



EUROPEAN AVIATION SAFETY AGENCY
AGENCE EUROPÉENNE DE LA SÉCURITÉ AÉRIENNE
EUROPÄISCHE AGENTUR FÜR FLUGSICHERHEIT

Performance Based Navigation

-

Roles and Responsibilities

**PBN Workshop,
14 January 2014**

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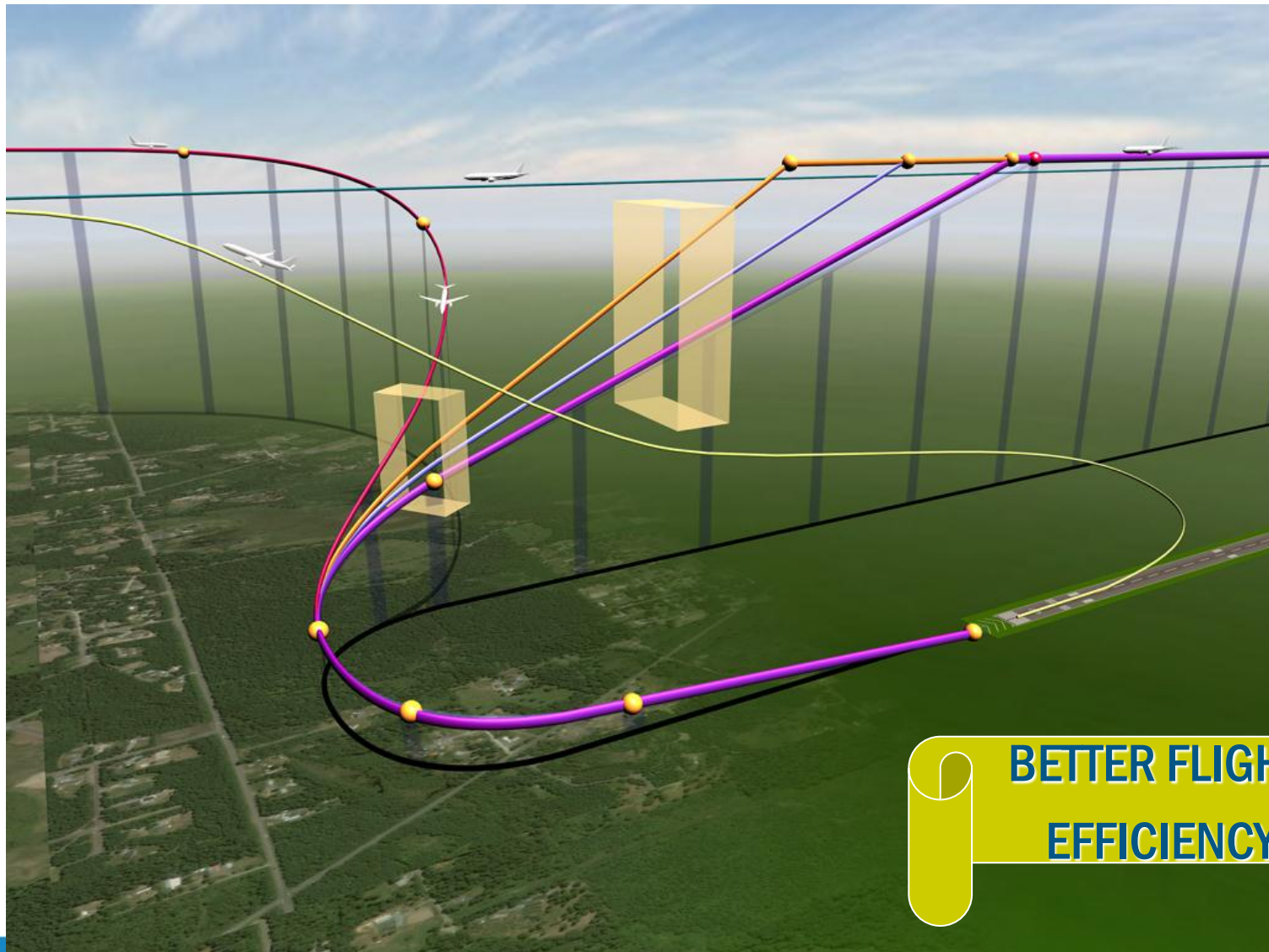


Contents

- What is PBN?
- Bring together the puzzle;
- Roles and Responsibilities.



What is PBN





Bringing Together the Puzzle



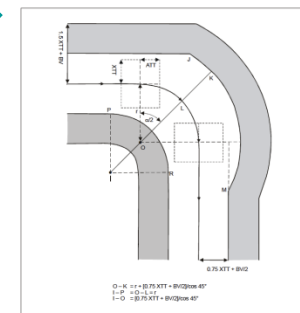
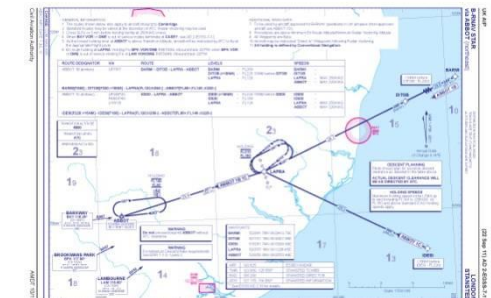
Infrastructure

PBN



SOPs

ATM , including ATS



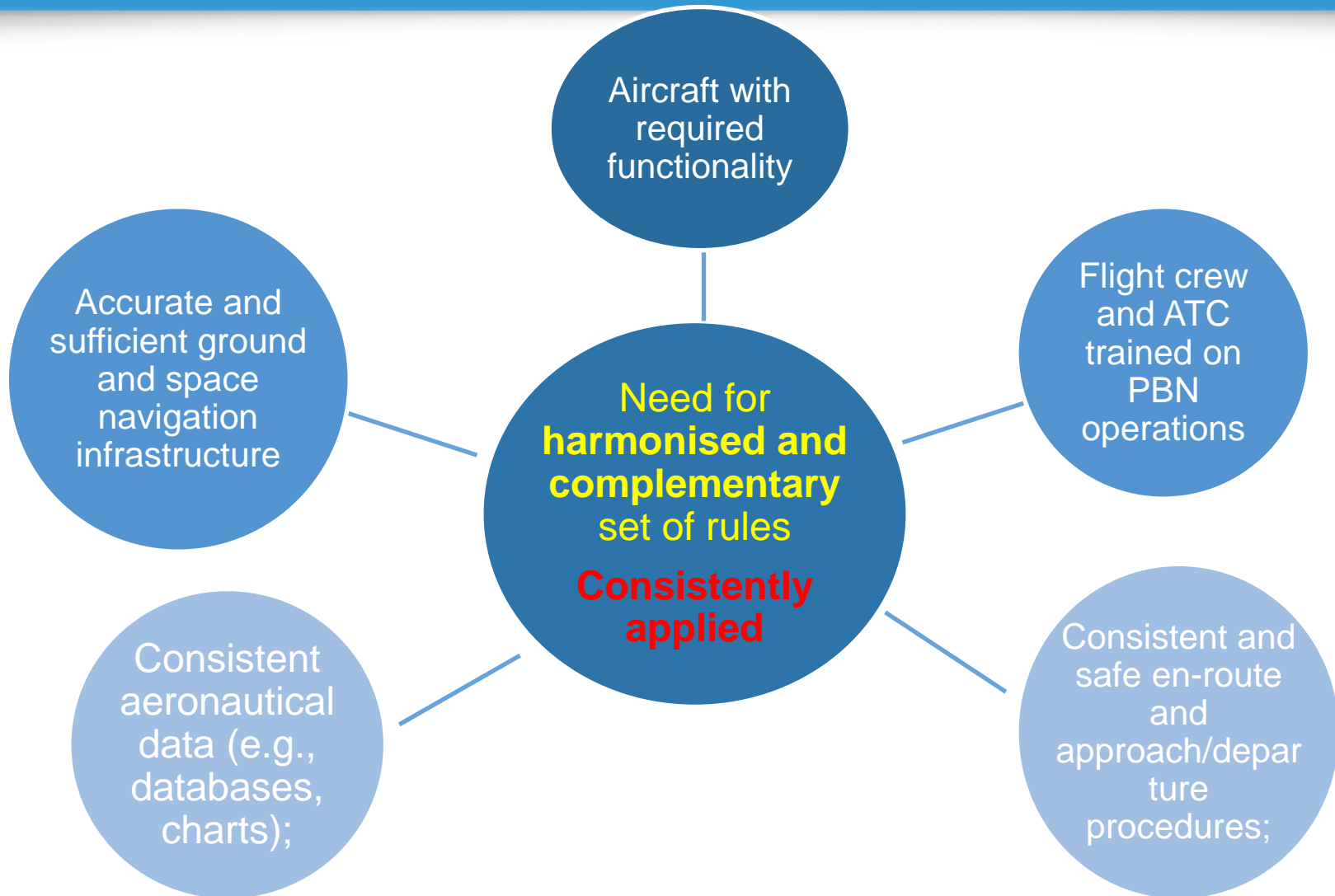
Obstacle
Assessment

```
ECON CRZ AI101
CRZ OPT REC MAX
FL100 FL111 FL410
<REPORT
UPDATE AT
*[ ]
BRG / DIST
206° / 25.2 TO TOU
PREDICTIVE
<GPS GPS PRIMARY
REQUIRED ACCUR ESTIMATED
2.1 NM HIGH 0.08 NM
```

Aircraft Performance and Functionality
including Navigation Data Base Coding



Total System Approach





Aircraft Operations



Operator wish to fly PBN routes or procedures

Aircraft

Capabilities consistent with the routes/procedure to be flown.

OEM /STC

Aircraft manufactured or modified compliant to the required performance and functionalities.

Regulator

Availability of correct certification standards.

ICAO

Agreed global standard

Competent Authority



Aircraft Operations



Operator wish to fly PBN routes or procedures

Operating Procedures

Operating procedures need to be developed and crew trained.

Competent Authority

OEM /STC

Provide aircraft specific operational information.

Regulator

Availability of correct guidance material.

ICAO

Agreed global operational procedures



ATM and Aerodromes



PBN routes or procedures have been determined to be required

**Design route/
procedures**

**ANSP to design routes
/procedures**

State

**Route/procedure to be
published**

Regulator

**Availability of correct
guidance material.**

ICAO

Agreed global criteria

**Competent
Authority**



Safe/efficient PBN Operations

Aircraft Capability

Airspace designed

Operator authorised





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Thank you for your attention!

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