Group 2

Presentation on use cases of SWIM

Use Cases

Enhancing Information sharing

- Digitalisation of aeronautical information
- Cross-border sharing of surveillance data

Enhancing decision-making

- Improving decision making with Demand/Constraints information

Business requirements #1

Digitalisation of aeronautical information

Possible Use Case

Digitalisation of AIPs

- Enable automated update of the individual systems when there are AIP revisions

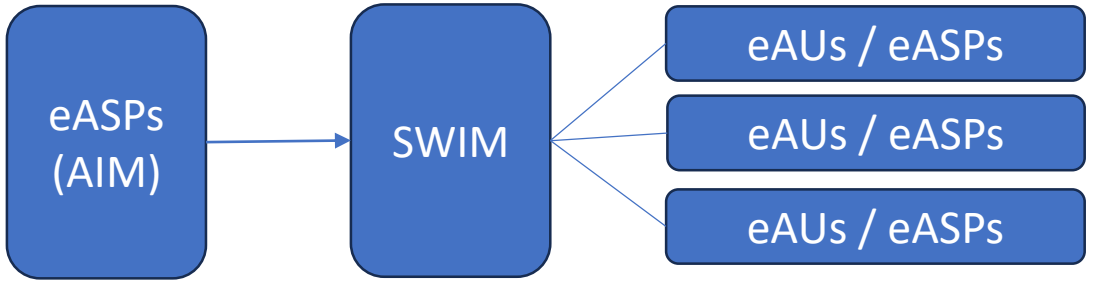
- **Digitalisation of NOTAMs**
- Enable automation in plotting/filtering of NOTAMs information

Benefits

- Reduce manual workload
- Reduce human error
- Automation and standardization can potentially reduce AIRAC duration

- Reduce manual workload
- Improve operational safety

Info Flow



Business requirements #2

Cross-border sharing of surveillance data

Possible Use Case

Extended Arrival Manager (XMAN)

- Expand planning horizon of arrival sequencing

Position updates of traffic

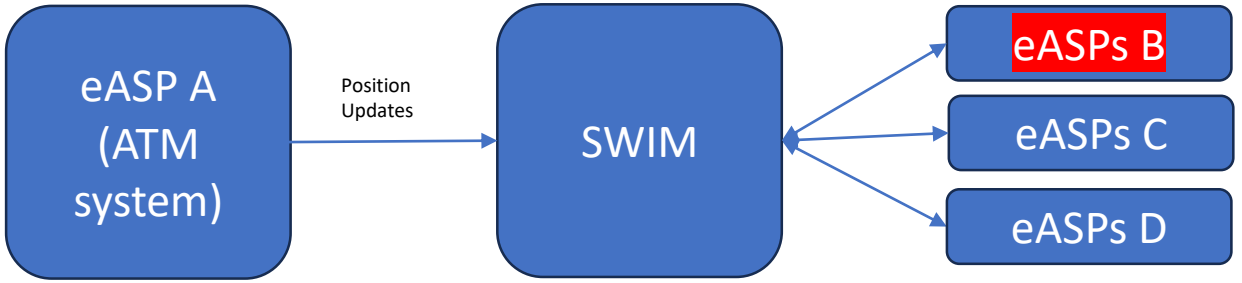
- Enable better Search and Rescue (SAR) outcome
- Better demand prediction for ATFM

Benefits

- Enhance efficiency and airspace utilization
- Better predictability for pilots
- En-route slowing down enable fuel savings contributing to sustainability
- Reduce operational cost

- Accurate demand prediction
- Wider coverage on distress aircraft
- Better response time for SAR operations

Info Flow



Business requirements #3

Improving decision making with Demand/Constraints information

Possible Use Case

Sharing on demand information on ATM resources

- Better decision making during congestion

Benefits

- Flexibility for airlines to re-route via less congested areas to achieve fuel savings
- Reduce ATC workload
- Improved safety and efficiency

Info Flow