



DATA 4 SAFETY

An Airlines Perspective – Capt Martin Timmons
Safety Manager Ryanair



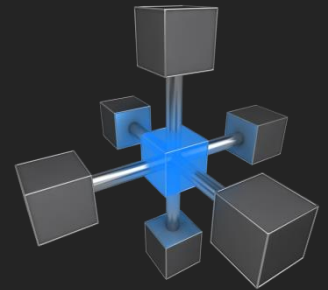
BACKGROUND

Search for precursors of
accidents

“SEE IT COMING”



Risk Based Oversight
“KNOW WHERE TO LOOK”



Need for intelligence,
assembly of data and
serious analytical capacity





“Often events are seen as things to be fixed.....



.....events should be seen as
opportunities to inform our risk
model”

VISION FOR THE FUTURE

Data4Safety

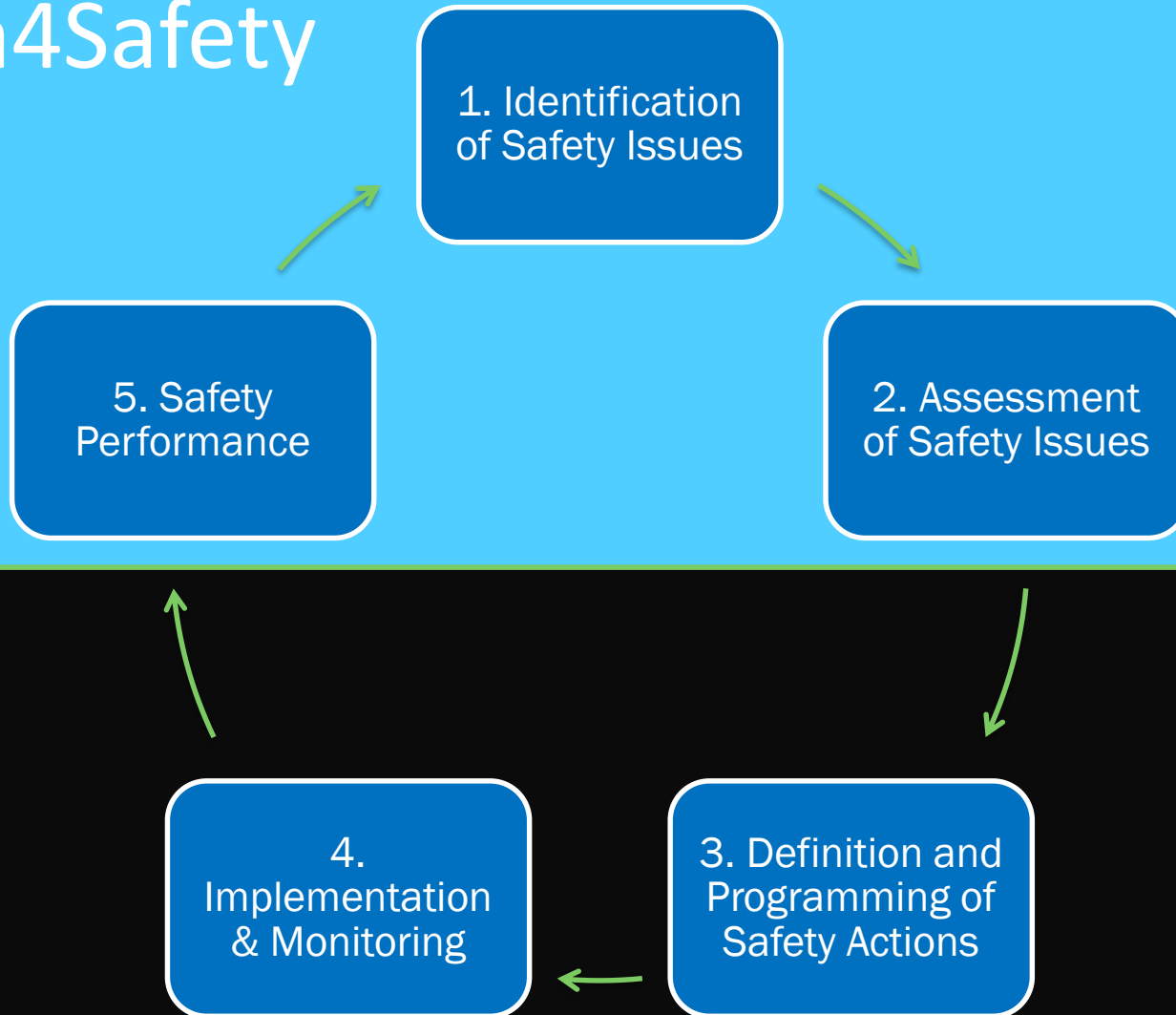
1. Identification
of Safety Issues

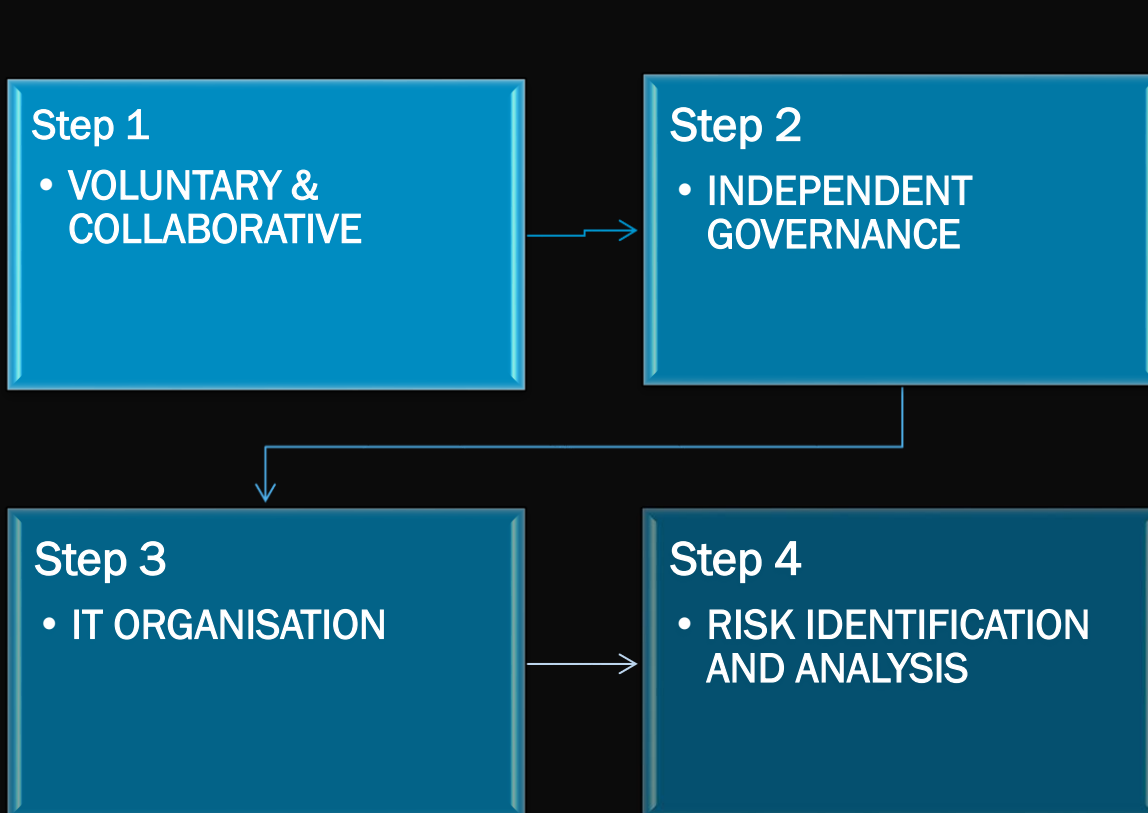
2. Assessment
of Safety Issues

5. Safety
Performance

4.
Implementation
& Monitoring

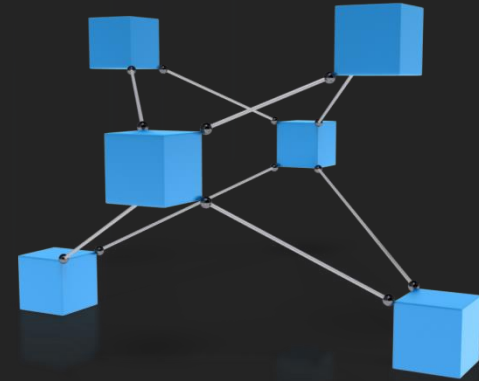
3. Definition and
Programming of
Safety Actions



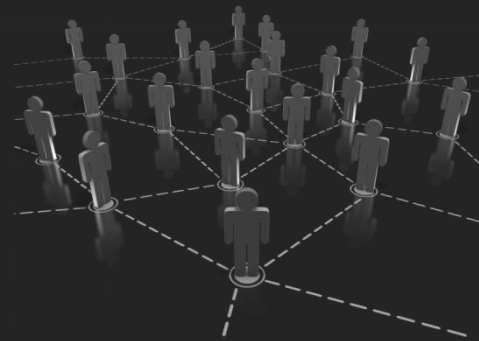


TARGETED DATA

SAFETY REPORTS
FDM



WEATHER
ATM





DATA SCIENCE

1

DATA ANALYTICS & MINING

2

BIG DATA

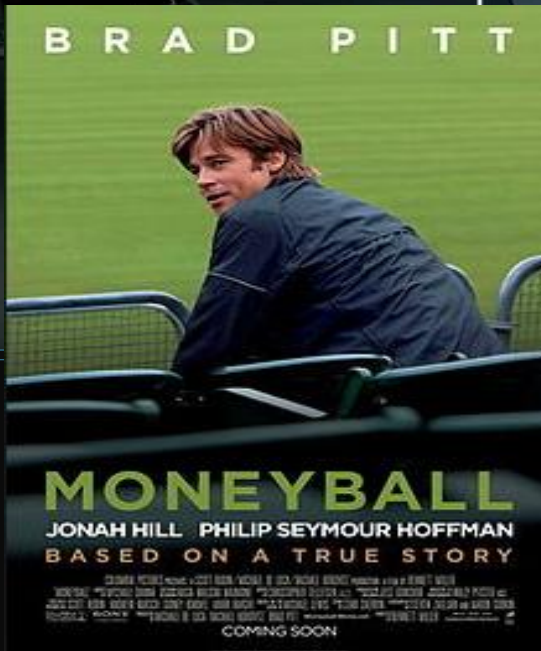
3

STATISTICS

4

MACHINE LEARNING







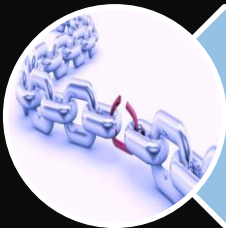
Metrics



Blind Benchmarking



Directed Studies



Vulnerability Discoveries

08:14

RT C

Frieda Heinz
'Crashproof' Motorrad

THANK YOU



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