



**MINISTÈRE
CHARGÉ
DES TRANSPORTS**

*Liberté
Égalité
Fraternité*



STATE'S RISK MANAGEMENT DURING 2020 « LOW ACTIVITY » ... AND BEYOND

Crisis phases

Initial

- Surprise and startle effect
- Protection of workers and assets
- Reorganise oversight

Reactive

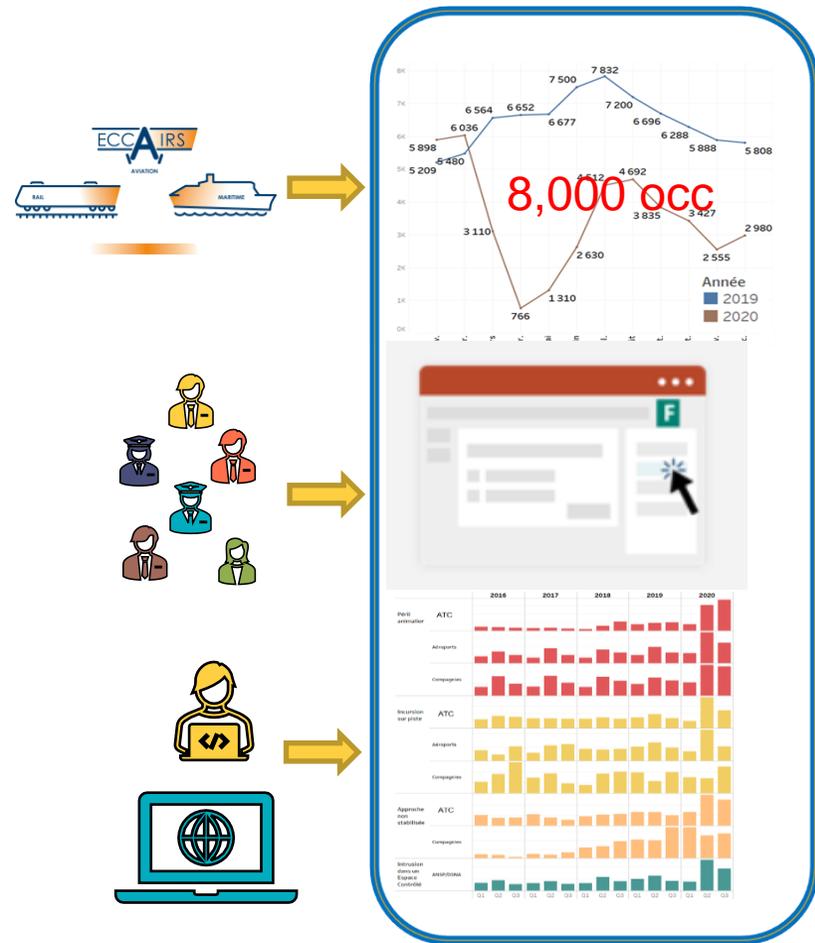
- What is going on
- Prioritize
- Safety leaflet = OPS 1st recommendations
- Answer questions as they come

Proactive

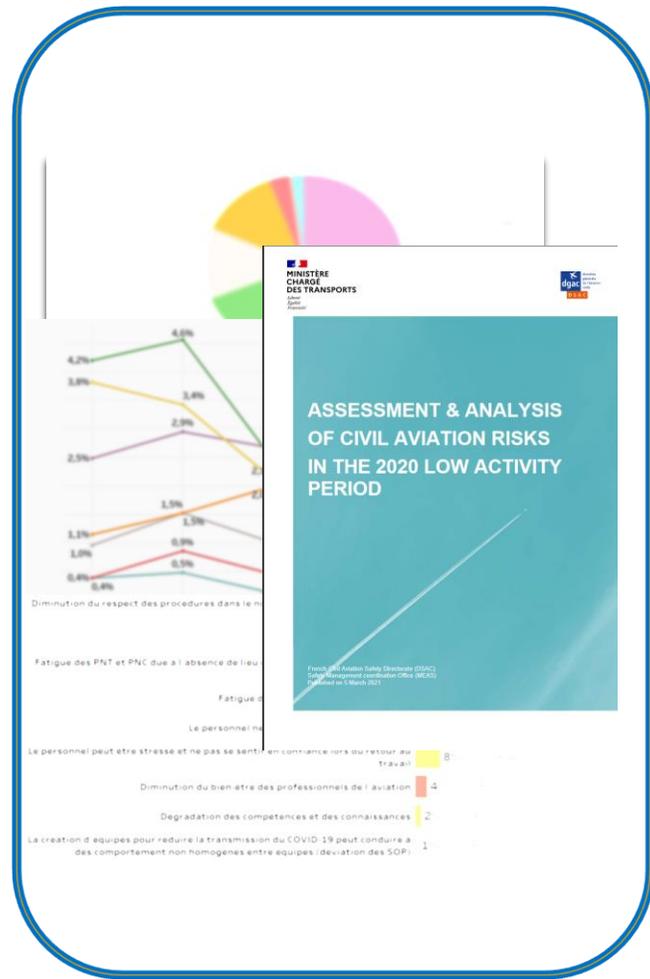
- **SSP**
 - Risk assessment - understand
 - RBO
 - Adjust to situation + anticipate

Objectives

- Comprehensive risk assessment
- Operators aware of issues
- Recommend



COVID-19
 Guidance / Advice



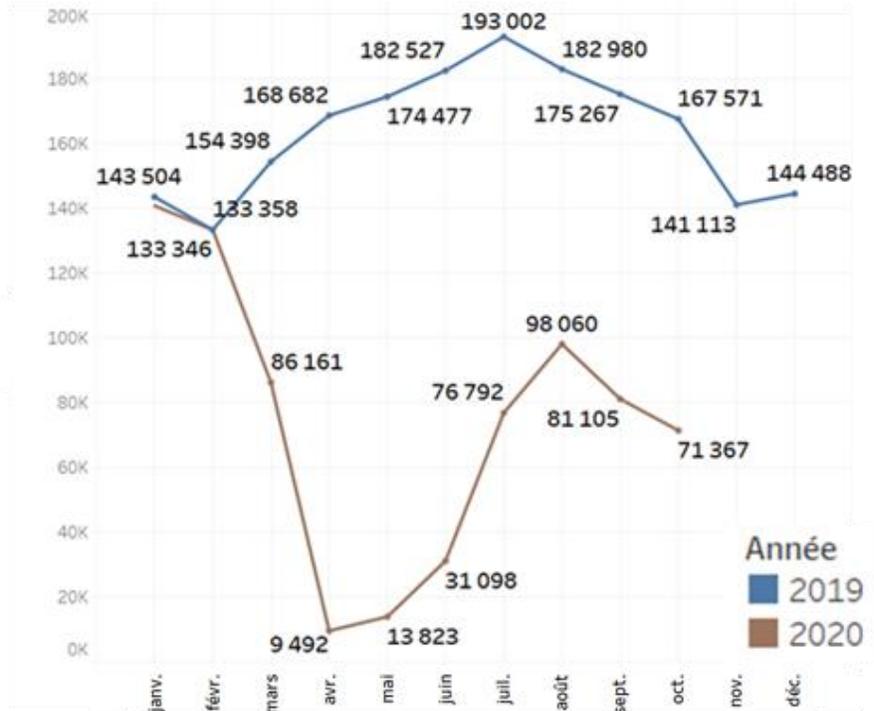
No statistics
 Sampling
 Biases
 One-way occ. reporting

Safety study « Low activity » main findings

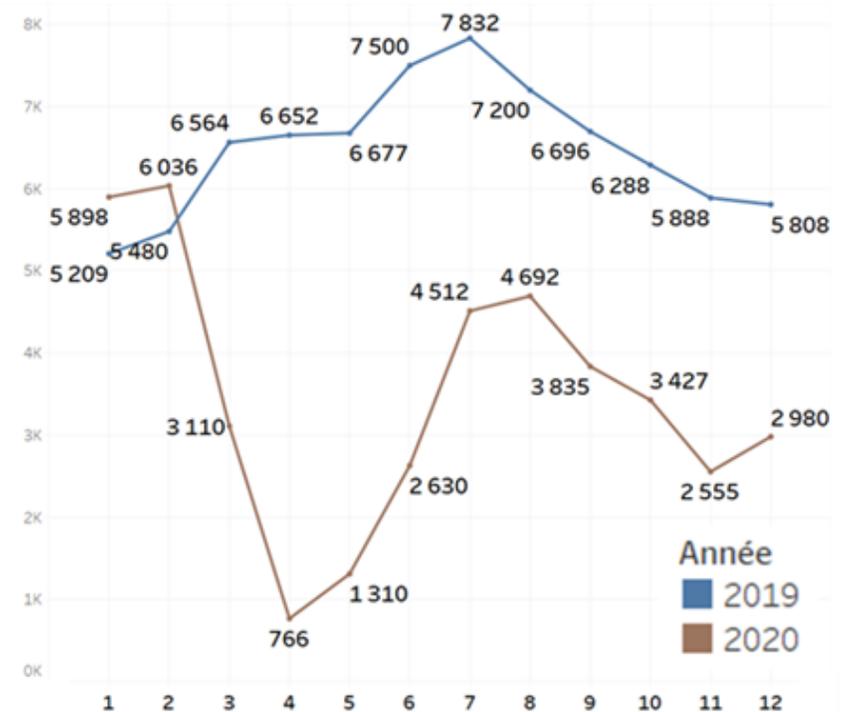
- Reporting



- Number of monthly commercial movements on French aerodromes



- Number of notifications on ECCAIRS France per month of occurrence



WILDLIFE

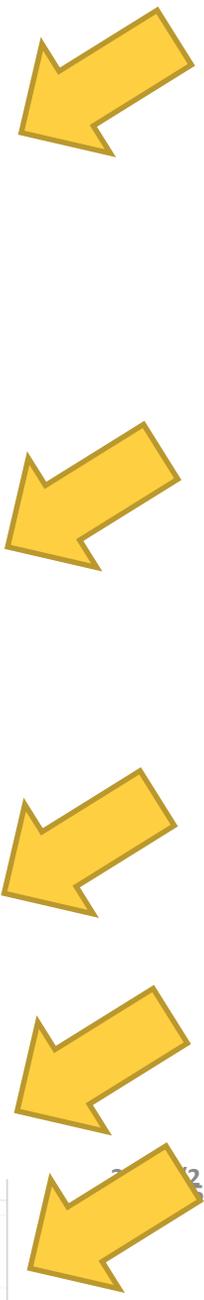
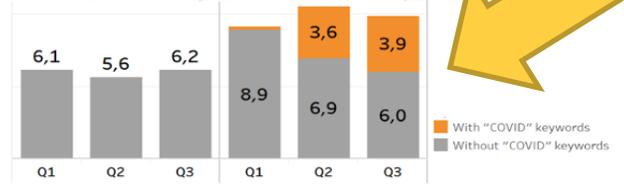
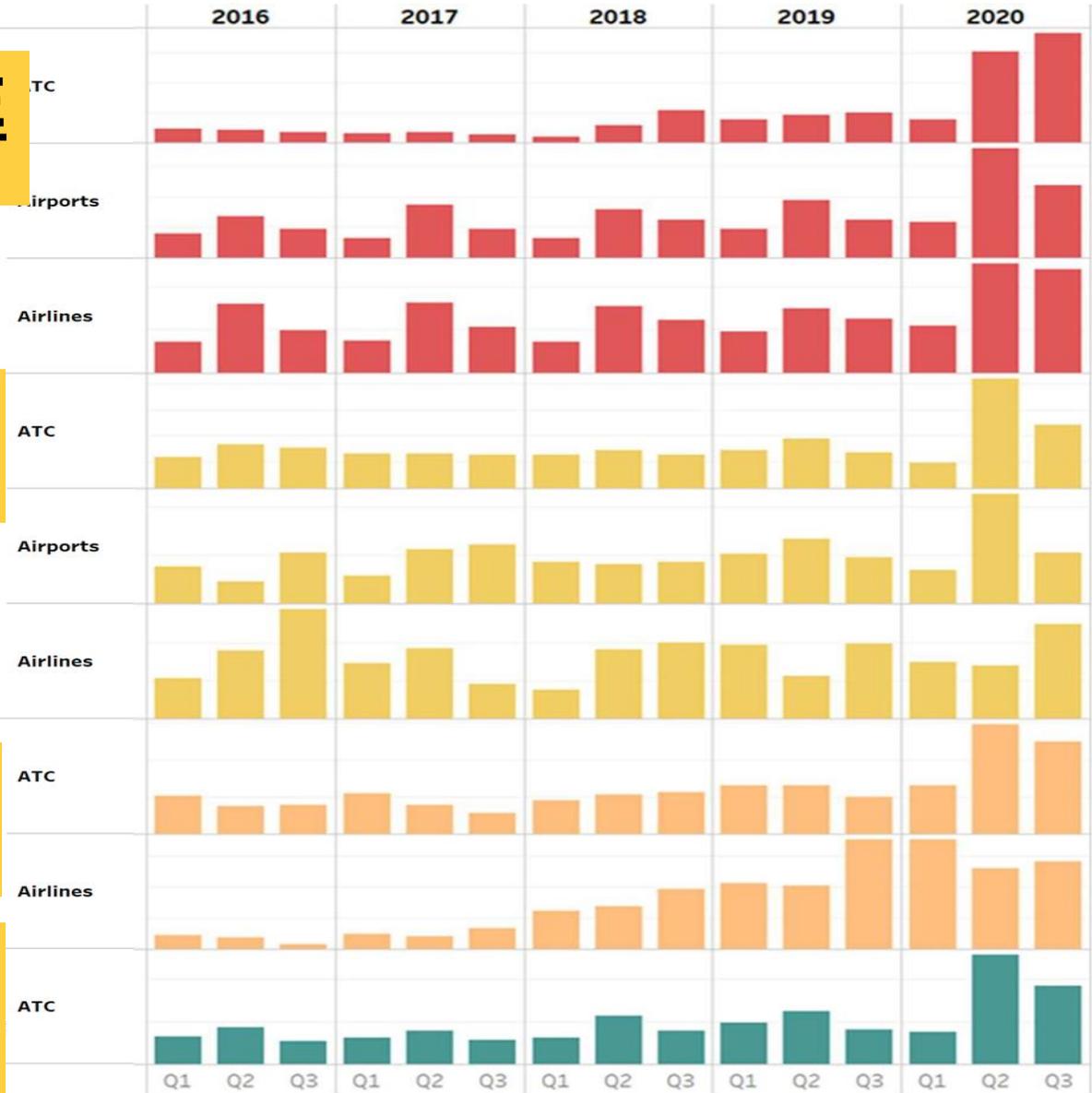
RWY INC.

NSA-NCA

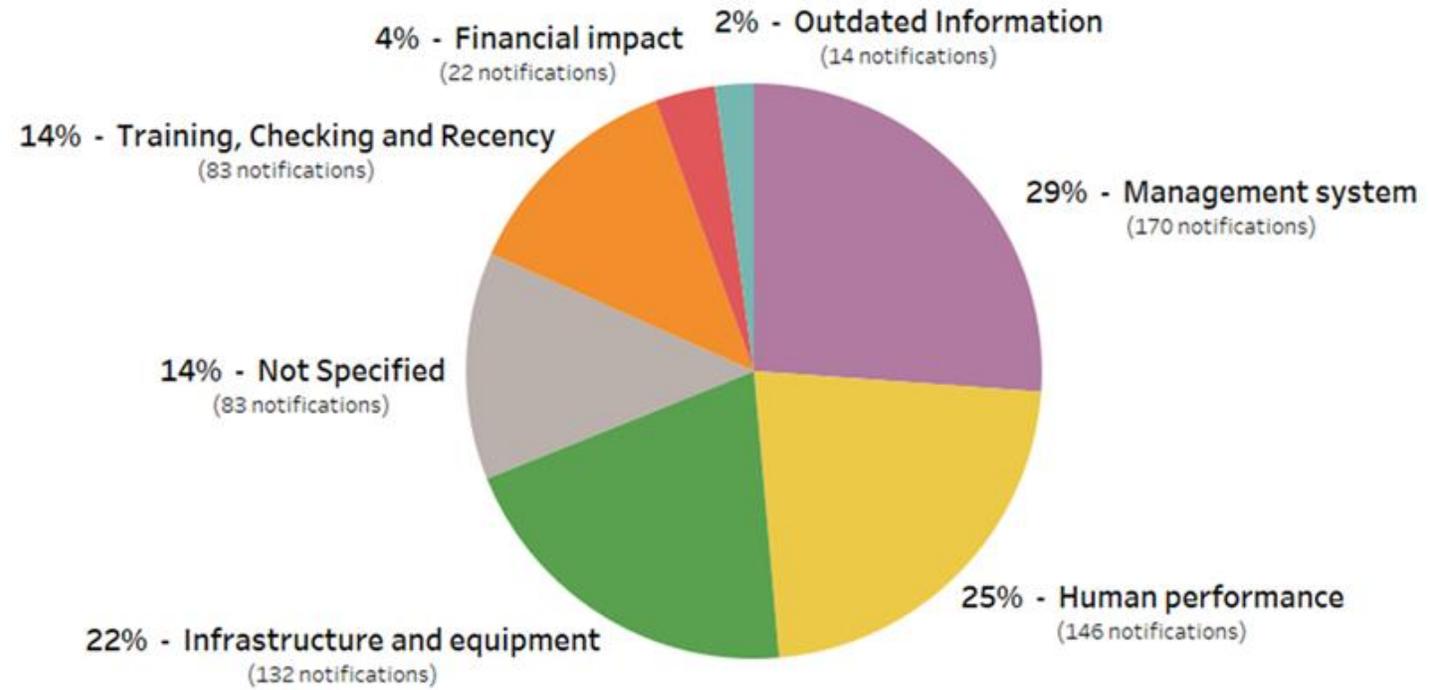
Airspace infringmt

Unruly pax

SPI (SSP indicators)
 (occ p. mvts)



Break down by Safety Issues



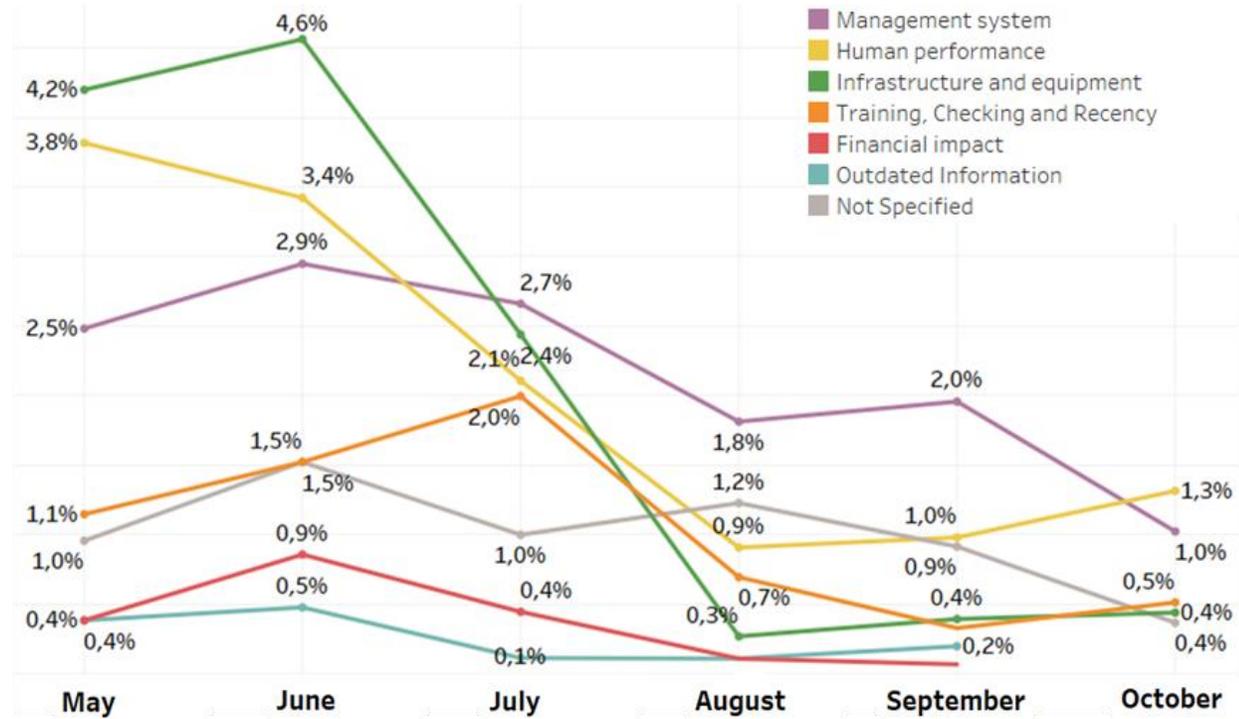
+ Unspecified threats:

- *Similarity of aircraft callsigns*
- *Ferry flight / flights without CC*
- *Regrouping / closure of airspace*
- *Others, but too few to single out*

“Management system”: too broad

589 matches

« Covid » reports ratio over time



15%

4%

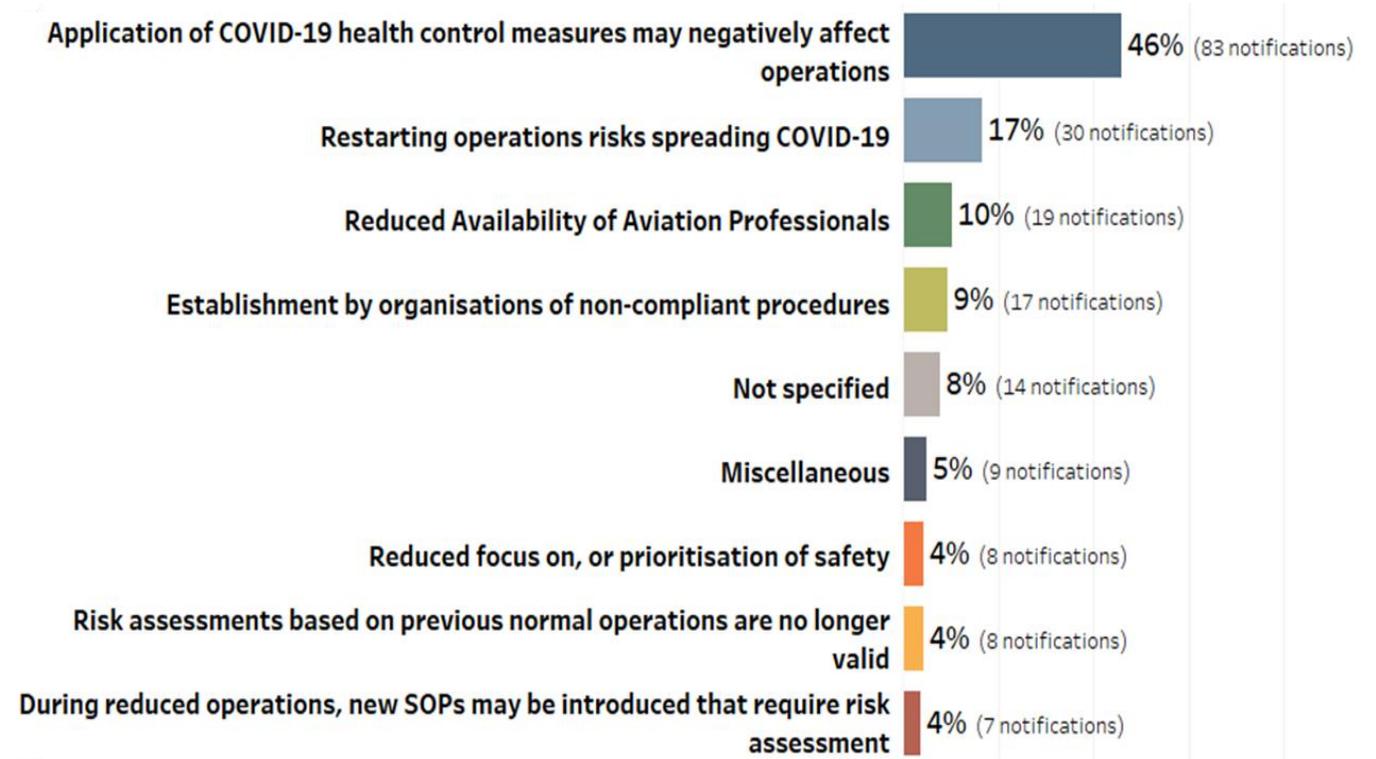
2%

Analysis by domain

Main areas (1/3)

Management system:

- Mgt system affected (AER-ANSP):
 - Internal audits program
 - Analysis of occurrences delays
 - Delayed notifications (rare cases)
- Unavailability of Aircraft Rescue and Firefighting Service (ARFFS) and/or wildlife control personnel
- Atypical operations / changes in the network due to the crisis:
 - Procedures not always adapted / known
- Maintenance: work not carried out / number of cycles exceeded
 - Lack of staff often reported

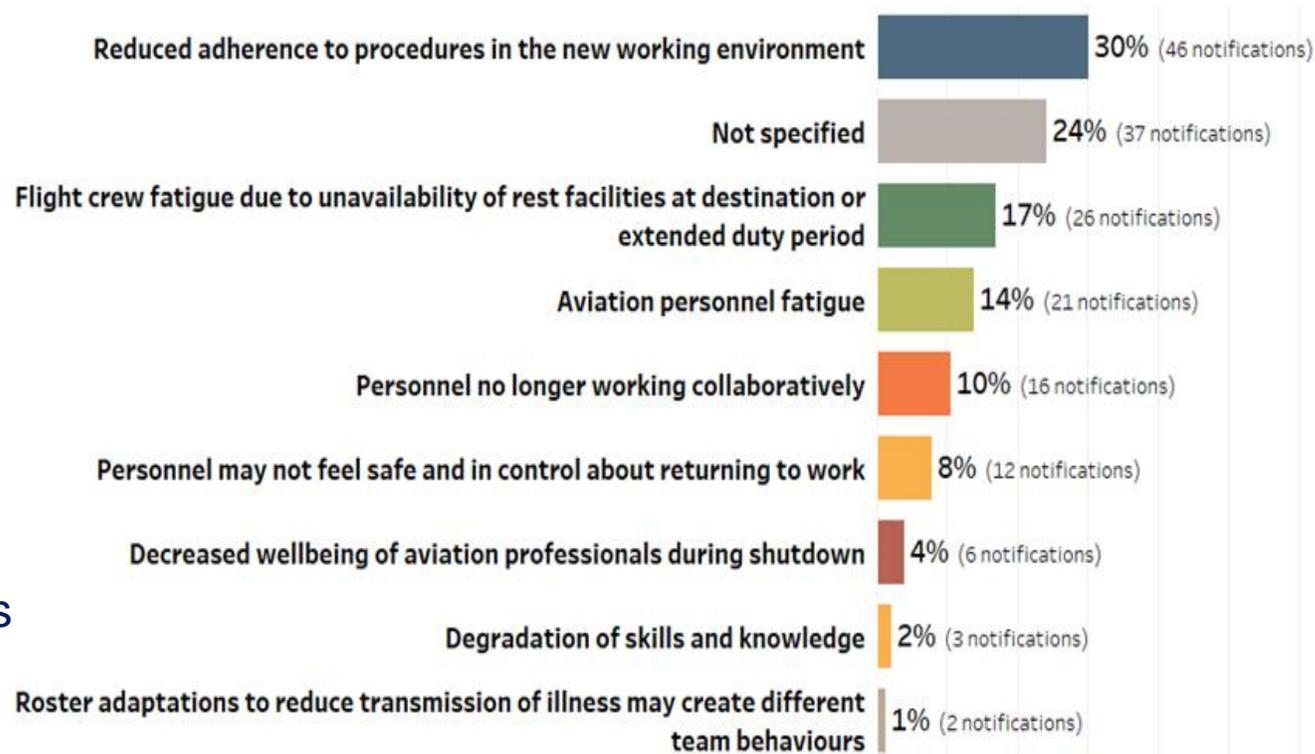


Analysis by domain

Main areas (2/3)

Human Performance:

- SOP non-compliance:
 - hypovigilance (ATCO)
 - lack of recent practice
 - new procedures created by operators to adapt to the crisis
 - pressure induced by staff reduction (ground handling)
- Fatigue of flight personnel:
 - Often cited; seems mitigated by operators

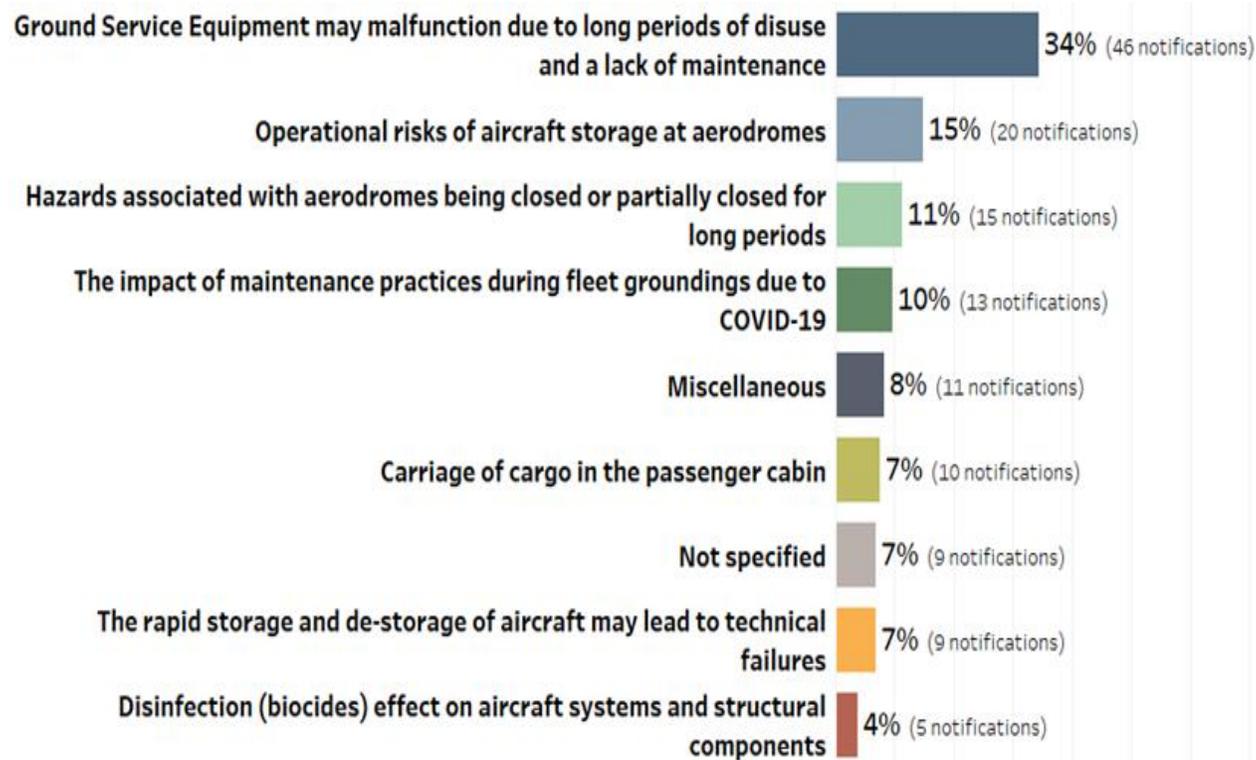


Analysis by domain

Main areas (3/3)

Infrastructure – equipment:

- infrastructure degradation (runway - TWY)
 - Postponement of works
- Aircraft storage:
 - Obstructed probes (pitot / static ports),
 - Technical problems following poorly applied or poorly understood procedures.
 - Parking interfering with the movement of aircraft (TWY)



22 de-identified report samples

Recommendations and conclusion

Recommendations to operators

- Systemic (all operators)
 - Share lessons
 - Reinforce SMS
 - Adherence to SOPs
 - ...
- Targeted by area (OPS, ADR, NAV, HDLG, GA)

Conclusion

- High adaptability of operators (SMS)
- Reg. exemptions compensated by efficient mitigation measures
- Need to monitor evolution of threats over the long term

What we learned

COVID-19

Guidance /
Advice

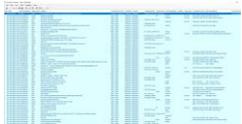
EASA Safety issues document was a good basis, that we refined ⇒
expert judgment on unprecedented situations works.

Operators' SMS remain instrumental

Financial aspects not reported (front line operators not qualified + financial help++)

Reg. 376 mandates analysis: added value but not always present, thorough...

Reporting culture opened a wide area for our understanding (low risk)
but improvement margin exists



CAVEATS

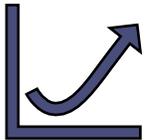


MASTER
WARN

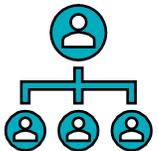


MASTER
CAUT

Retraining is efficient against skill fade,
when not restricted to EMERG.



Sharp recovery may bring new issues: be alert
SMS robustness = key



Some precursors were not reported because upstream in the causal factors chain (OHF « easy » to explain afterwards, not before)

Subsequent steps

Risk portfolio
update



Monitor risks &
update



Benchmark other
sectors, OHF view

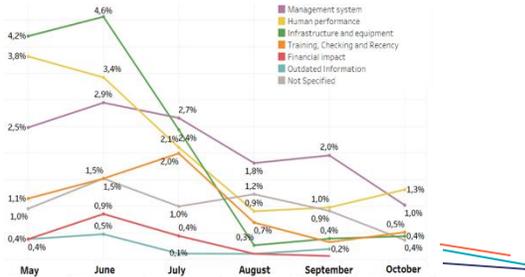


07/07: Webinar with
operators

«1 an après»



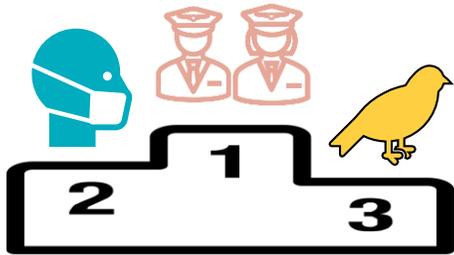
Update findings + recommendations (prelim.)



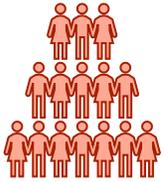
« Covid » matches recede

Skill fade + Impact of health measures + wildlife hazard = 1,2,3

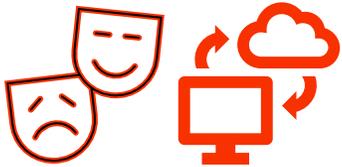
Adherence to SOPs + Fatigue + NCA / NSA + Unruly pax



Update findings + recommendations (prelim.)



BEWARE OF OHF – work from home / Staff left or unavailable



BEWARE of Cyber risk



KEEP SMS READY AND ROBUST



Do not assume every stakeholder is ramping up at same pace

Everlasting recommendations



REPORT

ANALYSE



REPORT

ANALYSE



REPORT

ANALYSE



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THANKS FOR YOUR ATTENTION

QUESTIONS ?