



# CERTIFICATION OF ABIDJAN AIRPORT

## - THE EXPERIENCE OF NATIONAL CIVIL AVIATION AUTHORITY OF CÔTE D'IVOIRE

Presented by ANOUAN Tcho Sylvère, Deputy Director of Aerodrome safety, Côte d'Ivoire

# OUTLINES

- 1 • **INTERNATIONAL AND NATIONAL REQUIREMENTS**
- 2 • **STRATEGIC ACTIONS PRIOR TO CERTIFICATION**
- 3 • **CERTIFICATION PROCESS IMPLEMENTED**
- 4 • **CONCLUSION**

# 1. International and national requirements

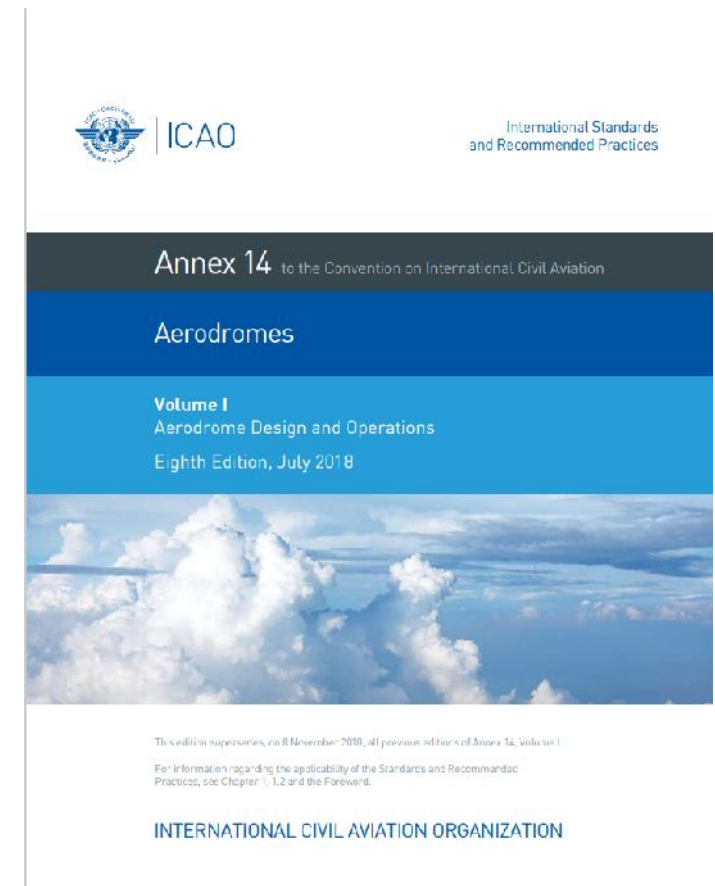


## *International Requirement*

## ICAO Annexe 14, Vol I

### Standard 1.4.1 - Certification of aerodromes

States shall certify aerodromes used for international operations in accordance with the specifications contained in this Annex as well as other relevant ICAO specifications through an appropriate regulatory framework.



# 1. International and national requirements



## *National Requirements*

It is necessary to ensure that all the documents below are aligned and do not in conflict with each other regarding the certification provisions.

Chicago Convention and  
19 annexes

Civil aviation  
Primary legislation

Regulations

Guides and  
procedures

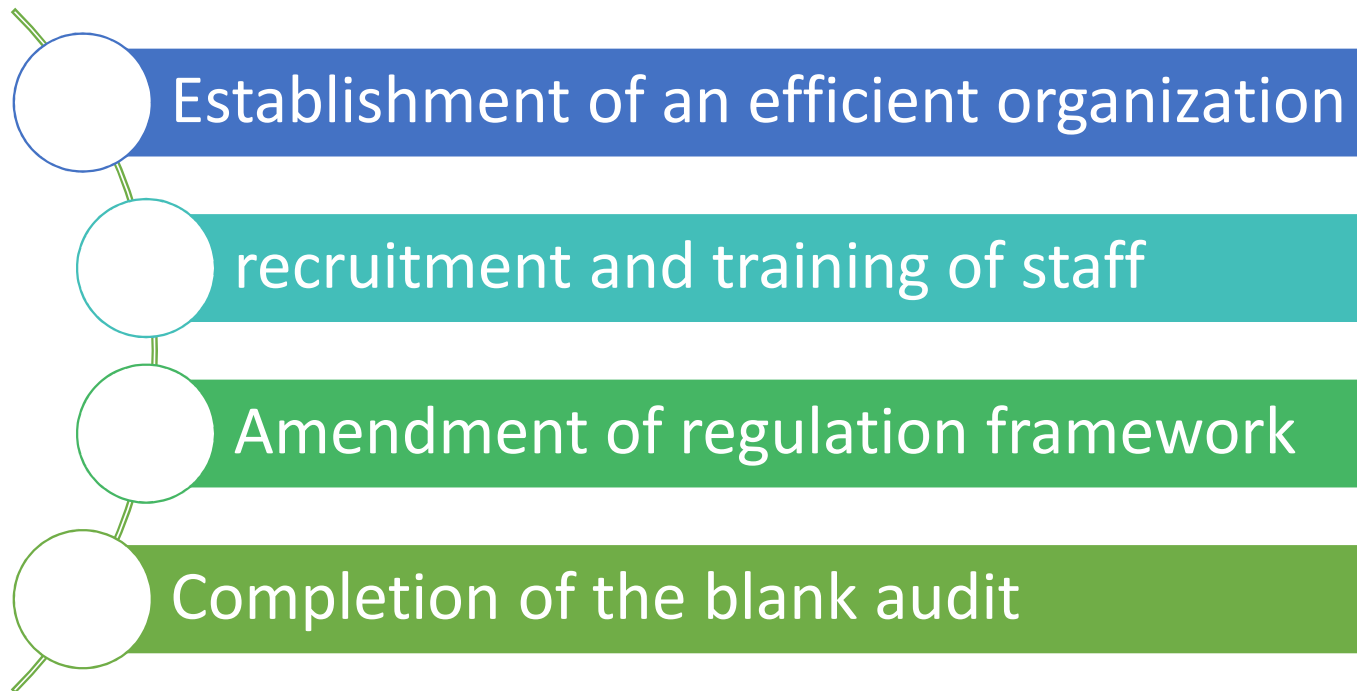
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## 2. Strategic actions prior to certification



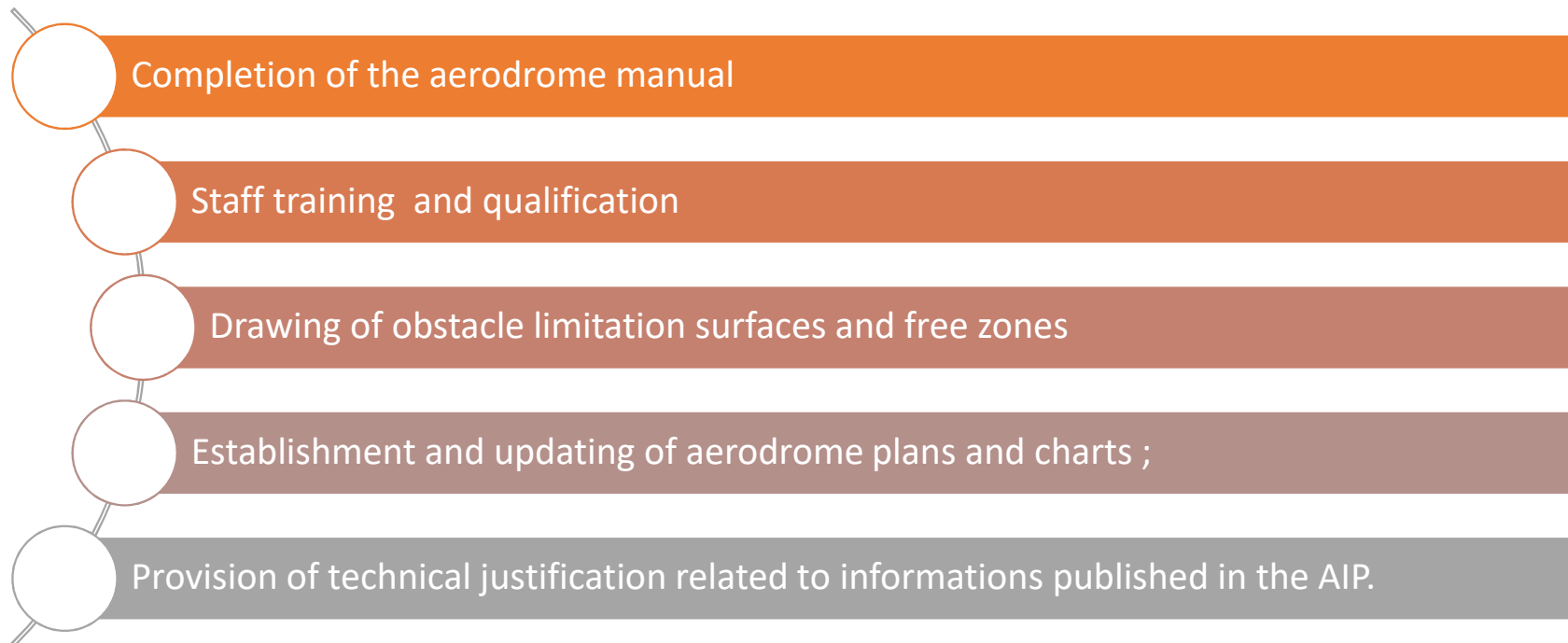
*Request of COSCAP-UEMOA assistance on CAA side (April 2013)*



## 2. Strategic actions prior to certification



### *Resquest APEX assistance on operator side (May 2014)*



## 2. Strategic actions prior to certification

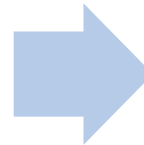


### Updating and establishment of CAA regulations



#### Relevant ICAO Regulatory frameworks

- Annex 14, Vol I – Aerodrome Design and Operations ;
- Annex 19 – Safety Management ;
- Doc 9981- Procedures for Air Navigation Services— Aerodromes (PANS-Aerodromes) ;
- Doc 9774 - Manual on Certification of Aerodromes ;
- Others manuals and technical documents



#### Cadre réglementaire ANAC CI

- RACI 6001, Règlement Aéronautique de Côte d'Ivoire relatif à la conception et à l'exploitation des aéronefs;
- RACI 8002 (Gestion de la sécurité);
- RACI 6101 (Procédures spécifiques pour l'exploitation des aérodromes);
- RACI 6003 (Certification des aérodromes)
- Autres règlements et guides connexes

From **2013 to 2017** We established and updated **41 documents**

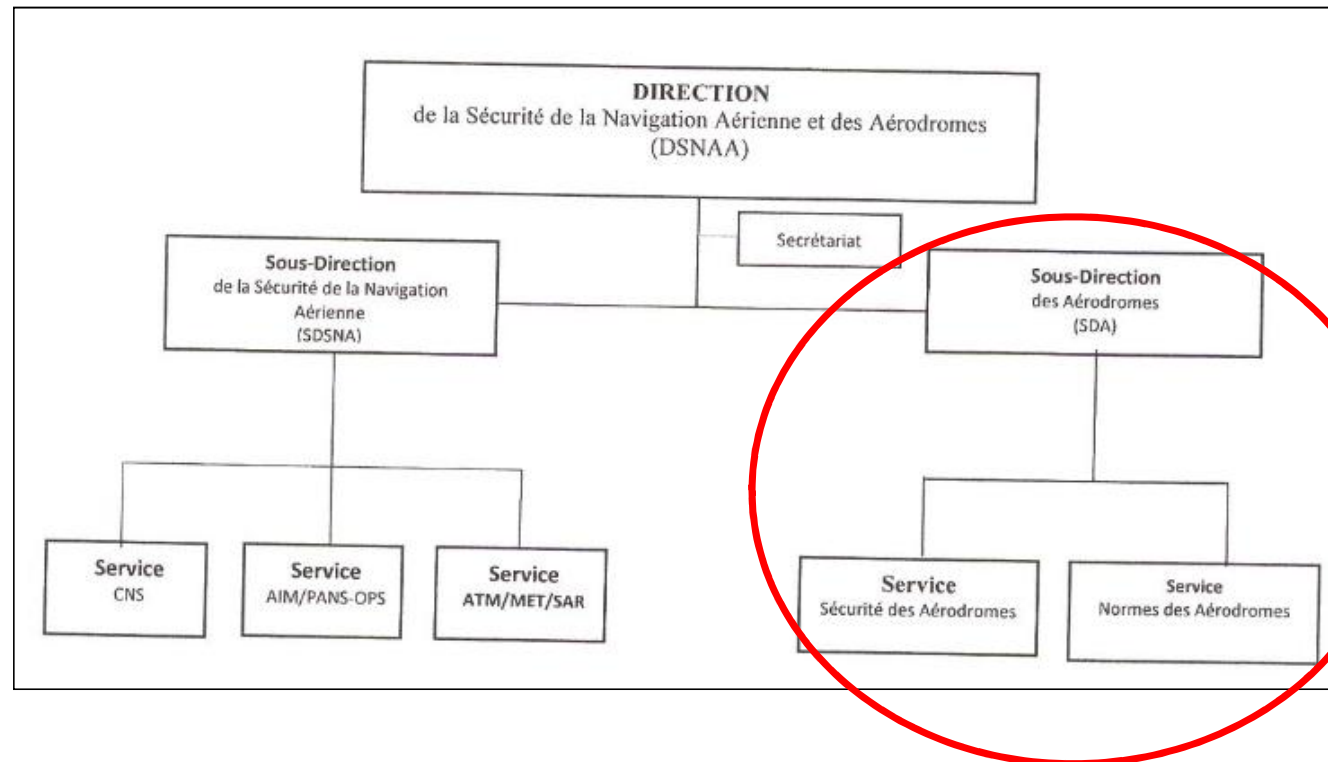


## 2. Strategic actions prior to certification



### *Amendment of organizational chart in 2014*

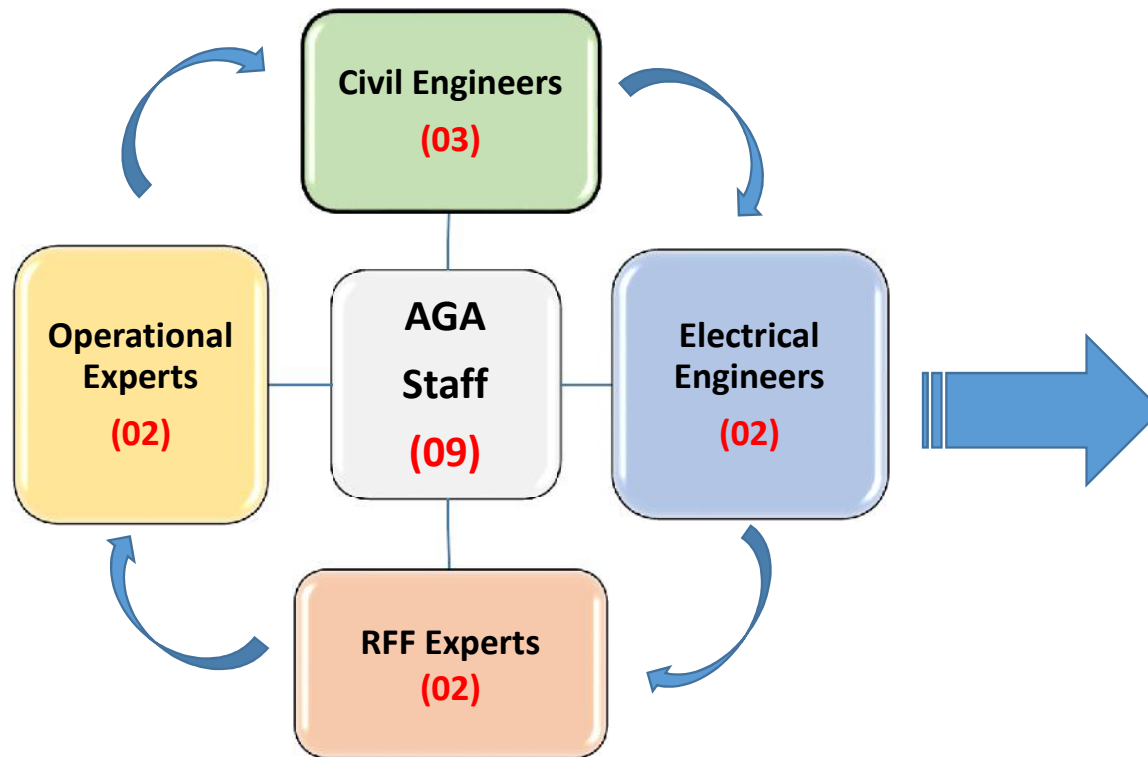
Creation of **Deputy direction** in charge of aerodrome safety including **aerodrome certification activities**



## 2. Strategic actions prior to certification



### *Recruitment and qualification of AGA staff (from 2011 to 2016)*



1. This number of staff is determined after the assessment of staff performing all critical activities such as **certification, homologation, inspection, audit, regulation, administrative tasks**, etc...
2. An adequate **training plan and qualification** have been established regarding the background of each employee

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## 3. CERTIFICATION PROCESS IMPLEMENTED

### Aerodrome certification process

Dealing with  
the  
expression  
of interest

Assessing  
the formal  
application

Assessing the  
aerodrome  
facilities,  
equipment  
and services

Issuing or  
refusing an  
aerodrome  
certificate

Promulgating  
the certified  
status of an  
aerodrome

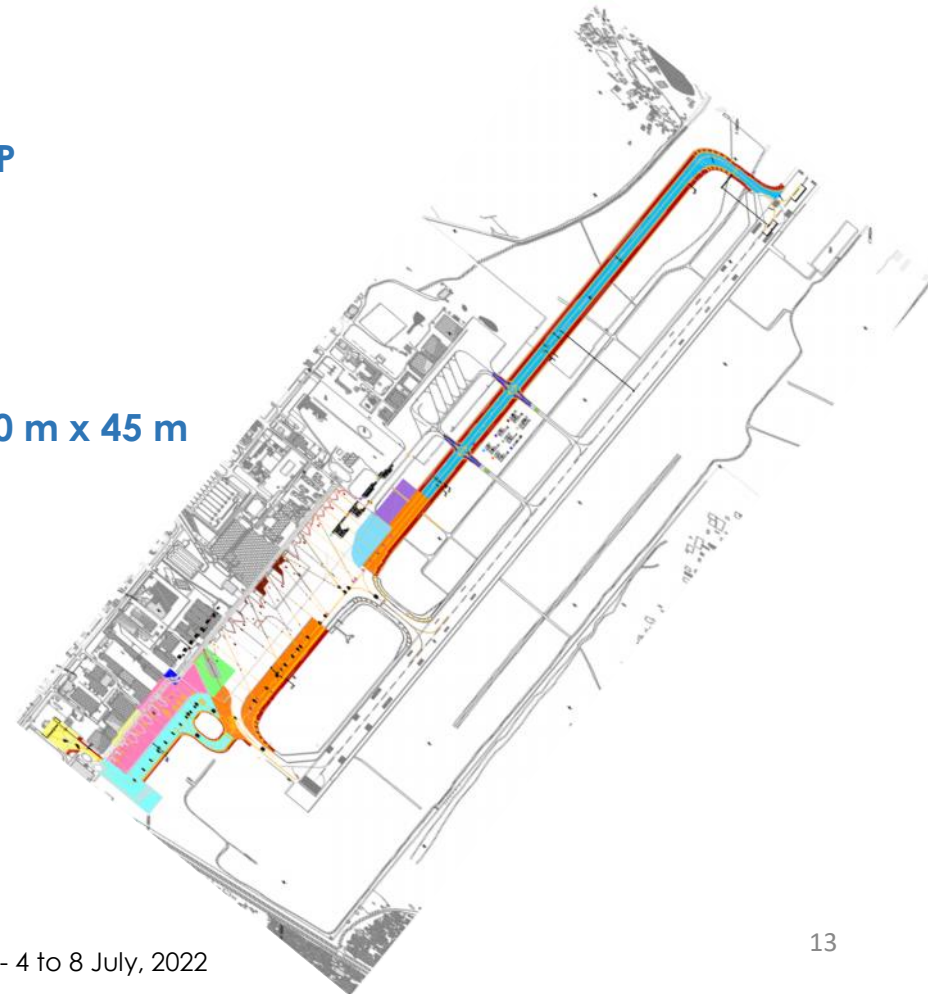
# 3. CERTIFICATION PROCESS IMPLEMENTED



## Abidjan Airport :

1. Location indicator : **DIAP**
2. Reference code : **4E**
3. Orientation : **03 / 21**
4. Runway in asphalt : **3000 m x 45 m**
5. Operation : **CAT I**
6. RFF protection level : **9**

\* Only one international airport

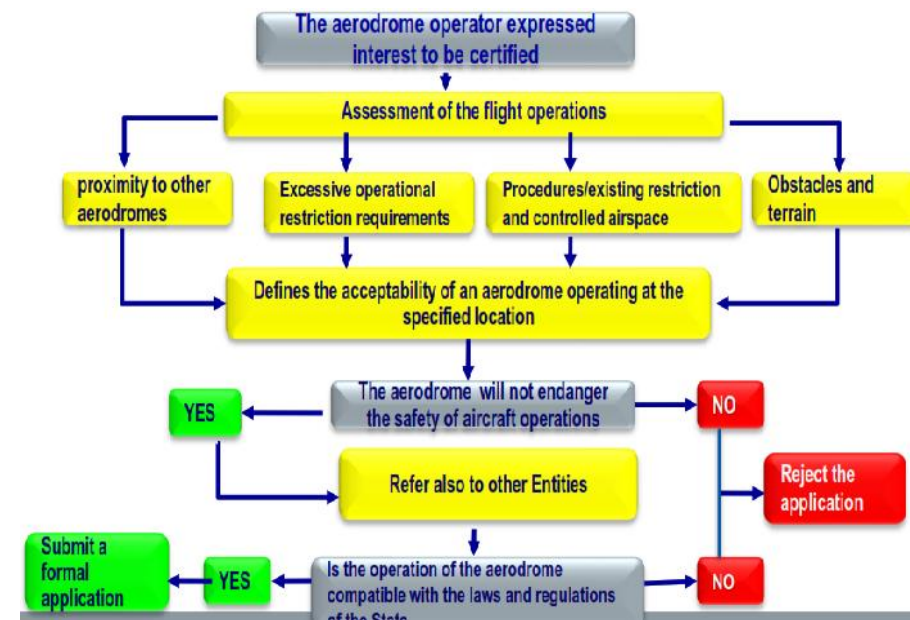


# 3. CERTIFICATION PROCESS IMPLEMENTED

## Phase 1 : Dealing with the expression of interest

- In September 2014, the aerodrome operator expressed his interest in the certification of Abidjan Airport
- We established a certification team composed of AGA inspectors, ANS inspectors, AVSEC inspectors and other competent state entities

This phase resulted in **a meeting with the stakeholders to define the requirements of each party in the certification process and identify the different concerns and specify future actions**



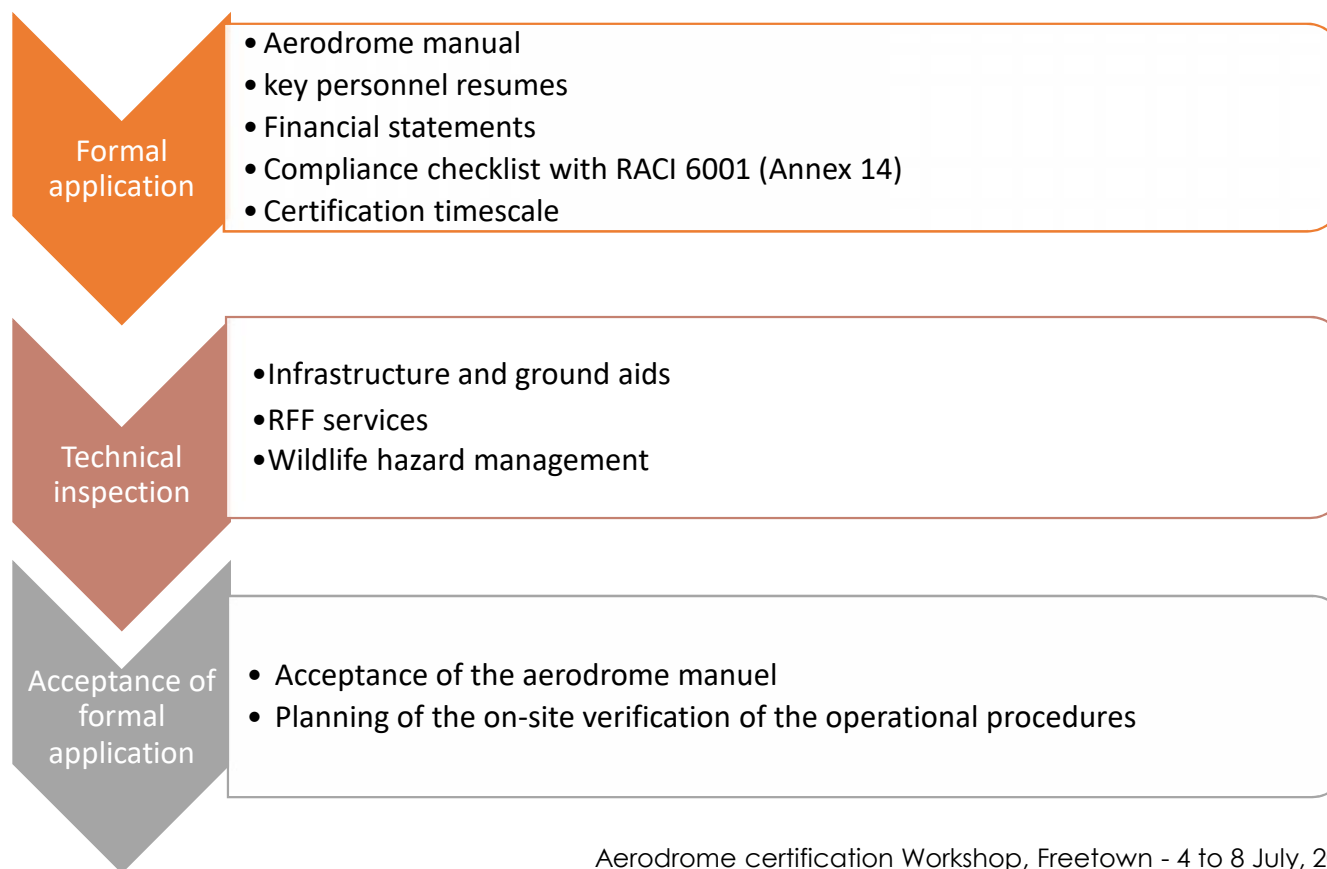
# 3. CERTIFICATION PROCESS IMPLEMENTED





# 3. CERTIFICATION PROCESS IMPLEMENTED

## Phase 2 : Assessing the formal application



### TECHNICAL INSPECTION RECORDS

- Notifications
- Inspection Plan
- Check-lists
- Listes de présence (réunion d'ouverture & réunion de clôture)
- Findings records
- Reports
- Evidences
- Action plans
- Action plans follow-up reports
- Etc.



# 3. CERTIFICATION PROCESS IMPLEMENTED

## *Phase 3 : On-site verification*

The on-site verification covered :

- Compliance of operational procedures and their day-to-day application
- Compliance of the safety management system (SMS) with applicable regulations
- Assessment of training and qualifications of airport personnel

*The audit was conducted by*

- ❑ *AGA inspectors,*
- ❑ *ANS inspectors,*
- ❑ *AVSEC inspector and,*
- ❑ *External AGA inspectors*

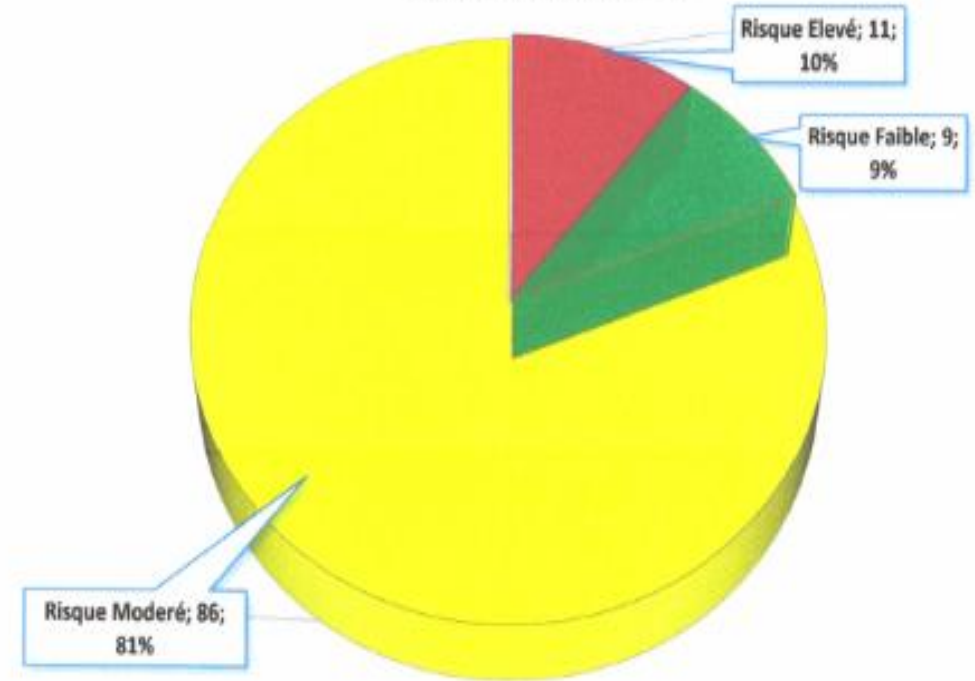


# 3. CERTIFICATION PROCESS IMPLEMENTED

## Phase 3 : On-site verification

Risk probability	Risk severity				
	Catastrophic A	Hazardous B	Major C	Minor D	Negligible E
Frequent 5	5A	5B	5C	5D	5E
Occasional 4	4A	4B	4C	4D	4E
Remote 3	3A	3B	3C	3D	3E
Improbable 2	2A	2B	2C	2D	2E
Extremely Improbable 1	1A	1B	1C	1D	1E

AEROPORT INTERNATIONAL FHB : EVALUATION DES RISQUES LIEES AUX CONSTATIONS DE L'AUDIT SUR SITE ET L'INSPECTION TECHNIQUE



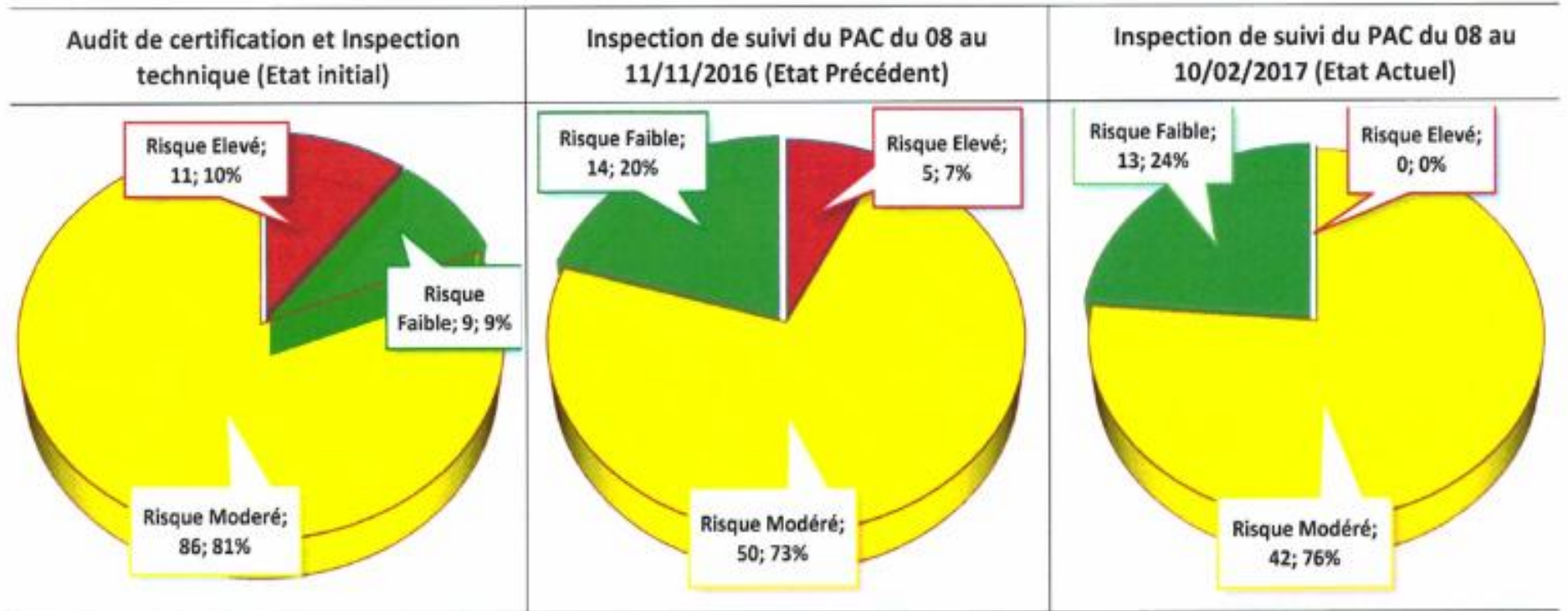
# 3. CERTIFICATION PROCESS IMPLEMENTED

## Phase 4 : Issuing of the aerodrome certificate

*Results of the Audit*  
**106 findings**

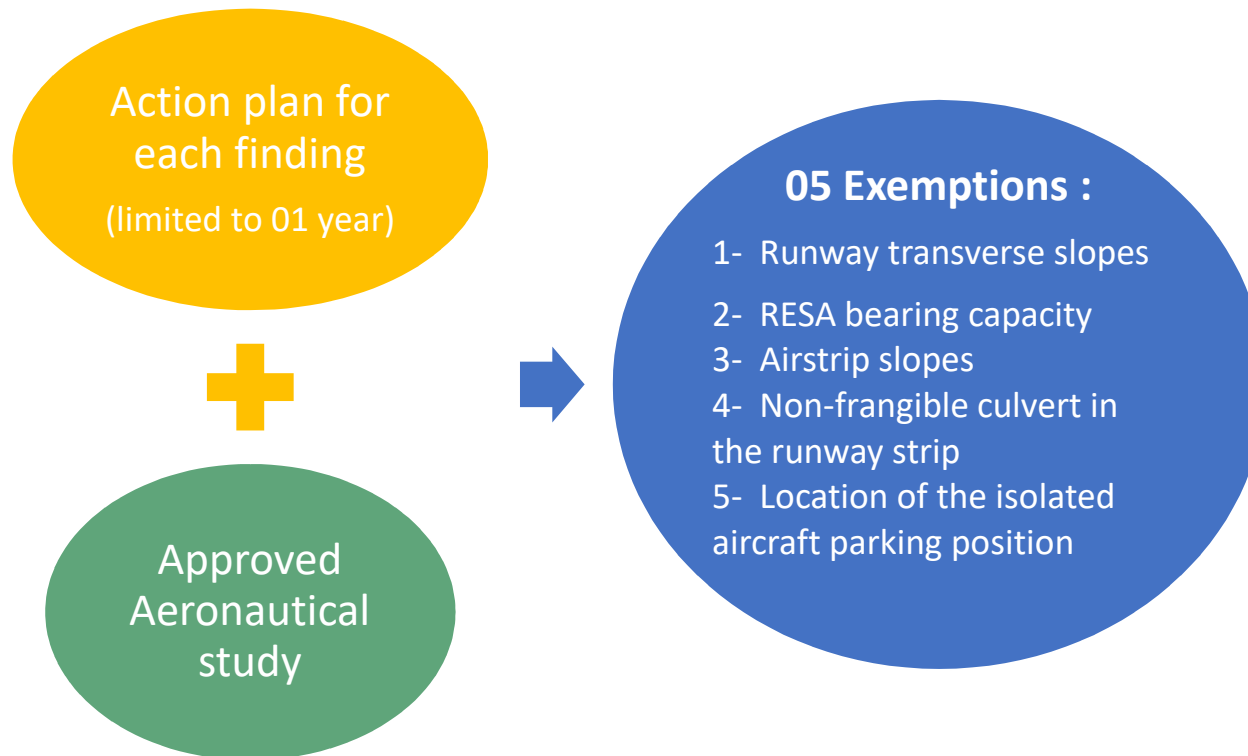
*follow-up of the Corrective Action Plan (each 3 months)*  
**69 findings**

**55 findings**



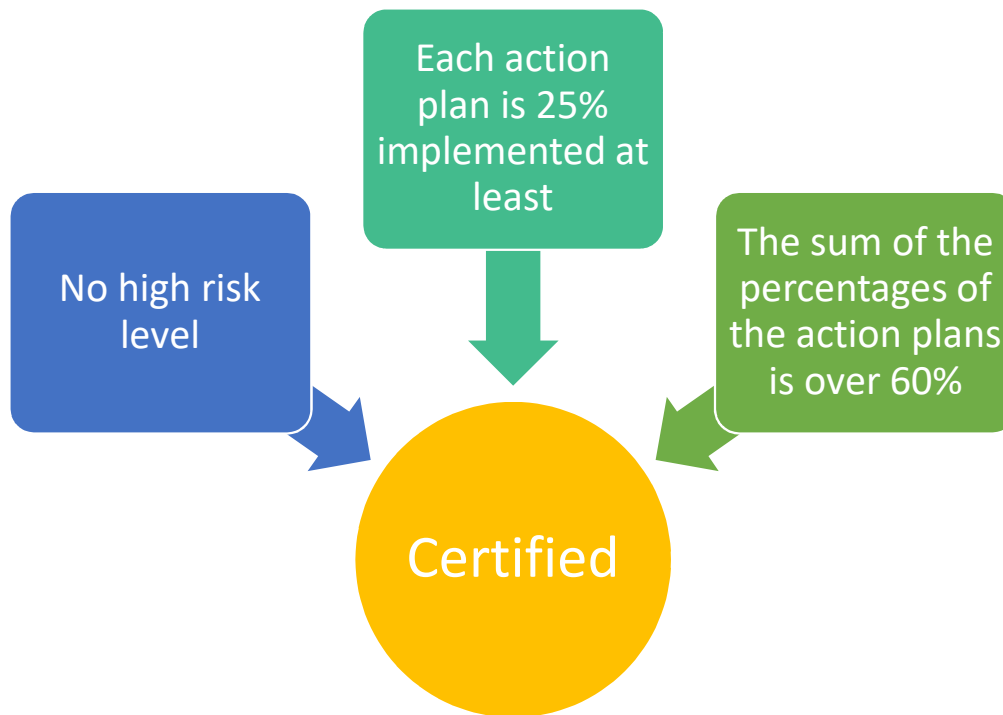
# 3. CERTIFICATION PROCESS IMPLEMENTED

## *Phase 4 : Issuing of the aerodrome certificate*



# 3. CERTIFICATION PROCESS IMPLEMENTED

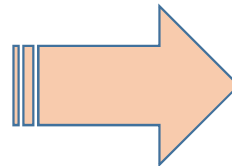
## Phase 4 : Issuing of the aerodrome certificate





# 3. CERTIFICATION PROCESS IMPLEMENTED

## Phase 5 : Promulgating the certified status of the aerodrome



AIP / ASECNA		COTE D'IVOIRE		08 AD 1-5-01 09 NOVEMBRE 2017
AD 1.5 - ETAT DE CERTIFICATION DES AERODROMES STATUS OF CERTIFICATION OF AERODROMES				
Nom de l'aérodrome / Indicateur d'emplacement / Aerodrome name - Location Indicator	Date de certification / Date of certification	Validité de la certification / Validity of certification	Remarque / Remark	
1	2	3	4	
Aéroport International Félix Houphouët Boigny d'Abidjan / International Airport Félix Houphouët Boigny of Abidjan  DIAP	11 Juillet 2017 / July 11, 2017	Validité trois (3) ans Validity three (3) years	Les exemptions associées au Certificat sont publiées dans la section 6 GEN1.7  The exemptions associated with the certificate are published in the section 6 GEN1.7	

1 : Dans la colonne 3, le trait (-) indique que le certificat n'a pas de date d'expiration ; le certificat est d'une durée illimitée.  
in column 3, the line (-) indicates that the certificate does not have an expiry date. The certificate is of unlimited duration  
2 : Les indicateurs d'emplacement marqués d'un astérisque (\*) ne peuvent être utilisés dans la formule d'adresse des messages SFA.  
The location indicators marked with an asterisk (\*) cannot be used in the address component of AFS messages.

SERVICE DE L'INFORMATION  
AERONAUTIQUE - ASECNA  
AMDT 12/17

# 3. CERTIFICATION PROCESS IMPLEMENTED

## *Strong documentation records*



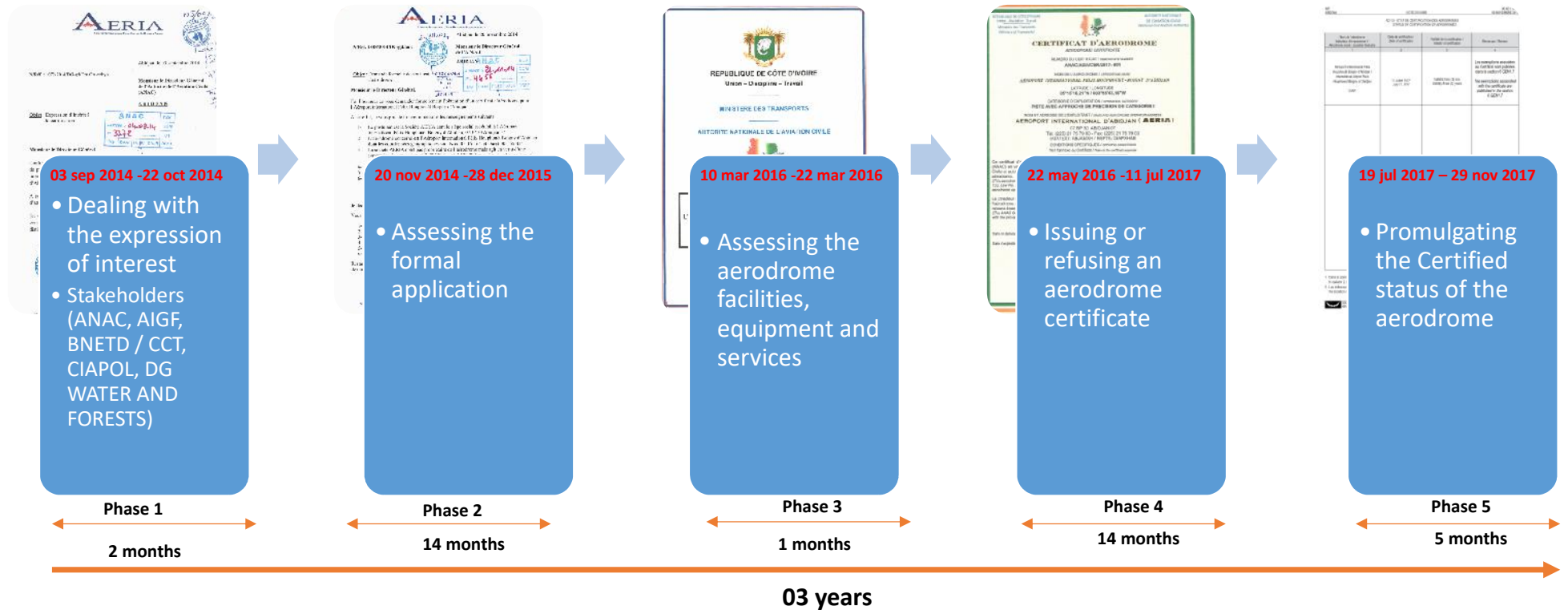
**AG library**



**Certificate register**

# 3. CERTIFICATION PROCESS IMPLEMENTED

## Chronology of Abidjan Airport Certification Process





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## 4. CONCLUSION



### Strengths

- Commitment of the first officials
- Recruitment and training of staff (CAA, Operator, etc ...)
- Involvement of all stakeholders in the certification process
- Upgrading of facilities by implementing of action plans



### Weaknesses

- Activities not clearly under the responsibility of the operator (Wildlife, emergency response plan)
- Audit areas under the responsibility of ANSP not coordinated by operator (AIS, RFF)
- Lack of protocol agreements including the responsibilities of stakeholders

# 4. CONCLUSION

## Keys of successful certification process

