R4 Strategic Noise Mapping and Noise Action Plans Agglomerations

# Climate Action, Environment & Energy Strategic Policy Committee February 2023

Owen McManus Technical Support Division - Dublin City Council

Martin Fitzpatrick Air Quality Monitoring and Noise Control Unit – Dublin City Council



# Agenda

- Round 4 Strategic Noise Mapping and Noise Action Plan Overview
- National Approach to Round 4
- Milestones and Progress to Date
- Strategic Noise Modelling Results Dublin
- Next Steps
- Questions / Discussion



#### Round 4 Strategic Noise Mapping and Noise Action Plan Overview

#### European Communities (Environmental Noise) Regulations 2018 (S.I. 549/2018)

- The Regulations give effect to the Environmental Noise Directive (END) 2002/49/EC
- Apply to environmental noise, created by human activities, which people are exposed to; in built-up areas, in public parks/quiet areas, near schools & hospitals and other noise-sensitive buildings/areas.
- Provide for the implementation in Ireland of a common approach for Europe to avoid, prevent and reduce the harmful effects due to exposure to environmental noise.
- The Regulations/END requires the following two indicators to be applied in the assessment and management of environmental noise;
  - Lden is the annual average noise level for the day, evening and night period and is designed to measure 'annoyance'. It has a defined threshold of 55dB.
  - Lnight is the annual average noise level for night-time periods and is designed to assess sleep disturbance. It has a defined threshold of 50dB.
- Member States must report on the numbers of people who are exposed to noise levels above these thresholds for a range of noise sources.



### Round 4 Strategic Noise Mapping and Noise Action Plan Overview

#### European Communities (Environmental Noise) Regulations 2018 (S.I. 549/2018)

- The Regulations make the Environmental Protection Agency (EPA) the national competent authority for the purpose of overseeing implementation and for providing guidance.
- The Regulations require Noise Mapping Bodies (NMBs) to prepare or review Strategic Noise
   Maps every 5 years for each of the following areas;
  - Agglomerations (>100,000 persons) (road, rail, airports & industry)
  - Major roads (>3,000,000 vehicle passages per year)
  - Major rail (>30,000 train passages per year)
  - Major airport (>50,000 movements per year)
- The Regulations require Action Planning Authorities (APAs) to make or review **Noise Action Plans** every 5 years for each of the areas covered by the Strategic Noise Maps.
- Statutory Deadlines for reporting to the EU;
  - Maps End 2022
  - Noise Action Plans End 2024



### National Approach to Round 4

- Rounds 1 to 3 approach involved each NMB / APA completing their own maps and Action Plan
- Round 4 new National approach was adopted as follows;
  - Agglomerations of Dublin, Cork and Limerick appoint single consultant to complete the noise modelling and mapping.
  - Major Roads and Rail outside agglomerations Transport Infrastructure Ireland (TII) would complete the noise modelling and mapping.
  - Major Airports Relevant airport authority, Dublin Airport Authority (DAA), complete the noise modelling and mapping.
- Dublin City Council's Technical Support Division (TSD) undertook the role of project managing the delivery of the new National approach for the agglomerations which included;
  - Co-ordination of inputs from 10 Local Authorities, TII, Irish Rail, Road Management Office (RMO), National Transport Authority (NTA), DAA and reporting to EPA.
  - Co-ordinate major data collection exercise
  - Procure and appoint a consultant to complete the work in line with statutory deadlines
  - Ongoing management and administration of the project;
    - Phase 1 Noise Modelling & Mapping (June 2022 May 2023)
    - Phase 2 Noise Action Plans (June 2023 September 2024)

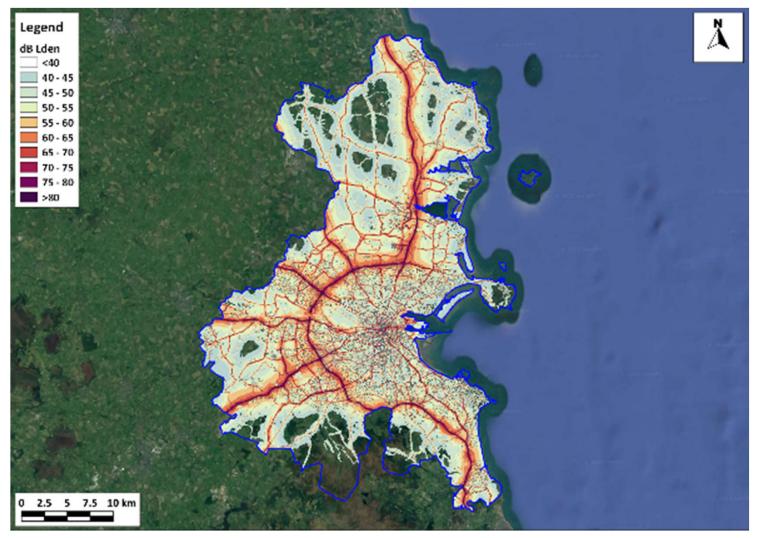


# Milestones and Progress to Date

Progress Task	Timelines
Completed data register and major data collection exercise	June 2021 - March 2022
Completed tender documents and published contract notice for Consultant	18 <sup>th</sup> February 2022
Appointed project consultant and commenced project - Phase 1 – Noise Mapping	26 <sup>th</sup> May 2022
Weekly co-ordination meetings with TII on modelling of major roads at agglomeration boundaries including modelling of pilot area on M11	August – September 2022
Commenced noise modelling <ul> <li>Limerick</li> <li>Cork &amp; Dublin</li> </ul>	27 <sup>th</sup> October 2022 28 <sup>th</sup> October 2022
<ul> <li>Provided draft model outputs results to Local Authorities</li> <li>Cork &amp; Limerick - All sources &amp; Exposure Statistics, Dublin – Road only</li> <li>Dublin - Industry</li> <li>Dublin – Rail</li> <li>Dublin Exposure Statistics (all sources)</li> </ul>	25 <sup>th</sup> November 2022 29 <sup>th</sup> November 2022 2 <sup>nd</sup> December 2022 7 <sup>th</sup> December 2022
Prepare model results in line with EPA/EEA reporting requirements and deliver to EPA	9 – 16 <sup>th</sup> December 2022
<u>Note</u> : Issues with uploading reports to EEA ReportNet site have been encountered but this is due to issues with the reporting site and is being dealt with by the EPA.	

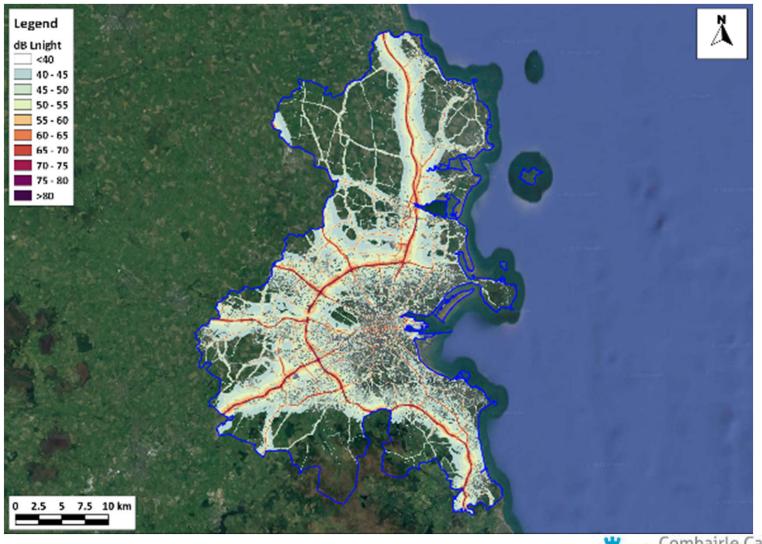


#### Dublin Strategic Noise Modelling Results – Roads Lden





### Dublin Strategic Noise Modelling Results – Roads Lnight





### Dublin Strategic Noise Modelling Results – Rail Lden



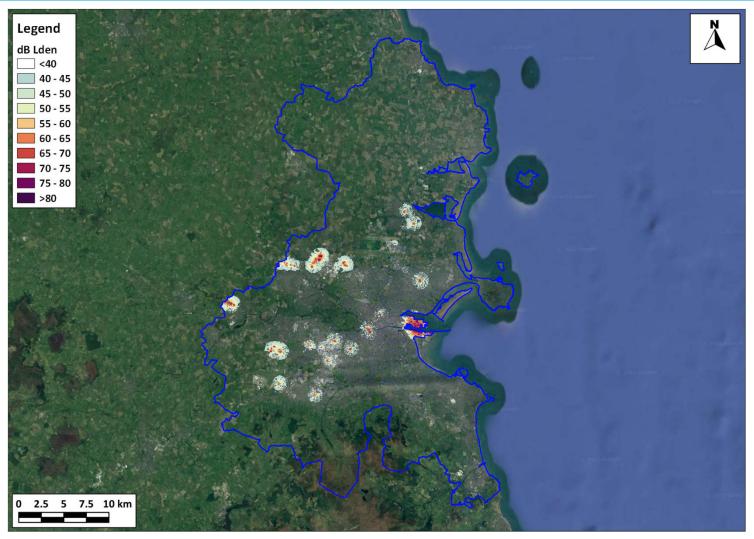


### Dublin Strategic Noise Modelling Results – Rail Lnight





### Dublin Strategic Noise Modelling Results – Industry Lden





### Dublin Strategic Noise Modelling Results – Industry Lnight





### Next Steps

#### Complete Project Reports & Deliverables (Phase 1 – Strategic Noise Maps)

Phase 1 Deliverable	Programme Delivery Date
Finalise Graphical Strategic Noise Maps (Limerick, Cork & Dublin)	January /February 2023
Data Review, Evaluation and Model Set-up Reports (Limerick, Cork & Dublin)	January to April 2023
Nosie Model Files (Limerick, Cork & Dublin)	January 2023
Noise Modelling and Exposure Assessment Report (Limerick, Cork & Dublin)	April to May 20223
Maps Available to the Public (Limerick, Cork & Dublin)	February 2023



### Next Steps

#### **Commence Phase 2 – Noise Action Plans** (Programme to be reviewed)

Phase 2 Deliverable	Indicative Timeline
Commence Phase 2	June 2023
Draft Noise Action Plans	Q4 2023
SEA / AA	Q4 2023 – Q1 2024
Public Consultation	Q1 2024
Final Noise Action Plans	Q2 2024
Deliver Final Noise Action Plans to EPA	Q3 2024
EEA Deadline	End 2024



#### Thank You

**Questions / Discussion?** 

