

# 4th EOFDM forum Conference



Italian Flight Safety Committee

**Flight Data  
Monitoring  
&  
Occurrence  
Reporting**

# Rationale of FDM & Reporting

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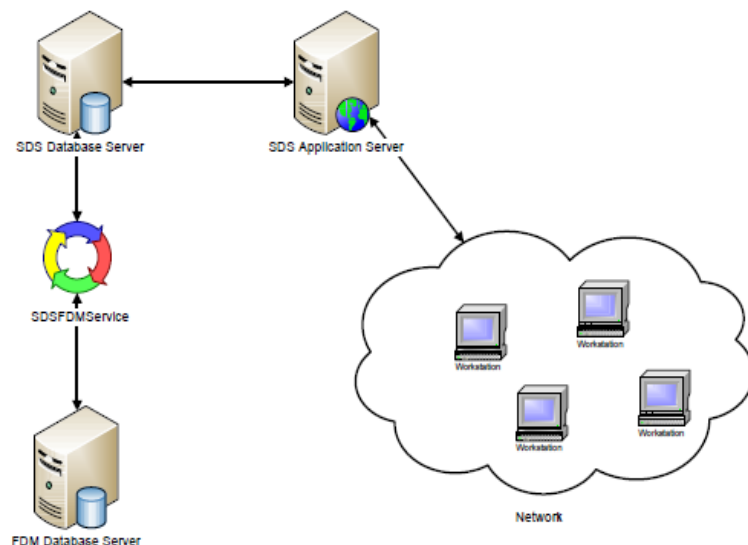
SMS is based on feedback from FDM and Reports

FDM and Reporting are independent but focus on similar issues (same events, same exceptional responses of hardware and technology, also as a consequence of a human decision.....)

# Rationale of FDM & Reporting

It makes sense to combine them (same story telling from different perspectives)

the amount of insight about the flight development is improved



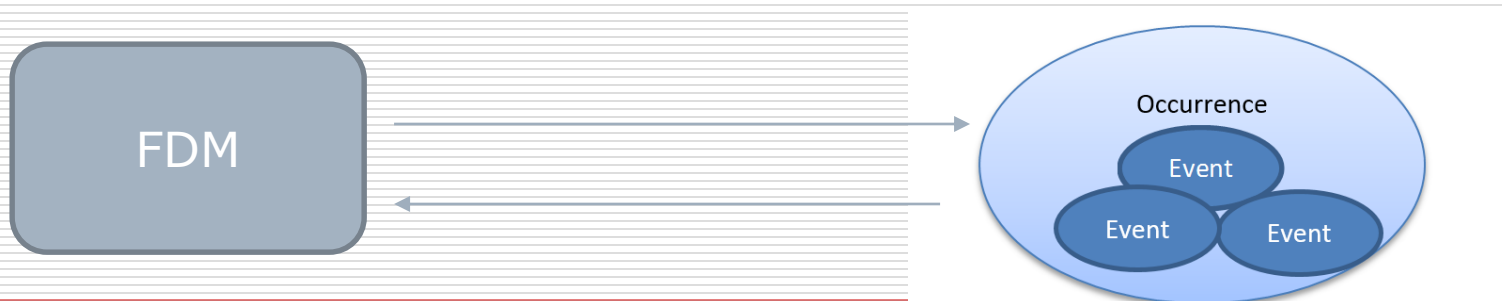
# Differences between FDM and Reporting

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- FDM: objective and strictly linked to hard data relating to deviation from expected normal behaviour (plus variation)
- Reporting: subjective and associated to the reasons of certain facts and measures
- FDM: Enormous amount of data collected
- Reporting: text and reference data that needs translation in a formal IT system (taxonomy, e.g., ADREP)

# Harmonised integrated system

- FDM can improve the Reporting with hard and objective data
- Difference between perceived and real performance of the system
- Severity of consequences is strongly affected (e.g., un-stabilised approach)



# Harmonised integrated system

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- Certain data are not retrievable from FDM but are found in Reporting (e.g., Checklist performed by pilots)
- SPI/KPI improvement (e.g., number of un-stabilised approaches from FDM and from Reporting need to be combined for a better estimation of a safety culture
  - *better safety culture means increase number of reports and reduced number of unsterilized approach... till they meet*

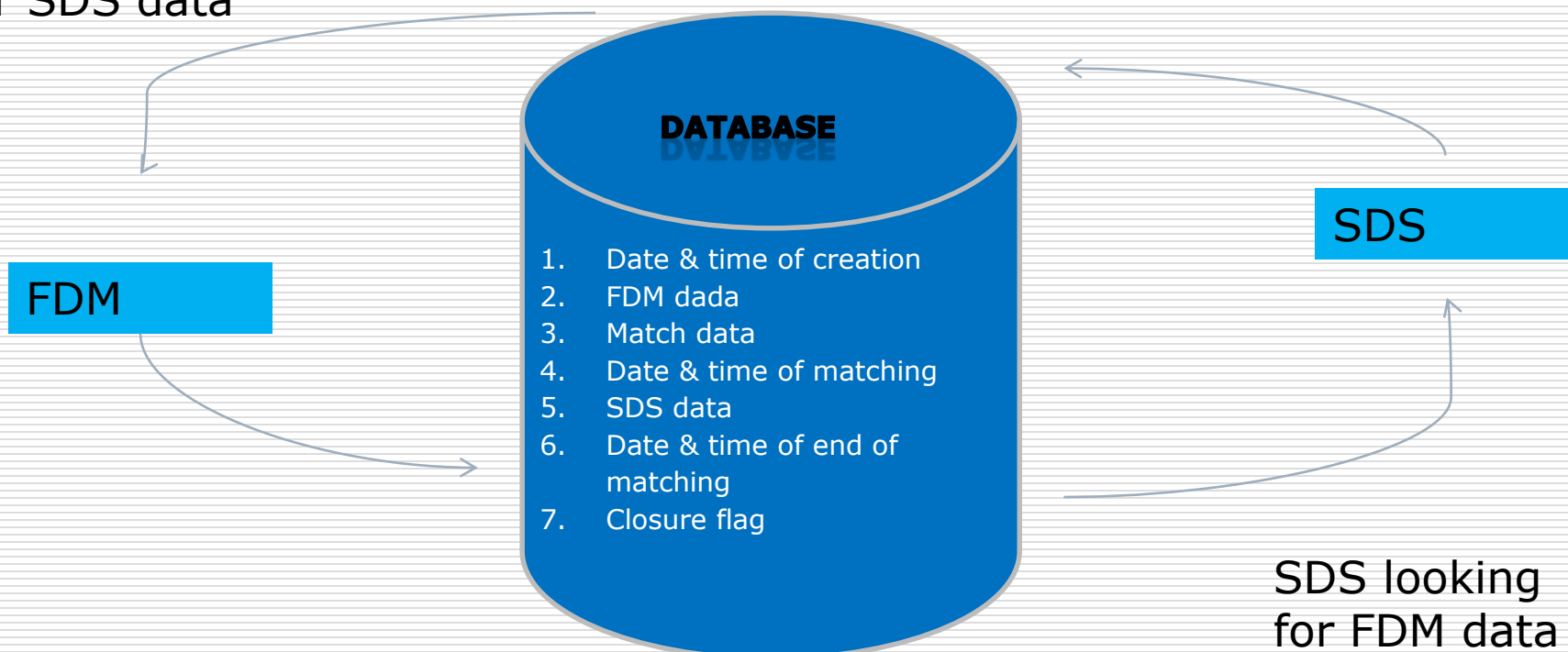
# Harmonised integrated system

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- Improve the ultimate goal of SMS .... i.e., use a consolidated Risk Matrix and sufficiently reach information for associating severity values to events/sequences
  - An harmonised Risk Matrix can be utilised and improved:
  - ERC and Risk Matrix (with frequencies) can be harmonised for the evaluation of the severity of Events and/or occurrence

# How this can be done

FDM looking  
for SDS data



\* **KITE** SOLUTIONS SDS Safety Database System



# How this can be done

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- Software issue can be resolved by using “open systems” which enable the import-export of data
- Semi-automated systems (validated)
- Research and discussion is necessary