

## NM SAFETY MANAGEMENT TOOLS WORKSHOP

### eTOKAI-User story

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SAFETY IS IN THE AIR



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# INDEX



- ▶ **Status until 15.11.2015**
- ▶ **Reporting**
- ▶ **Investigation**
- ▶ **Export to national Authority (e5x)**
- ▶ **Risk Assessment Tool (RAT)**
- ▶ **Recommendations**

# Status until 15.11.2015



- ▶ Implementation of a Reporting system (before 2002)
  - Mandatory
  - Voluntary
  - ANS Departments (ATM, AES (tech) and MET)
- ▶ Reportformat: .PDF
  - Sent by eMail or fax
  - Feedback on every Report (at least as confirmation that received)
- ▶ Datastorage in Excel
  - Manual type in
  - limited possibilities to identify hazards out of data
- ▶ AST production difficult

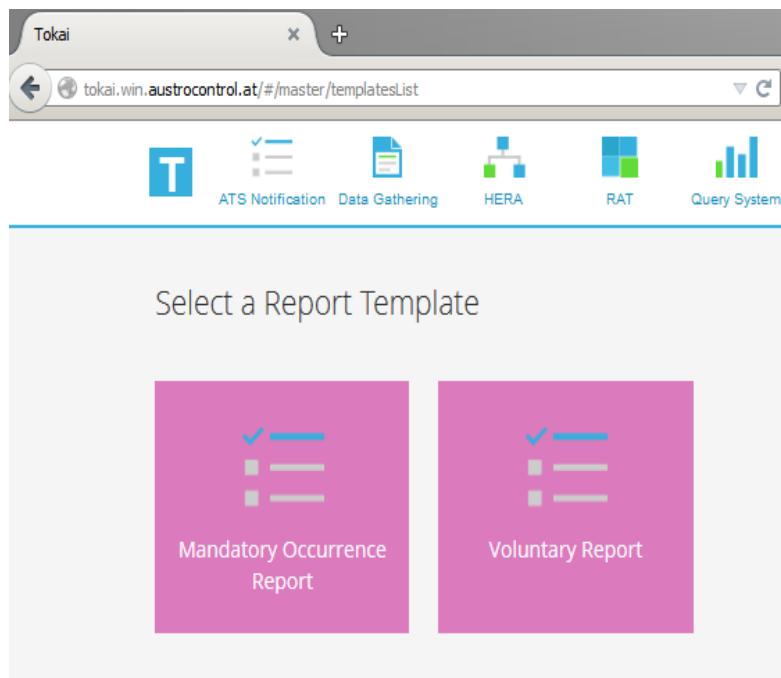
# INDEX



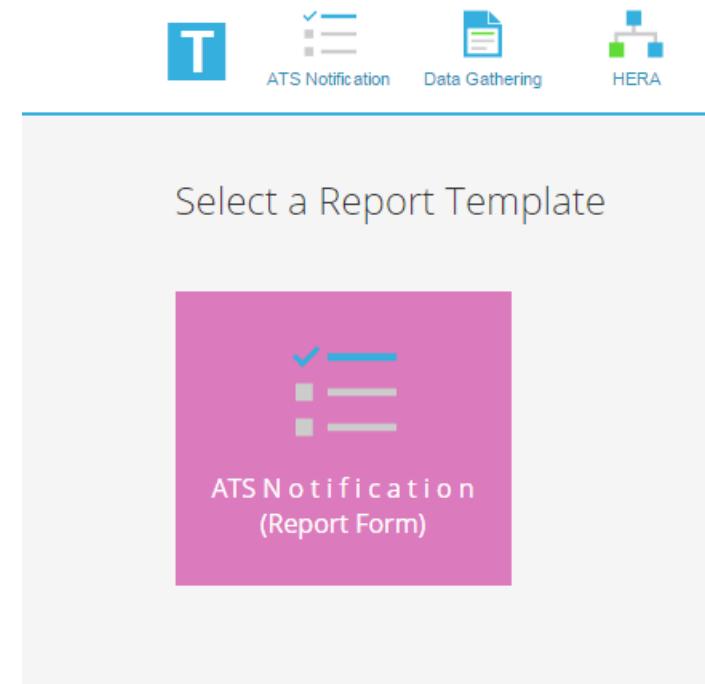
- ▶ Status until 15.11.2015
- ▶ **Reporting**
- ▶ Investigation
- ▶ Export to national Authority (e5x)
- ▶ Risk Assessment Tool (RAT)
- ▶ Recommendations

# Reporting with eTOKAI

- ▶ With implementation of eTOKAI (first Version) the module reporting was launched
- ▶ Onsite installation (on AustroControl server)



The screenshot shows a web browser window titled 'Tokai' with the URL 'tokai.win.austrocontrol.at/#/master/templatesList'. The interface includes a top navigation bar with icons for 'ATS Notification', 'Data Gathering', 'HERA', 'RAT', and 'Query System'. Below this, a section titled 'Select a Report Template' displays two pink buttons: 'Mandatory Occurrence Report' and 'Voluntary Report', each with a list of icons representing different report types.



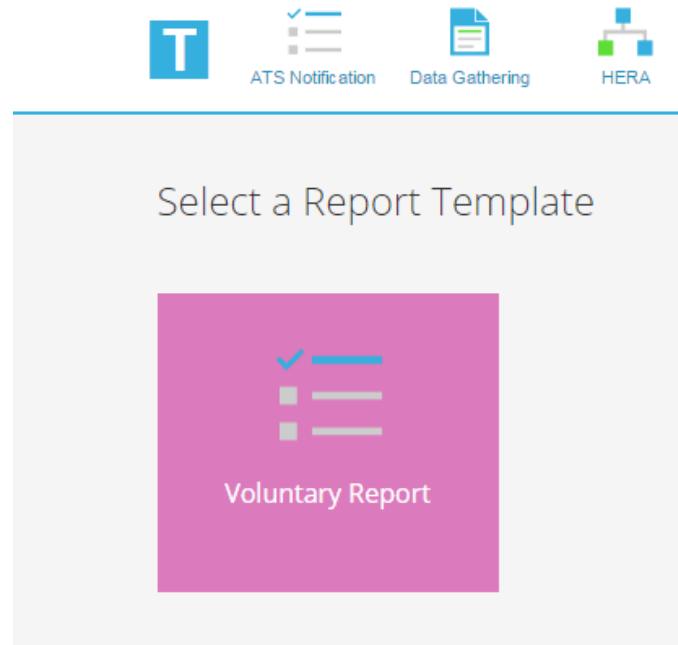
The screenshot shows a 'Select a Report Template' screen. At the top, there are icons for 'ATS Notification', 'Data Gathering', and 'HERA'. Below this, a pink box contains the text 'Select a Report Template' and two sub-options: 'ATS Notification (Report Form)' and 'Voluntary Report'. The 'ATS Notification (Report Form)' option is highlighted with a checkmark icon.

- ▶ Available for ATM Department



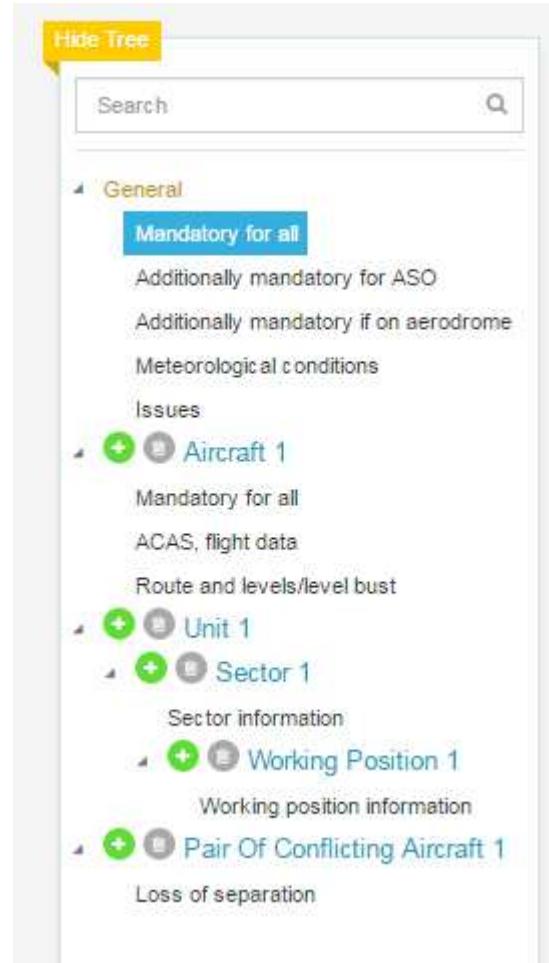
# Reporting with eTOKAI

- ▶ AES Department (technical) and MET is limited to Voluntary Reporting
- ▶ non-ANS is limited to Voluntary



# Reporting with eTOKAI

- ▶ Reporters are
  - ATCOs
  - ATSEPs
  - SUPs
  - FISOs
  - Meteorologists
- ▶ Reporting Procedure
  - Describes how to login
  - How to use
  - What to report
- ▶ Technical Ticketing System
  - ATM spec reporting (mandatory)
  - Transfer into eTOKAI



# INDEX



- ▶ Status until 15.11.2015
- ▶ Reporting
- ▶ **Investigation**
- ▶ Export to national Authority (e5x)
- ▶ Risk Assessment Tool (RAT)
- ▶ Recommendations

# Investigation with eTOKAI



- ▶ Occurrence Management is responsible for the investigation
  - Only OM knows personal data
  - Lead Investigator, Unit Investigator, Local Safety Committee

Select a Data Gathering Template



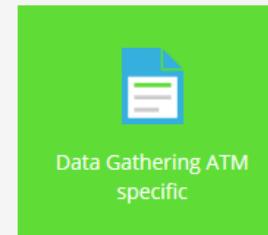
ATM\_LSC Data Gathering



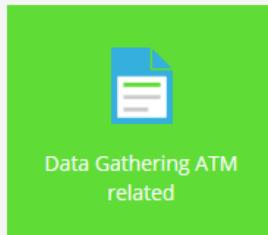
AES\_LSC Data Gathering



MET\_LSC Data Gathering



Data Gathering ATM specific



Data Gathering ATM related

# Investigation with eTOKAI



- ▶ Different schemes for ATM related and ATM specific

Hide Tree

Search taxonomy

- General
  - General Information (ZMS mandatory)
    - Data for report generation
    - ATM ground safety nets
    - Weather (ZMS mandatory)
    - Risk Classification
    - Explanatory / Descriptive Factors
    - Organizational Data
    - ASO
    - Runway - Airport Data
  - Pair Of Conflicting Aircraft 1
    - Conflicting Aircraft
  - Aircraft 1
    - Aircraft (ZMS mandatory) - Airspace
  - Unit 1
    - Unit Information
    - Sector 1
      - Sector Information
    - Working Position 1
      - Personal Information/ Relief / C
      - Working Position
      - Workload and Avoiding Action
    - Error 1
      - HERA Information
  - Safety Recommendations 1
    - Safety Recommendations and Remec

- ▶ necessary to select set of factors
- ▶ necessary to create different reference numbers

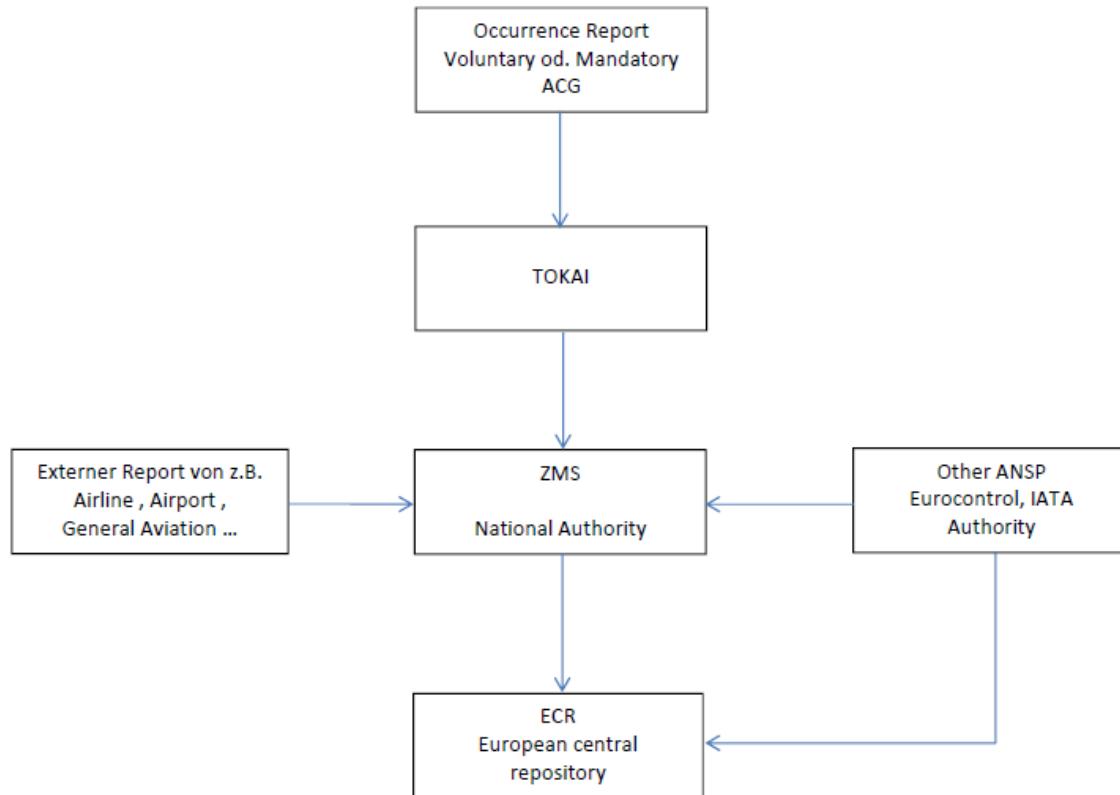
Reference Number
21/01/2017_Operational_2776
06/02/2017_Technical_2882

Hide Tree

Search taxonomy

- General
  - General Information (ZMS mandatory)
    - Description of Occurrence
    - ATM ground safety nets
    - Weather
    - Risk Classification
    - Explanatory / Descriptive Factors
    - Organizational Data
    - ASO
  - Unit 1
    - Unit Information
  - Sector 1
    - Working Position 1
      - Personal Information/ Relief / C
      - Working Position
      - Workload and Avoiding Action
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  - Safety Recommendations 1
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# REPORTING - Flow



# INDEX



- ▶ Occurrence Management
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# Export to national Authority (e5x)



LoA with the national authority

- ▶ De - identified will be sent by eTOKAI in parallel to ACG Occurrence Management as 1<sup>st</sup> quick info

Arrangement with national authority

- ▶ Export for data out of TOKAI once a week in e5x format
  - Content: data modified since last export

Arrangement with german national authority

- ▶ Export for data out of TOKAI once a week in e5x format
  - Content: data modified since last export

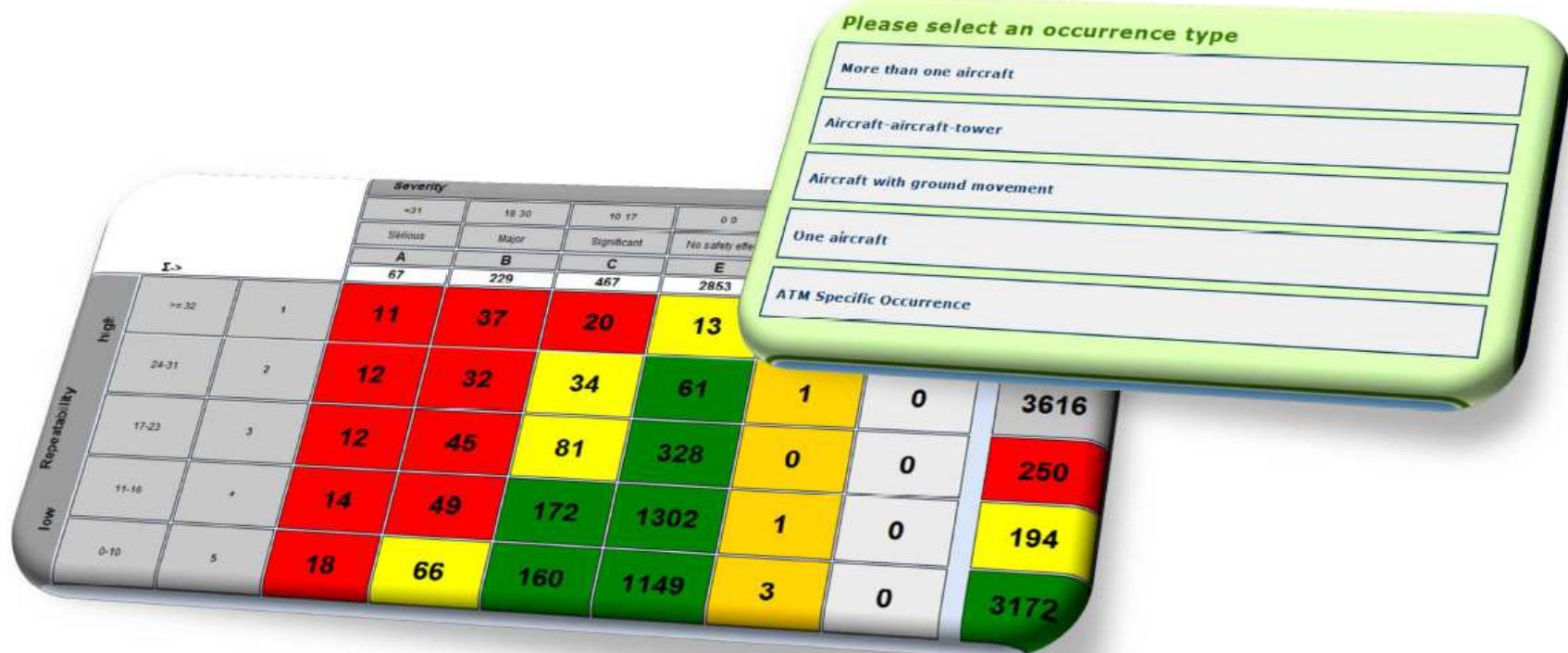
*Compliance with EU376 of export confirmed: [masterTransfer2042539443591436543.pdf](#)*

# INDEX

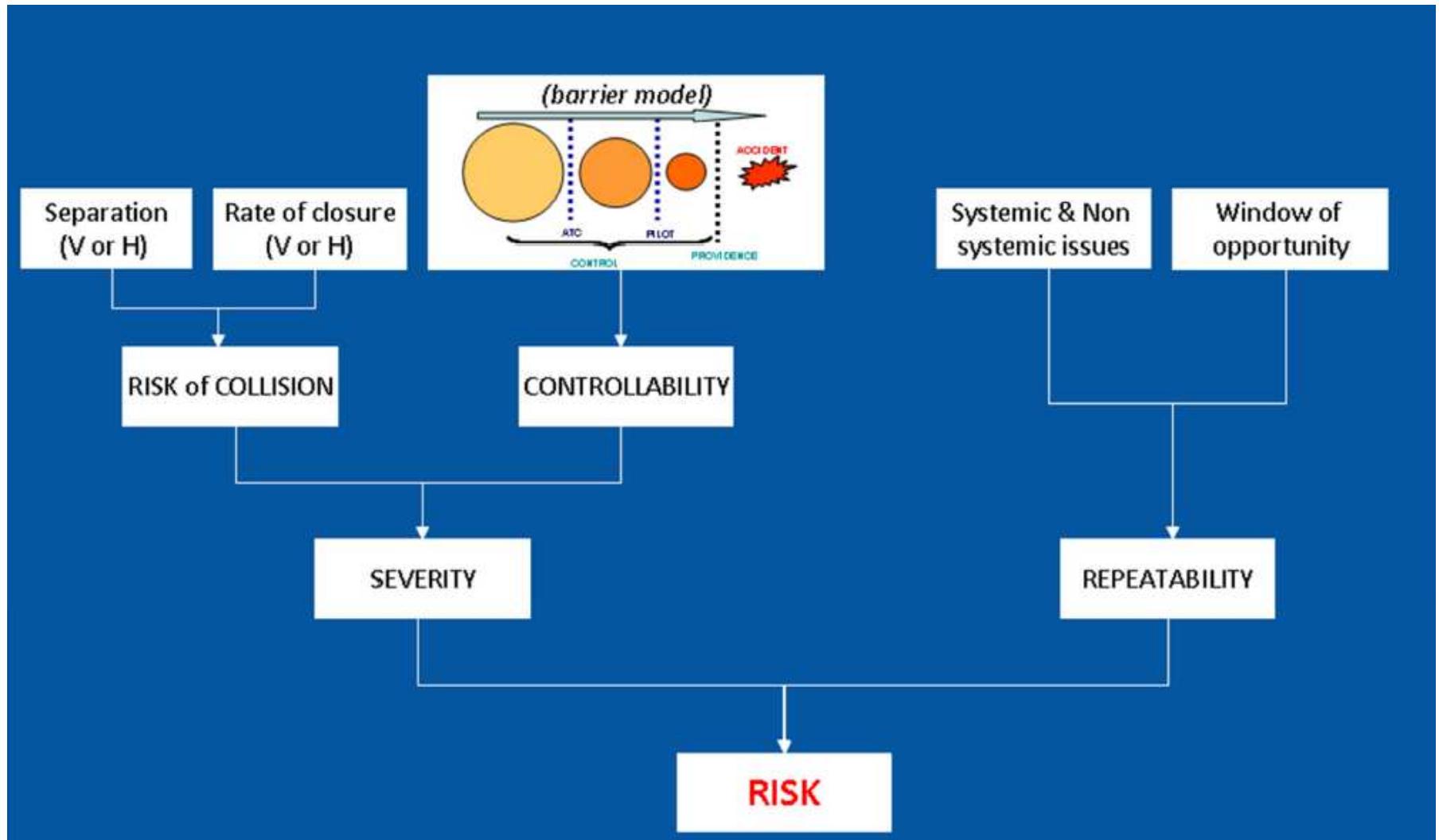


- ▶ Occurrence Management
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# Risk Analysis Tool - RAT



# Risk Analysis Tool - RAT

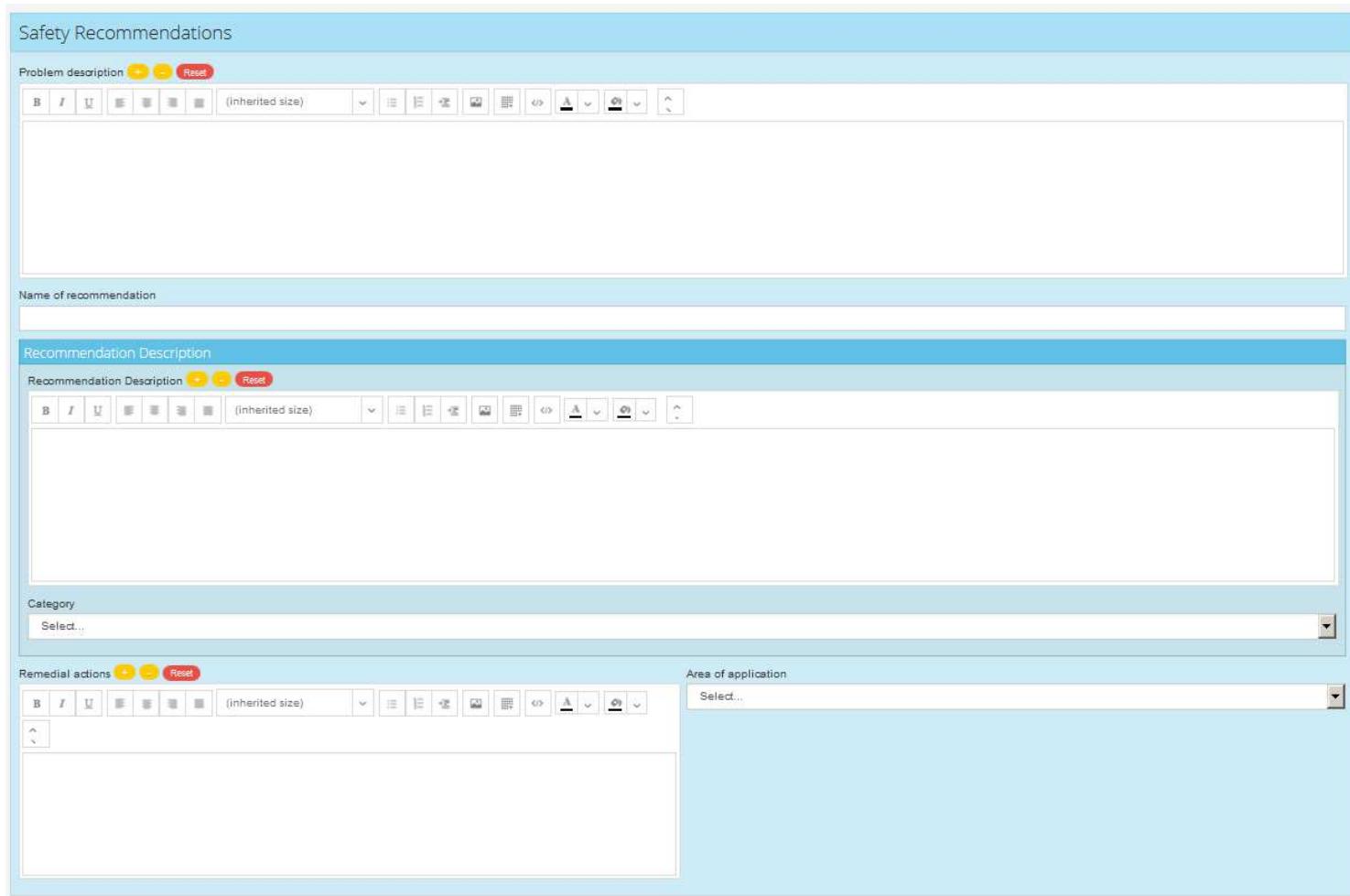


# INDEX



- ▶ **Basic**
- ▶ **Occurrences**
- ▶ **Reporting**
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- ▶ Recommendations will be noted in parallel to the improvement DB
    - tracking via improvement DB
    - Occurrence - Status set to investigation completed when recommendation is publicated with the final report



# OCCURRENCE MANAGEMENT



**Thank's for your attention**

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