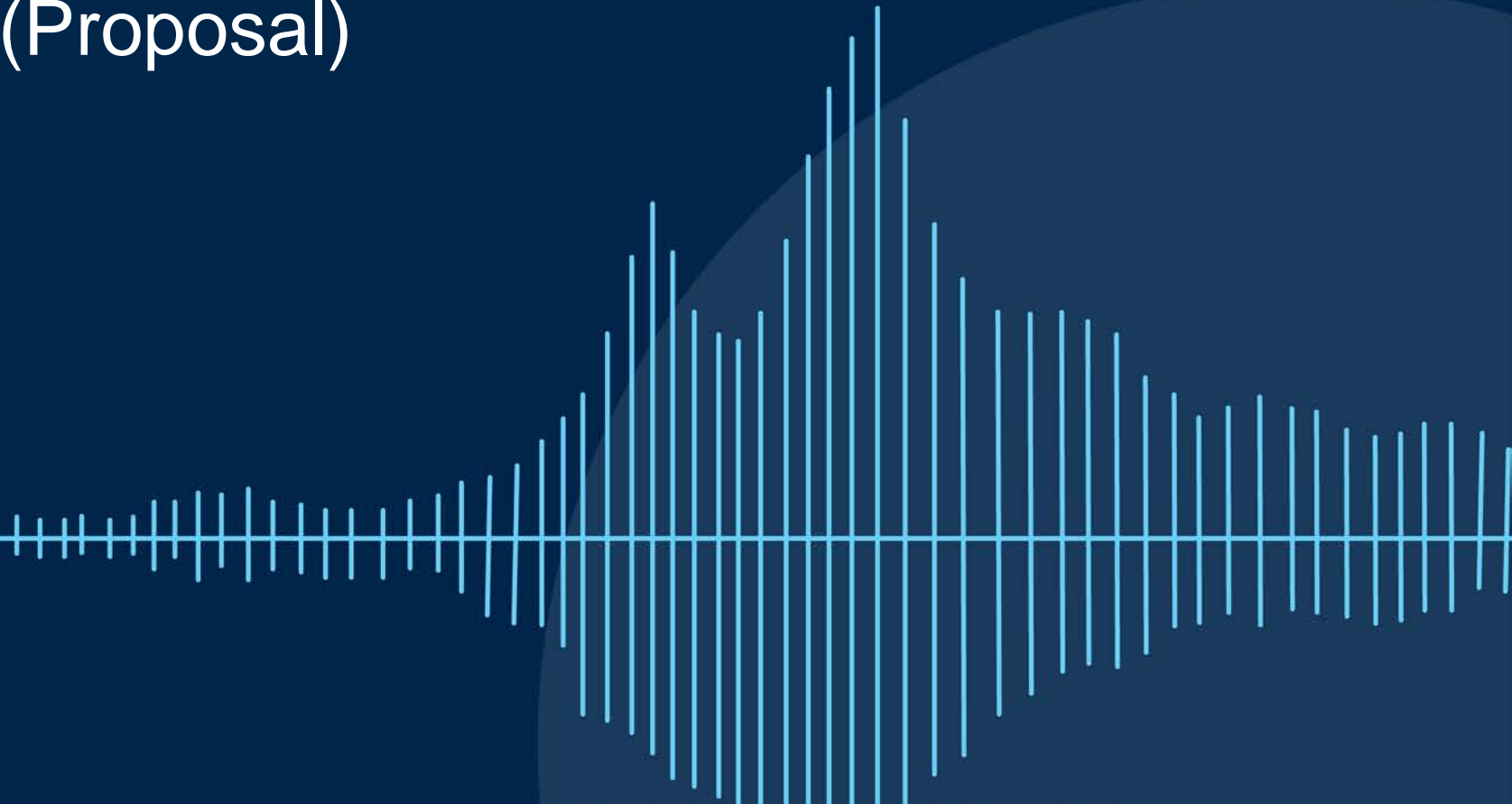


# Insulation Schemes (Proposal)

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## Aims of this session

- summarise Government policy and current regulation
- provide examples of current insulation schemes
- discuss expected outcomes of the Insulation Scheme Review
- explain the approach to project delivery
- provide an update on timelines
- build a solid foundation for the development of this project



# Summary of insulation policy and regulation

## Current policy part of Aviation Policy Framework (2013):

- insulation for schools and hospitals the fall within  $\geq 63$  dB LAeq 16h
- airports to consider financial assistance to households

## Future policy in 'Aviation 2050: The future of aviation'

- insulation threshold to include 60 dB LAeq 16h
- assistance if airport developments cause increases  $\geq 63$  dB LAeq 16h
- if airspace change increases overflight resulting in  $\geq 54$  dB LAeq 16h, then eligible for assistance

Building Regulations 2010: not aviation specific, focus on internal noise, new builds and schools

# Airport policy: UK regional examples

Attributes	▼ Luton	▼ East Midlands
Annual Turnover	<b>£201.3 m (2018)</b>	<b>£66.8 m (2018)</b>
Annual Estimated Expenditure	<b>£100, 000</b>	<b>~£310, 000</b>
Amount per Household	Not specified	Zone A: £3,000 B: £5,000 C: £10,000
Noise Contours	<b>63 – 55 dB L<sub>night</sub></b>	<b>&gt;= 55 dB L<sub>night</sub></b>
Insulation Type	Double or secondary glazing, ventilation	Double or secondary glazing, loft insulation, insulated doors, mechanical acoustic ventilators.
Work	Airport appoints a contractor to survey and install (Fensa accredited).	Airport or owner can appoint contractor once an initial survey is conducted T&Cs apply

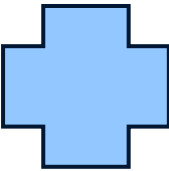
# Airport policy: international examples

Attributes	Frankfurt	Sydney Airport (3rd Runway)
Annual Estimated Expenditure	<b>£102.6 m Grant + Loans</b>	<b>~£197.2 m</b>
Amount per Household	<b>£3,720.42</b>	<b>£22, 190</b>
Noise Contours	Day1 60 dB LAeq; Day2 55 dB LAeq Night 50 dB LAeq	Residential (65 L <sub>DN</sub> ); Public buildings (60 L <sub>DN</sub> )
Insulation Type	Windows, doors, roller shutter boxes, roofs and ceilings, ventilation	Replacement doors, External walls (vents & openings), Double glazing, Roof insulation and loaded vinyl. All external areas.
Eligible Property	Residential pre 13.10.2011; Schools, day-care centres.	Residential & Public buildings
QA of work	Not specified	Noise measurements conducted before and after work in 20% of houses. Work inspected mid way and end of project.

# Aim of the project

*‘Review the performance and consistency of the airports’ approach to noise insulation schemes, provide guidance on best practice’* ICCAN Corporate Strategy 2019

Review of current insulation schemes



Guidance on best practice for future schemes

## Expected outcomes

EO1: Identify strengths and weaknesses of current insulation schemes

EO2: Recommend standardised UK-wide noise contours for eligibility

EO3: Recommend assessors and installers are certified

EO4: Recommend products meet appropriate standards

EO5: Evidence based approach to effective installations

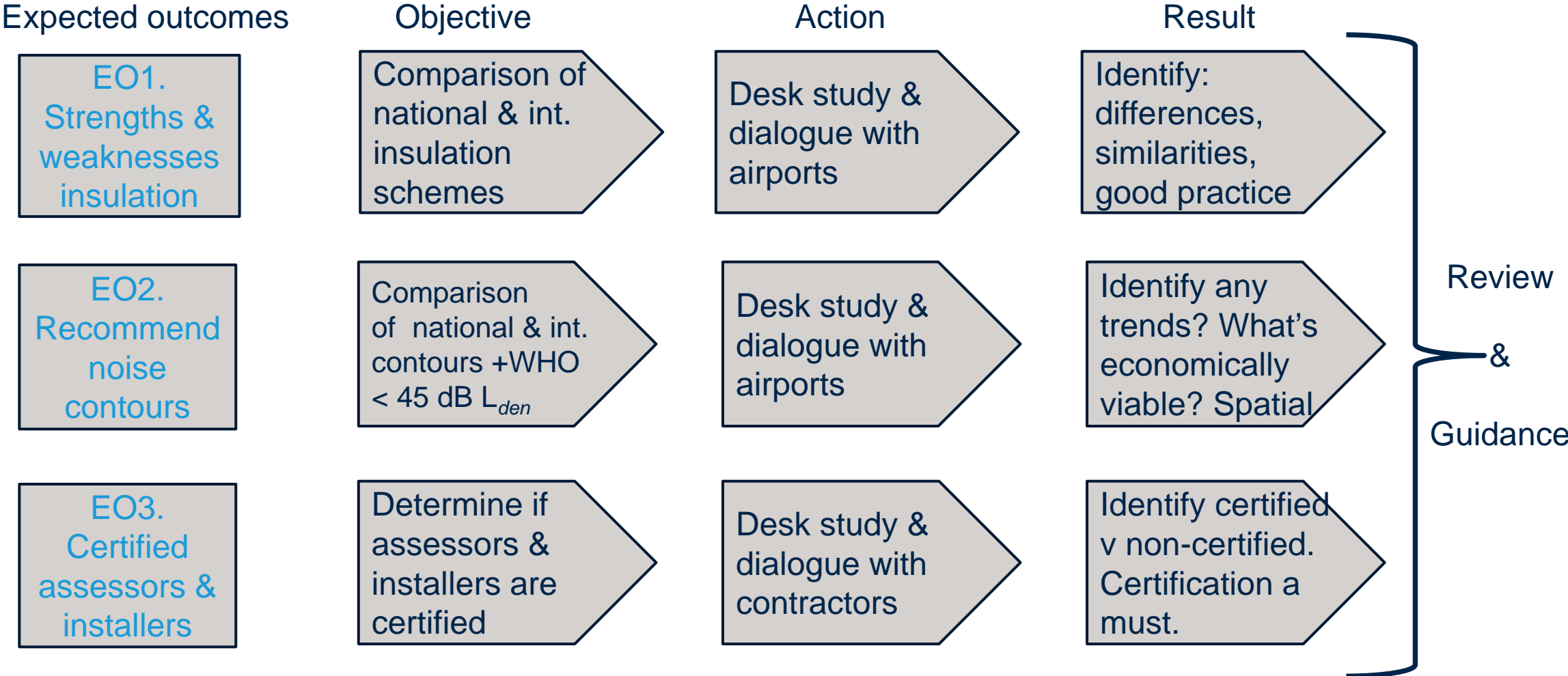
EO6: Guidance on funding

Q1. Do you agree with the expected outcomes? Anything missing?

Q2. Are we recommending noise contours at a specific dBA?

Q3. Would best practice be in partnership with another body? Soft or hard approach?

# How will I meet these outcomes?





# How will I meet these outcomes?

## Expected outcomes

## Objective

## Action

## Result

EO4.  
Product standards

Identify all standards for acoustic products

Desk study & dialogue with experts

Determine if standards are appropriate.

EO5.  
Determine effective installations

Customer satisfaction data. Post installation data

Desk study & dialogue with airports & contractors

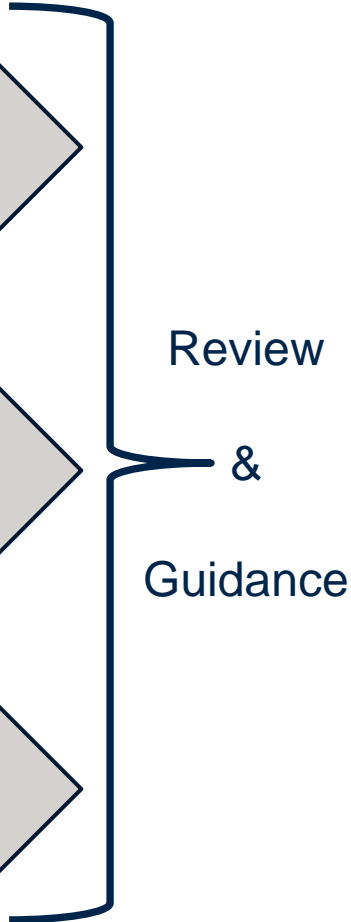
Rank airports. Why are some better? Post installation data

EO6.  
Funding

Comparison of national & int. funding programmes

Desk study, dialogue with airports and experts, ICAO

Identify effective approaches (cost based)





## Additional recommendations

### Transparency and accountability

- airports should publish method/rationale for setting specific contours
- effective dialogue between airports and communities, focused on insulation

### Real estate disclosure

- identify property that exists within noise contours
- disclose whether property has acoustic insulation installed

Q1. Do you agree that we should look at these additional recommendations?

Q2. Should dialogue include awareness/advertising of the scheme?

## Knowledge gaps

- current rationale behind insulation policy
- noise survey methods (pre/post installation)
- do insulation schemes deliver appropriate noise reduction?
- are insulation schemes effective? (Customer satisfaction)

## Risk

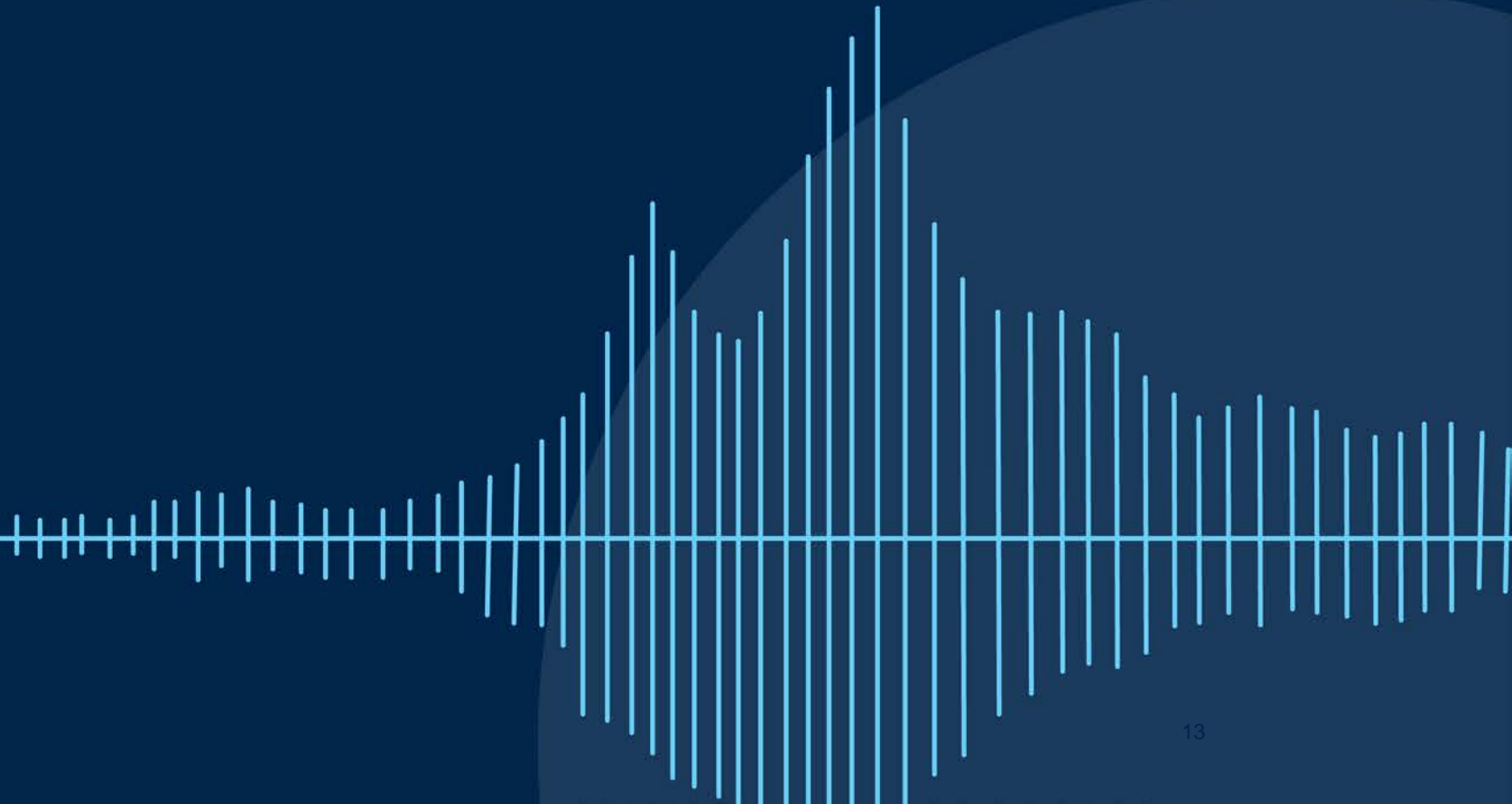
- lack of cooperation from airports: reluctant to provide data etc.
- lack of enforcement
- resistance due to increased cost

# Timeline

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Scoping	█								
Contact Airports	█	█	█						
Contact Contractors		█	█						
Contact Experts		█	█						
Desk Study/Analysis		█	█	█	█				
Write-up: 1st Draft						█			
Internal QA							█		
External QA							█		
Corrections							█	█	█
Publish									█

Thanks for listening

Any questions?



# East Midlands Noise Contours

MAP SHOWING SCHEME AREA



