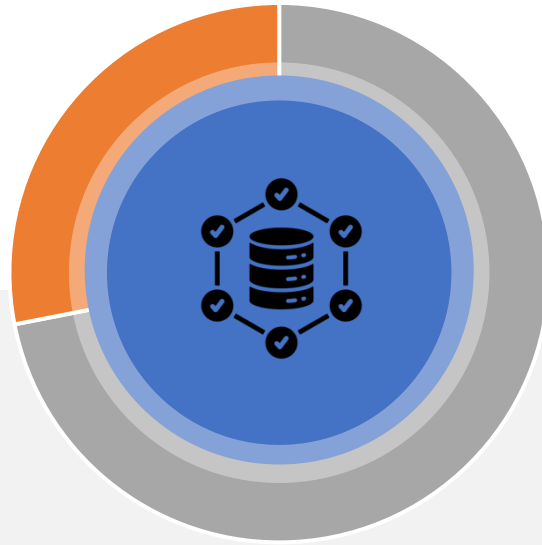


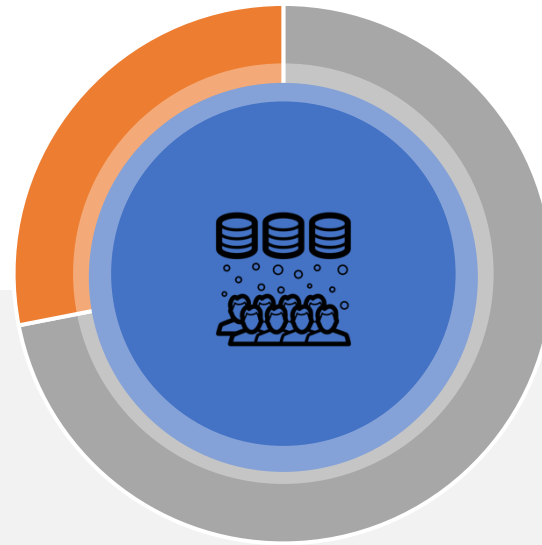


Performance Based Navigation

PBN : Dependencies



Static Data



Dynamic Data

Static Data



Aircraft Performance



Procedures for Air Navigation Services (PANS)

Dynamic Data

Aerodrome Features



RWY, TWY & Features



NAVAids

Obstacle Environment



Terrain



Obstacles

Process for Obstacle Data Capture



Satellite Images



Terrestrial Survey

Dynamic Data



Origination



Validation



Apprehensions of End Users

1. Lack of Confidence
2. Doubt about Accuracy of Data captured
3. Assurance of the Completeness of the data provided
4. Latest-ness of the Data Received



Limitations with Data Originators

1. Domain Knowledge -

End user's requirements and Criticality of data for PBN

2. Competency Gap -

Specific training w.r.t. Aeronautical Surveys and its impact on PBN

3. Consistency -

Uniformity of Enforcement or Development of Policy
(e.g. Local Datum vs Global Datum)



Way Forward : Certification of Agencies

Application - Step 1

- ✓ Team Details (Education, Training, KRA – Competency)
- ✓ Process (SMS / QMS, Methodology, Approach)
- ✓ Technology (Software, Equipments, Maintenance)



Way Forward : Certification of Agencies

Physical Audit - Step 2

- ✓ Verification
- ✓ Setting up expectations
- ✓ Interview of team
- ✓ Experience of systems



Way Forward : Civil Aviation Regulation

Global Requirement and National Stakeholders

- Frequency of Survey (Initial + Check Survey)
- Fixing Datum
 - (WGS 84 - Horizontal & EGM - Vertical)
- List of Deliverables :
 - Format
 - Accuracy
 - Uniformity Geographic extends

Conclusion



Origination



Validation



THANK YOU

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