Flight Safety Conference

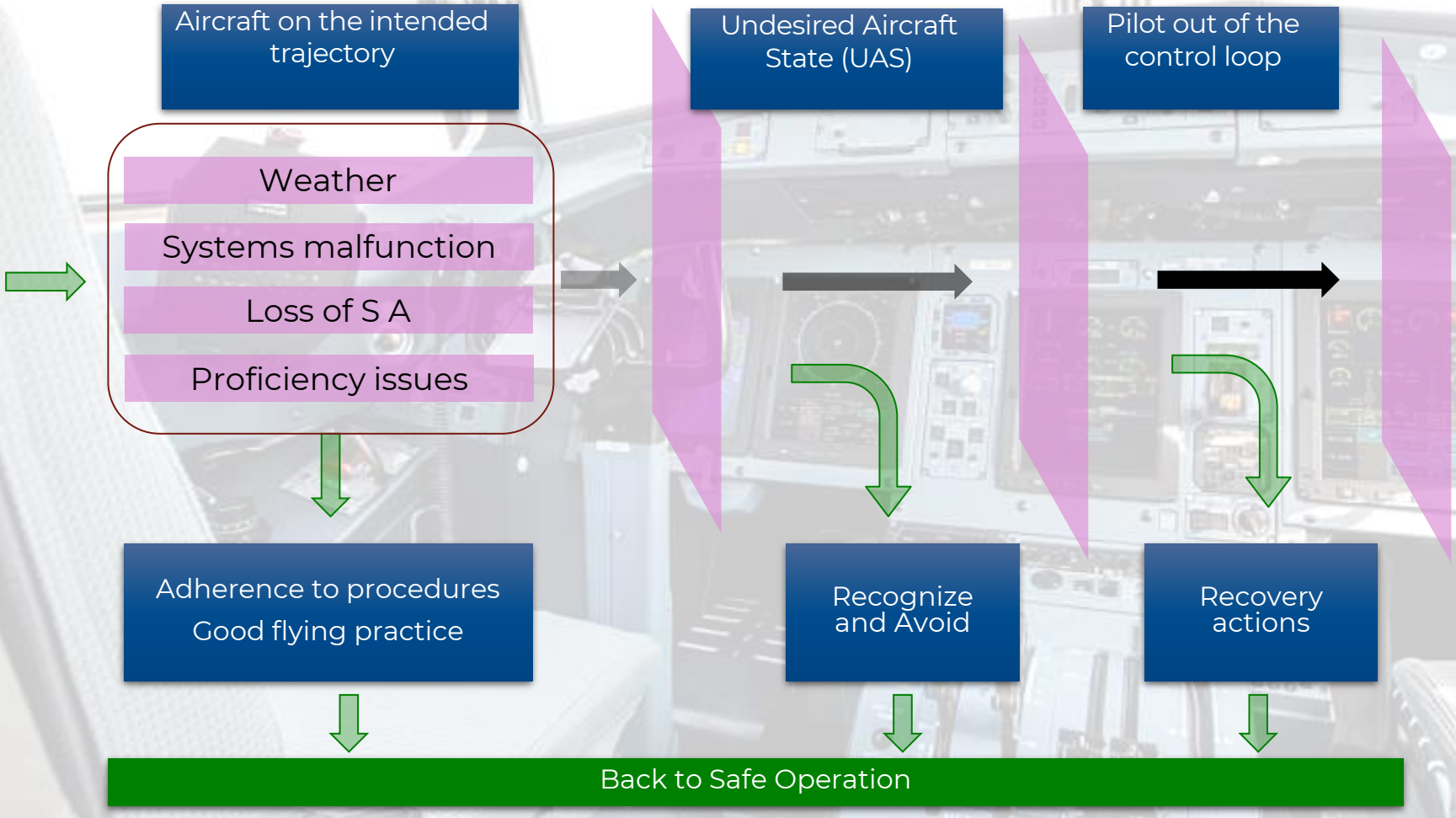
29th – 30th November 2023

UPRT Training Policy

Herve BARTHE

Head of Flight Training

TEM Concept


Aircraft on the intended trajectory
Undesired Aircraft State (UAS)
Pilot out of the control loop
Weather
Systems malfunction
Loss of S A
Proficiency issues
Adherence to procedures
Good flying practice
Recognize and Avoid
Recovery actions
Back to Safe Operation

TEM Concept

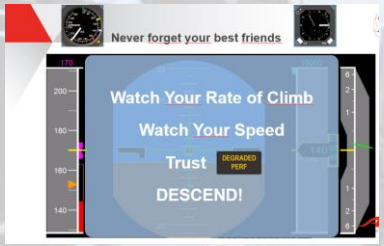
- Weather
- Systems malfunction
- Loss of S A
- Proficiency issues

Adherence to procedures
Good flying practice

Recognize and Avoid

Recovery actions

2016	2017	2018	2020

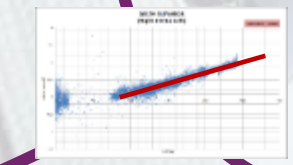


ATR UPRT Training Policy

FLIGHT TEST CAMPAIGN

Full stall / buffet
Objective Datas

Flight test VS Model
(engineering station)



Aerodynamic
identification

Evaluation by SMEs
On FFS Level D
(CAE platform)

About 230 Maneuvers flown and analysed

(42 + 72)

40 hours of tunning on FFS

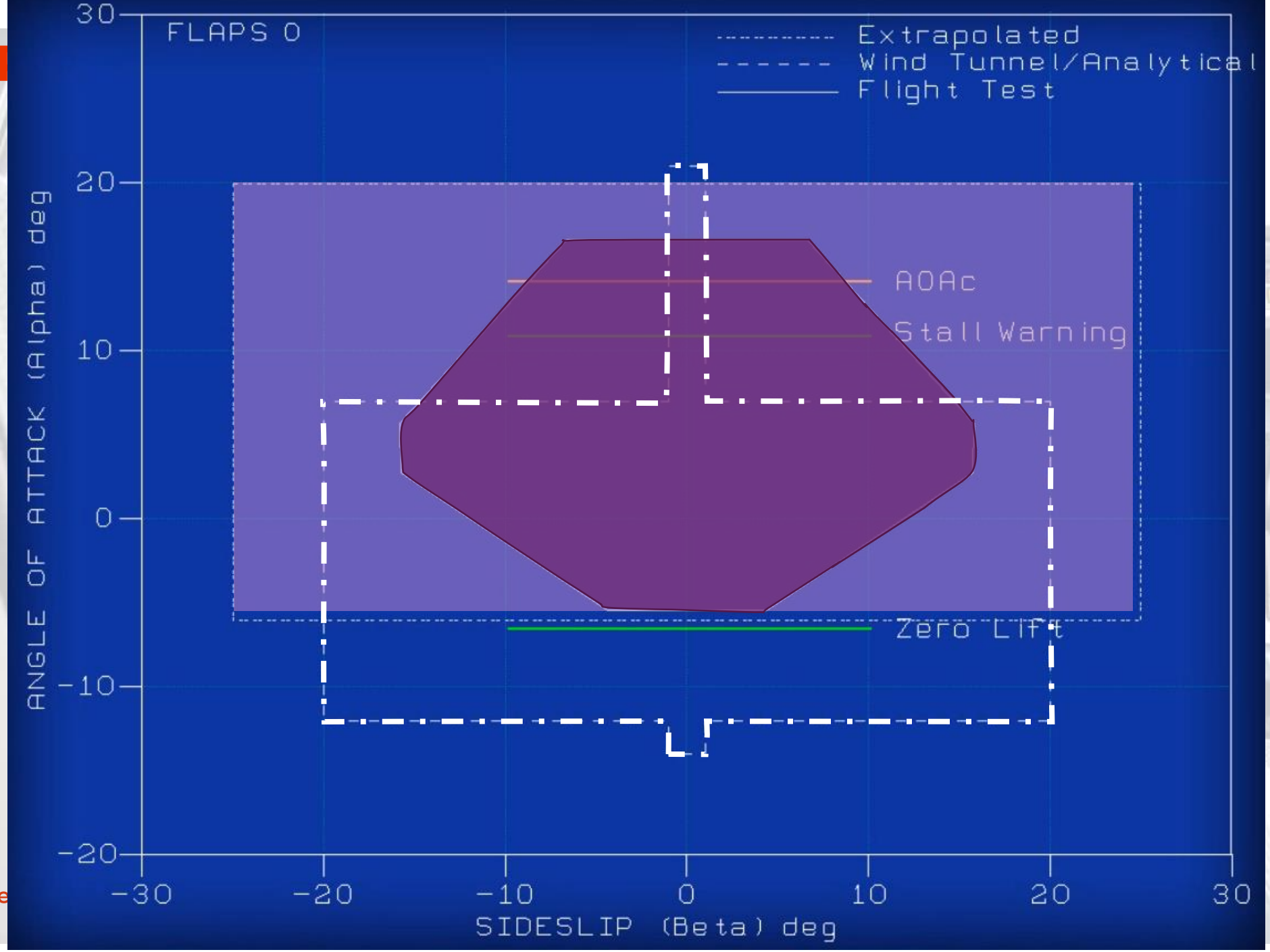
Datapackage
Updated
Accurate up to post-sta

Data Package available for ATR FFS Operators worldwide

ATR UPRT Training Policy

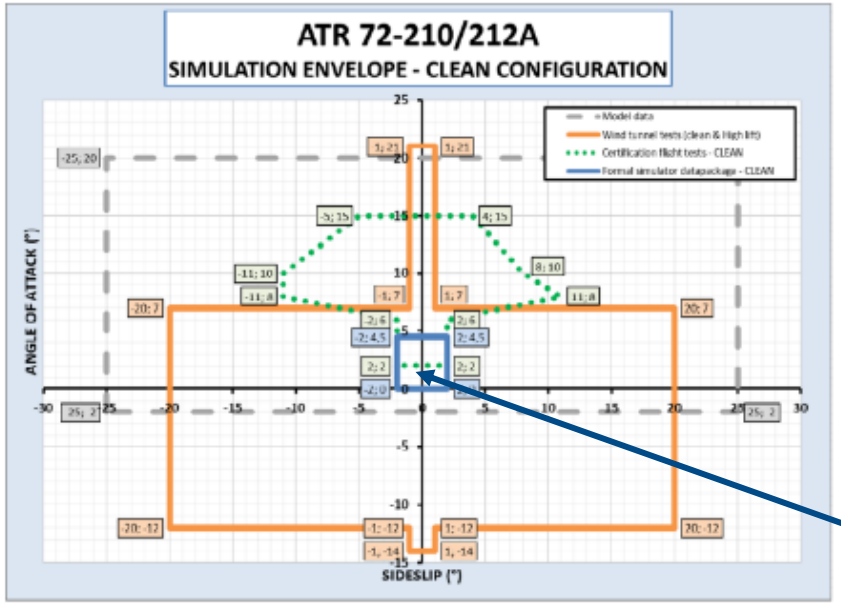
VTE stands for **VALIDATED TRAINING ENVELOP**

VTE

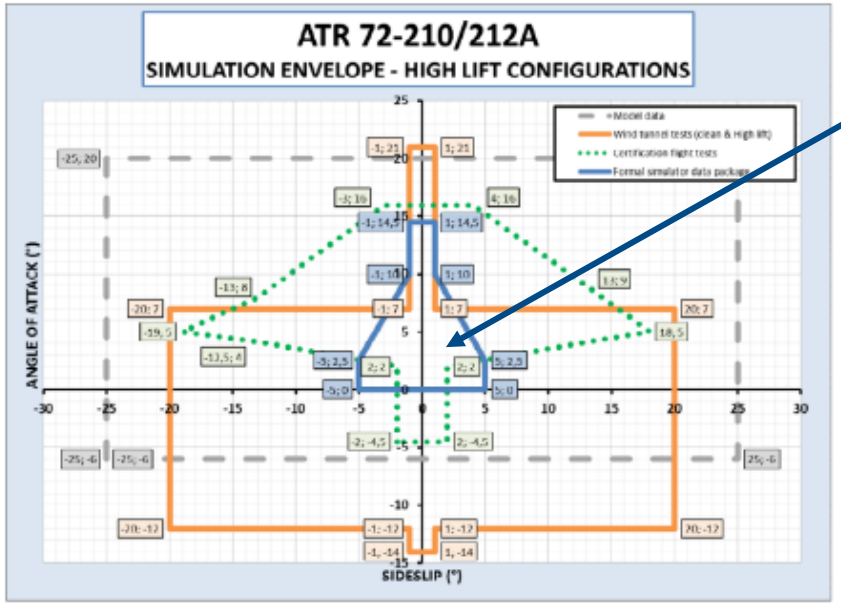

FLAPS 0
Extrapolated
Wind Tunnel/Analytical
Flight Test
AOAc
Stall Warning
Zero Lift
ANGLE OF ATTACK (Alpha) deg
SIDESLIP (Beta) deg
30
20
10
0
-10
-20
-30
-20
-10
0
10
20
30

VTE ATR 72-212A

4.1. Clean configuration



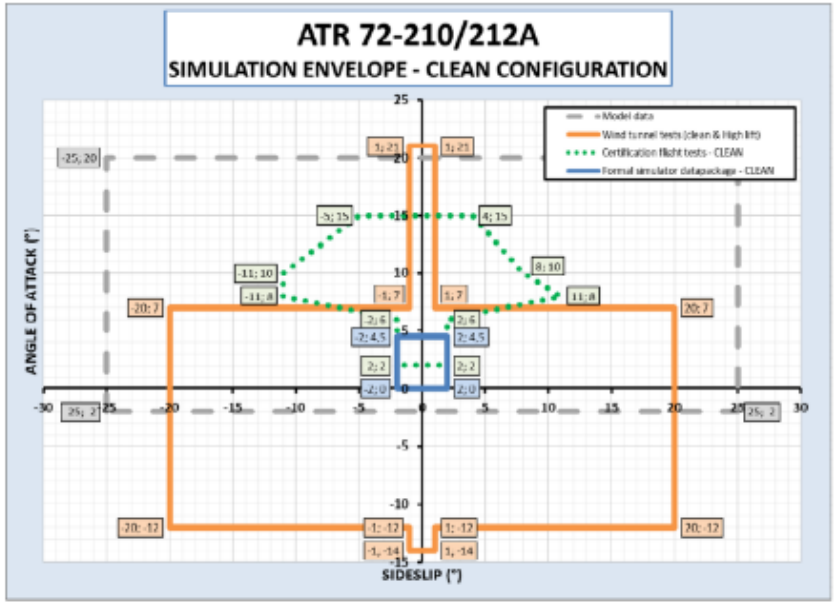
4.2. High lift configurations



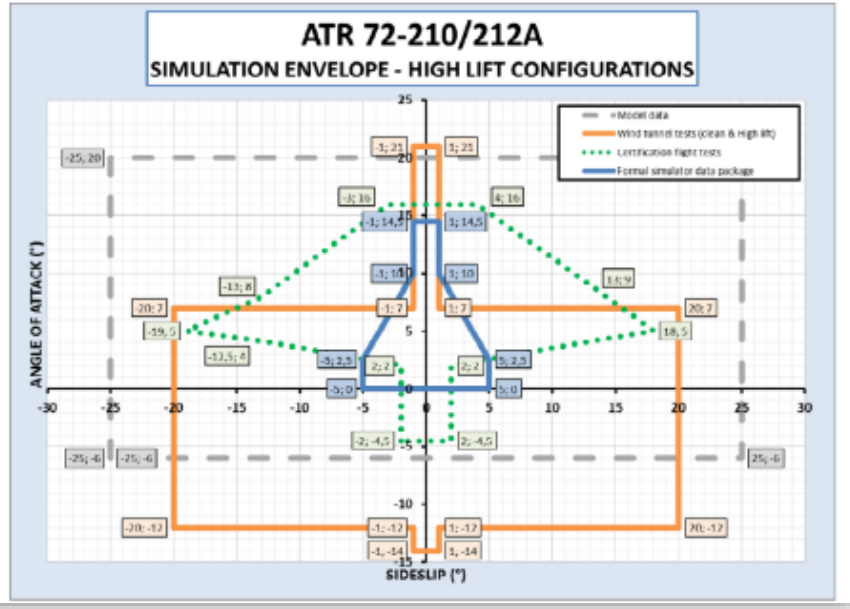
VTE before UPRT campaign

VTE ATR 72-212A

4.1. Clean configuration



4.2. High lift configurations



VTE ATR 72-212A

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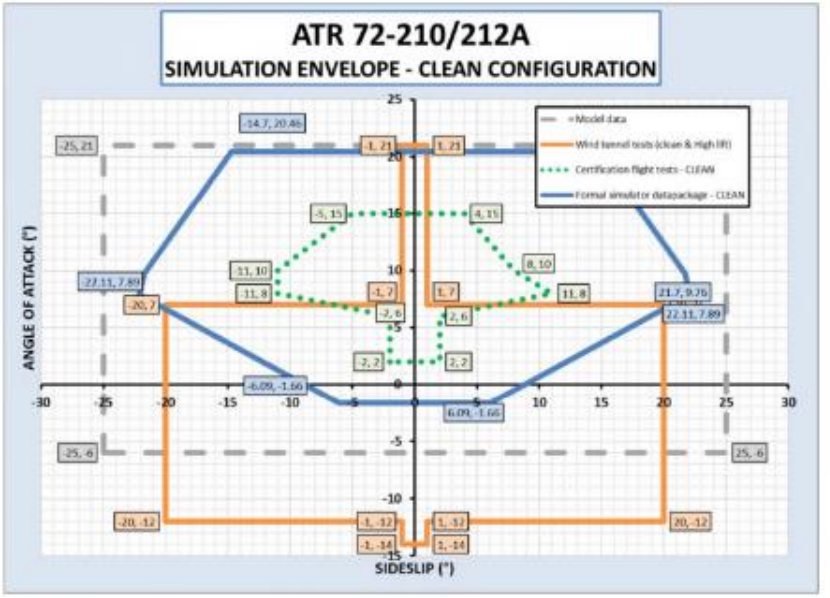
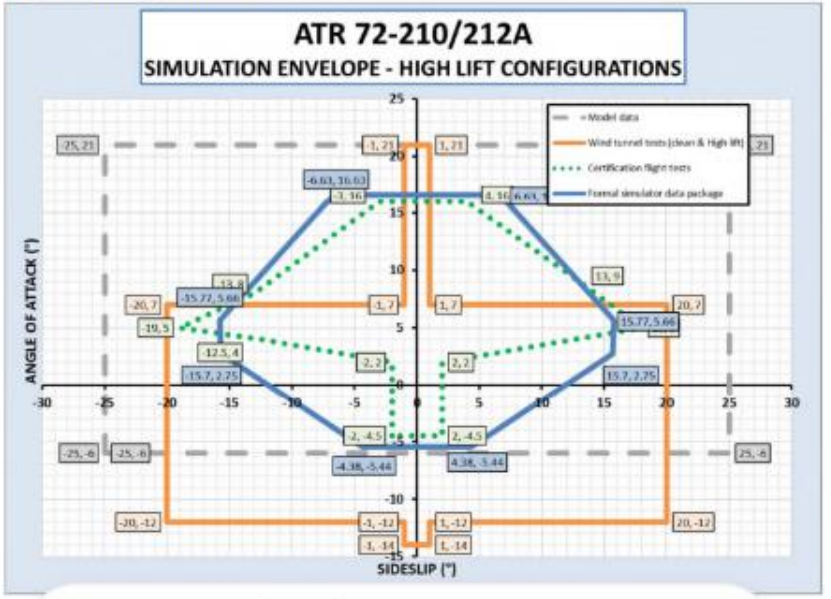
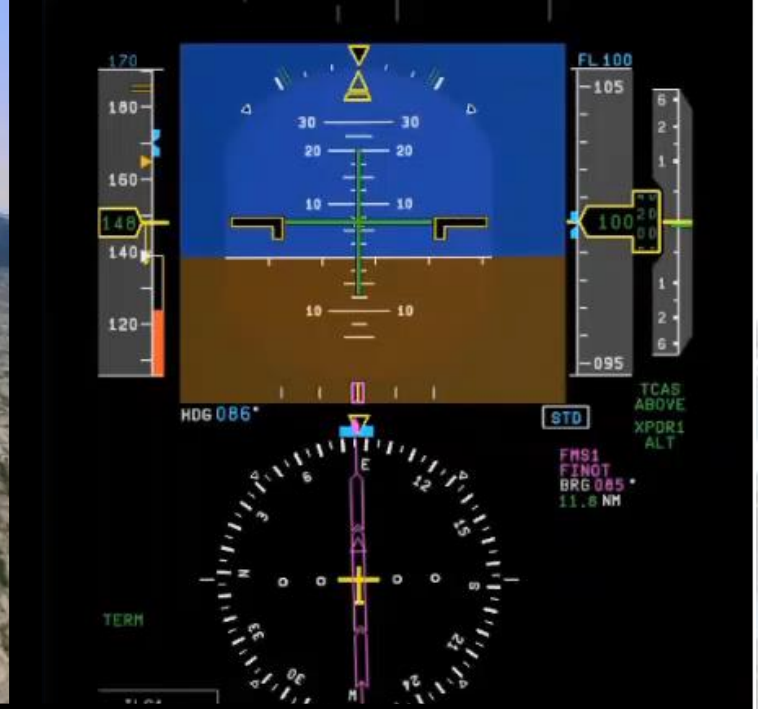


4.2. High lift configurations



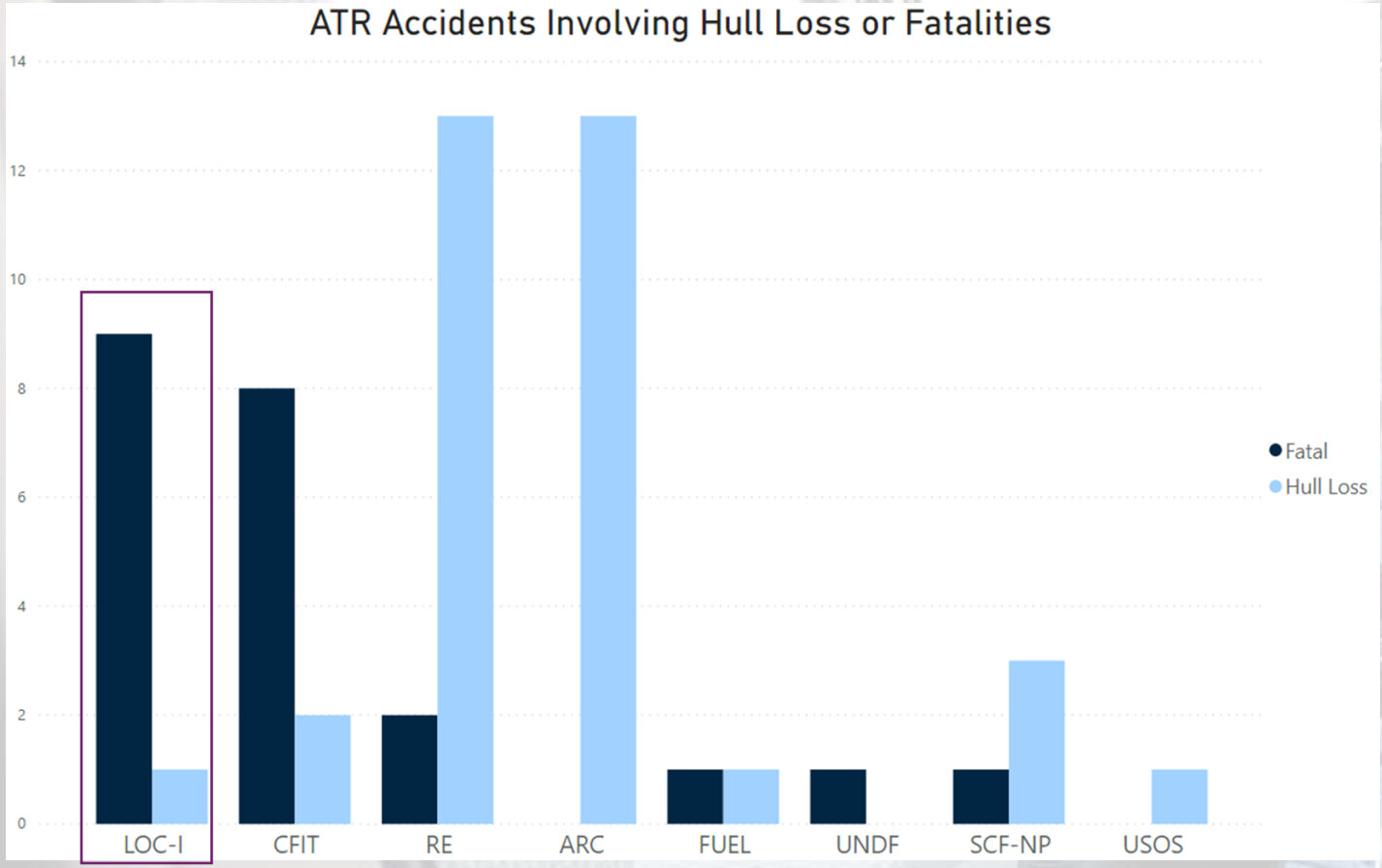
ATR UPRT Tr


FL100
105
095
HDG 086°
STD
TCAS
ABOVE
XPDR1
ALT
FMS1
FINOT
BRG 085°
11.8 NM
TERM


POWER
POWER
CONDITION
FLAPS
PARKING


Extrapolated
Wind Tunnel/Analytic
Flight Test
Stall Warning
Zero Lift
SIDESLIP (Beta) deg

ATR Accidents Involving Hull Loss or Fatalities

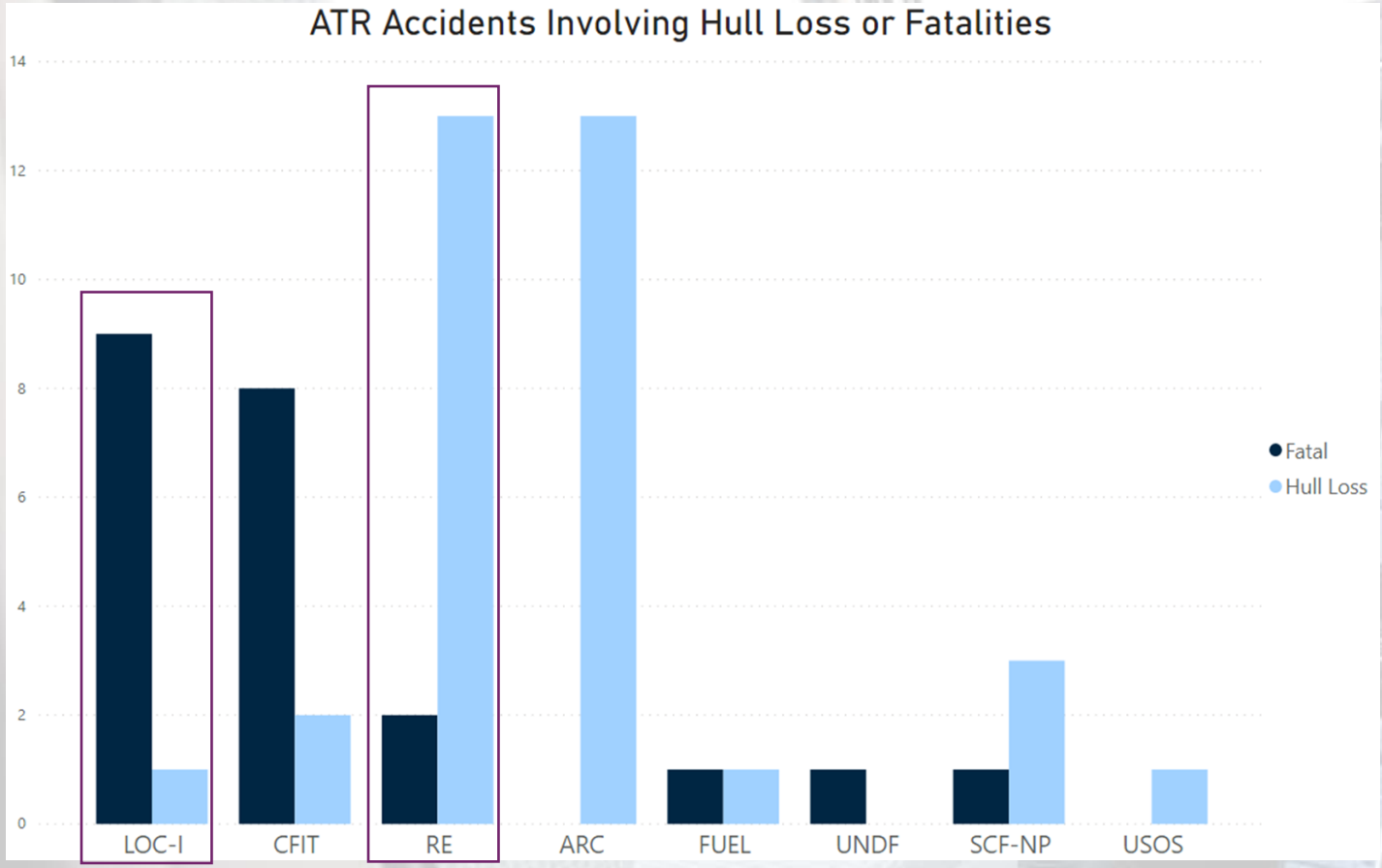


I. Full Stall

II. Unusual Attitudes

III. Icing

ATR Accidents Involving Hull Loss or Fatalities



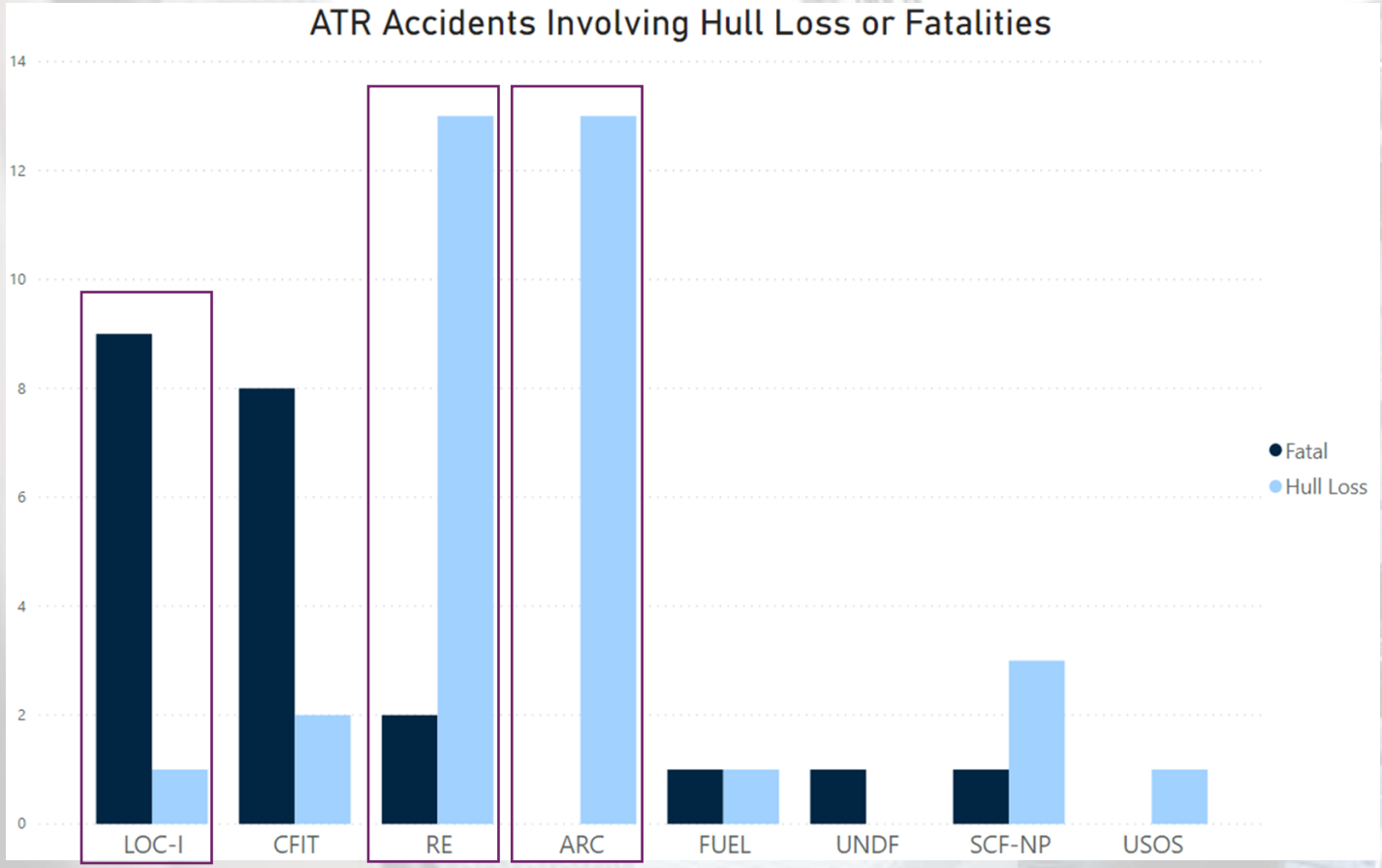
I. Full Stall

II. Unusual Attitudes

III. Icing

IV. Gusting Crosswind

ATR Accidents Involving Hull Loss or Fatalities



I. Full Stall

II. Unusual Attitudes

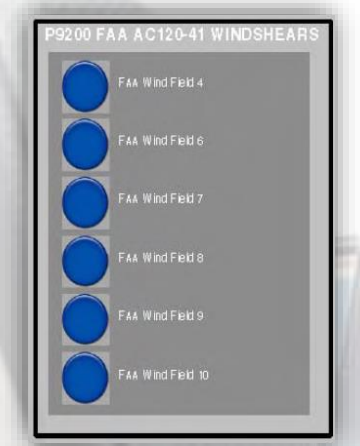
III. Icing

IV. Gusting Crosswind

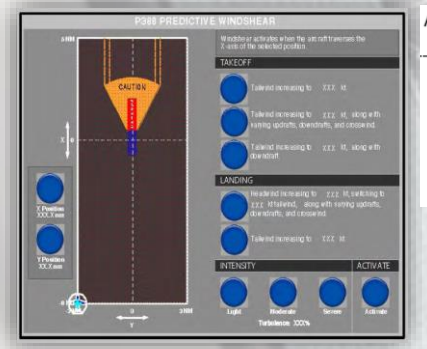
V. Bounced Landing

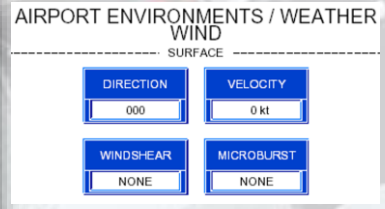
Practical example: Bounced landing

Practical example: Windshear

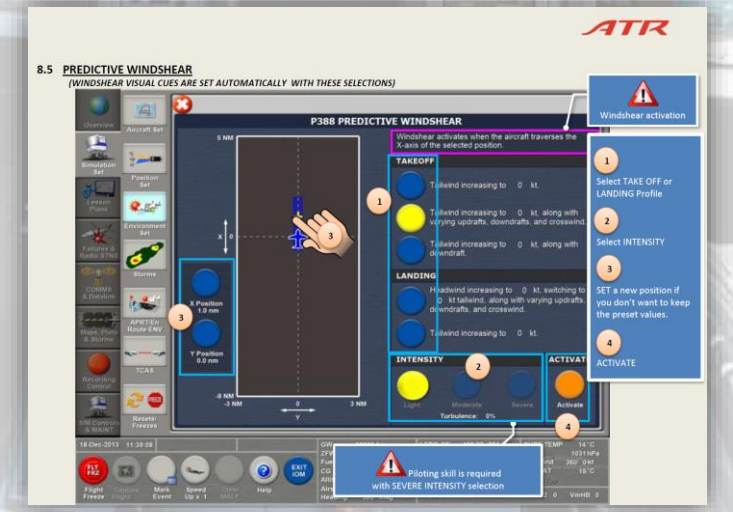


FAA SCENARIO





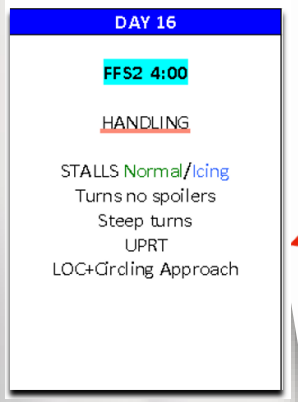
Customized windshear/microburst

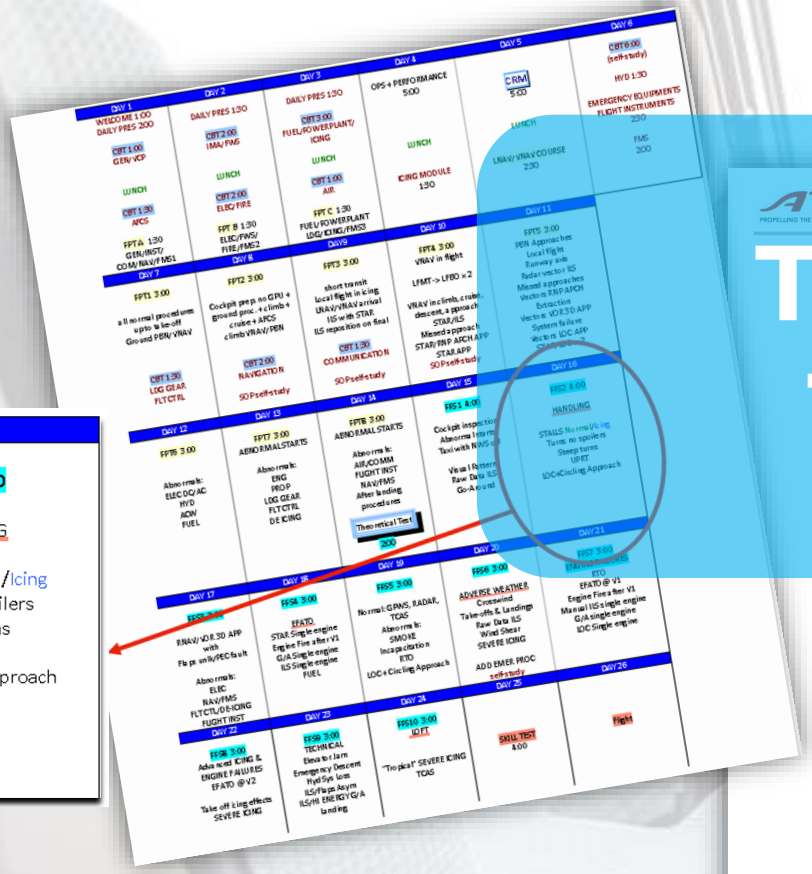


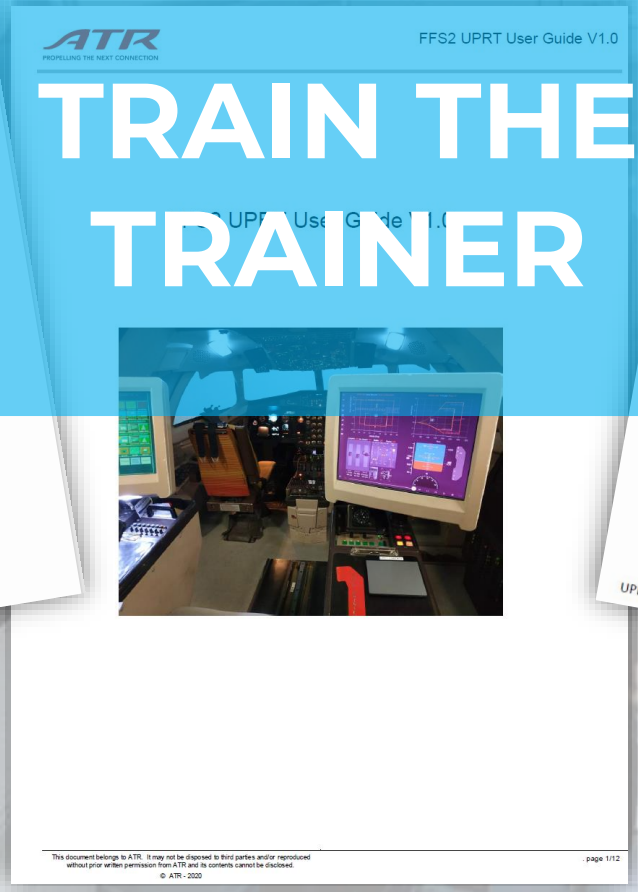
ATR

ATR Training and UPRT

How UPRT is included in our training syllabus?







Conclusion

- Take advantage of investment done
- Use the proper Data Package
- Train your Instructors