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