

FLIGHT
SAFETY
FOUNDATION



SINGAPORE
March 26-29

SINGAPORE AVIATION SAFETY SEMINAR

SASS 2018

Change Management: Aircraft Maintenance Activities

*Flight Safety Foundation | 4th annual Singapore Aviation Safety Seminar
Presented by Christine ZYLAWSKI*

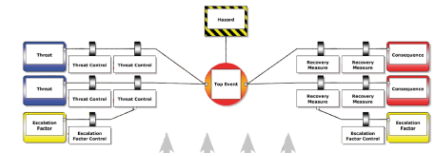


AIRFRANCE 
INDUSTRIES

Change Management

Continual improvement

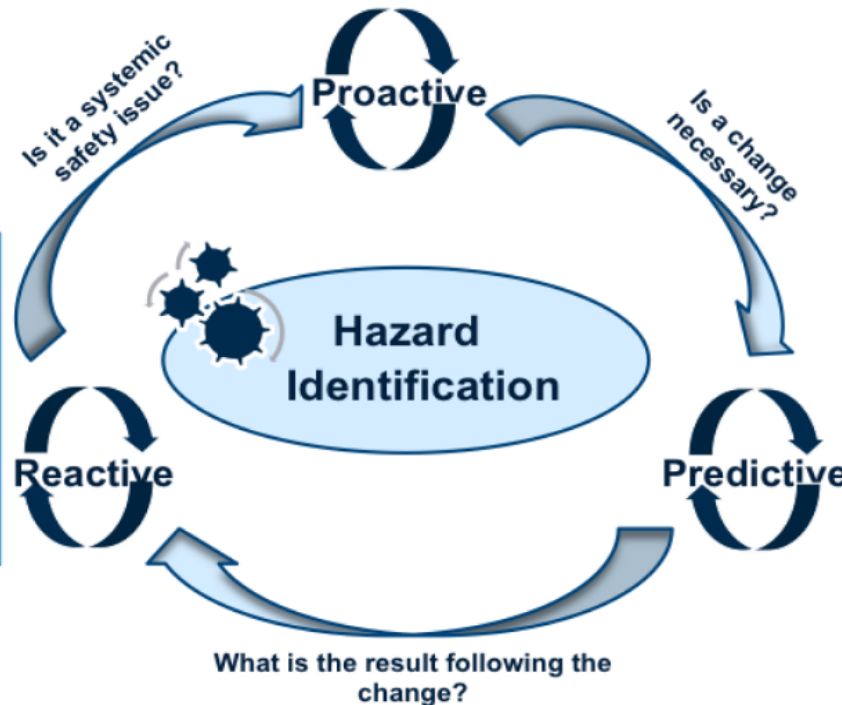
Identification of the **barriers' weaknesses**
 Systemic risk analysis of hazards and existing processes formalised in the **Systemic Safety Studies**
 Implementation of the **improvement actions** identified



Question 2				Question 1			
What was the effectiveness of the remaining barriers between the event and the most credible accident scenario?				If this event had escalated into an accident outcome, what would have been the most credible outcome?			
Effective	Limited	Minimal	Not effective	Catastrophic Accident	Major Accident	Minor injuries or damage	No accident outcome
50	102	234	258	Loss of aircraft or multiple fatalities (3 or more)	1 or 2 fatalities, multiple serious injuries, major damage to the aircraft	Minor injuries, minor damage to aircraft	No potential damage or injury could occur
10	21	101	50	Typical accident scenarios	High consequence collision, major turbulence injuries	Personnel accident, minor weather damage	Any event which could or would have an accident overflight over operational airspace (e.g. descent, steep, unusual attitudes)
2	4	20	100				
1							

Event handling

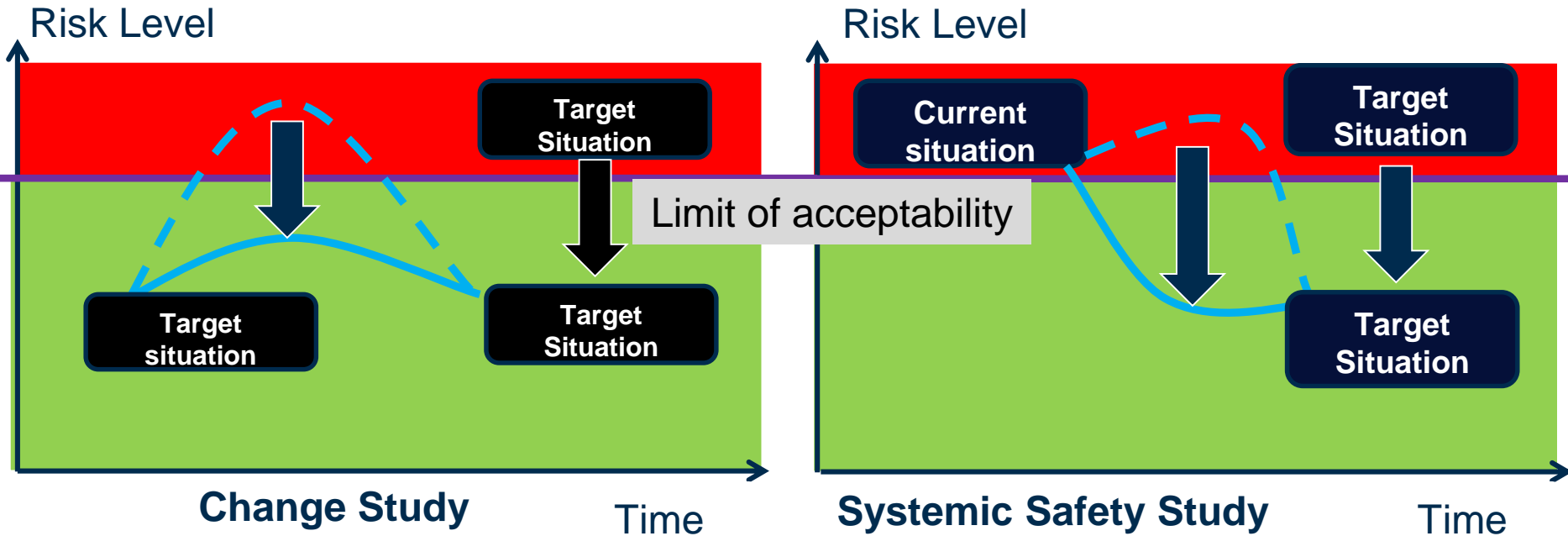
Analysis of the incident/accident events revealing a **confirmed failure** in the barriers
 Classification of the events using the ERC (Event Risk Classification) matrix
 Implementation of **corrective actions** following the analysis



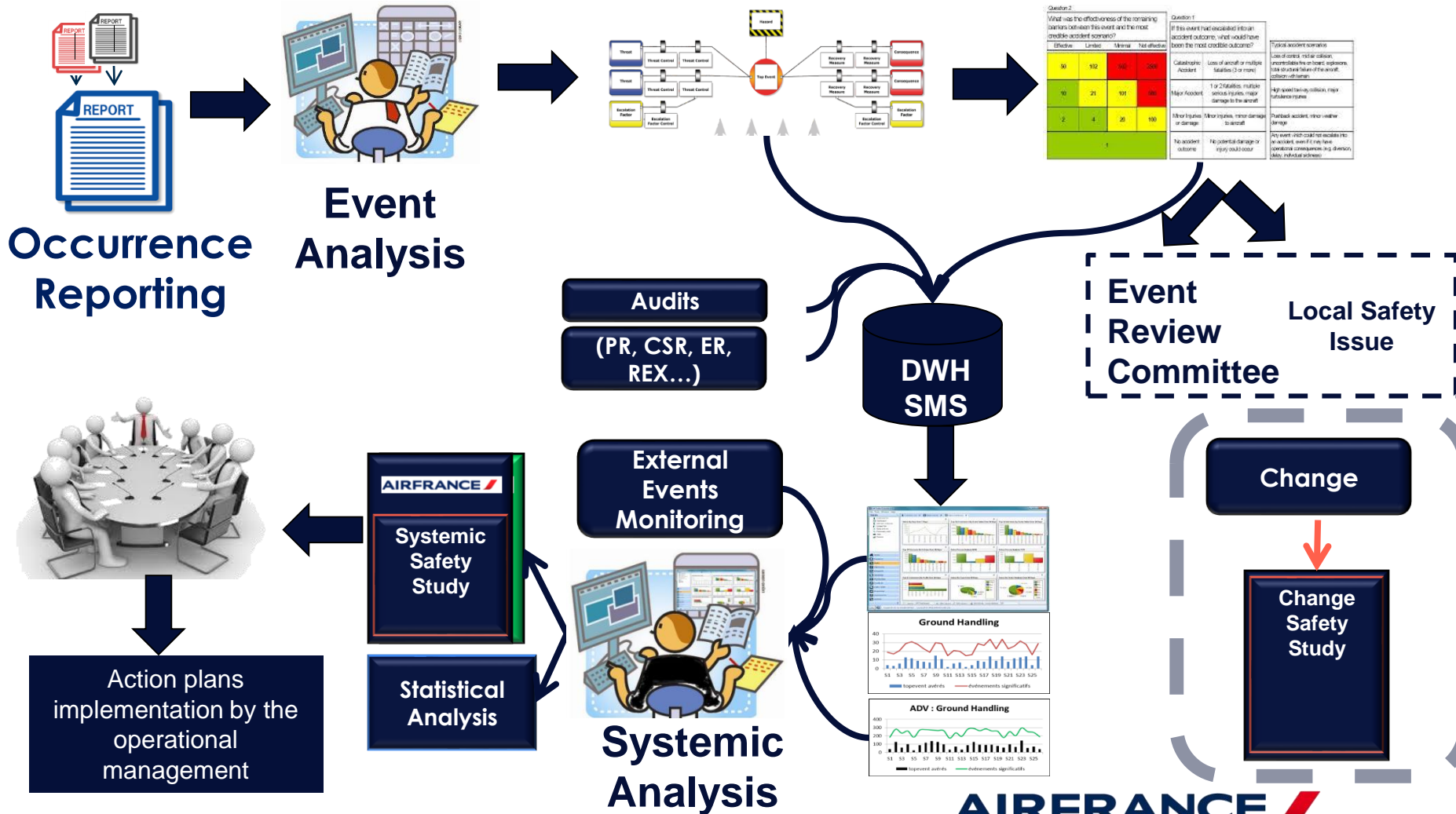
Change

Implementation of **structural changes** to the processes in a bid to improve the safety level
 Assessment of the risk by **anticipating the effects** of all the changes formalised in the **change-related safety studies**
 (the change is a potential hazard)

Change Management



Change Management



Question 2: What was the effectiveness of the remaining barriers between this event and the most credible accident scenario?

Effective	Limited	Minimal	Not effective
90	132	400	200
70	21	101	25
2	4	30	100
1			

Question 3: If this event had escalated into an accident outcome, what would have been the most credible outcome?

Catastrophic Accident	Major Accident	Minor Injuries or damage to aircraft	No accident outcome
Loss of aircraft or multiple fatalities (3 or more)	1 or 2 fatalities, multiple serious injuries, major damage to the aircraft	Minor injuries, minor damage to aircraft	No potential damage or injury could occur
100	100	100	100

Question 4: What accident scenario is most likely to occur?

Accident Scenario	Frequency
Loss of aircraft or multiple fatalities (3 or more)	100
1 or 2 fatalities, multiple serious injuries, major damage to the aircraft	100
Minor injuries, minor damage to aircraft	100
No potential damage or injury could occur	100

Questions & Contact Information



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