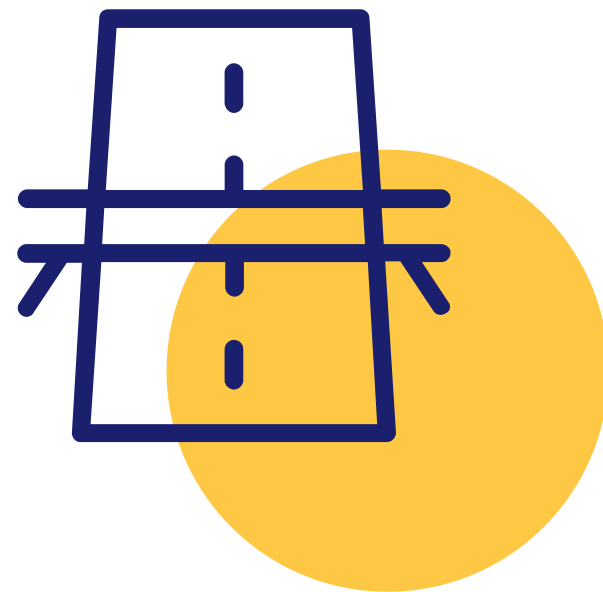


**Transport Infrastructure Ireland**

# **Air Quality – Standard Document and Overarching Technical Document**



**16 – 18 June 2025**

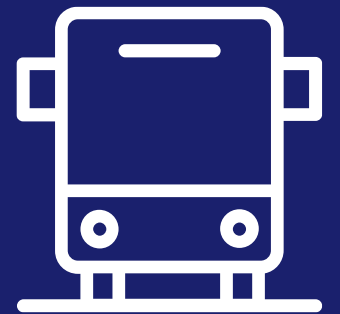
# Agenda

## Air Quality – Overarching Technical Document and Standard Document

1. Overview of Air Quality Overarching Technical Document and Standard
2. Planned updates to Air Quality Publications



# Overview of Air Quality Overarching Technical Document and Standard Document



# Overview of Air Quality Overarching Technical Document and Standard Document

- TII Project Manager: Vincent O'Malley
- Project Partner: AECOM
- Published: December 2022
- TII Publications: Planning and Evaluation (PE) Environment (ENV)
- Air Quality Assessment of Specified Infrastructure Projects – Overarching Technical Document (PE-ENV-01106)
- Air Quality Assessment of Proposed National Roads – Standard (PE-ENV-01107)
- Utilised on a range of projects since publication



# Overview of Air Quality Overarching Technical Document and Standard Document

## Air Quality Assessment of Specified Infrastructure Projects – Overarching Technical Document

- Provides guidance on the methodology, scope and processes underlying the air quality assessment (AQA) for Specified Infrastructure Projects.
- Specified Infrastructure Projects: National road schemes, Toll schemes, Motorway services, Light Rail and Metro schemes, Rural cycleways (offline & greenways)
- Ensure consistent and appropriate description, and evaluation of the baseline environment relevant to Specified Infrastructure Projects.
- Provide guidance on the methodology for AQA for the planning, design and assessment phases of delivering Specified Infrastructure Projects.
- Promote a context-sensitive approach to the design of appropriate mitigation measures for likely significant air quality effects of Specified Infrastructure Projects



# Overview of Air Quality Overarching Technical Document and Standard Document

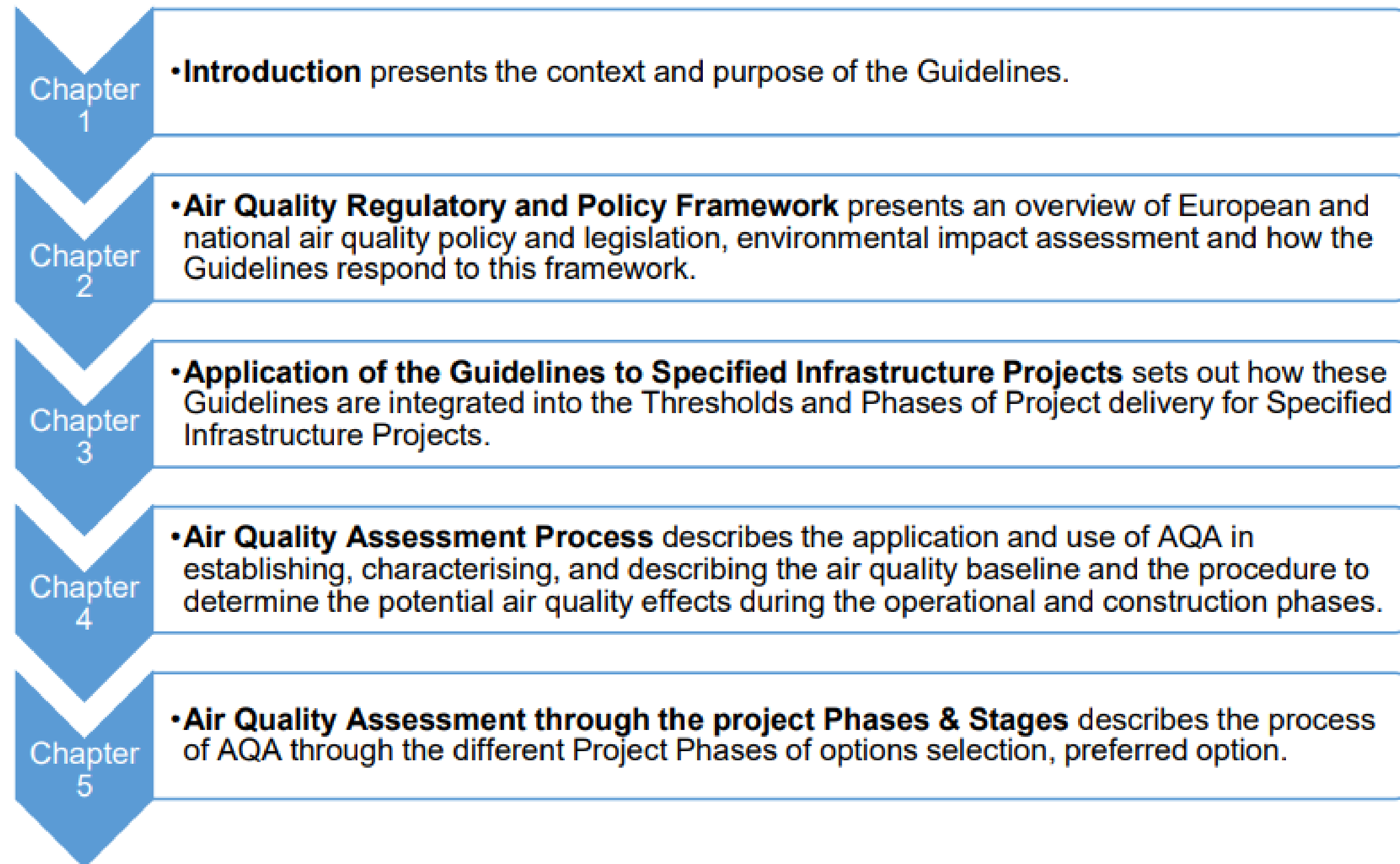


Figure 1.1 Organisation of Guidelines

# Overview of Air Quality Overarching Technical Document and Standard Document

## Air Quality Assessment of Proposed National Roads - Standard

- Air Quality Assessment (AQA) during the planning of proposed national road schemes, motorway service areas, toll schemes, and any associated infrastructure.
- Apply AQA in a manner that is proportionate to the complexity, scale, and likely significance of air quality effects of a national road scheme, motorway service areas, toll scheme, and any associated infrastructure.
- Provide consistency to the consideration of AQA during the planning of a national road projects as set out in TII's Project Management Guidelines (PMG), Project Manager's Manual for Major National Roads (PMM) and Project Appraisal Guidelines (PAG).
- Have an air quality professional with competence and relevant experience, as outlined in Section 1.8 of Standard Document to undertake the assessment



# Overview of Air Quality Overarching Technical Document and Standard Document



**Figure 1.1** Interactions with other environmental factors



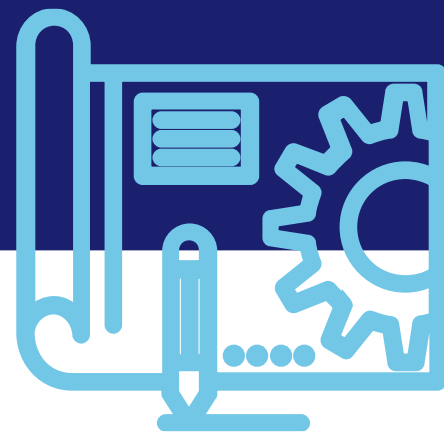
# Overview of Air Quality Overarching Technical Document and Standard Document

## Related Documents and Tools

- Climate Guidance for National Roads, Light Rail, and Rural CYCLEWAYS (Offline & Greenways) – Overarching Technical Document (PE-ENV-01104)
- Climate Assessment of Proposed National Roads – Standard (PE-ENV-01105)
- TII have developed the TII Road Emissions Model (REM) and the TII Carbon Tool, for use in the assessment of air quality and climate effects for Specified Infrastructure Projects
- These are described in the Overarching Technical Document and Standard Document for air quality and climate
- TII should be contacted by the project team to request access to these tools.



# Planned Updates to Air Quality Publications



# Planned Updates to Air Quality Publications

## Revised Ambient Air Quality Directive

- A significant update to the EU's air quality framework, strengthening the previous Ambient Air Quality Directives
- Aligns EU air quality standards more closely with World Health Organisation (WHO) guidelines
- Introduces stricter limit values for particulate matter (PM) and nitrogen dioxide (NO<sub>2</sub>)
- Annual NO<sub>2</sub> limit value reduced from 40 µg/m<sup>3</sup> to 20 µg/m<sup>3</sup> by 2030, with the daily limit value introduced at 50 µg/m<sup>3</sup> (not to be exceeded more than 18 times per calendar year). Reduction in number of hourly exceedances (from 18 times to 3 times per calendar year)
- Access to justice and right to compensation
- Implications



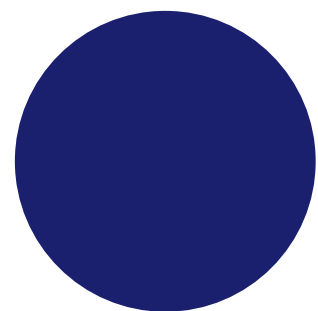
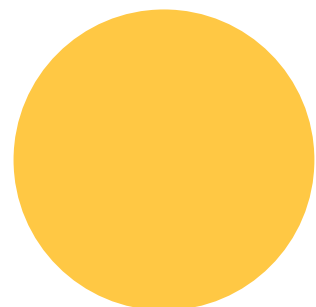
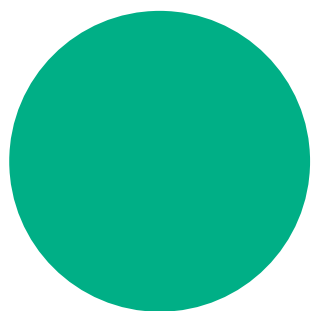
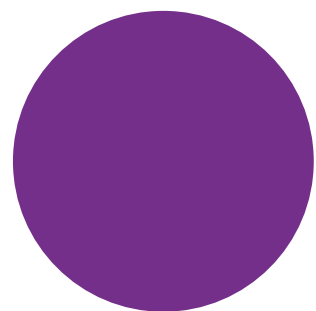
# Planned Updates to Air Quality Publications

## Additional planned updates

- Alignment with Infrastructure Guidelines and Transport Appraisal Framework, as necessary
- Alignment with Population and Human Health Standard Document (PE-ENV-001108)
- Approach to monitoring on nationally significant schemes
- Updated referencing throughout (legislation, TII Publications, Best practice Guidance e.g. IAQM)
- Address minor issues identified
- **Updates to be published in late 2025.**

# Thank you

## Questions?



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