

# Runway Incursion Trends and Analysis

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# Data Collection/Analysis

- Voluntary Safety Reporting - Aviation Safety Action Program (ASAP)
- Mandatory Safety Reporting – Aviation Safety Reports (ASR)
- Flight Operations Quality Assurance – (FOQA)
- Air Safety Investigations
- Confidential Information Sharing Program (CISP – ATSAP)
- FAA Aviation Safety Information Analysis and Sharing (ASIAS)
- Runway Safety Action Team (RSAT) Meetings

# Data Collection/Analysis

- Trends
  - Events
  - Severity
  - Airport/Runway/Intersection
  - Phase of Flight
  - Fleet
- Causal & Contributing Factors

# Causal Factors

Tier 1:

- 'Organizational Influences'
- 'Supervisory Influences'
- **'Preconditions for Unsafe Acts'**
- 'Unsafe Acts'

# Causal Factors

Tier 2:

- 'Preconditions for Unsafe Acts'
  - Mental State
    - Distractions, Expectation Bias, Situational Awareness
  - Communication/Coordination
    - Between pilots, With ATC
  - Physical Environment
    - Weather, Airport Design

# Mitigation Strategy

- Communication of Airport Specific Threats
  - Bulletins, Safety Publications, Videos, Company Charts
- Collaboration with ATC & ALPA
  - Controller/Pilot Awareness Videos