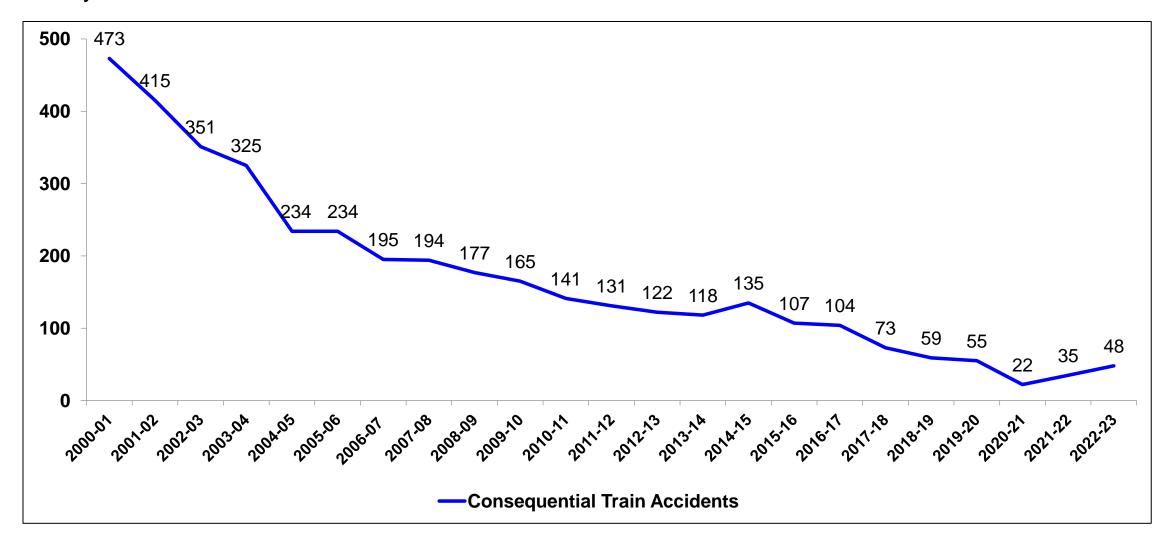


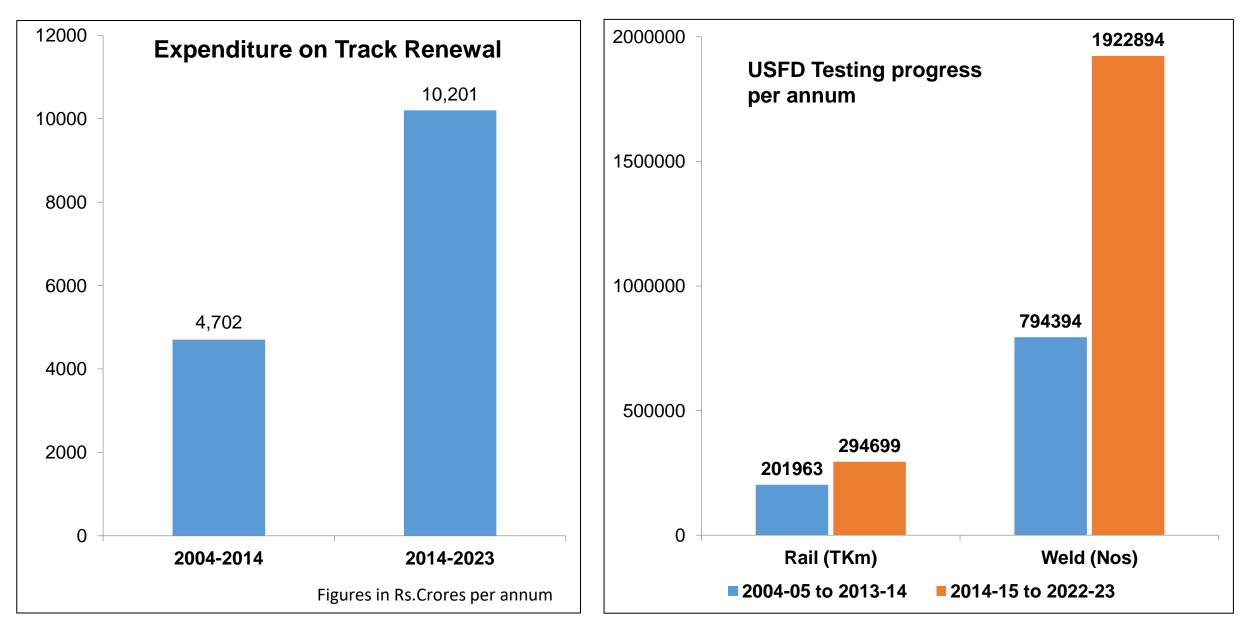
Press Briefing

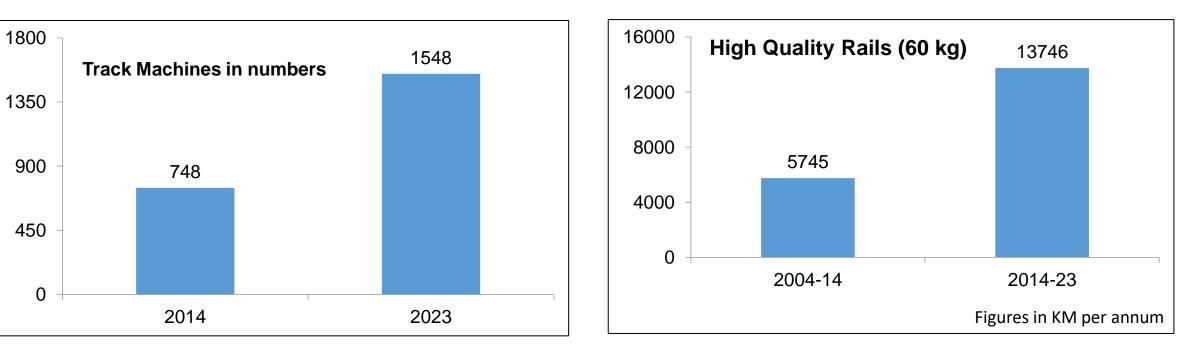
Consequential Train Accident:

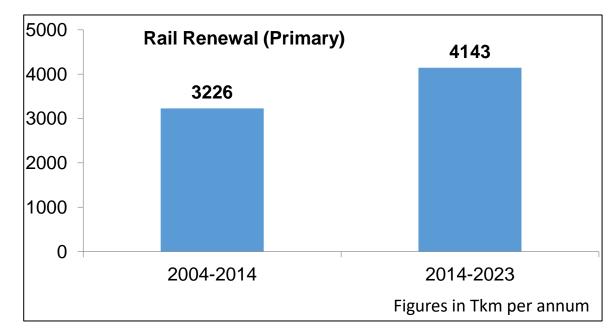
 The number of consequential train accidents over Indian Railways has declined from 473 in 2000-01 to 48 in the year 2022-23.



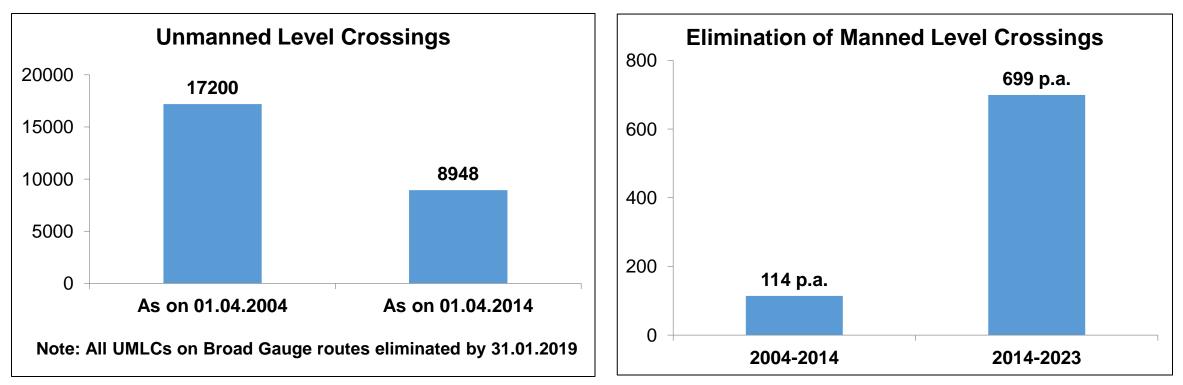
Measures taken to reduce Derailments

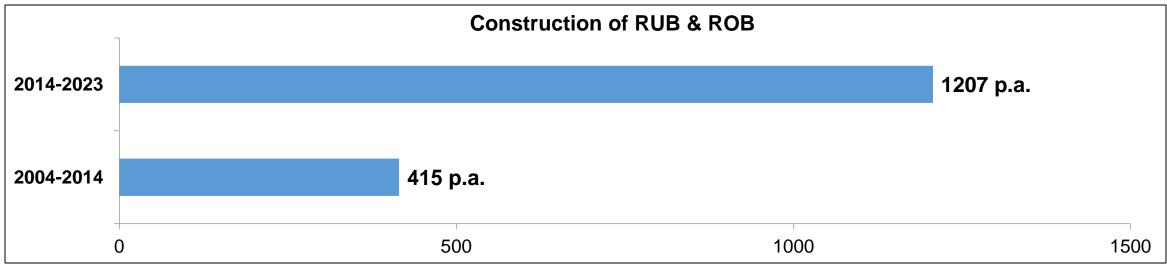




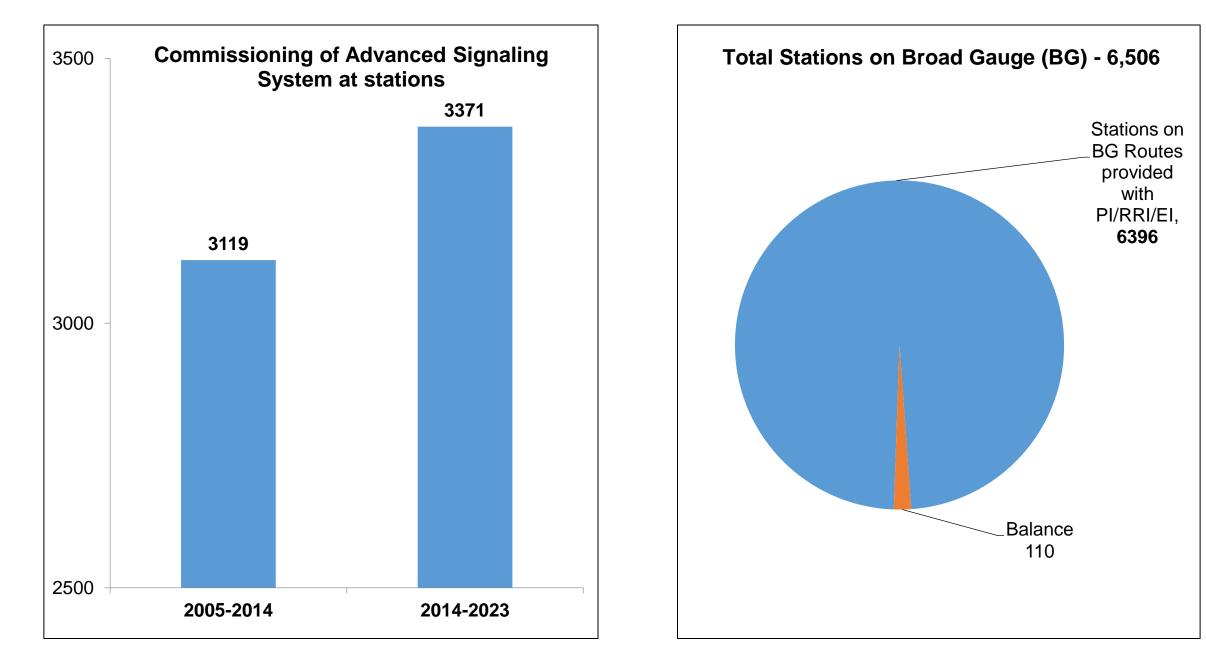


Measures taken to reduce accidents at Level Crossings





Measures taken to reduce Collisions



Measures taken to reduce Collisions

- India's own Automatic Train Protection (ATP) System named KAVACH (Train Collision Avoidance System) developed by RDSO and Indian OEMs.
 - Provided on 1465 Route Kms and 121 locomotives of South Central Railway.
 - Contracts awarded for 3000 RKm on Delhi-Mumbai & Delhi-Howrah section. Targeted for commissioning in 2024.
 - Indian Railways is preparing Detailed Project Report (DPR) and detailed estimate for another approximately 6000 RKm
 - Development of Kavach on LTE platform under progress

Preventing Collisions: Other Assistive Technology for Crew

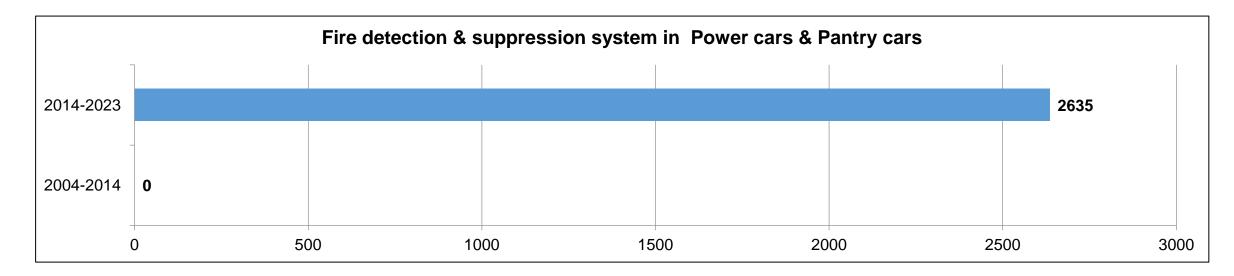
- Collisions can happen sometimes as an aftereffect of passing signal at danger. Tech inputs have been provided to Loco Crew as follows:
 - Vigilance Control Device: All locomotives have been provided with VCDs that alert the loco pilots in case of inactivity
 - Fog-Pass Safety Devices: These are GPS-based devices that alert the loco pilot regarding approaching signals, gates etc., and are used during foggy weather where visibility is reduced. 19,652 provided during 2014-23 against only 90 during 2004-2014
 - Retro reflective sigma Board: These are provided on masts and glow under locomotive headlight alerting the loco pilot of approaching signal in low visibility

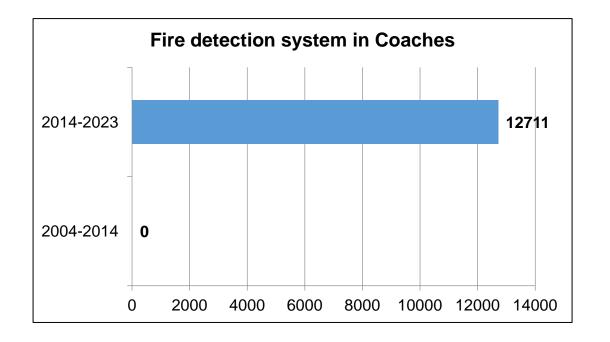


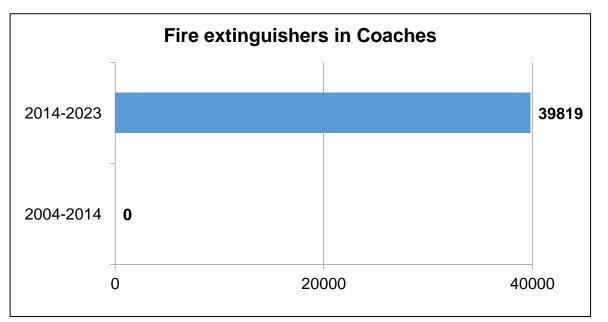




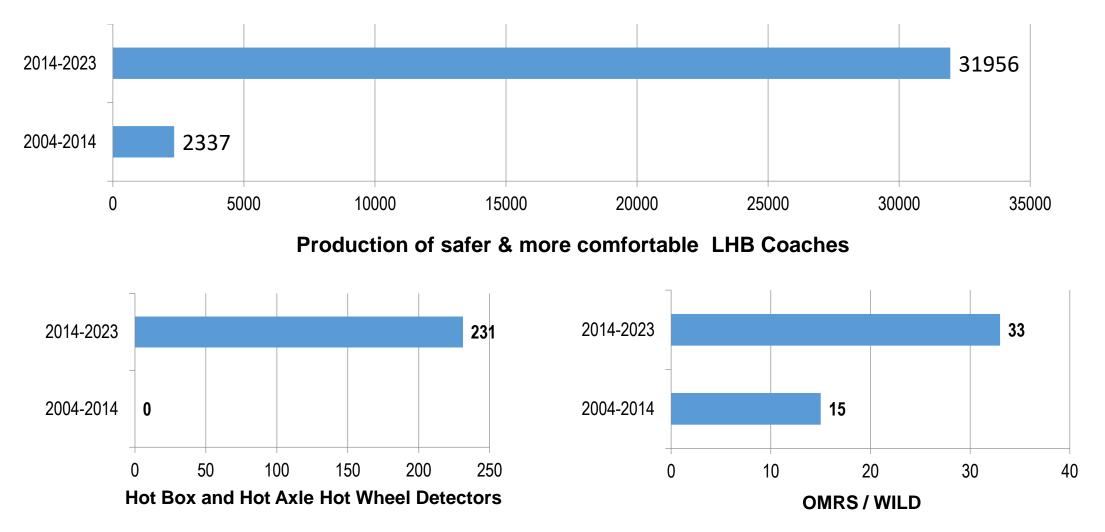
Measures taken to prevent Fire in coaches







Measures taken to improve safety and reliability of Rolling Stock



Further, installation of 111 OMRS devices, 150 WILDs and 200 HBDs has been planned by 2024-25

Other Safety Measures

- Fencing of tracks at vulnerable locations.
- Regular Footplate Inspections, Night Inspections and other laid down inspections.
- Hot Weather Patrolling, Monsoon Patrolling & Cold Weather Patrolling of track.

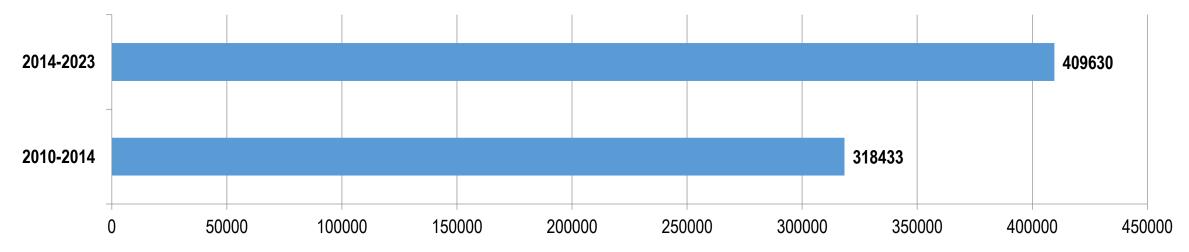




Measures taken to reduce Human errors

Training

- All safety category employees trained initially & during service
- Simulator- based training to Loco Pilots
- Counseling of running staff and interaction with their families
- Training on fire fighting & use of fire extinguishers to front line staff
- Yoga and Meditation lessons in training centers
- Approx. 5 Lakh employees imparted training (initial, promotional, refresher & specialized) during 2022-23.



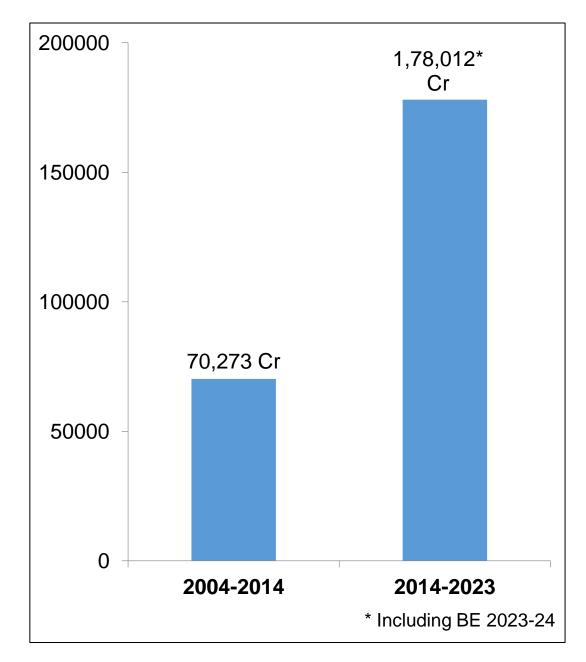
Average Number of Employees Trained per year

- Introduced in 2017-18 for replacement/renewal/up-gradation of critical safety assets, with corpus of Rs 1 lakh Crore for five years.
 - Gross Expenditure of Rs.1,08,743 Crore incurred on RRSK works till end of 2021-22.

Expenditure incurred on Safety works

- Total expenditure on Safety related works, since 2014-15 to 2022-23 and BE 2023-24, is Rs.1,78,012 cr.
- Total expenditure on Safety related works from 2004-05 to 2013-14 Rs 70,273 Cr.

Expenditure on Safety related works



Thank you