

Risk Reduction Program

**Railroad Safety Advisory Committee
October 25, 2007**

**FRA Office of Safety
FRA Office of Research and Development**

Objectives

- Provide a broad overview of FRA's Risk Reduction Program
- Describe on-going RRP initiatives
- Discuss Next Steps

RRP Overview

- What is RRP?
- Why is this Program Being Created?

Readiness for Change in U.S. Railroad Industry



- 80,000 new employees to be hired in next 5 years: labor, management, senior leaders
- Strong organizational culture
- Recognition of need and opportunity for change

FRA History

- November 2005—Administrator requested VPP review
- FRA committee conducted review of VPP programs
- Conclusion: VPP concepts valid, but customized program needed for FRA

What is RRP?

Definition: An FRA-led industry-wide initiative to reduce accidents and injuries, and build strong safety cultures, by developing innovative methods, processes, and technologies to identify and correct individual and systemic contributing factors using “upstream” predictive data.

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**

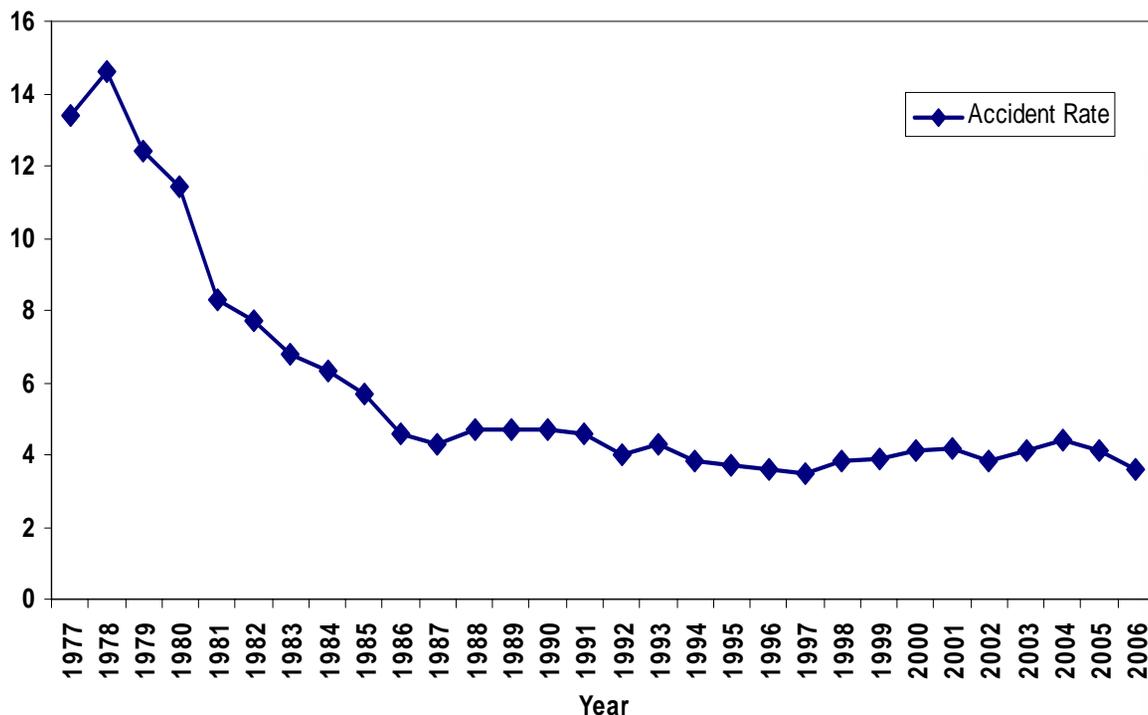
Basic Concepts of RRP

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

Why Is This Program Being Created?

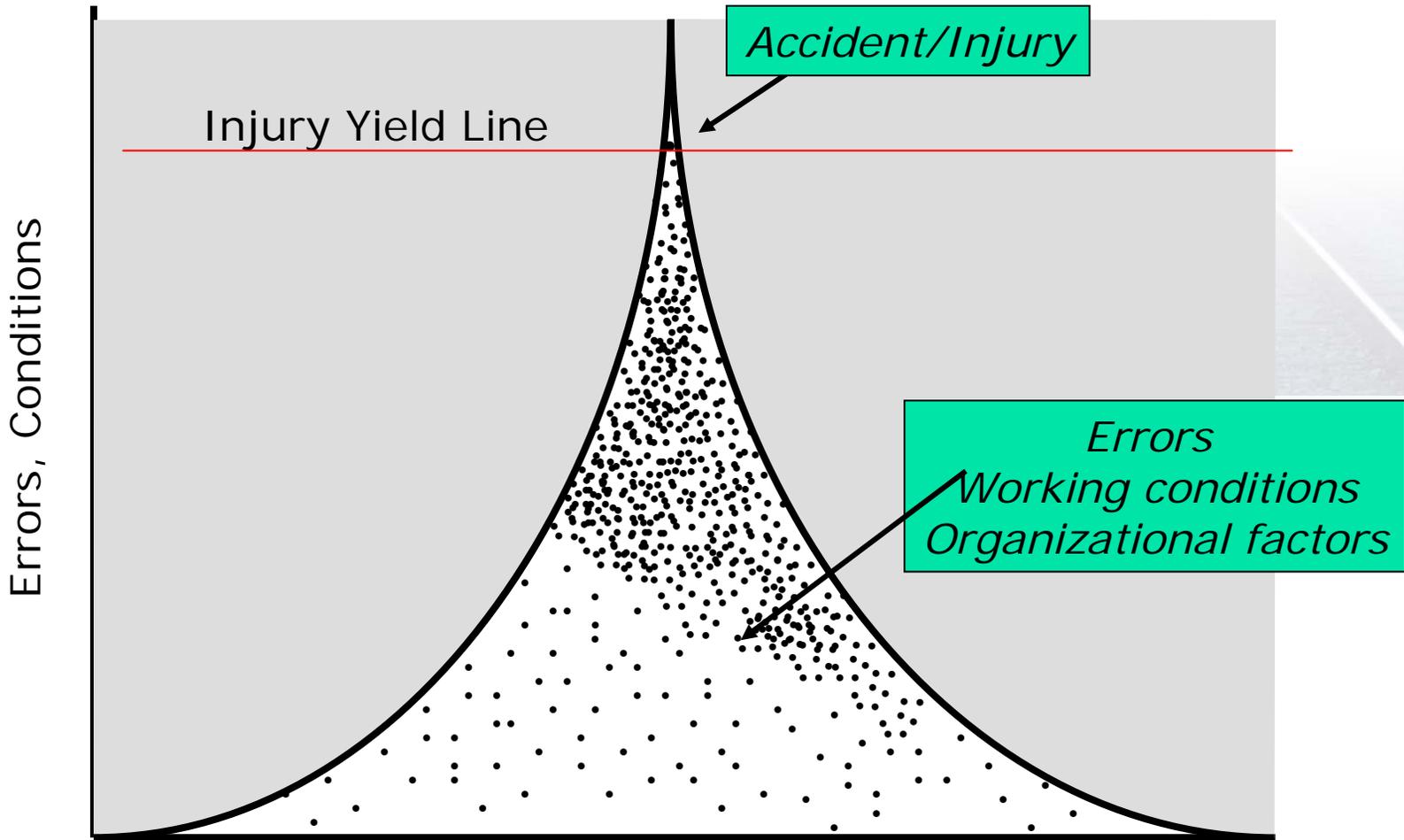
Accident/Incident Rate Plateau

Train Accidents/Incidents per Million Train Miles



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

How to Reduce Accidents: Create Learning Culture



An Overall View

Reactive Risk Management Systems

Reportable Accidents

FRA Database

Accountable Accidents

RR Records

Inspections and Audits

225's

Close Calls

C3RS

At-risk Behaviors

CSA

Organizational/Workplace Factors

Culture Surveys

Leadership Factors

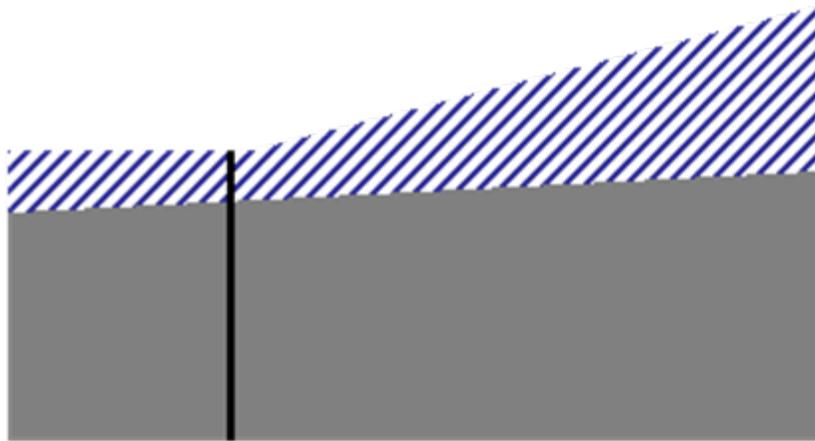
Leadership Training

Proactive Risk Management

How We Will Do This

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

Contribution to safety



Now

Time →

Non-regulatory approach

Regulatory approach alone

Example RRP Initiatives

- Confidential Close Call Reporting System
- Clear Signal Action (CSA)
 - UP CAB and STEEL processes
 - Amtrak Station Services
- Canadian Pacific ISROP
- Track joint bar inspection system
- Track Quality Index (TQI)
- Fatigue Risk Management Systems

CSA is FRA's term for behavior-based accident prevention combined with continuous improvement and safety leadership

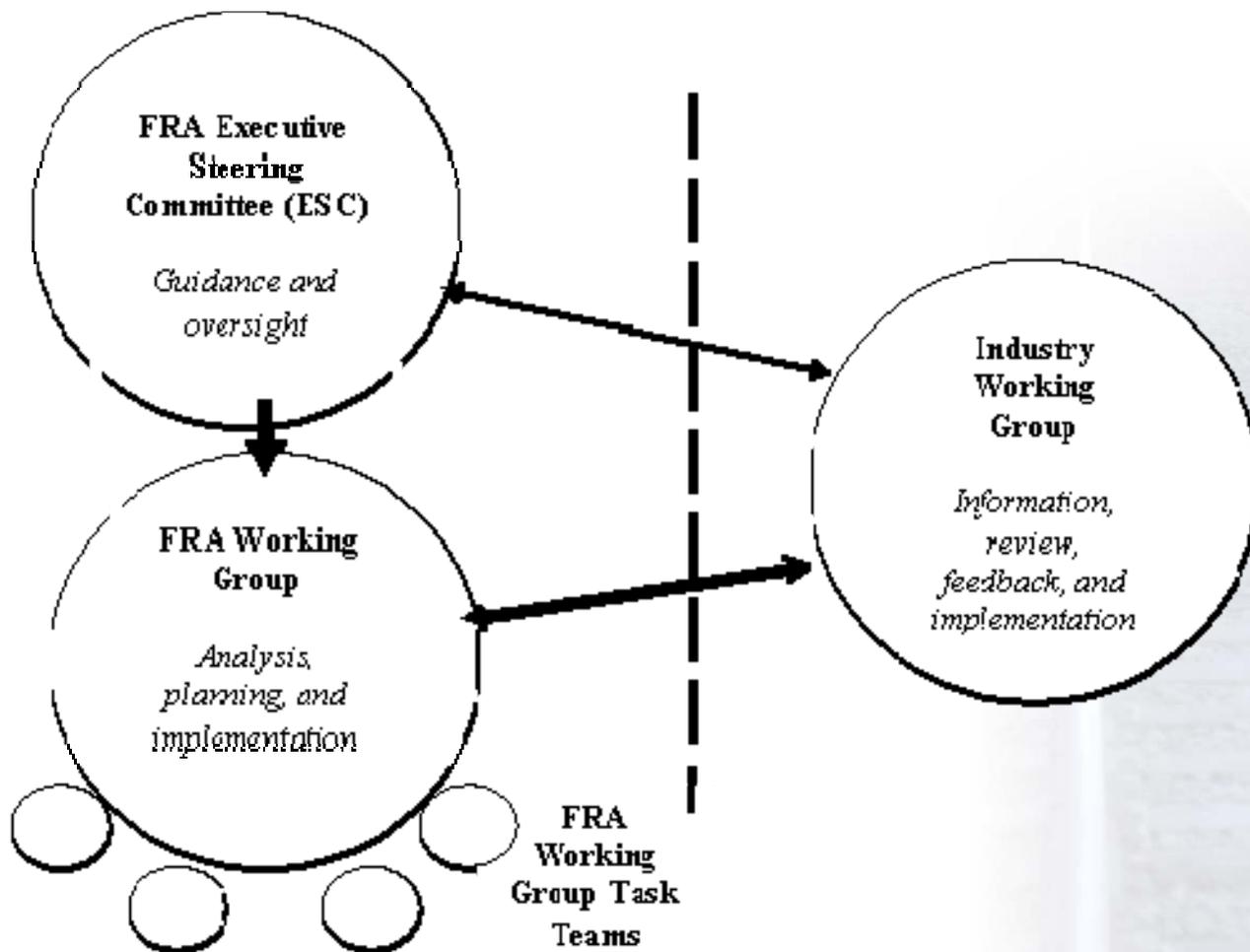
Design and Implementation Process

- Roles and Responsibilities
- Timeline
- Current Status

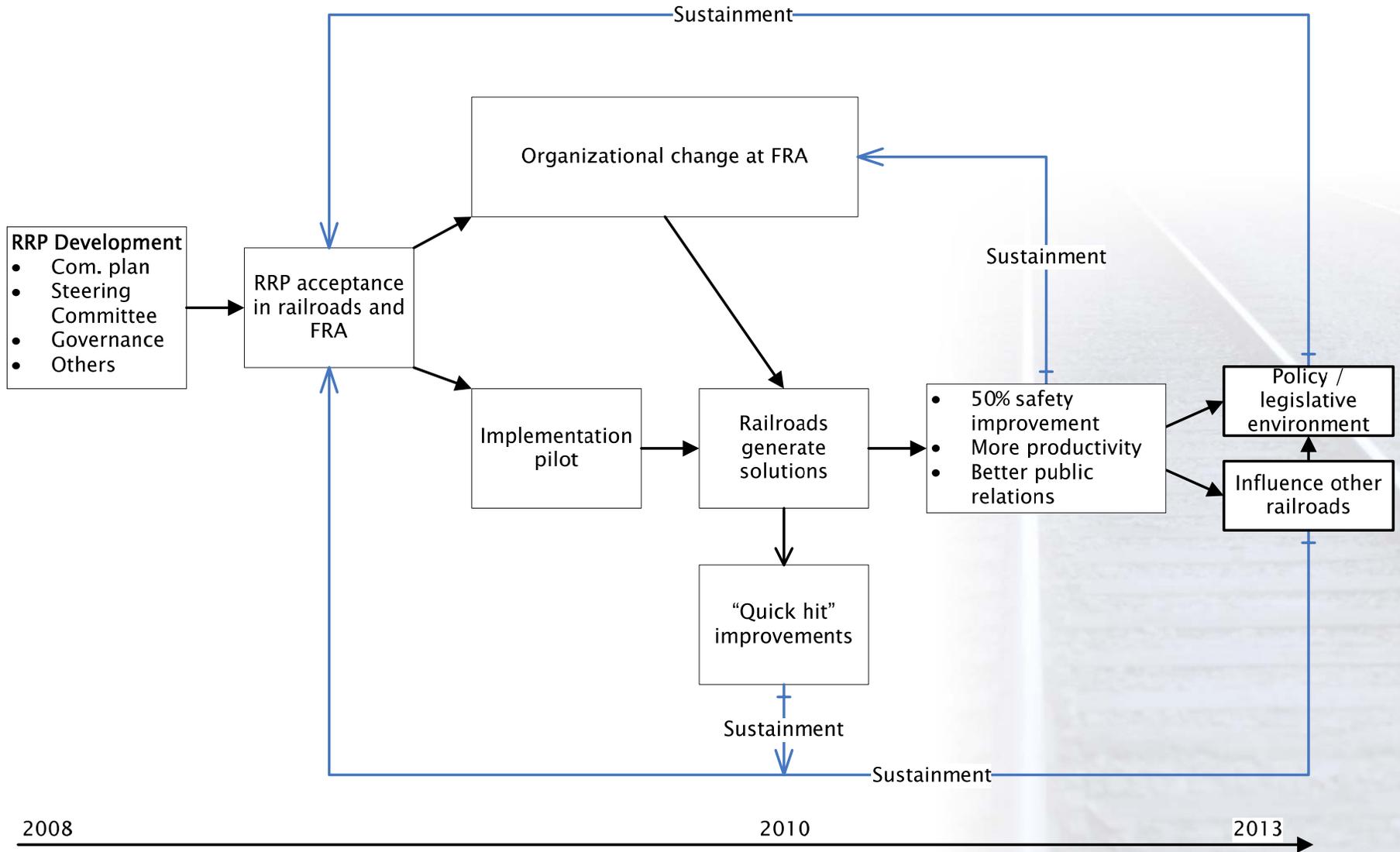
Structure of RRP Decision-Making Groups

- Preliminary Planning Team
- FRA Executive Steering Committee
- FRA Working Group
- Industry Ad-Hoc Workshop
Planning Group/Industry Working
Group

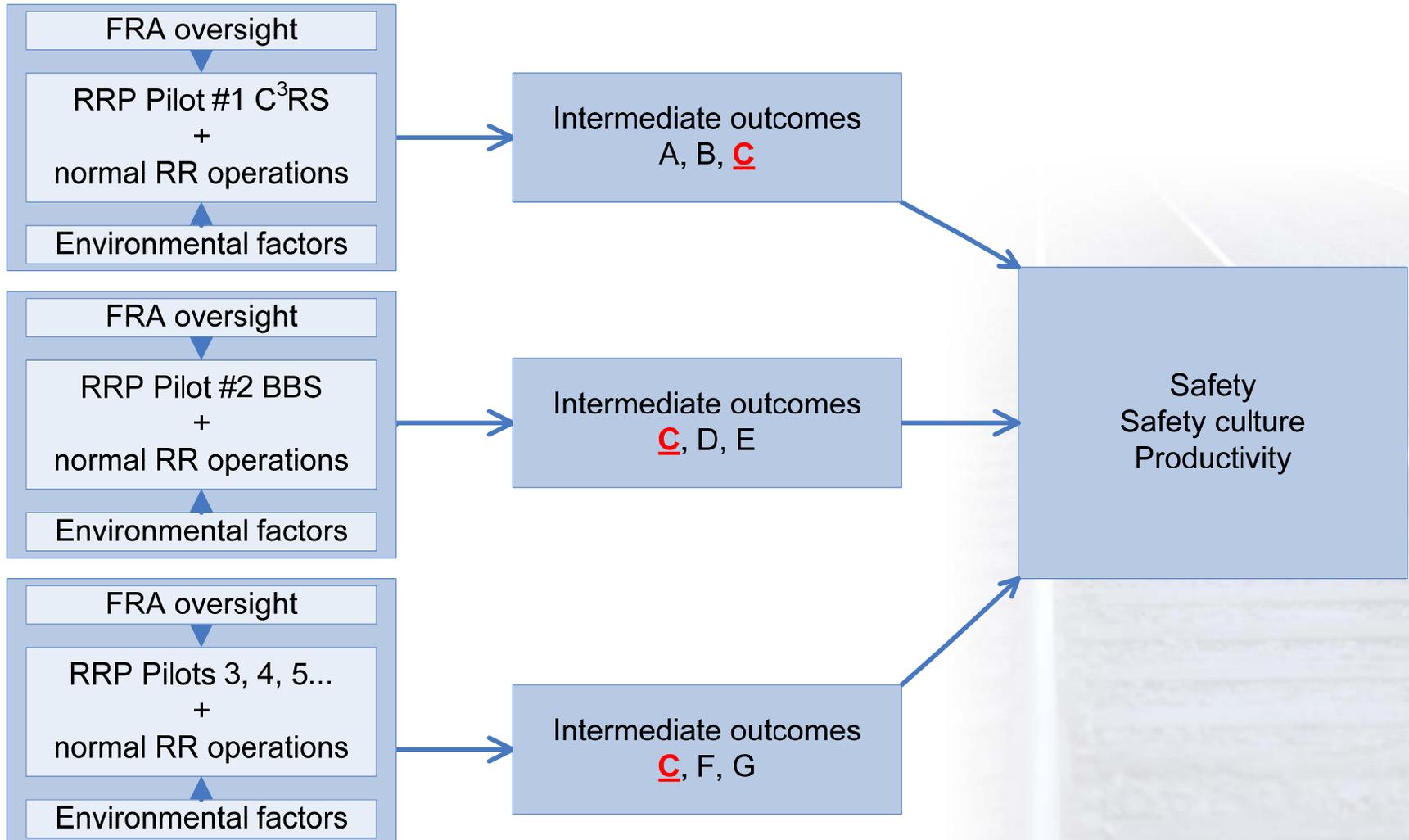
Relationship of Decision-Making Groups



Evaluation Logic Model: FRA and Industry Change Over Time



Evaluation Logic Model: Multiple Innovations, Same Long Term Impact



Current Status of RRP Activities

- Created background Documents
- Conducted Stakeholder interviews
- Preparing White Paper on RRP
- Convened Executive Steering Committee
- Planning workshops

RRP Next Steps

- Learn from Railroad Experiences
 - Best Practices
 - Lessons Learned
 - **Please help identify points of contact**
- Identify and Remediate Barriers
- Plan Workshop
- Initiate Search for Pilot Projects

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Questions?