

Safety, capacity growth and crisis management: the role of airport certification



March 30-31, 2017

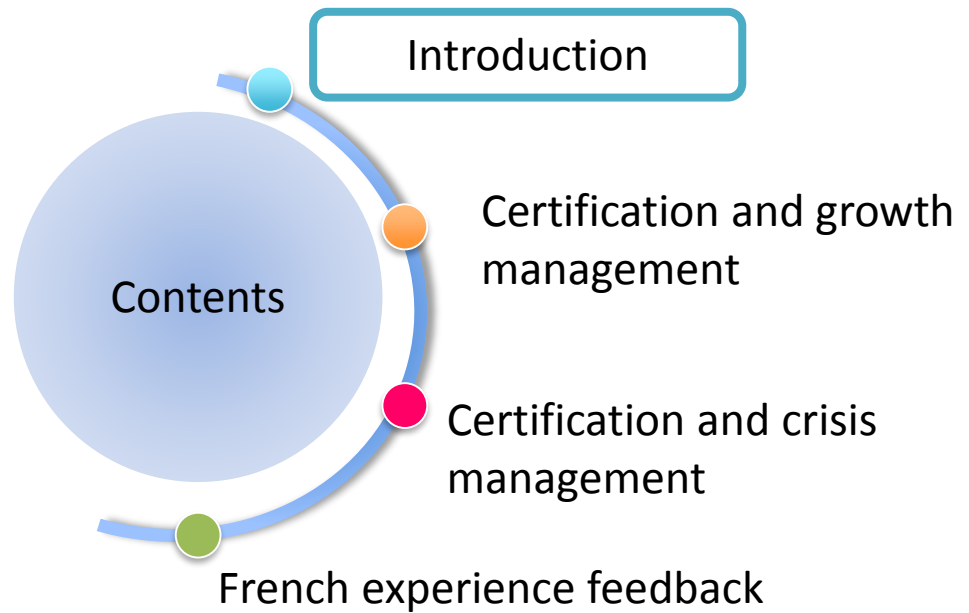
Colombia



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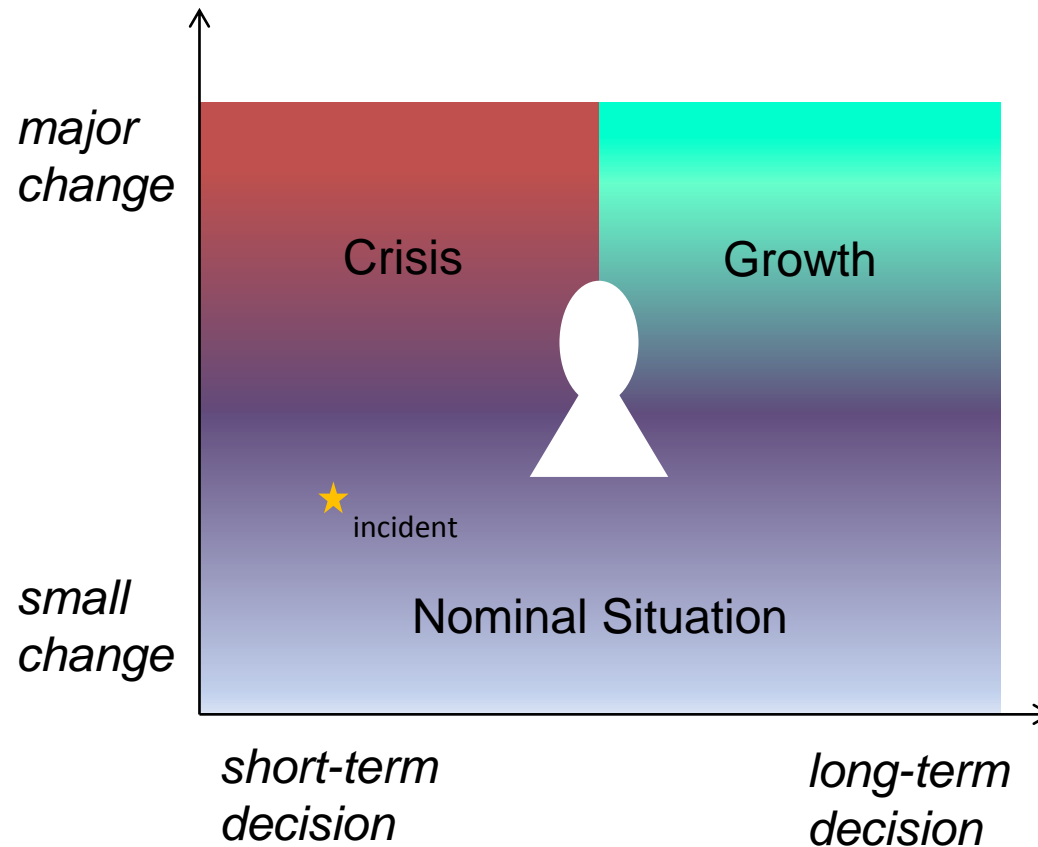
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Ministère de l'Environnement, de l'Énergie et de la Mer





The aerodrome certificate: a **key** to face any situation





The aerodrome certificate: a **key** to face any situation



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The oversight Authority: **match** between risks and airport operator risks response ?

The oversight Authority :

- a) deals with the expression of interest by an intending applicant for the aerodrome certificate;
- b) assesss the formal application, including evaluation of the aerodrome manual;
- c) assess the aerodrome facilities and equipment;
- d) issues or refuses an aerodrome certificate;
- e) assess the continuation of the conditions that prevailed in certification.



ICAO, doc 9774



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One entity, many hats: not to be confused

Regulator

≠

Oversight
authority

≠

Decision-
maker

Ex : closing the airport

must bear the consequences of his decisions and consequently assume responsibility for assessing the adequacy of the aerodrome

CAA
regulator part

CAA
oversight part

« Prefet »

by delegation





Keys for efficient certificate

An efficient certificate is based on :

An undeniable allocation of responsibilities on airport; it requires:

- 1/ an identification of all functions that are needed on an airport;
- 2/ an actor in charge of implementation of each function;
- 3/ a suitable knowledge of the responsibility of each actor for each function.

An anticipation of risks as well as possible (including assessment of changes) :

- 1/ a risk identification;
- 2/ a risk evaluation;
- 3/ a risk mitigation.



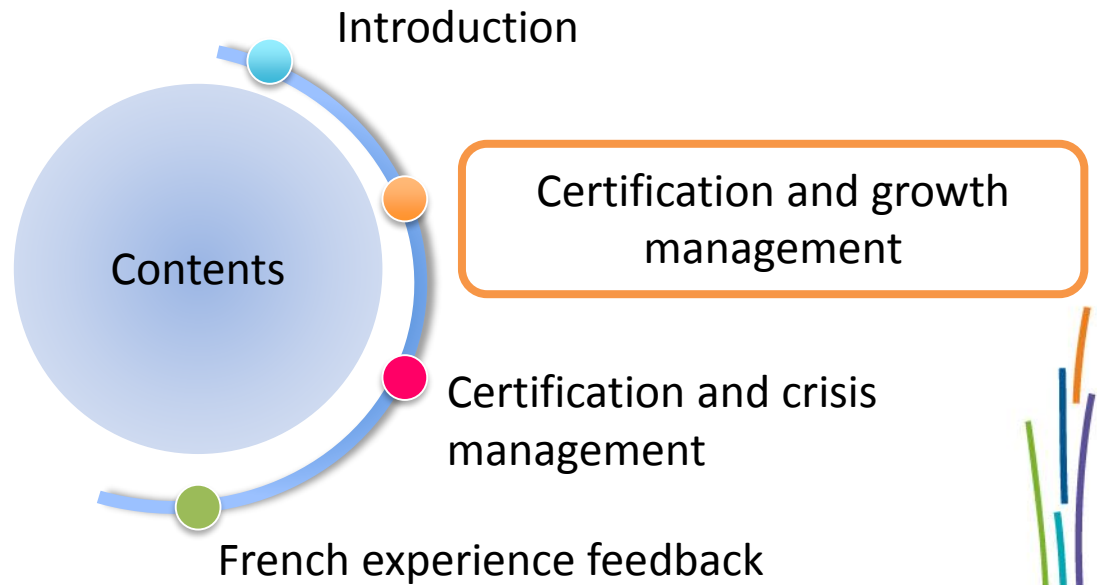
ICAO, doc 9774



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The aerodrome certificate: a key to face growth in air traffic

Certification

- ✓ Experience and expertise in aerodrome design and operations (**compliance**)
- ✓ Close **coordination** with the ATS provider
- ✓ Safety improvement

allows

✓ **optimisation** of existing infrastructures by new **procedures** and the possibilities to expand airport capacity

✓ **development** of new physical infrastructure



CHANGES



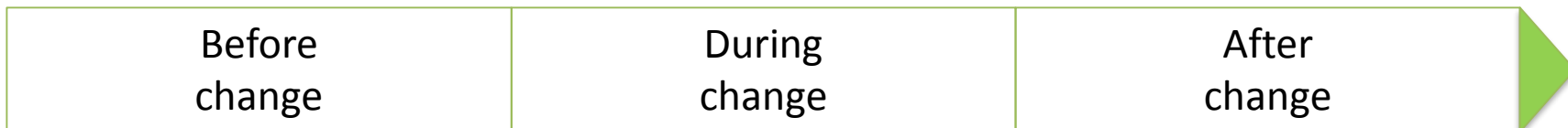
CHANGE MANAGEMENT



while
maintaining
SAFETY



The aerodrome certificate: Change Management



Description of the change and compliance

Risk identification
Risk analysis
Risk mitigation



Monitor the implementation of scheduled risk mitigation measures

Return on operating experience (ROX)

! COORDINATION !

! WORK !

! CAPITALIZATION !

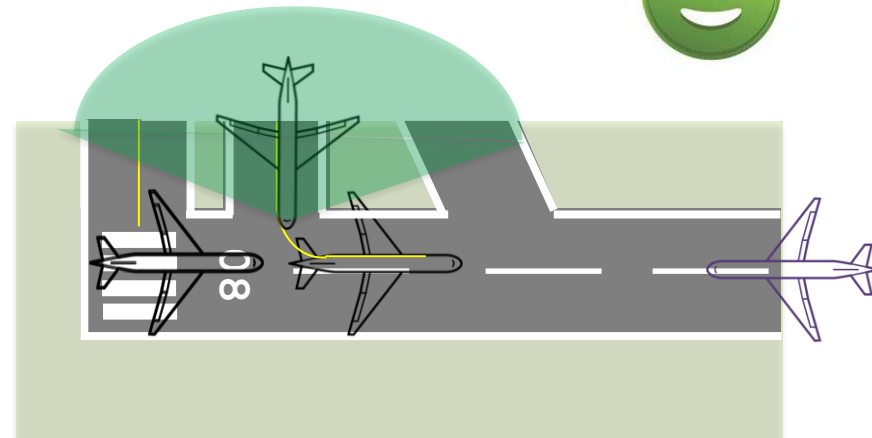
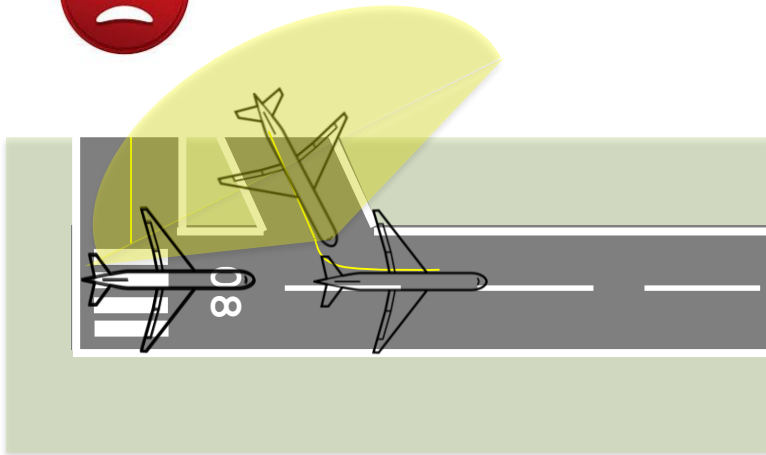
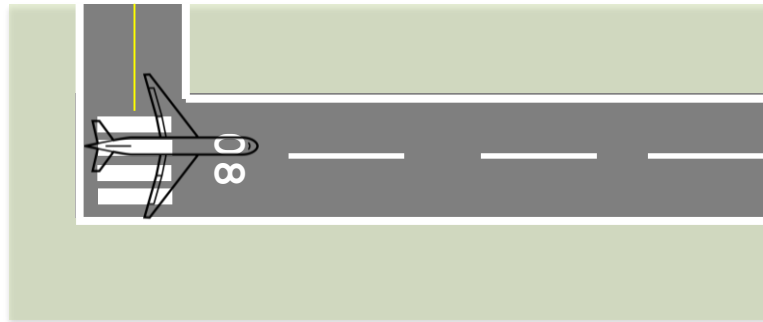


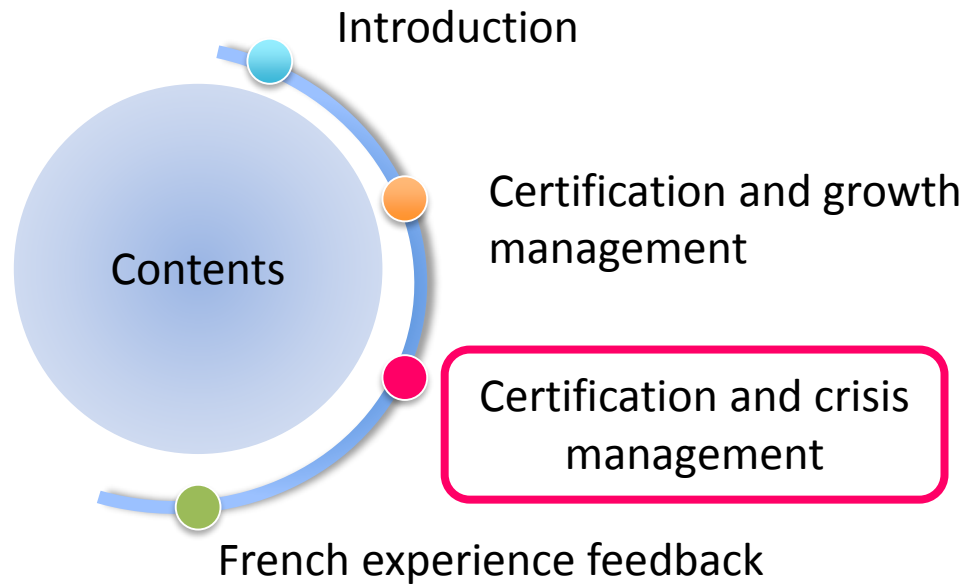
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Change Management: the **benefits** of COORDINATION







The aerodrome certificate: a **key** to face crisis situation

Certification

- ✓ Anticipation
- ✓ Formalization in written documents (Aerodrome emergency plan – ICAO Annex 14, Chap 9)
- ✓ clarification of job descriptions and responsibilities
- ✓ Close **coordination** with the users

allows

✓ **adequacy** of responses in crises

✓ **time saving** for actions

while
maintaining
SAFETY



RISKS

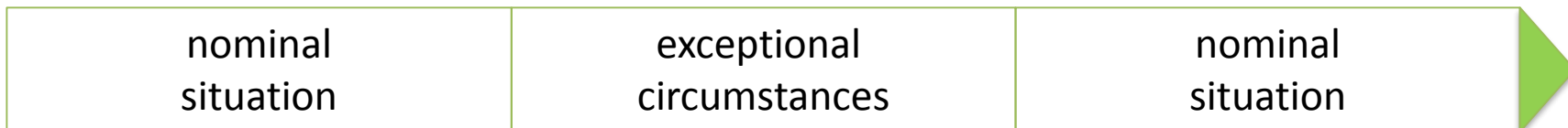


RISK MANAGEMENT





The aerodrome certificate: Risk Management



Description of the exceptional circumstances

Risk identification (scenario)
Risk analysis
Risk mitigation



Monitor the implementation of scheduled risk mitigation measures

Return on operating experience (ROX)

! PLANNING !

! CHANGING CIRCUMSTANCES !

! CAPITALIZATION !



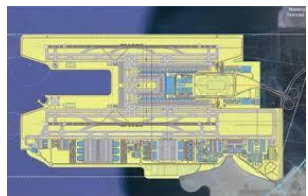


Risk Management: the **benefits** of PLANNING

NTAA, January 23th 2017
torrential rain,
flooded runway



ICAO, Annex 14, Chap9



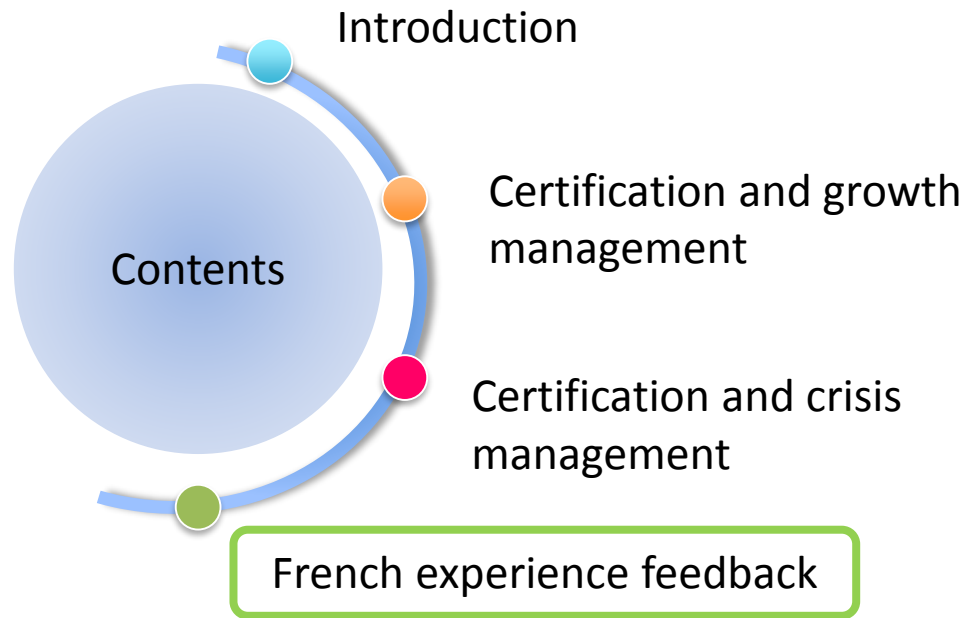
EMERGENCY INSTRUCTIONS

1. MAKE SURE THAT FIRE IS OUT
2. CLOSE MAIN STOP VALVE (SHUTTING OFF WATER SUPPLY)
3. OPEN WASTE VALVE (DRAINING INSTALLATION)
4. NOTIFY MAINTENANCE CONTRACTOR

NAME PHONE

5. REMAIN AT VALVES IF FIRE RECURS
- 6) CLOSE WASTE VALVE AND
- 7) RE-OPEN MAIN STOP VALVE







Certification process

2006

2001

First requirements for aerodrome certification into ICAO, Annex 14, art.1.3

development of the institutional and legislative framework

2013

french certification of ≈ 80 aerodromes

*10 stages :
from +1 500 000 PAX to +10 000 PAX*

2017

End of european certificate conversion process

certificate conversion : french to european

It may be reasonable to begin implementation in a phased approach in order to start the process and help it run smoothly.



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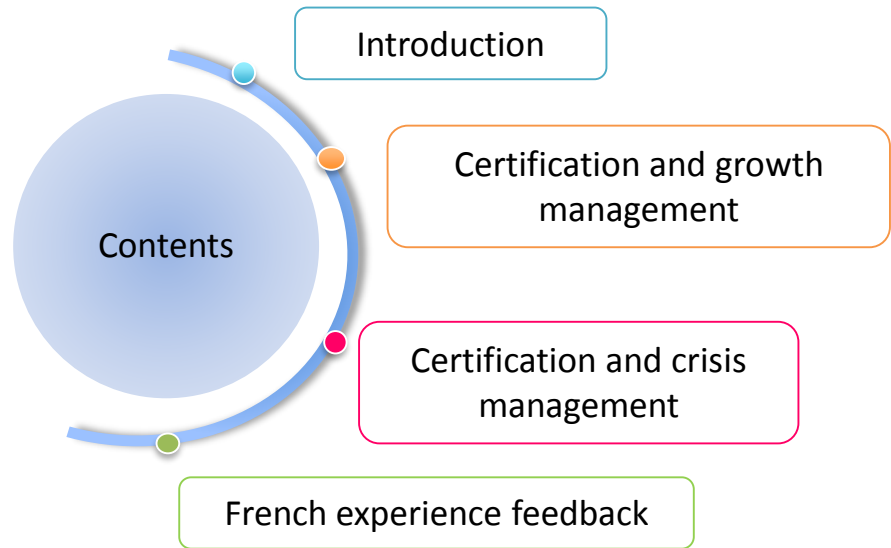
Certification process

The certification process proposed by ICAO in its documentation (Doc 9774, Manual on Certification of Aerodromes) provides guidance to ensure an appropriate tool.

A needs-based approach is preferable to a « requirements-based » approach : the compliance with ICAO Annex 14 and Annex 19 is ensured but the process is highly more usable, relevant and responsive.

Audit should be a means of applying « good » pressure to create a virtuous cycle, to surpass oneself.





Thank you for your attention

