



**MINISTÈRE
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APAC QUALITY ASSURANCE WEBINAR

DSNA, France organization to support Quality Assurance in IPD

October 27 2020



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APAC Quality Assurance Webinar

DSNA, France organization to support Quality Assurance in IPD



Implementing a Quality Assurance System for IPD?

The managing of every stage of a production process to make certain that the goods being produced are of the intended standard.

What are the goods?

The trajectories being designed or maintained.

The Way Points being defined and stored into on board navigation databases.

The coding Path Terminators and the procedure altitudes being published in national AIP.

The stakeholders of the QA are IP designers and data providers.

What are the intended standard of the produced data?

Integrity and accuracy of the data.

Compliance of the data with the users requirements.

Safe integration of the data within the environment (ATC, obstacles, noise).

Implementing a Quality Assurance System for IPD?

The managing of every stage of a production process to make certain that the goods being produced are of the intended standard.

Implementing a QA system in IPD implies providing all IPD stakeholders with training, tools and documents to guide them in order for them to perform each step of the IPD process as expected to reach the goal.

This the RESPONSIBILITY of the PROCEDURE DESIGN ENTITY to define , implement and maintain its IPD Quality Assurance System.

Managing Quality goes with increasing SAFETY and EFFICENCY.

Summary

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1.French Context

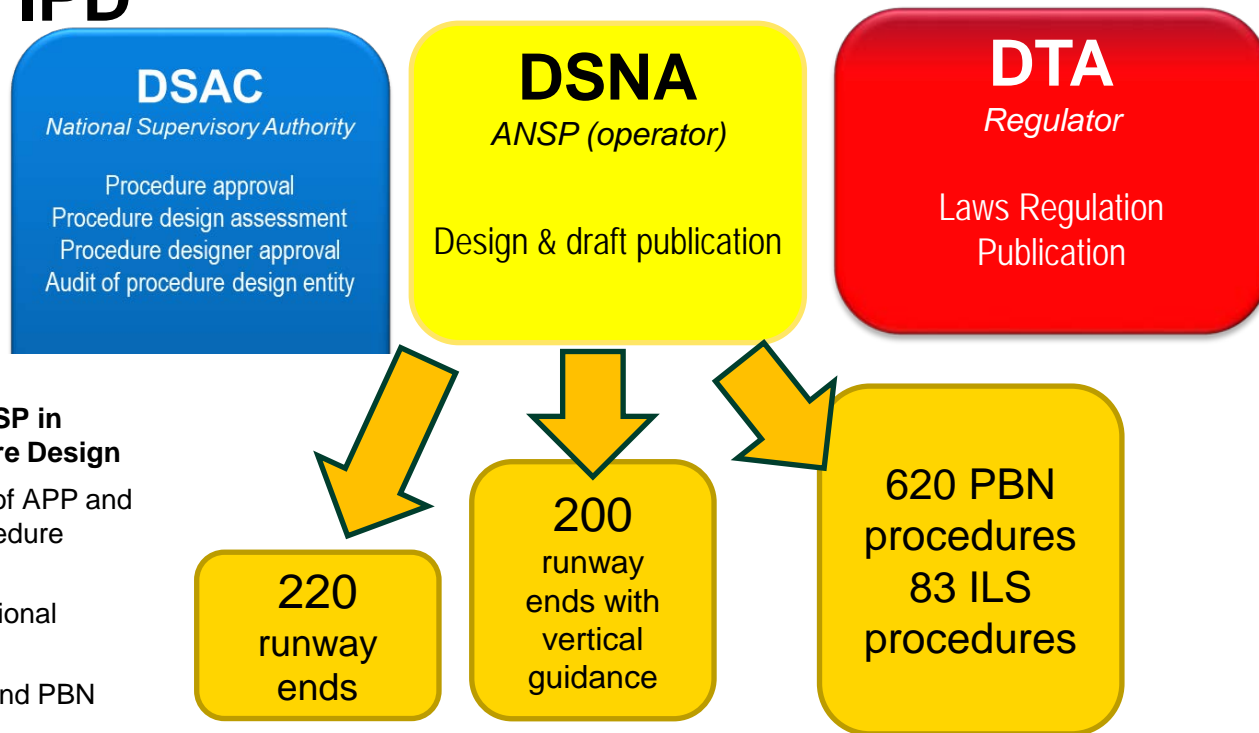
2.Important steps for quality

3.DSNA Organization

1. French Context



Airports and IPD



DSNA is the main French ANSP in terms of Instrument Procedure Design

9 Regional Services in charge of APP and AD ATC also in charge of Procedure Design

3 procedure designers per Regional Service.

81 Airports with Conventional and PBN trajectories

Quality Assurance system : WHY in DSNA context?

TECHNICAL REASONS :

Workload due to massive PBN implementation (European PBN Implementing Rule for 2023)

Complexity of the design process.

Accuracy and integrity requirements for PBN data (in and out)

Increased level of Safety

Periodic **Review**

Five years **Maintenance** cycle.

REGULATORY REASONS :

Certification of « IPD service » at European level by EASA (European Safety Authority)

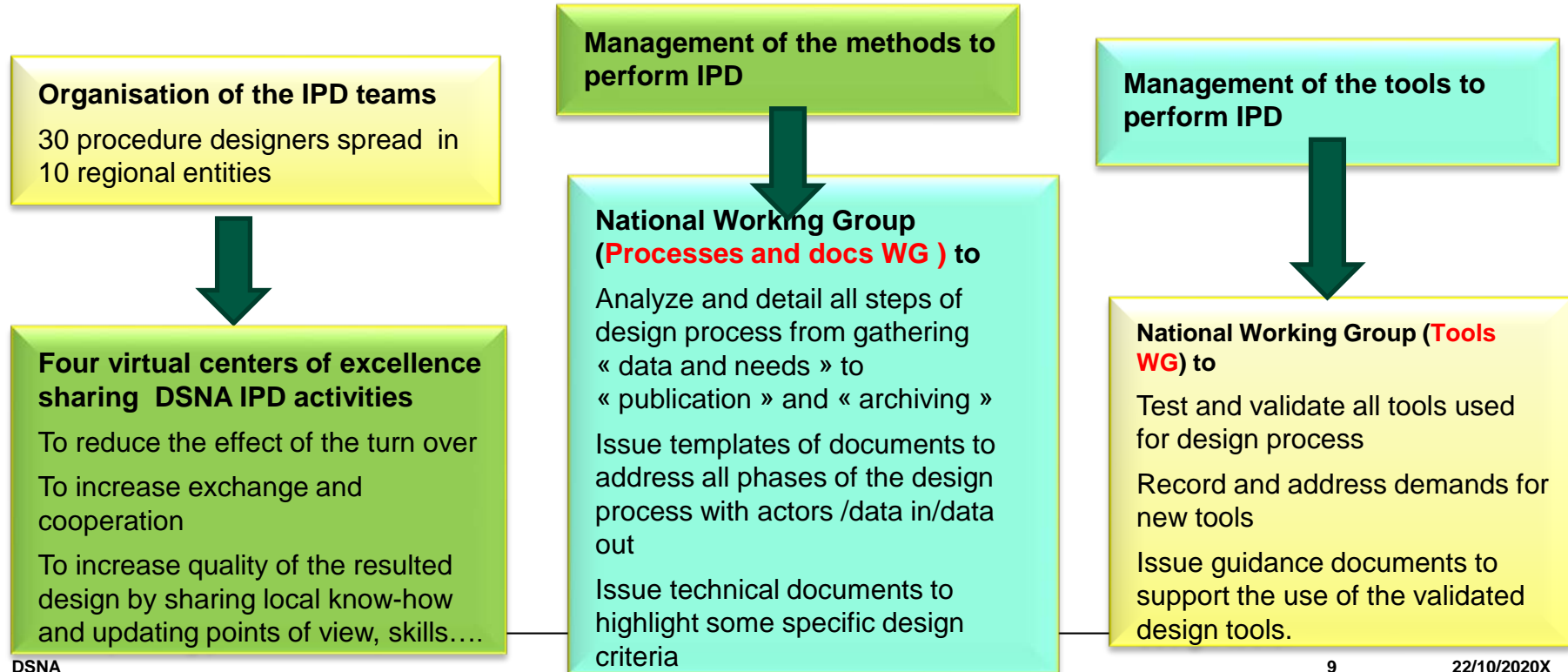
DSNA must provide proofs of the quality of the IPD service provided.

HUMAN REASONS :

Reduce or mitigate the impact of the high level of turn over among the procedure designers.

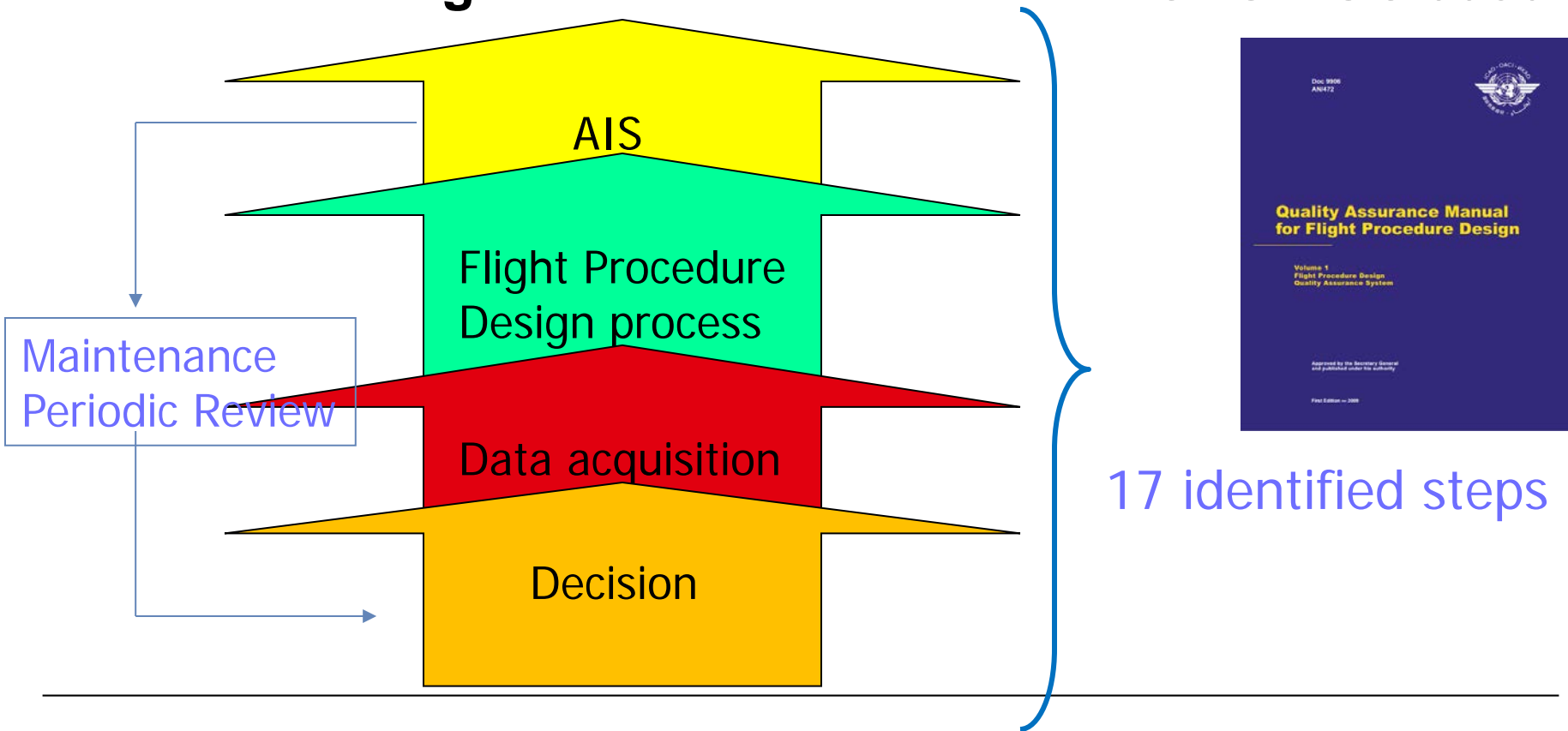
Increased number of errors due to PBN context (WP coordinates, coding tables...)

Quality assurance system : HOW in DSNA context?



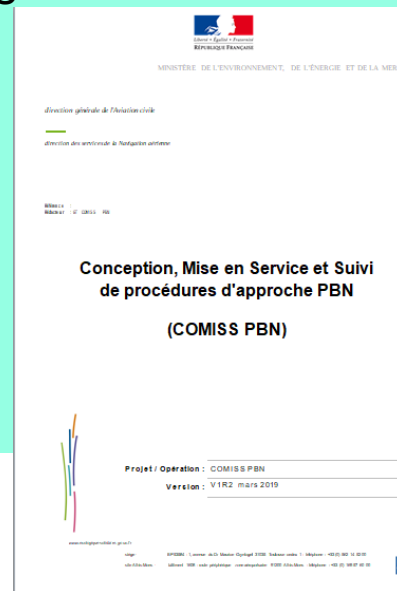
2. Important steps for quality and safety

Instrument Flight Procedure Process in ICAO DOC 9906



Major/basic steps to improve quality in design process

ANCHOR the design process in a document describing
all steps,
actors
duties of the design process
as defined and accepted by the design entity.



Using ONLY validated Tools

Verification step



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NATIONALE
UNIVERSITÉ PARIS 13
NORD-DEPARTEMENT

N° de l'élève : 00000000000000000000

N° de l'école : 00000000000000000000

La note finale est le minimum des 20 sur l'échelle de 0 à 20,00, pour la partie normale de l'épreuve.

Calculatrice de la T.N. moyenne :

Absence de l'élève de la date du 10/05/2019 au 10/05/2019	Moyenne l'élève sur la partie normale de l'épreuve	M.P.N	T.N. moyenne (T.N.)

• Note de rattrapage

Nom	Prénoms	Séance	Coordonnées	Absence	Date	Moyenne l'élève sur la partie normale de l'épreuve	M.P.N	Note finale (T.N.)

La T.N. moyenne est 00,00. Elle permet de savoir des données significatives lors d'examens écrits, avec une précision de 0,25.

Dispositif d'amélioration des notes

Pour améliorer des évaluations d'un élève de la note en rattrapage, une M.P.N. correspond à 0,25 de la moyenne calculée dans le 20 sur l'échelle des notes de la partie normale de l'épreuve.

Pour améliorer des évaluations d'un élève de la note en rattrapage, une M.P.N. correspond à 0,25 de la moyenne calculée dans le 20 sur l'échelle des notes de la partie normale de l'épreuve.

• Note de la partie normale de l'épreuve

Les élèves classés dans la note en rattrapage peuvent calculer la partie normale de l'épreuve.

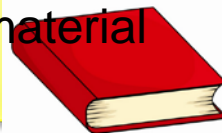
Calcul des notes de la partie normale de l'épreuve en rattrapage pour chaque élève classé dans la note en rattrapage.

Nom	Prénoms	Séance	Coordonnées	Absence	Date	Moyenne l'élève sur la partie normale de l'épreuve	M.P.N	Note finale (T.N.)

Données significatives

[illegible]

Guidance material



Good practices for documents management

Using a document
management tool
platform



create, deliver, and share documents online
among **ALL** Procedure Design actors

Accueil Mes fichiers Sites Tâches Personnes GED Corinne BOUSQUET Rechercher des fichiers, persc

dgac Coordination nationale des procédures Modéré

Tableau de bord du site Espace documentaire Calendrier Wiki Membres du site

Wiki - Liens utiles

Fonctionnement interne DSNA

PRO-018 DSNA :

Etablissement des procédures de vol aux instruments

PRO-006 DSNA : Gestion des compétences

Remarque sur le site

Ce site a pour vocation de regrouper les documents utiles à l'activité de conception de procédures de vol aux instruments :

- documents de politique générale du domaine et indicateurs
- informations sur le pilotage de l'activité
- outils & Méthode - Supports de formation
- documents concernant les membres du personnel impliqués dans l'établissement des procédures de vol aux instruments et leur suivi
- textes divers : réglementaires, qualité, consignes, référentiels extérieurs (OACI, dont PANS-OPS et IFPP, CANSO, Eurocontrol, IATA etc.), guides internes et modes opératoires

Profil du site

Bienvenue sur Coordination nationale des procédures

Activité Procédures de vol aux instruments

Gestionnaire(s) du site : Laure TRUCHOT, GEODe-MOA-DSNA-Id, Magali CLOVIS, Philippe BIZET

Create a IPD community

Good practices for documents management

Management tool platform: a MANDATORY MEDIUM



1. Regulation
2. Specific requirements
3. Training document
4. List of validated tools
5. List and storage of template documents
6. Description of the processes
7. Storage of all published technical report

1. Improve communication among IPD
2. Updated documents
3. Exchange of skill and know-how
4. Improve and consolidate the continuous training of new PD
5. Allow a better management and follow-up of the PBN strategy implementation
6. Contribute to ease telework

3. DSNA organization



Main bodies to support Quality through management and follow-up of the design process

DSNA Steering Committee to assess PBN IFR IPD implementation:

Definition of IPD strategy (PBN)

Rules to support IPD process

Regular assessment of producted quality

Feedback from Data Houses

DSNA TF responsible of :

Approval of the documents and processes proposed by « **Processes and docs WG** »

Requirement for **new documents** to be standardized

Approval of the validated tools

Requirement for **new automated features** or tools

Information and training of the PD to use documents tool and perform the IPD process

Processes and docs WG

Validation Tools WG

Conclusion : Price of the Quality in Procedure design

Time and collaboration

Training and regular assessment

Change in working methods



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Thank You. Questions ?

