



U.S. Department
of Transportation

**Federal Railroad
Administration**

Risk Reduction Program (RRP)

**Office of Safety
Federal Railroad Administration**

Risk Reduction Program (RRP)

Initiative to reduce accidents and injuries, and to build strong safety culture by:

- Identifying individual and systemic contributing factors
- Developing innovative methods, processes, and technologies
- Using upstream predictive measures

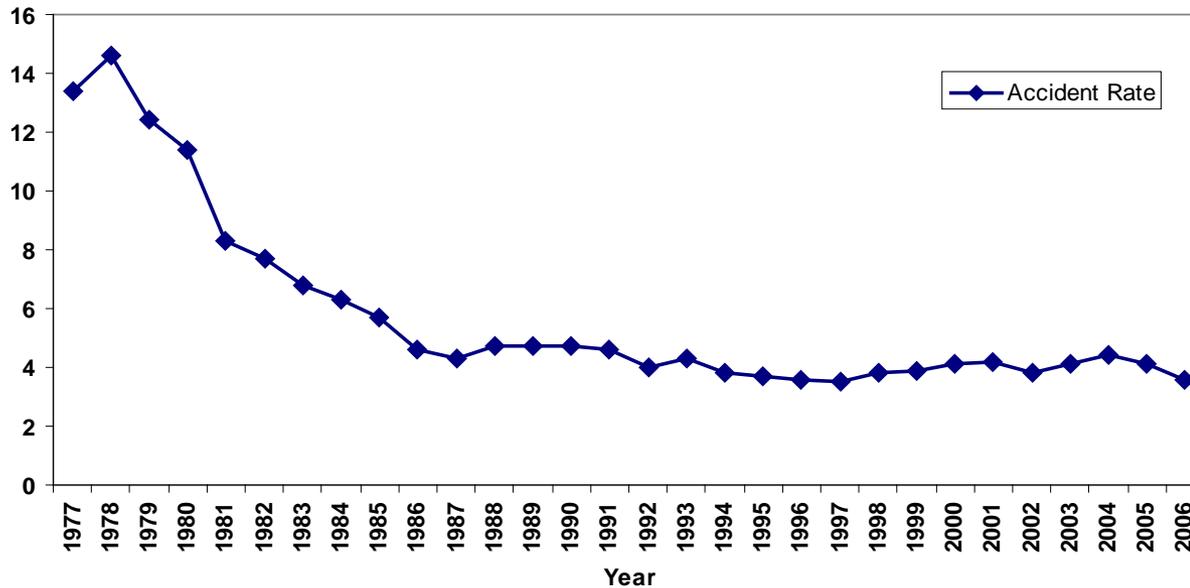
Risk Reduction Program (RRP) Goal

- To reduce accidents in the North American railroad industry through the use of precursor or predictive data.

Why Is This Program Being Created?

Accident/Incident Rate Plateau

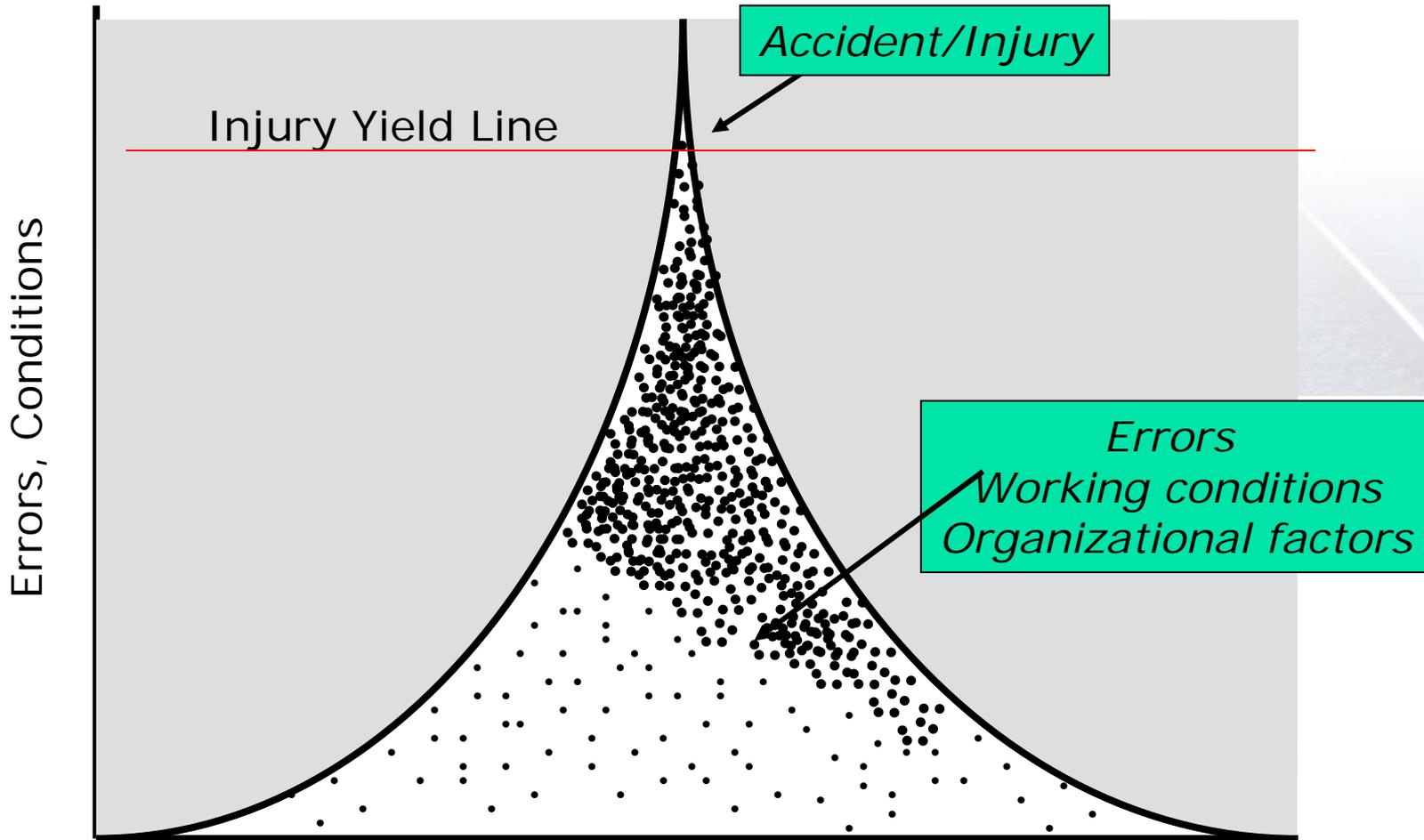
Train Accidents/Incidents per Million Train Miles



- **Over 50% reduction from 1977-85**
- **Little change from 1985 to present**

Risk Reduction Program (RRP)

How to Reduce HF Accidents: Create Learning Culture

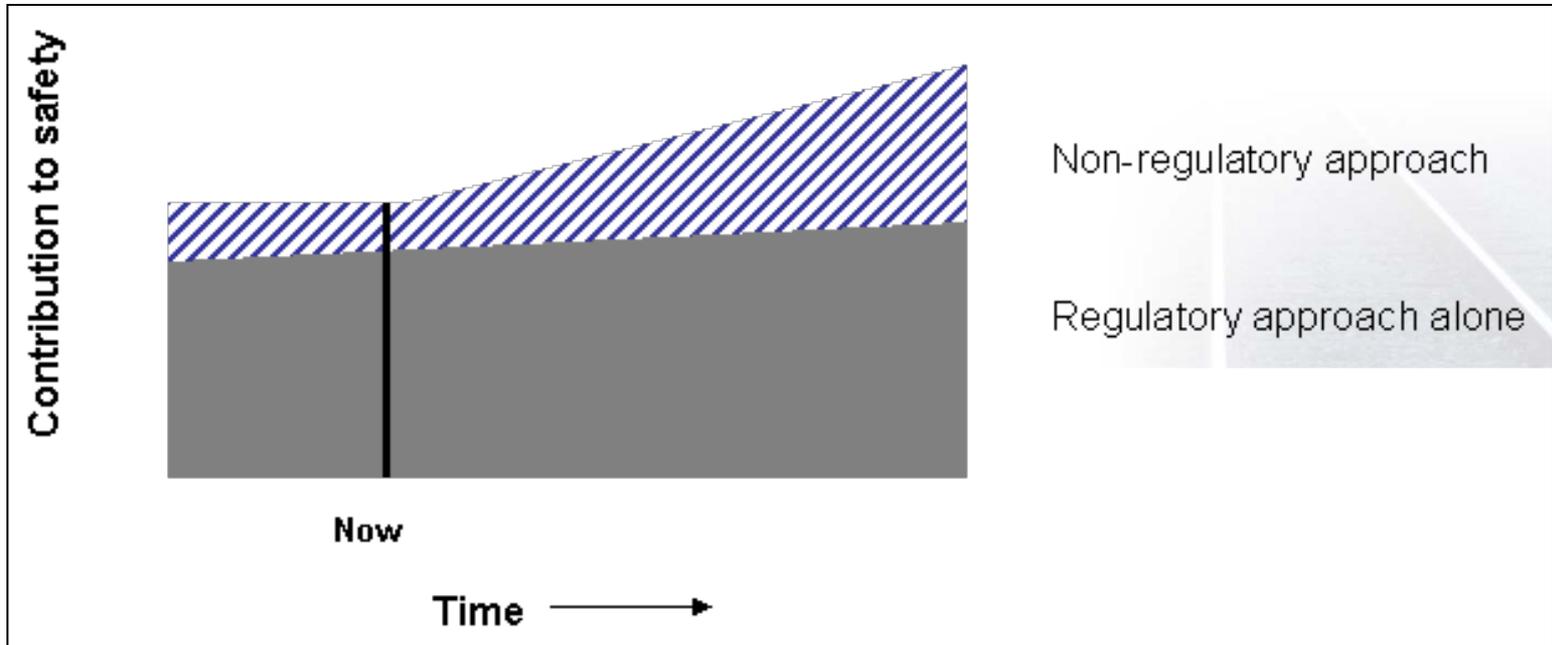


Risk Reduction Program (RRP) Vision

- Better management and use of precursor (predictive) data not just reactive data
- A safety learning culture that allows open disclosure about safety without fear

Risk Reduction Program (RRP)

How we will do this.



Continue to strengthen regulatory enforcement approaches while adding complementary non-enforcement approaches

Basic Concepts of RRP

- Commitment from all stakeholders
- Systematic and objective data gathering, analysis, and reporting
- Problem solving and corrective action
- Long-term sustaining mechanisms

Regulatory Program

- Rail Safety Improvement Act of 2008 mandated that certain railroads must submit Risk Reduction Plans to the FRA
- Goal: conduct detailed risk-based hazard analysis, implement targeted mitigations.

Regulatory Program Basic Tenets

- Covered Railroads must have a Risk Reduction Program.
- Supported by a written Risk Reduction Program Plan (RRPP) approved by FRA.
- Include a robust Hazard Management Process.
- All elements fully implemented.

Regulatory Program Basic Tenets (continued)

- All elements evaluated.
- Implementation audited for compliance.
- Railroad, contract operators, and others providing safety sensitive services participate.
- Related training program implemented.

Regulatory Program Schedule

- Advance Notice of Proposed Rulemaking published by August/September, 2010
- Final Rule effective October, 2012

Risk Reduction Program (RRP)

Voluntary Pilot Projects

- A vital component of the overall effort.
- Railroads and other interested groups sponsor projects targeting operations, equipment, or systems posing greatest risk .
- May include process or system that identifies steps taken to eliminate or significantly reduce or mitigate the risk.

Voluntary Pilot Projects 1st Cycle

- Amtrak (DC)*
- Safety Culture Change
 - Reduce Grade Cross Fatalities
 - Cross-functional Risk Reduction

- Amtrak (PHL)*
- Track Substructure Risk Mitigation & Reliability Improvement Project

- BNSF Railway Co.*
- Behavioral Accident Prevention Process (PRIDE)

- Canadian Pacific*
- Unattended Track Geometry Inspection

- CSX*
- Continuous High Speed Rail Test

- Norfolk Southern*
- Broken Rail Risk Reduction

- Union Pacific*
- Fatigue Risk Management System

Voluntary Pilot Projects Upcoming Cycle

- Soliciting new pilot project proposals for upcoming fiscal year
- Broad Agency Announcement will provide details
- Pending availability of funds

RRP Information and Contacts at FRA

- Miriam Kloeppel – Staff Director
 - Miriam.Kloeppel@dot.gov
- Mike Fitzpatrick – project manager
 - Michael.Fitzpatrick@dot.gov
- Don Isler – project manager
 - Donald.Isler@dot.gov
- <http://www.fra.dot.gov/Pages/2029.shtml>