The background of the slide features a photograph of two ATR 72-600 aircraft flying over a mountain range at sunset. The sky is filled with vibrant orange, yellow, and blue hues. The aircraft are white with red accents and the ATR logo. A large red triangle is positioned in the top right corner, partially overlapping the sky image.

**Léopold Sartorius**

*Flight Safety Director – Flight Operations Analysis*

EOFDM - Köln - April 5<sup>th</sup>, 2016

## Flight Data Monitoring for regional operations

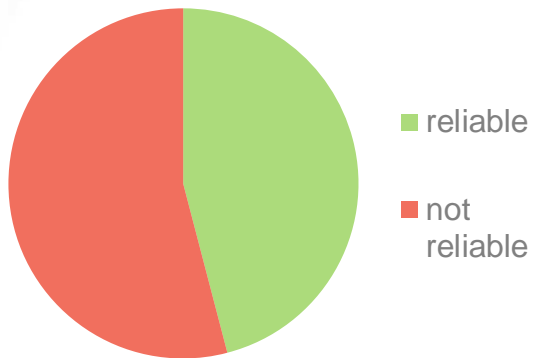
**ATR**  
PROPELLING THE NEXT CONNECTION

# AGENDA

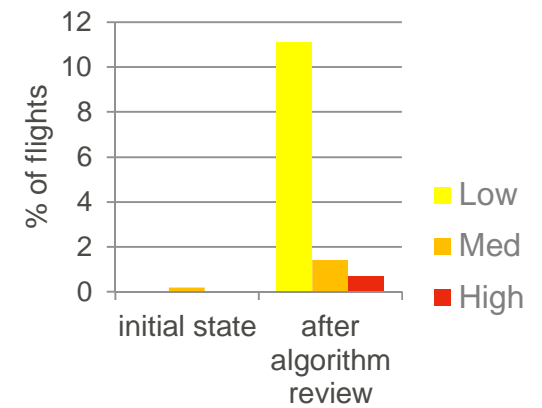
- Experience of FDM in a regional context
- Way forward

## Tools need to be adapted

Events status

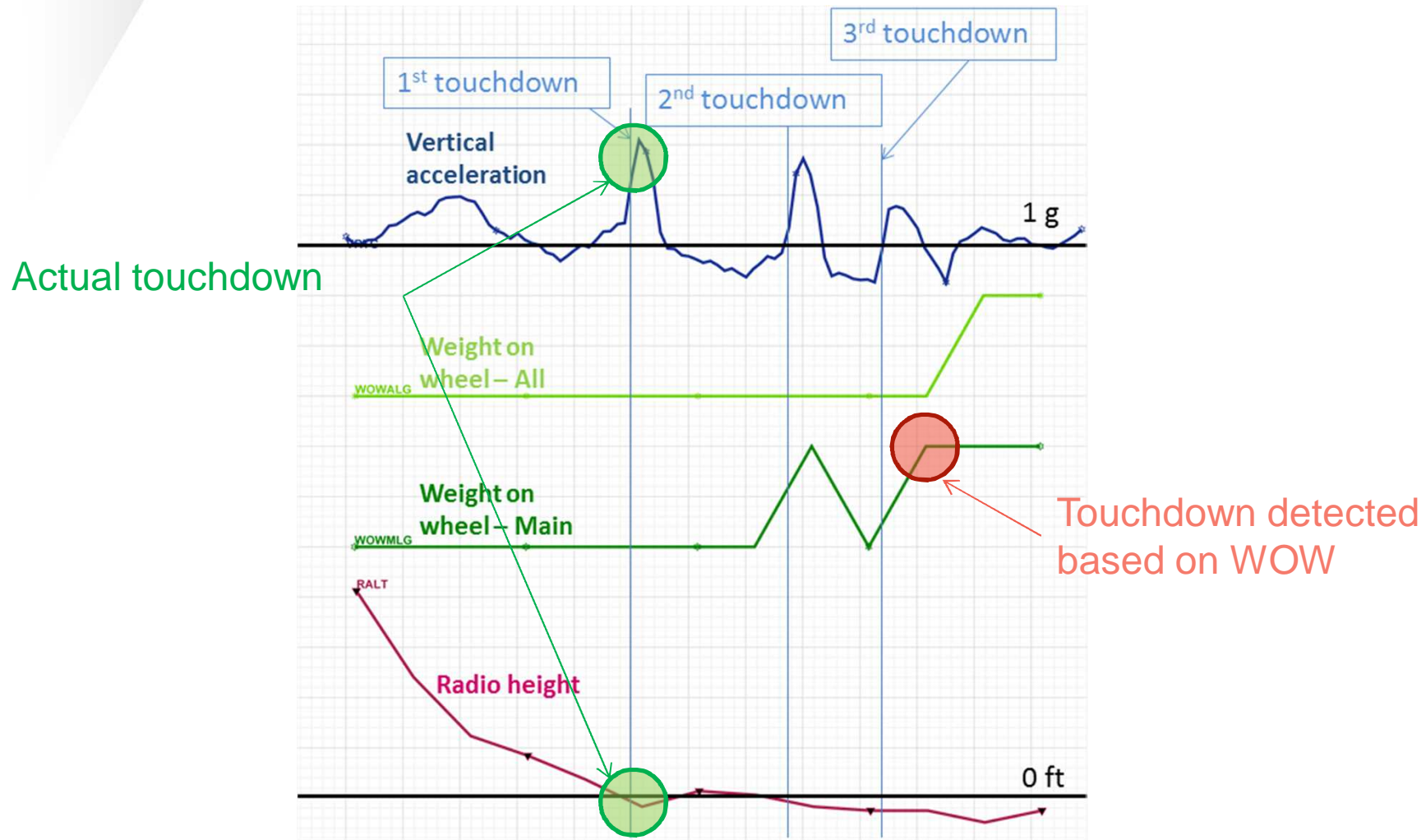


Speed high at T/D



**LOSS OF TRUST AND CREDIBILITY!**

## Tools need to be adapted



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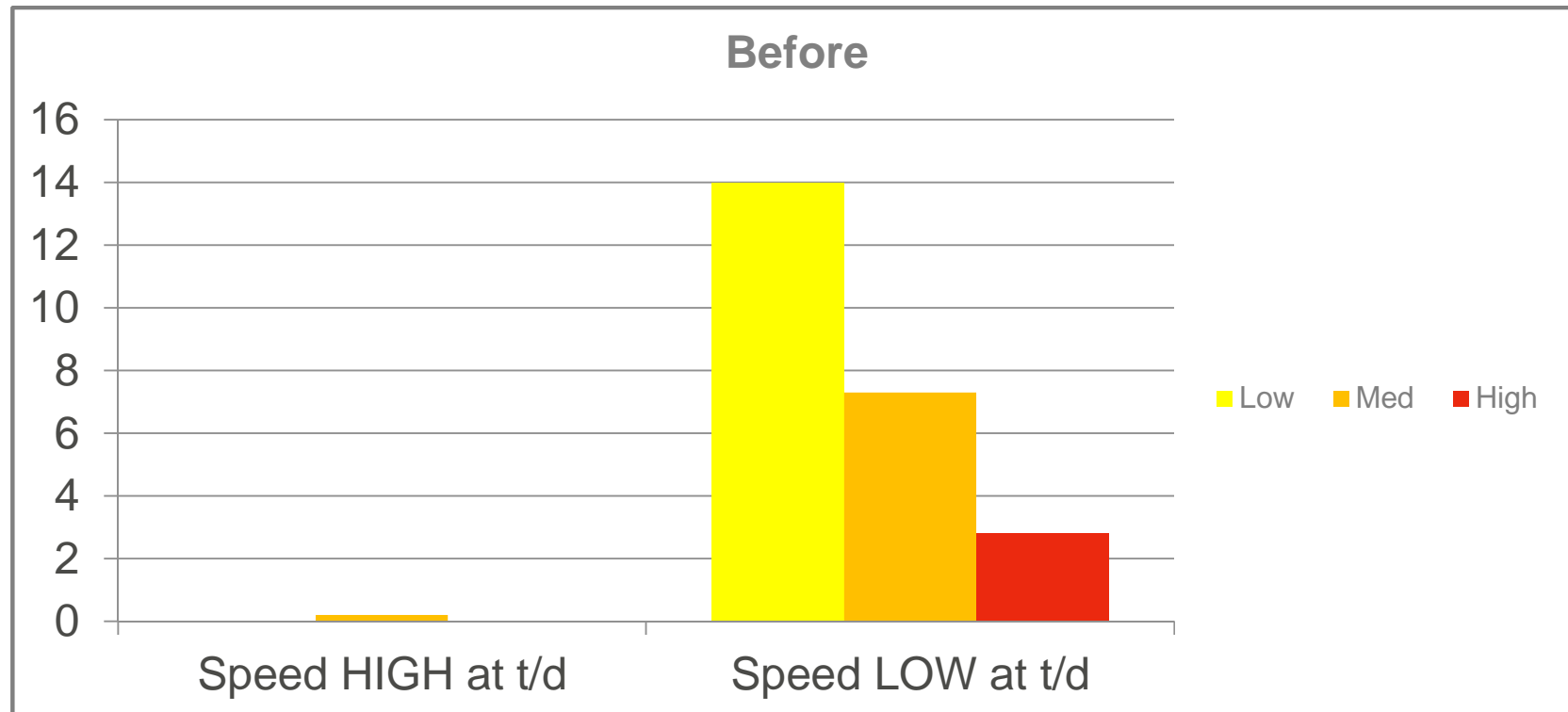
REGIONAL FLIGHT SAFETY CONFERENCE 2016

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**ATR**

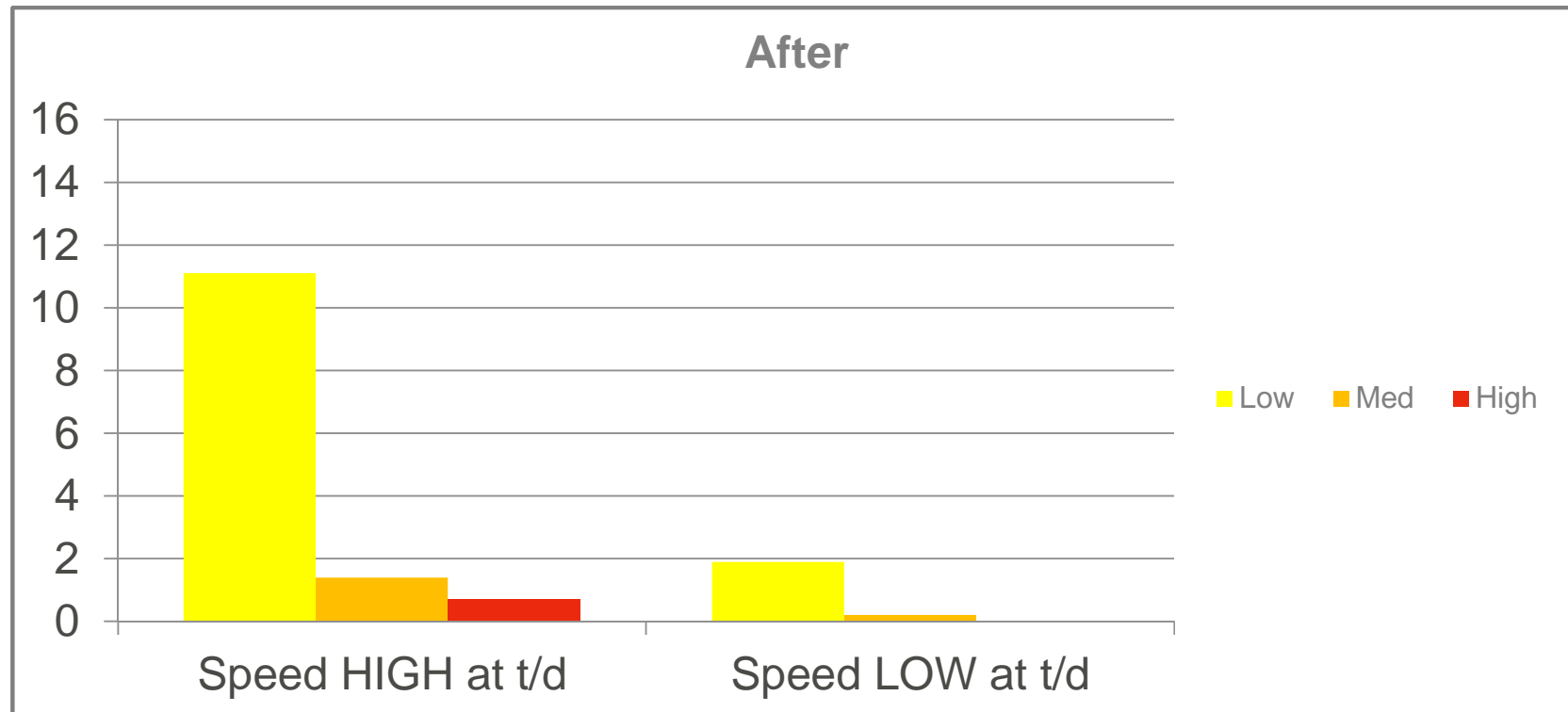
## Impact of touchdown detection

1000 flights processed before and after algorithm review

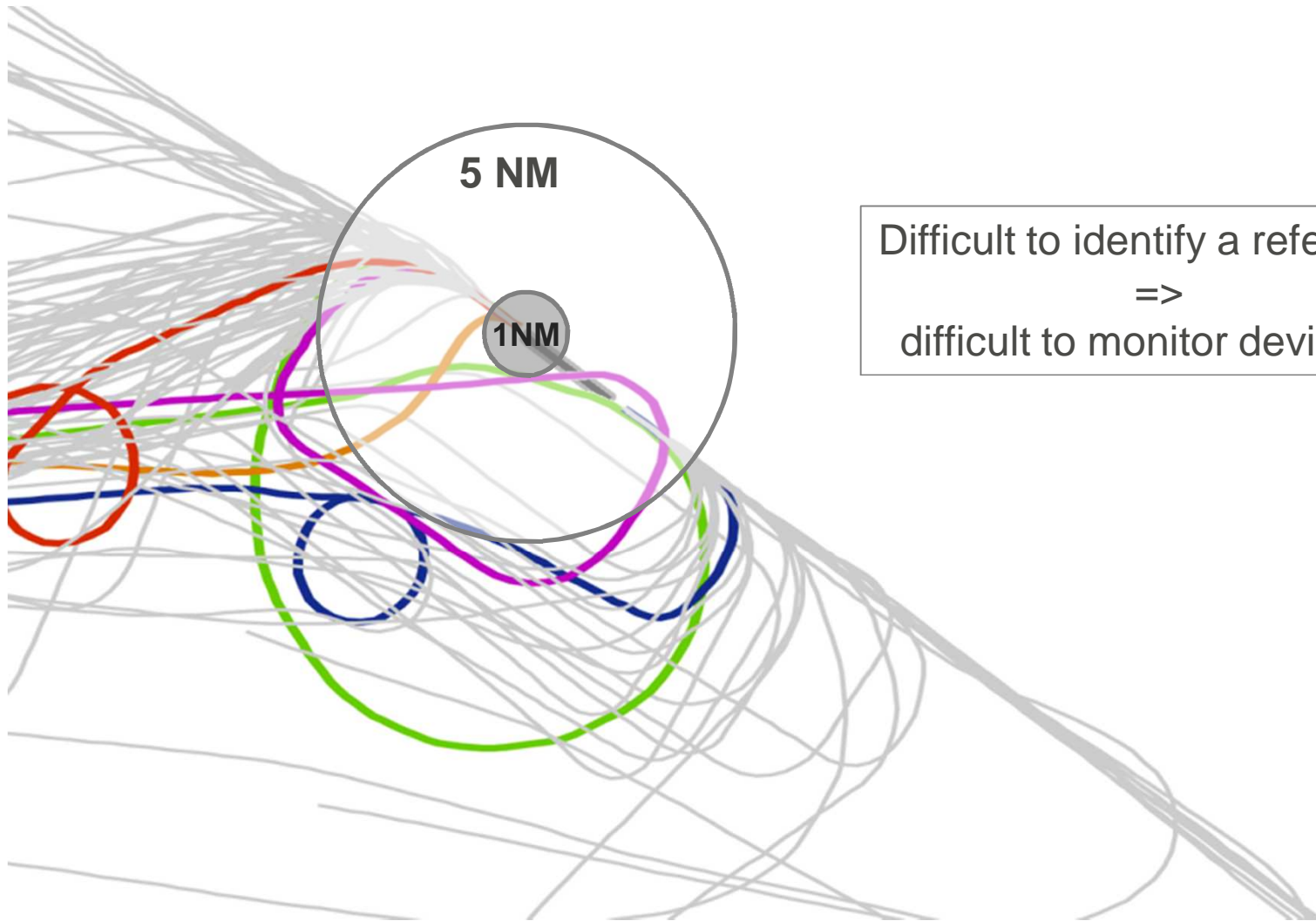


## Impact of touchdown detection

1000 flights processed before and after algorithm review



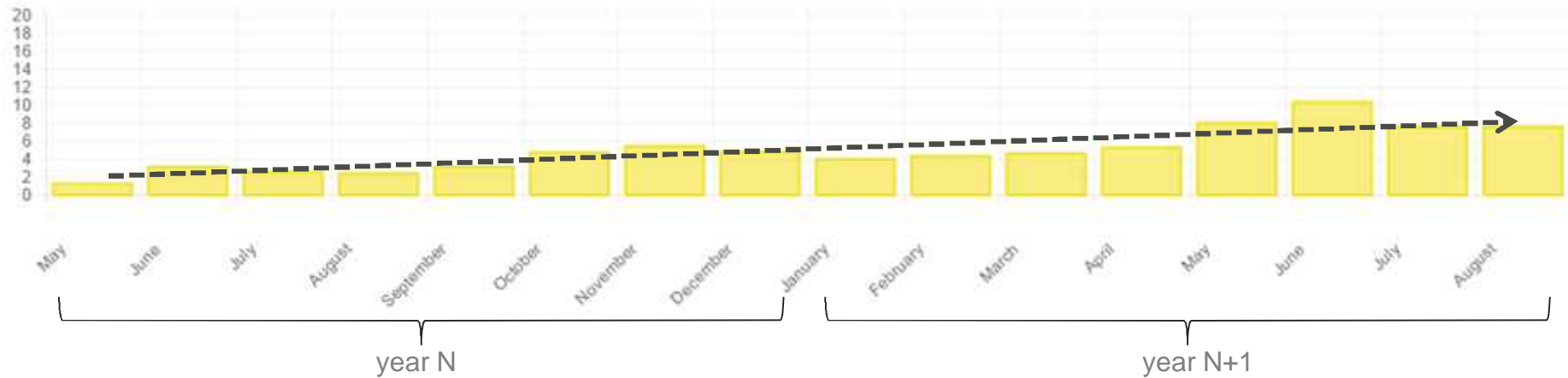
## Specific operations



Difficult to identify a reference  
=>  
difficult to monitor deviation

## Analysis skills are required

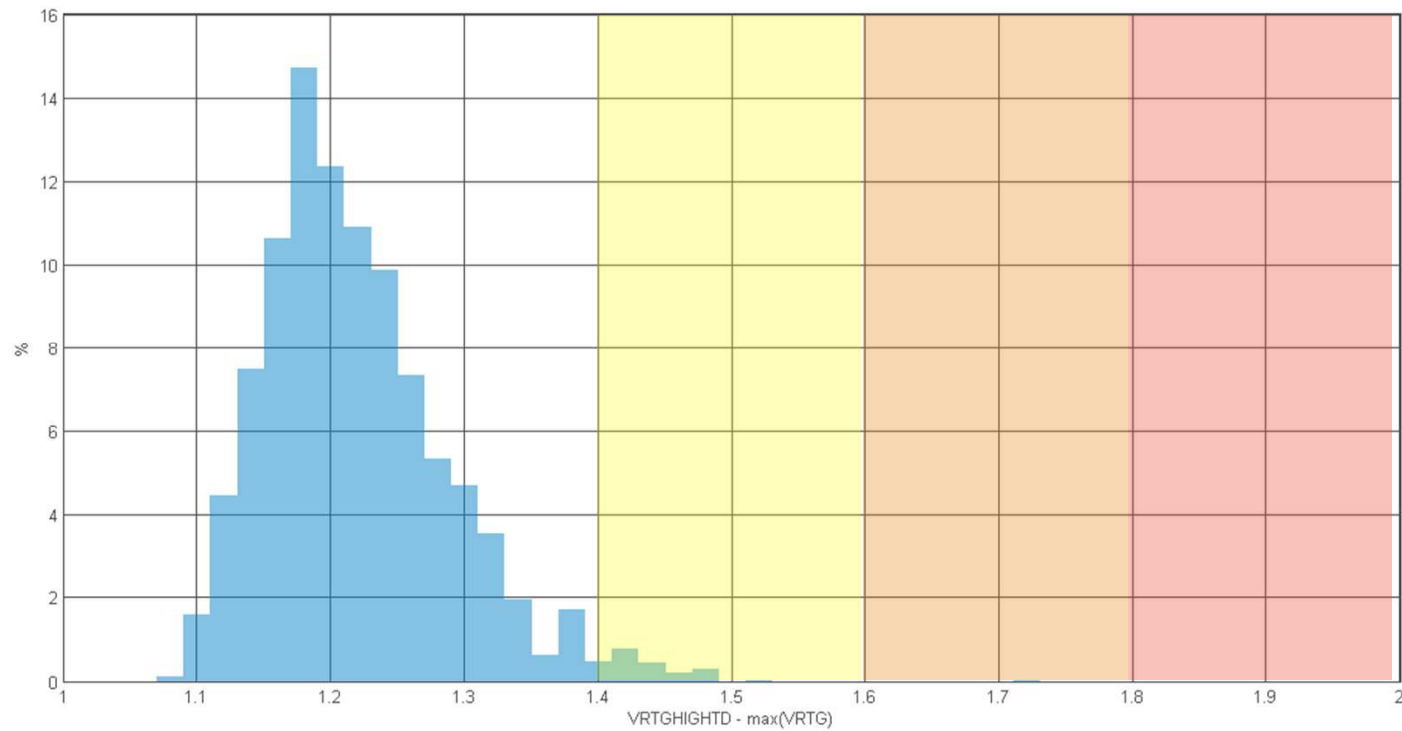
- Vertical acceleration at landing
  - monthly repartition of low severity events (1.4 – 1.6 g)





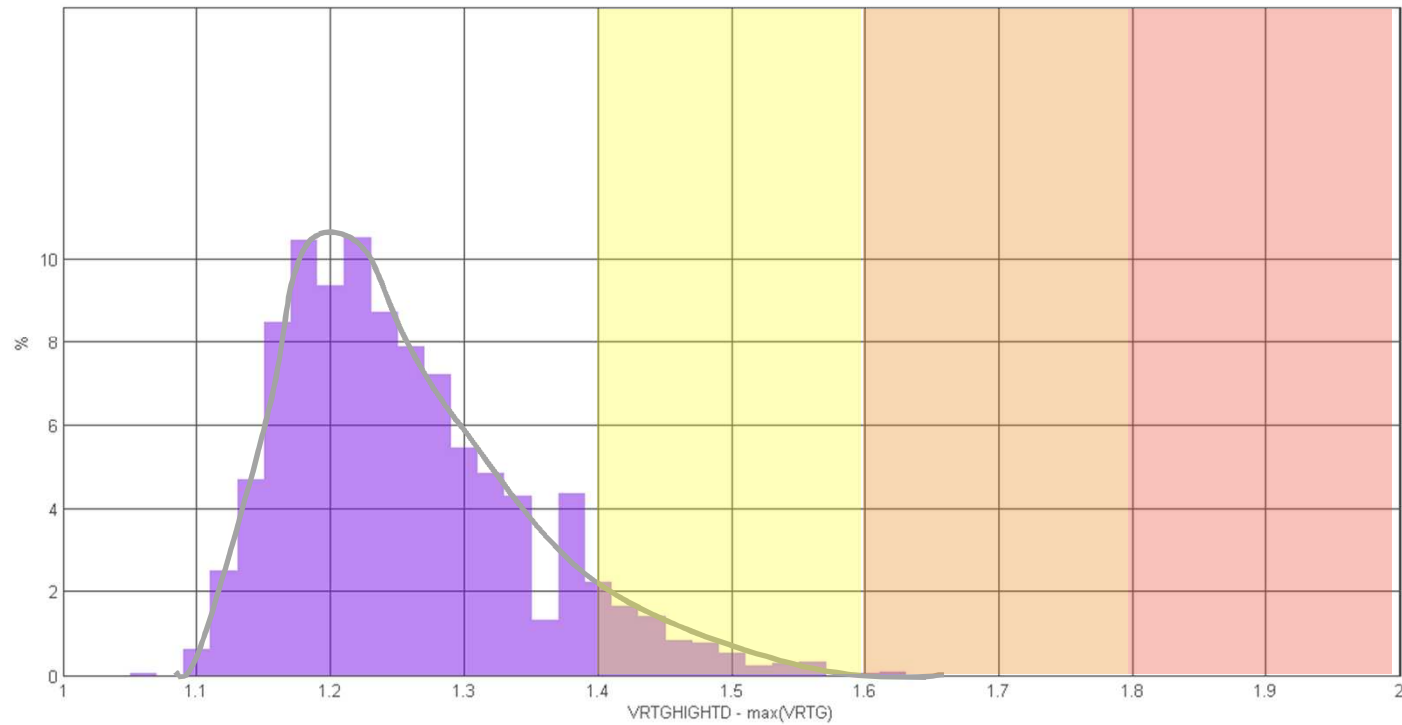
## Analysis skills are required

- Vertical acceleration at landing
  - May-August year N



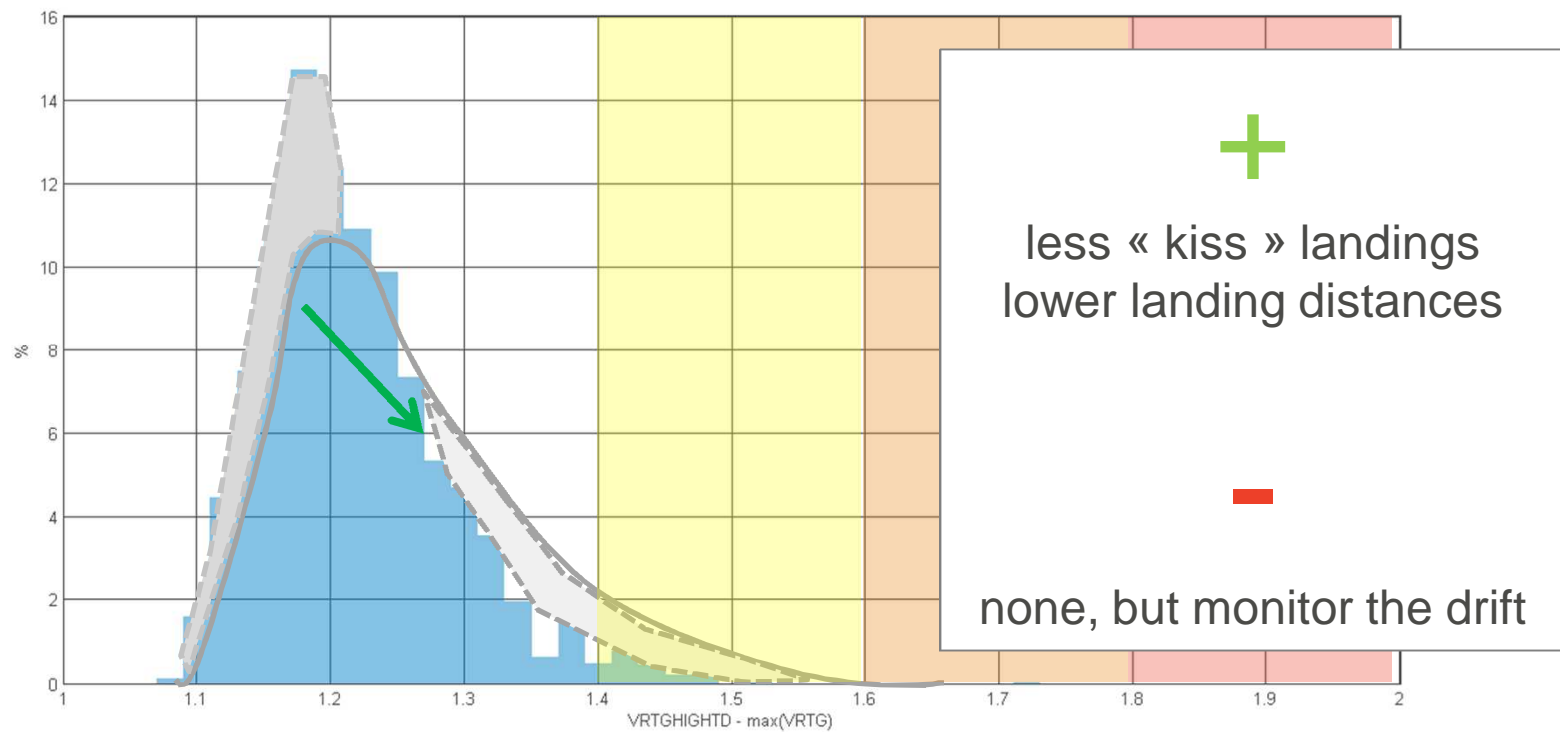
## Analysis skills are required

- Vertical acceleration at landing
  - May-August year N+1



## Analysis skills are required

- Vertical acceleration at landing
  - May-August year N vs N+1



# AGENDA

- Experience of FDM in a regional context
- Way forward

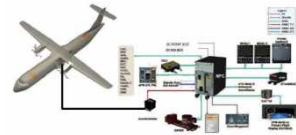
## FDM strategy



FLIGHT	DATE	TIME	PARAMETER 1	PARAMETER 2	PARAMETER 3
1	2016-01-01	10:00	100	200	300
2	2016-01-01	11:00	100	200	300
3	2016-01-01	12:00	100	200	300
4	2016-01-01	13:00	100	200	300
5	2016-01-01	14:00	100	200	300
6	2016-01-01	15:00	100	200	300
7	2016-01-01	16:00	100	200	300
8	2016-01-01	17:00	100	200	300
9	2016-01-01	18:00	100	200	300
10	2016-01-01	19:00	100	200	300

**FLIGHT DATA  
MONITORING**  
ON ATR AIRCRAFT  
2016

**ATR**  
TRAINING CENTER



FDM brochure: free  
for ATR customers



Network of service  
providers being set up



Support & services  
portfolio being  
developed

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## Challenges

- Regulation
  - FDM mandatory for MTOW<27 tons
- Oversight
  - Quality oriented approach
  - Role of service providers



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