

5 years of Self-Debriefing

Any Flight Safety
indicator trends ?

Capt. Vincent Durel

Airbus A320neo
Flight Safety Officer – FDM Manager



transavia

D10X

AIRBUS

Transavia France in a few figures

22

Airbus
A320neo

68

Boeing
737-800

14

millions
passengers
in 2024

+1000
pilots*

3400
employees*

100

Airbus A320/A321neo
by 2030

+130 destinations

France, Europe
Mediterranean Basin, M.East

*2025



transavia

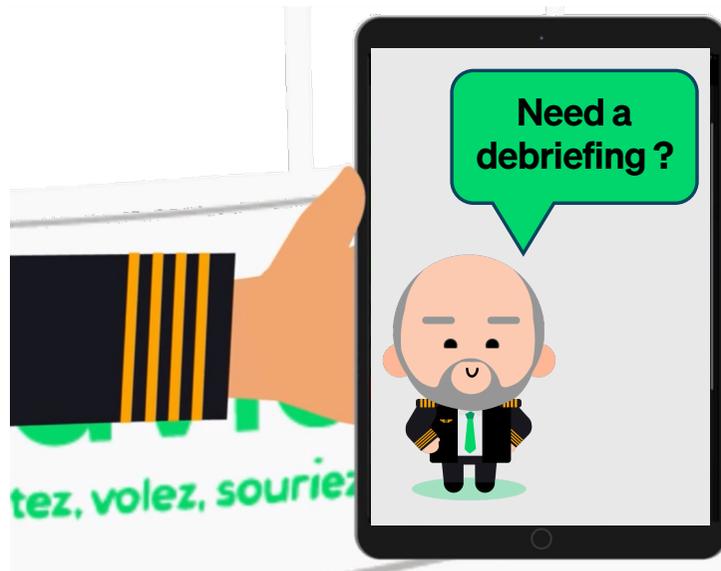
FDM & pilots: Change the perception



Switch from recipients to actors

Self-Debriefing App: Design

many features to define:



- Hardware ?
- Event Markers ?
- Statistics ?
- Data access ?
- Communication tool ?
- Cybersecurity ?

Self-Debriefing App: Let' Start

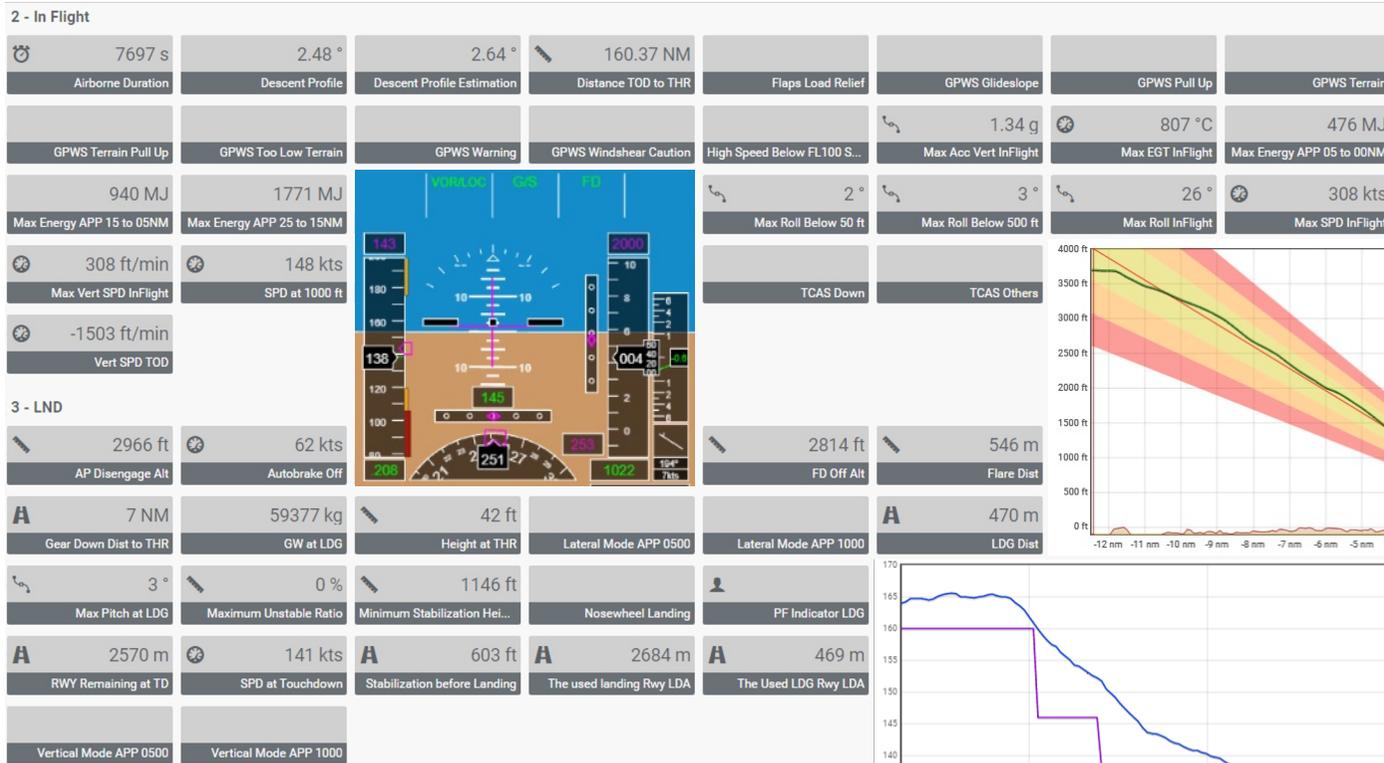


All GO! Conditions:

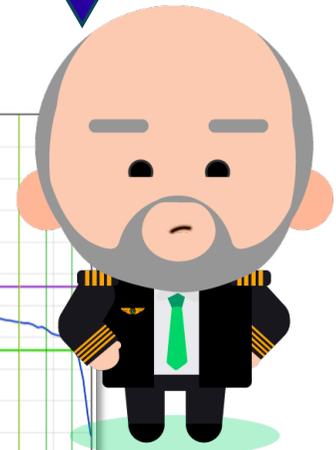


- Presentation of the prototype to the representatives of the Pilots' Unions.
- Evaluation of the App with a pool of Beta testers.
- Selection of Events & Snapshots according to feedbacks.
- Communication to pilots.

Self-Debriefing App: Contents ?

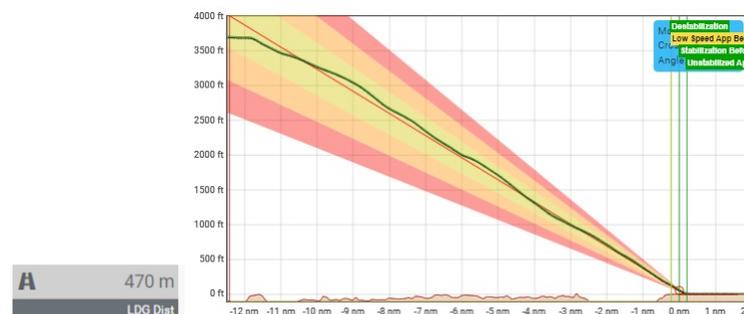


Yes...
But is it
relevant ?



Too much information
clutters the data

Self-Debriefing App: Golden Rules !



Less is more!*

Less curves
More pictures

*Ludwig Mies van der Rohe



Self-Debriefing App: Demo



Self-Debriefing App: Quick Overview

The app provides:

- Flights History (2y)
- Flight Events
- Flight Stats
- Dep/Arr METARS
- Messaging with FSO
- Replay in 2D
- Replay in 3D
- Stats on Events (12mo)
- Stats on Snapshots (12mo)
- Stats on airports (6mo)



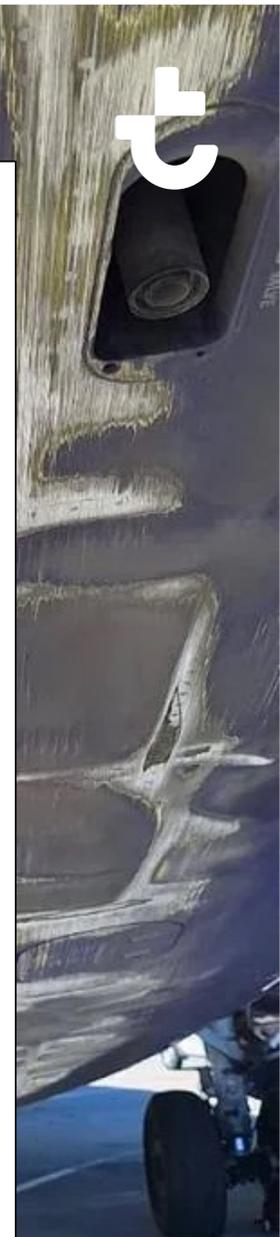
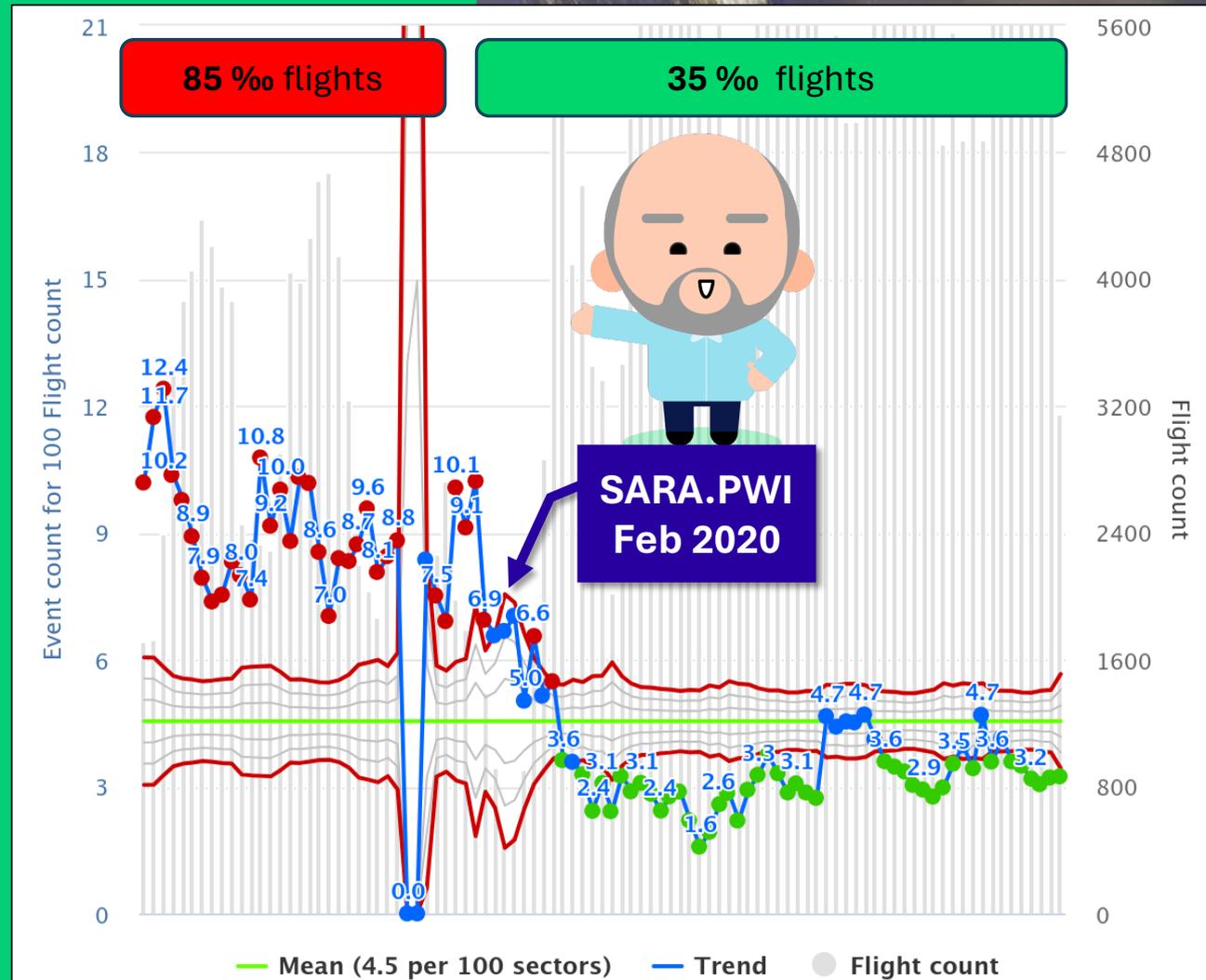


➤ Any trends on events ?

High Pitch Rate

All Severities

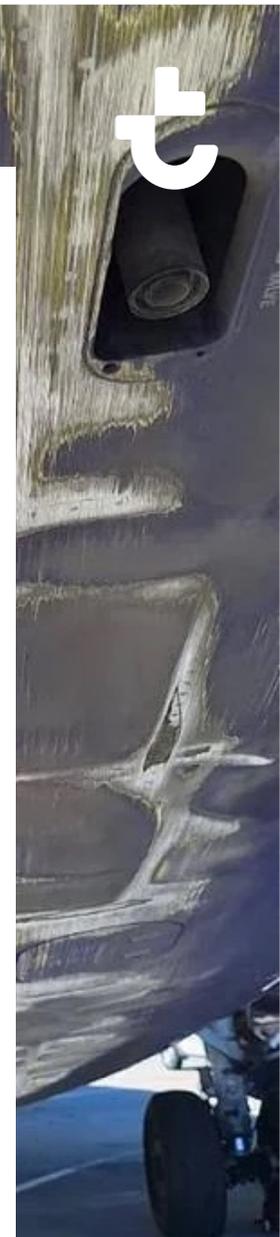
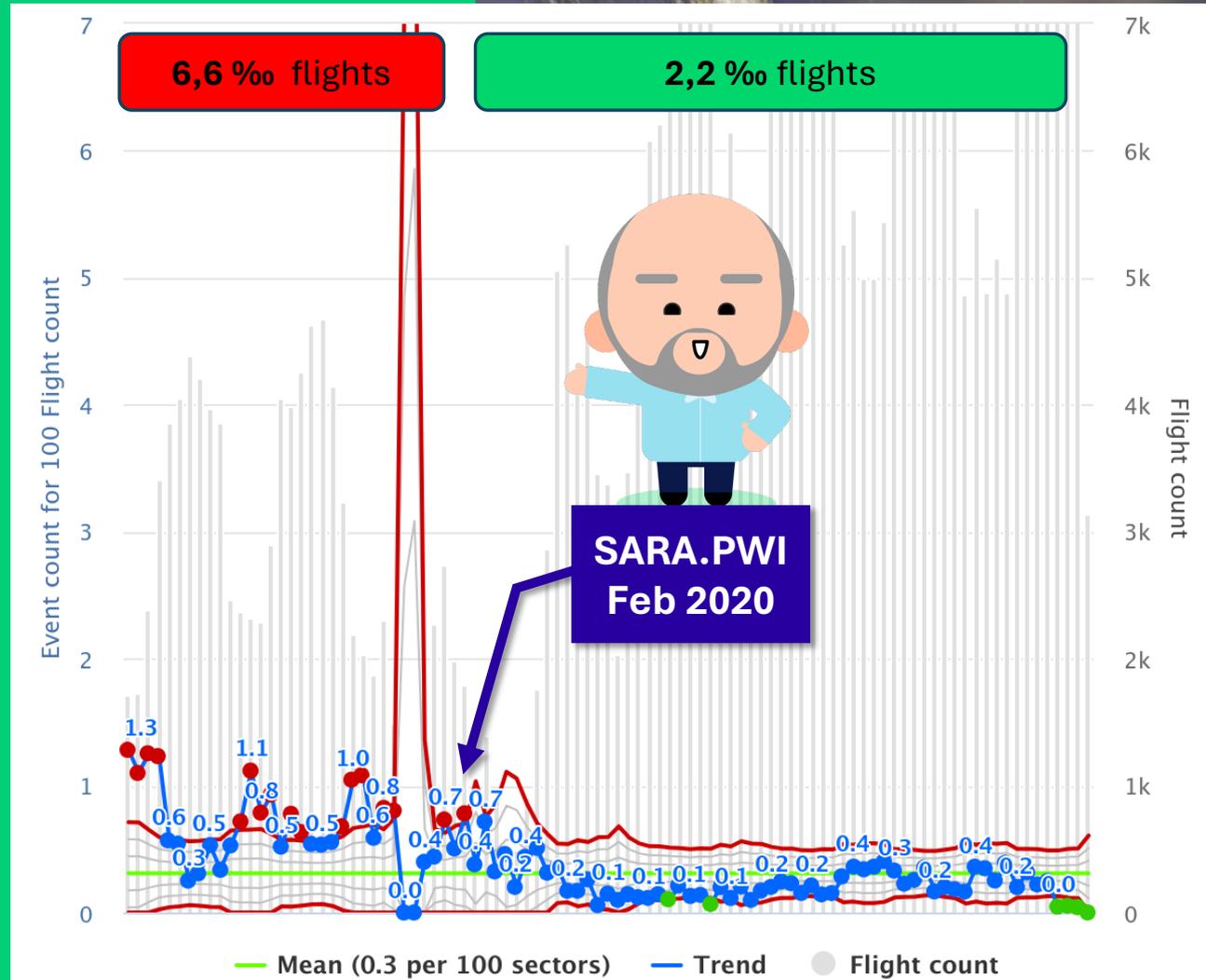
Pitch Rate: +3.5°/sec



High Pitch Rate

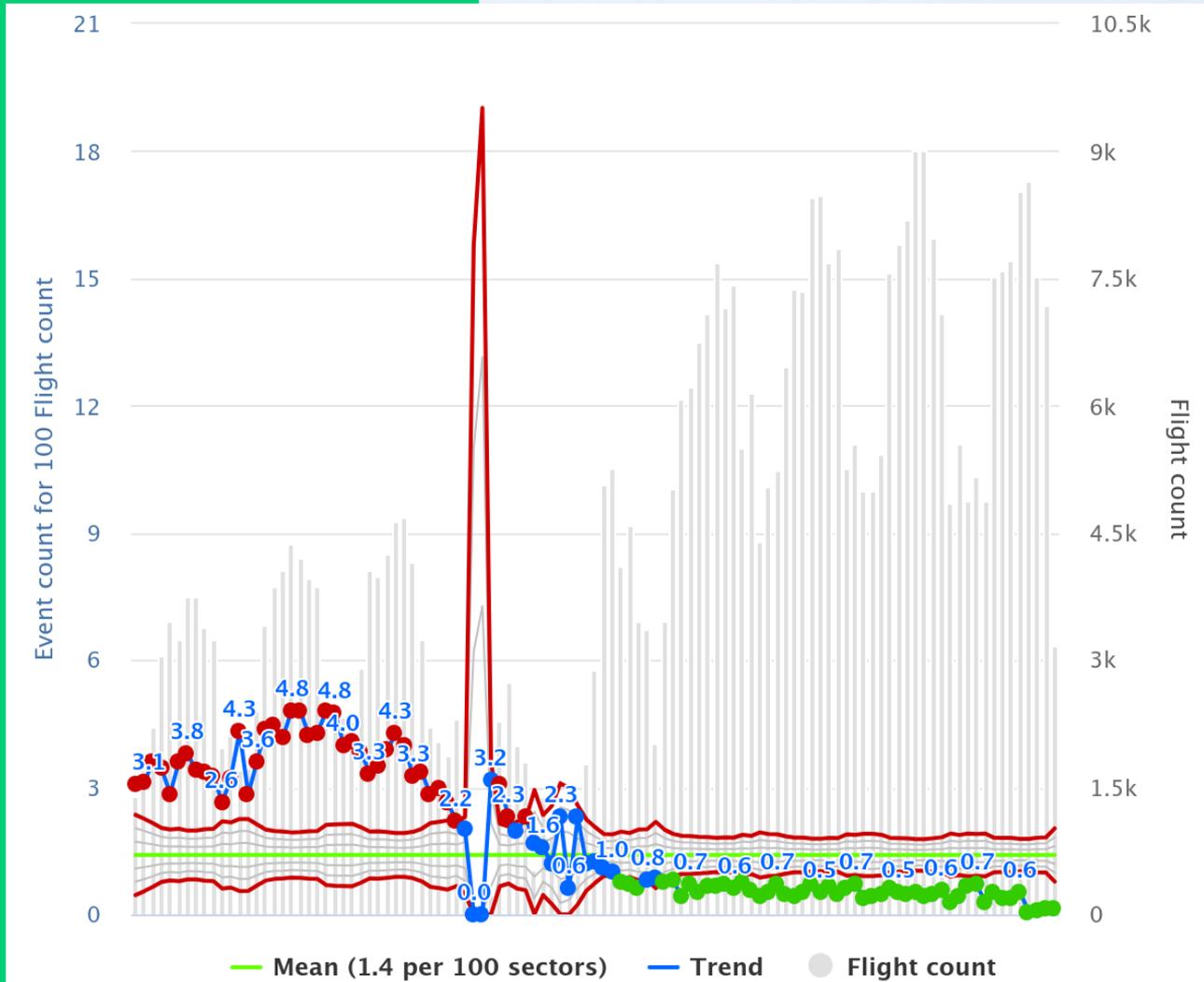
Med & Hi Severities

Pitch Rate : +4.0°/sec



High Speed FL100/10,000ft

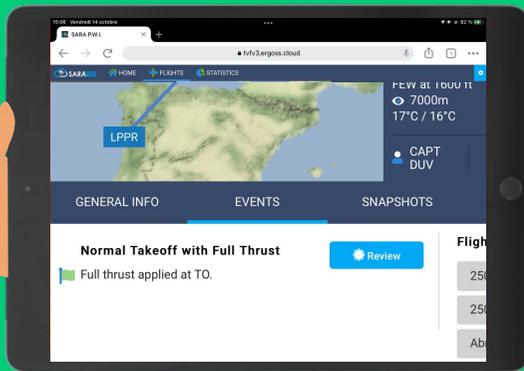
Med & Hi Severities





➤ **One more thing...**

Self Debriefing: Hidden Events



Regarding Event: Full Thrust TO

2021-10-14 1215Z CPT

« Hello, I do not understand why it is written Full Thrust at TO. Indeed we made a takeoff with Assumed temperature.... »

Hello,

Thanks for your message. The Flight Analysis confirms the Full Thrust TO. V Speeds V1, VR and V2 are computed Speeds for an Assumed Temperature of 62°. You may find all parameters by selecting the link below.



Regarding Event: Full Thrust TO

2021-10-14 1215Z CPT

« Thank you for your feedback. After discussing with my Instructor, I remember we had a runway change just after we've inserted V Speeds and Assumed Temp in the FMC. Then, we only inserted new V Speeds and... the new Assumed Temp has been purely forgotten... So, I'll send you an ASR. »

**Without the Self Debriefing,
this would have been a Hidden Event.**

Self-Debriefing App:

1022
users



+70
messages
per month

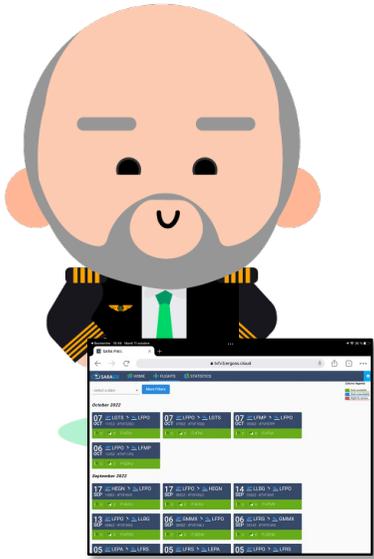
1 → +10
sessions
per
user
per
month

+750 pilots
connected each month

25k to 35k
sessions per month

2025

Self Debriefing: Pros



- Easy to use and easy to manage.
- Demonstrated positive impact on several FDM indicator trends, helping to mitigate operational risks.
- Enhanced pilot involvement in the FDM process — they are no longer just recipients but active contributors.

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- Demonstrated positive impact on several FDM indicator trends, helping to mitigate operational risks.
- Enhanced pilot involvement in the FDM process — they are no longer just recipients but active contributors.
- Improves pilots' understanding of how the FDM process works.
- Strengthens the validation process for low-severity events.
- Provides a secure and user-friendly communication tool.
- Pilot feedback is valuable for improving triggers and refining event detection.

Self Debriefing: Points of attention



- Requires extensive communication before deployment.
- Needs regular communication about Events and their purpose.
- Be attentive to privacy-related questions and address concerns clearly.

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- Requires extensive communication before deployment.
- Needs regular communication about Events and their purpose.
- Be attentive to privacy-related questions and address concerns clearly.
- Remember that not all pilots are tech-savvy or IT specialists.
- Avoid overwhelming users with statistics or Snapshots — less is more.
- Select only the Events that are truly relevant.
- Be aware that some pilots may be tempted to “fly the FDM,” adjusting their behavior just to avoid triggers.



➤ **Strengthen bonds of trust.**





thank you!

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