
- Empower skilled and competent people
- Deliver inclusive, accessible and affordable mobility for all
- Contribute to national development goals

TOGETHER TOWARDS A SAFER, SMARTER
AND STRONGER INDIA



SAFETY FIRST
ALWAYS



PEOPLE AT
THE CENTRE



INNOVATION
FOR IMPACT



SUSTAINABILITY
FOR FUTURE



INTEGRITY
AND TRUST



COLLABORATION
FOR GROWTH



EXCELLENCE
IN ACTION



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**SUSTAINABLE &
GREEN MOBILITY**
Cleaner • Greener • Resilient
Future-Ready Rail Transport

1 SAFETY CULTURE AND LEADERSHIP

- Leadership commitment sets the tone for safety across the organisation.
- Clear expectations, adequate resources and continuous performance review.
- Learning from accidents, incidents and near misses to prevent recurrence.
- Fair, accountable and transparent culture encourages reporting and builds trust.



LEADERSHIP
COMMITMENT



CLEAR
EXPECTATIONS



RESOURCE
ALIGNMENT



LEARNING
CULTURE



REPORTING &
TRANSPARENCY



ACCOUNTABILITY
& TRUST

Strong leadership • Continuous learning • Responsible behaviour • Zero compromise on safety

2 RESEARCH, INNOVATION AND INDIGENOUS CAPABILITY

- Building India as a global hub for railway research, safety technology and professional education.
- Collaboration between academia, industry, start-ups and railway professionals.
- Focus areas: human factors, predictive analytics, advanced materials, intelligent inspection, signalling, cybersecurity, climate resilience, passenger behaviour and emergency management.
- Indigenous research and manufacturing for self-reliance and skilled employment.



RESEARCH &
DEVELOPMENT



ADVANCED
TECHNOLOGIES



HUMAN FACTORS
& SAFETY



PREDICTIVE
ANALYTICS



INDIGENOUS
MANUFACTURING



SKILLED
EMPLOYMENT

Innovate in India • Research for real-world impact • Indigenous solutions • Global excellence

3 CYBERSECURE AND DIGITALLY RESILIENT RAILWAYS

- Cybersecurity is essential for safe and reliable railway operations.
- Secure-by-design systems and controlled access to critical infrastructure.
- Network monitoring, vulnerability management, data protection and incident response.
- Digital resilience throughout the technology life cycle – from integration to maintenance.
- Continuous cyber-awareness training for workforce.



SECURE BY
DESIGN



NETWORK
SECURITY



DATA
PROTECTION



THREAT DETECTION
& MONITORING



INCIDENT RESPONSE
& RECOVERY



CYBER AWARENESS
TRAINING

Secure systems • Protected networks • Resilient operations • Trusted digital future

4 EMERGENCY PREPAREDNESS AND DISASTER MANAGEMENT

- Prepared for accidents, fires, floods, extreme weather, health emergencies and security incidents.
- Integrated coordination with railway, metro, emergency services and health agencies.
- Regular drills, simulations and command-post exercises strengthen readiness.
- Plans cover evacuation, rescue, medical support, communication, accessibility and service restoration.
- Compassionate support for affected passengers and families.



EMERGENCY
PLANNING



DRILLS &
SIMULATIONS



RAPID RESPONSE
TEAMS



MEDICAL
ASSISTANCE



EVACUATION &
RESCUE ACCESS



COMMUNICATION
& INFORMATION

Be prepared • Act together • Save lives • Build resilient railways



Embed safety as
the highest priority



Strengthen safety
governance and culture



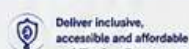
Promote technology
and digital transformation



Build resilient and
sustainable railways



Empower skilled
and competent people



Deliver inclusive,
accessible and affordable
mobility for all

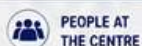


Contribute to national
development goals

TOGETHER TOWARDS A SAFER,
SMARTER AND STRONGER INDIA



SAFETY FIRST
ALWAYS



PEOPLE AT
THE CENTRE



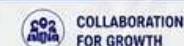
INNOVATION
FOR IMPACT



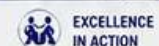
SUSTAINABILITY
FOR FUTURE



INTEGRITY
AND TRUST



COLLABORATION
FOR GROWTH



EXCELLENCE
IN ACTION

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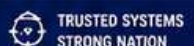
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SAFE RAIL
SAFE JOURNEYS



INFORMED PASSENGERS
SAFE COMMUNITIES



TRUSTED SYSTEMS
STRONG NATION



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1 GREEN RAILWAYS AND CLIMATE RESPONSIBILITY

- Electrification and renewable energy for low-carbon rail transport.
- Energy-efficient rolling stock, regenerative braking and smart energy management.
- Water conservation, waste management and eco-friendly station development.
- Emerging technologies: hydrogen-powered, battery-electric and other clean energy solutions.
- Progress towards low-carbon mobility with safety and environmental responsibility.



ELECTRIFICATION



RENEWABLE
ENERGY



ENERGY
EFFICIENCY



WATER
CONSERVATION



CLEAN
TECHNOLOGIES



CLIMATE
RESPONSIBILITY



2 COMMUNITY PARTICIPATION AND PUBLIC AWARENESS

- Awareness on track trespassing, level crossings, electrical risks and safe station behaviour.
- Involvement of schools, colleges, local institutions, NGOs and passenger groups.
- Multilingual, accessible and practical safety messages for all communities.
- Every responsible citizen helps protect lives and strengthens the nation.



TRACK
SAFETY



LEVEL CROSSING
SAFETY



ELECTRICAL
SAFETY



SAFE STATION
BEHAVIOUR



PUBLIC
AWARENESS



COMMUNITY
PARTNERSHIP



3 GOVERNANCE, STANDARDS AND PERFORMANCE IMPROVEMENT

- Transparent governance and clearly defined responsibilities.
- Professional audits, safety standards and compliance.
- Measurable performance indicators and timely corrective action.
- Focus on outcomes and leading indicators: reporting, maintenance, training and safety culture.
- Continuous improvement for safer, smarter railways.



GOOD
GOVERNANCE



SAFETY
STANDARDS



PERFORMANCE
AUDIT



MEASURABLE
INDICATORS



CORRECTIVE
ACTION



CONTINUOUS
IMPROVEMENT



4 PARTNERSHIP FOR NATIONAL PROGRESS

- Collaboration across government, railways, industry, academia, research and communities.
- Knowledge-sharing, research dialogue and professional capacity building.
- Innovation, technology adoption and indigenous capability development.
- Partnerships aligned with laws, permissions and authorised institutional roles.



GOVERNMENT
PARTNERSHIP



INDUSTRY
COLLABORATION



ACADEMIA &
RESEARCH



TECHNOLOGY &
INNOVATION



PROFESSIONAL
ASSOCIATIONS



COMMUNITY
ENGAGEMENT



RAILWAY VISION 2047 MISSION PILLARS



SAFETY AS
THE PRIORITY



SMART TECHNOLOGY
FOR SAFETY



SUSTAINABLE
AND GREEN RAIL



SKILLED WORKFORCE
AND EXCELLENCE



PASSENGER-CENTRIC
SERVICE



RESILIENT INFRASTRUCTURE
FOR ALL



INCLUSIVE GROWTH
AND UNITY



GLOBAL STANDARDS
INDIAN SOLUTIONS





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1 STRATEGIC PRIORITIES OF RAILWAY VISION 2047



Technology • Human Responsibility • National Development
A balanced vision for a safer, smarter and stronger India

2 EXPECTED NATIONAL IMPACT



Lives Protected • Risks Prevented • Professionals Empowered
Communities Connected • Public Confidence Strengthened

3 AIRSC'S COMMITMENT

- ✓ Advancing railway safety awareness and education
- ✓ Promoting research, innovation and knowledge development
- ✓ Facilitating professional dialogue and collaboration
- ✓ Supporting capacity building and skills development
- ✓ Encouraging responsible digital transformation and sustainability
- ✓ Upholding integrity, transparency and professional ethics



India's railway progress is measured not only by how far and how fast we travel, but by how safely, sustainably and inclusively every citizen is carried forward.

4 CALL TO THE NATION

- ✓ To Railway Professionals
Lead with safety and integrity
- ✓ To Metro Organisations
Build safe, smart and accessible systems
- ✓ To Researchers & Industry
Innovate for India, innovate for safety
- ✓ To Educational Institutions & Students
Learn, research and build the future
- ✓ To Passengers & Communities
Follow safety rules, spread awareness, protect every journey



Together, we can build a railway ecosystem that connects every region, protects every journey and strengthens the foundations of a developed India.

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Railway Vision 2047 is a strategic awareness, research, education and professional knowledge initiative of the All India Rail Safety Council. It does not replace or exercise the statutory, regulatory, operational, certification or emergency-response responsibilities of Indian Railways, metro rail corporations, government authorities, safety regulators or other authorised organisations. All proposed activities are subject to applicable laws, approvals, permissions and institutional requirements.

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