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# Airspace Change Proposal Presentation to RAUWG

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## **Airspace Change Process**

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#### Stage 2

- Initial designs very ambitious, utilising many aspects of technological and procedural advancements;
- Inconsistency in policy guidance from the CAA led to multiple changes (withdrawal of AIC Y 023/2012 Application of Performance-based Navigation in UK Airspace) (justification for a trial of some procedures approved, then denied 6 weeks later);
- > Achieving buy-in from NATS Prestwick Centre has been a challenge as the Northern Terminal Control Area (NTCA) Project has taken their priority.

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- Integration of aircraft movements with adjacent airports result in delays or the presentation of aircraft in a poor lateral and/or vertical position, leading to:
  - Extensive delaying action to reduce height;
  - Potential safety issues mitigated only by an effective ATS, which is at capacity in the busiest periods;
- Current Noise Preferential Routes (NPR) cannot be adhered to and this causes significant concerns to the local population;
- Current airspace does not fully contain approach procedures (as detailed in the IAIP), leading to aircraft transiting outside CAS, with potential for conflict with GA;
- > Inefficiency by taking all aircraft west initially regardless of destination.

# **Options considered**



- > Option 0 do nothing;
- > Option 1 do minimal:
  - Different procedures, same airspace;
  - Same procedures, different airspace;
- > Option 2 other airspace constructs:
  - RMZ/TMZ;
  - Class E(+);
- > Option 3 new procedures and new airspace to provide containment.

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# **Evolution of design**



- > Initial procedure designs:
  - SIDs to every compass cardinal from each runway;
  - Separate SIDs for jets and turbo-props to reduce departure separations;
  - STARs from every compass cardinal;
  - Multiple transitions from each STAR;
  - Hold moved to the east of the Airport.
- > Airspace:
  - Large containment area.

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### **Initial procedures**



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## Initial airspace design



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- > Connectivity and integration with the en-route structure the primary concern;
- > Number of procedures too great; could all routes be justified in terms of usage?
- > Airspace requirements too great:
  - Potential adverse impact on a disproportionate number of aviation stakeholders;
  - Significant increase in the volume of local inhabitants overflown;
- > Complexity too great from both ATC and cockpit perspectives potential issues in Flight Management System configuration and flight planning.

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# **Changes introduced**



- > Revised version of procedures sought to solve these issues by:
  - Amalgamating jet and turbo-prop SIDs;
  - Reducing the number of SIDs to reflect the current and known-future usage of the routes;
  - Simplifying and reducing the number of STARs;
  - Moving the hold to the overhead.
- > Changes devised in close consultation with NATS PC; few other options now available due to the constraints of the en-route structure and other airports' traffic (primarily Manchester, LJLA, RHADS).

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- Mainly concentrated on engagement with NATS PC without integration into the enroute structure the project cannot progress;
- MoD Military Users Airspace Consultation Team (MUACT) requested to provide early comments on the proposal due to the close proximity of RAF Linton-on-Ouse and the Area of Intense Aerial Activity (AIAA);
- Manchester Airport part of the proposal is to raise the base of part of the Manchester TMA to facilitate IFR transits beneath, under discussion with the Airport;
- > RHADS To discuss on use of parts of the current RHADS CTAs within the lateral confines of L975 required for southerly departures and arrivals from LBIA.

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### Proposed airspace design



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# **Operational mitigations**



- > Aware that there will be impacts;
- > Hope that engagement at this stage will shape the airspace to meet other aviators' needs too;
- > Intention to develop:
  - LOAs with adjacent units to facilitate access to the airspace where practicable;
  - New VRPs (TBD);
  - Suggested crossing routes and altitudes that are likely to de-conflict with arrivals and departures; guide to GA on obtaining a service from LBIA within Class D to be published.

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- Designs are currently just lines on maps; qualified procedure designers will be plotting into PANS-OPS compliant designs to ensure the tracks work;
- > Procedures have already been simulated at PC as part of the NTCA programme, but further simulation to be conducted to ensure smooth integration with other airports' operations;
- > Containment areas to be drawn up to further inform the airspace design;
- Engagement with affected aviation stakeholders (hoping to identify suitable POCs today) to incorporate measures to ameliorate any impact and design solutions into subsequent airspace design;
- > Aim to resolve all potential aviation issues prior to formal consultation (Q2/Q3 2015).

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- > Reduced track mileage;
- $> CO_2$  emissions reductions;
- > New NPR to minimise impact on those overflown;
- > Facilitation of radar services west of LBIA (subject to Manchester agreement);
- > Simplification of CAS base altitudes.

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#### The big picture

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#### THANK YOU

**Questions?** 

Comments?

Rotten tomatoes?!

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