

# Environmental Update

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# General Approach

Acquire  
baseline  
information

Acquire  
scheme and  
traffic data

Carry out  
environmental  
appraisal

- **Study currently at feasibility study stage**
- **Uncertainty owing to the level of development of interventions**
- **As the study progresses level of detail and certainty of effect increases**

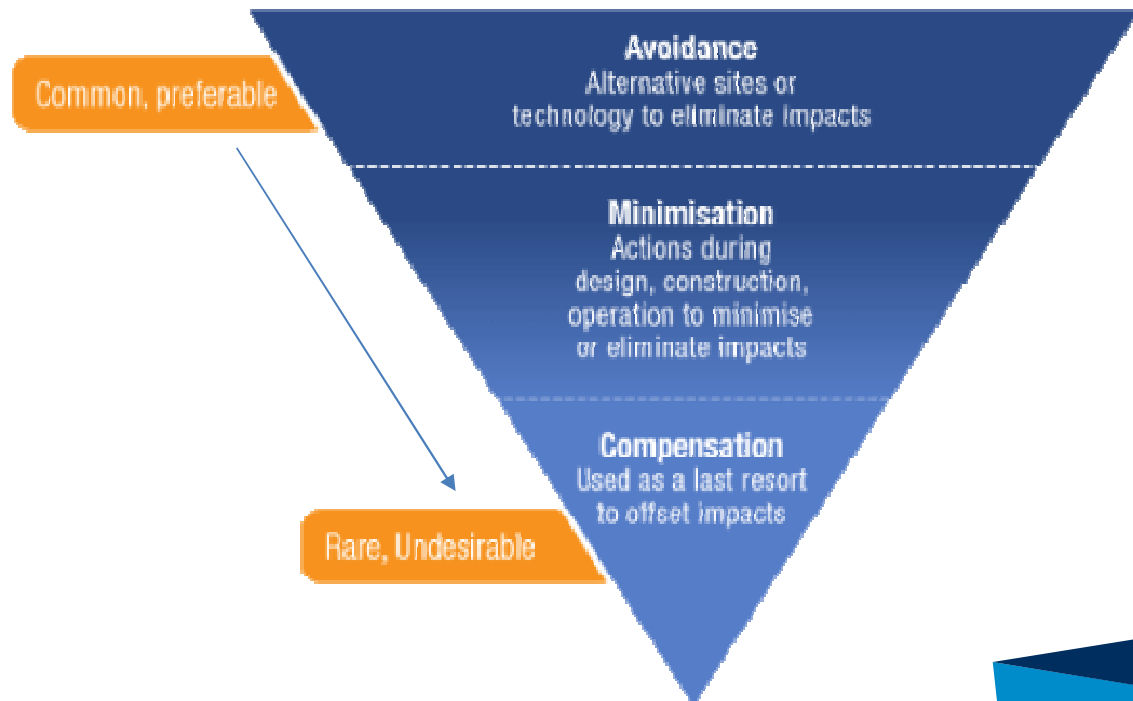
# How we will assess the Impacts?

- Assessment in accordance with WebTAG
- DfT guidance on Environmental Impact Appraisal
- Understand the value of the receptor
- Assess the magnitude of the impact
- Combine to derive significance score

# Key Environmental Issues

Key environmental topics identified in the early stages of the study:

- Air
- Noise
- Carbon
- Cultural Heritage
- Landscape
- Water
- Biodiversity



# Environmental Issues – Air

## Potential Issues

- Exceedance of Standards
- Impact on Air Quality Management Areas
- Impact on ecological sites



## Planned approach for tackling these issues

- Identify constraints / sensitive habitats
- Assess if impacts likely to be significant in future
- Identify mitigation measures e.g. moving traffic away from receptors

# Environmental Issues – Noise

## Potential Issues

- Noise impacts at properties
- Noise impacts at other sensitive sites
- Ability to mitigate

## Planned approach for tackling these issues

- Identify sensitive receptors
- Assess if impacts likely to be significant
- Assess feasibility of providing mitigation  
e.g. noise barriers, moving scheme away  
from receptors



# Environmental Issues – Carbon

## Potential Issues

- Increases in carbon emissions



## Planned approach for tackling these issues

- Obtain traffic and scheme details
- Calculate carbon cost

# Environmental Issues – Heritage

## Potential Issues

- Impact on known sites
- Impact on unknown sites
- Impact on setting



## Planned approach for tackling these issues

- Identify sites or potential for sites
- Assess scheme impacts and effect on setting
- Assess significance



# Environmental Issues – Landscape

## Potential Issues

- Impact on landscape
- Impact on receptors e.g. properties, rights of way



## Planned approach for tackling these issues

- Obtain landscape constraints information
- Assess impacts of schemes including due to traffic changes
- Identify opportunities

# Environmental Issues – Water

## Potential Issues

- Flood risk
- Direct impacts on water features
- Impact on hydrology and linked features e.g. habitats



## Planned approach for tackling these issues

- Identify areas at risk
- Avoid features through realignment
- Consider opportunities for mitigation e.g. sustainable drainage systems

# Environmental Issues – Biodiversity

## Potential Issues

- Impact on designated sites
- Impacts on species

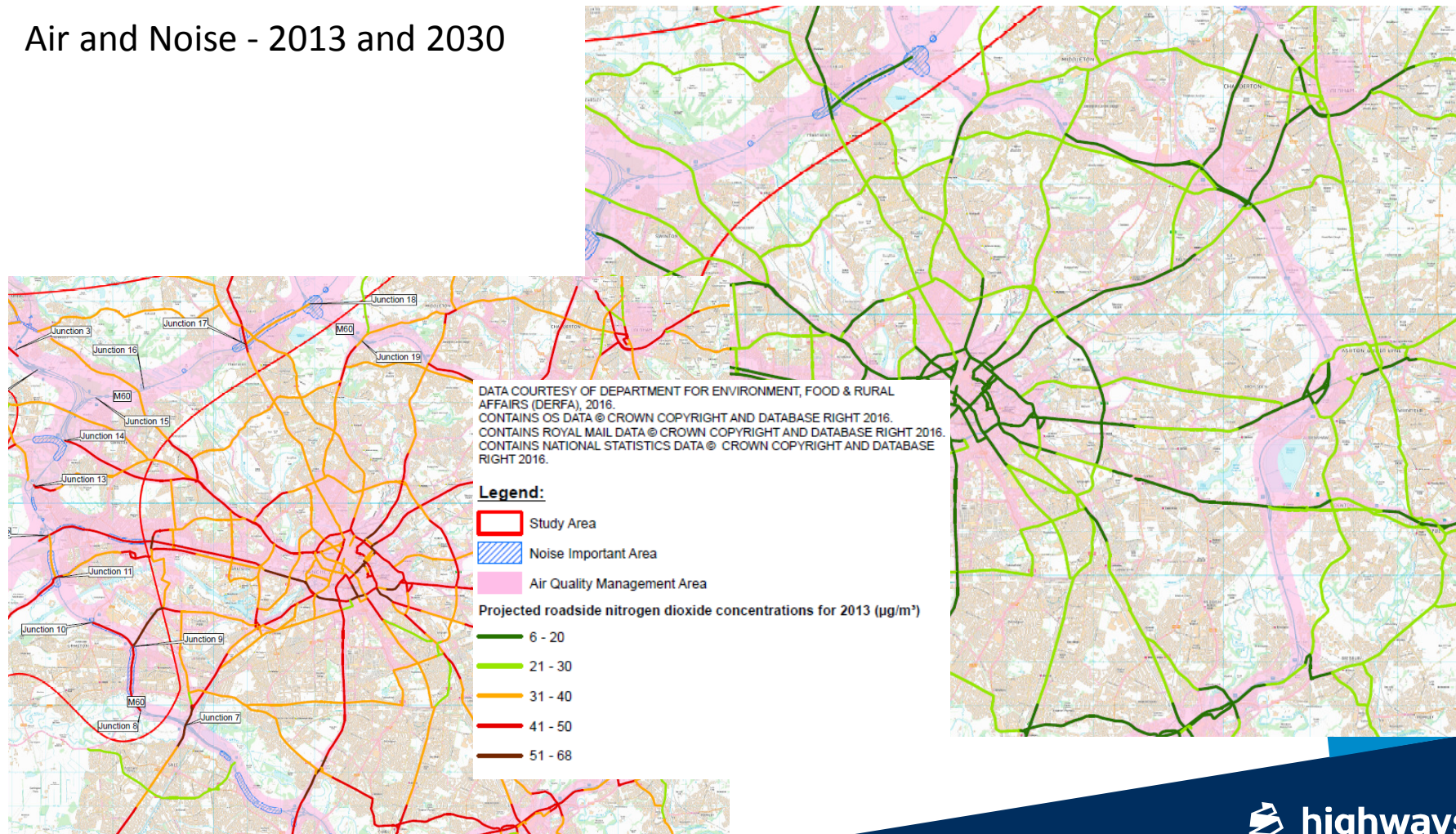
## Planned approach for tackling these issues

- Identify sites and potential for protected species
- Assess if impacts likely to be significant
- Identify mitigation opportunities e.g. route realignment, replacing lost habitats



# Environment Baseline (and Future Baseline)

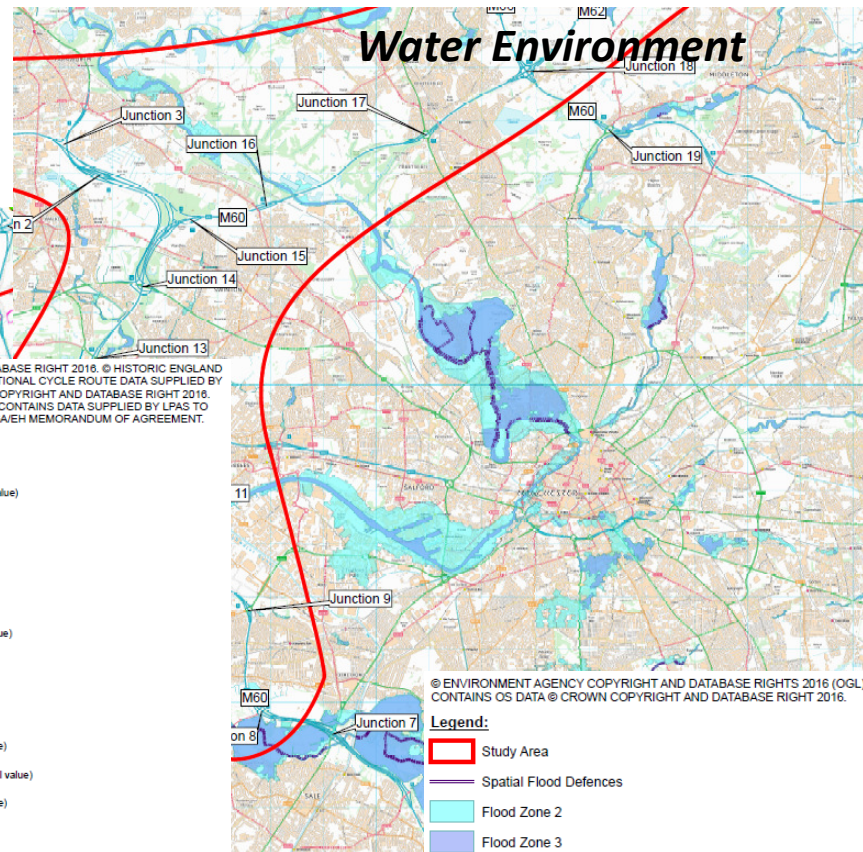
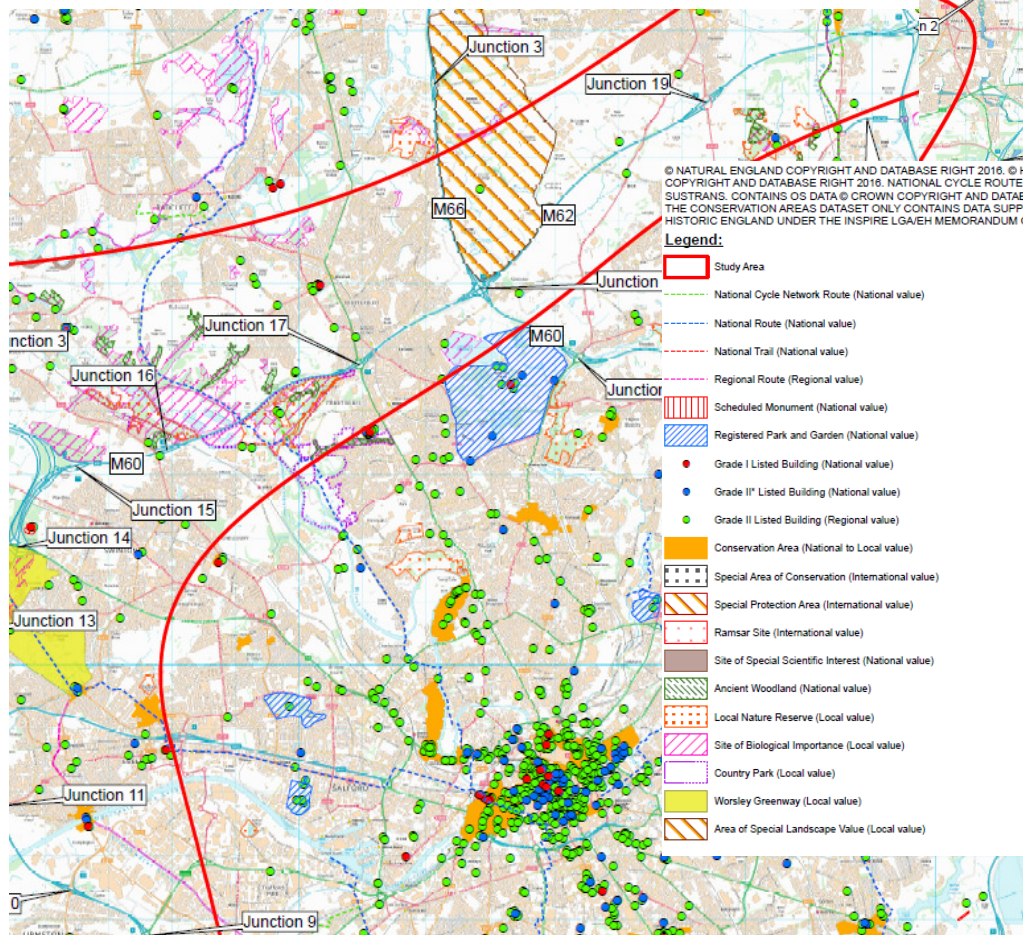
Air and Noise - 2013 and 2030





# Environmental Baseline

*Access, Biodiversity, Historic  
Environment and Landscape/Townscape*



# Environmental Assessment – Future Stages

- Increasing level of environmental assessment as scheme and traffic details refined.
- Increased consideration of effects on other environmental topics e.g. materials, community facilities
- Any schemes may be likely to require Development Consent Order and will follow statutory processes

# Questions