

ENABLING IMPROVED SAFETY MANAGEMENT

Main Objective

- Develop an advanced support tool for Total Safety Management in Aviation

Challenge

- Connecting data and models from different sources and origins

Results

- a prototype **Risk Observatory (RO)**
 - Acquiring, fusing and structuring safety data
 - Translating data into actionable safety intelligence
 - Suiting Safety Management
- an **Integrated Risk Assessment Framework**
 - Occurrence Dashboard
 - Risk Dashboard
 - FDM-data for Safety Performance Indicators
 - What-If-Scenario's
- a **Business Model**
 - How to make RO successful ?

Exploitation Aspects

- **Centralized RO & Framework delivery & maintenance**
 - RO parts like Runway Excursion & Mid-Air Collision backbone models
 - RO complementary to other initiatives like Data4Safety
 - Defined Safety Performance Indicators
 - Enabled Risk Analysis
 - Provided Safety Intelligence
 - Applied different data sources (across different domains) and results of "Big Data" techniques
 - Total (Aviation) System Risk derivation approach
- **Risk Observatory Organisation (ROO)** to be set up
 - Creating a Central Safety Intelligence Organisation
- **Potential Stakeholders:**
 - ANSPs, Airlines, Airports, Regulators and Authorities, Ground Service Providers, MRO, Manufacturers (OEMs), Accident Investigation Boards & many other

