



Department
for Transport

Modelling Guidance Review

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OFFICIAL

Our current work

TASM is undertaking a review of the TAG modelling units, aiming to:

- Review modelling guidance and address shortcomings in existing guidance
- Identify areas for updates and improvements to ensure best practice in modelling methods
- Deliver clear and up-to-date guidance on transport modelling

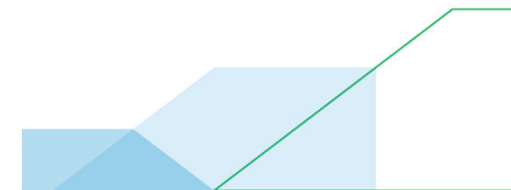
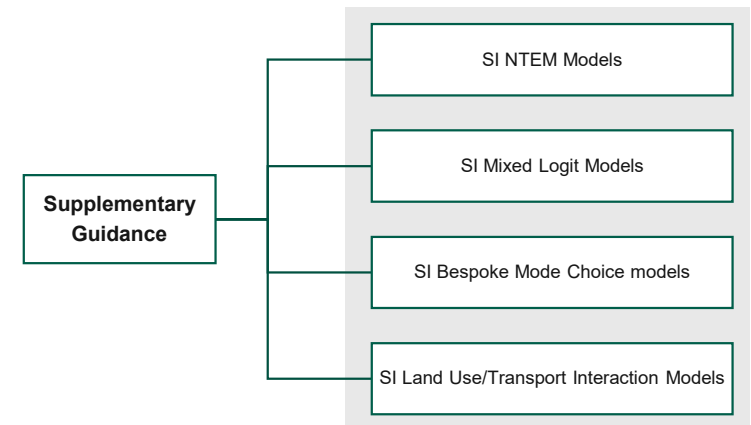
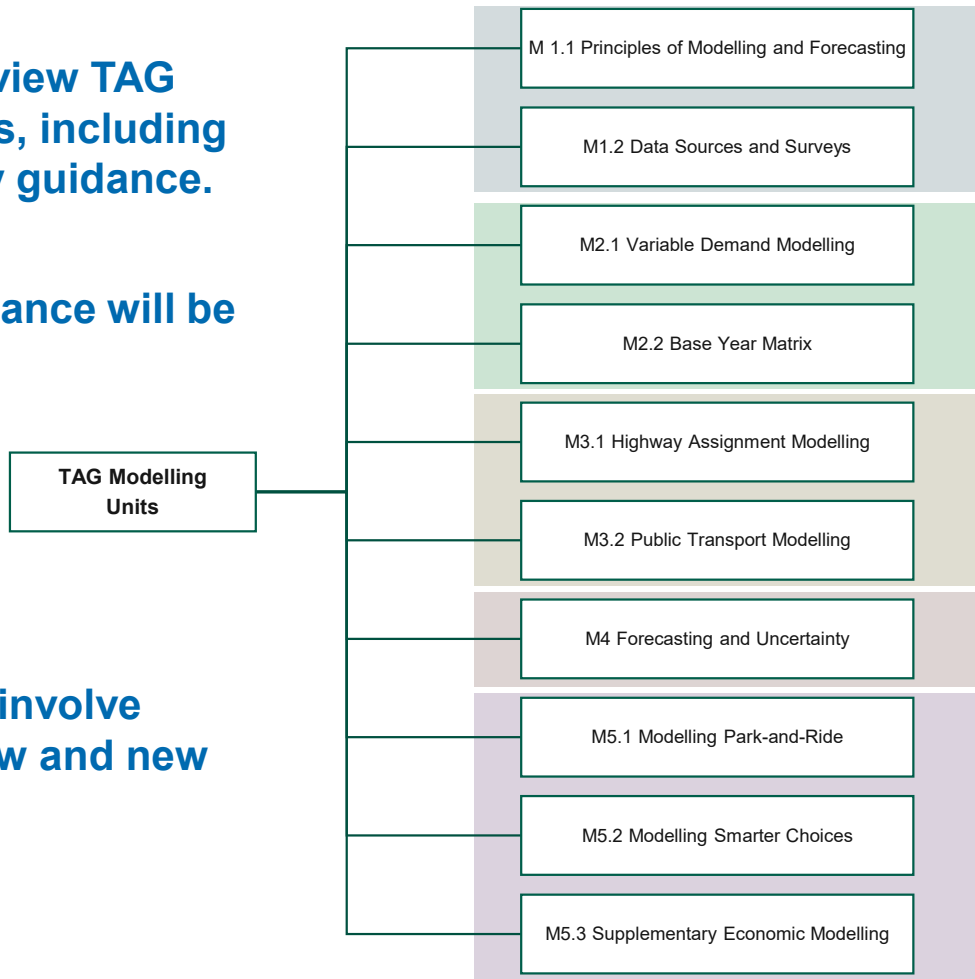
Arup, AECOM and Systra, supported by ITS Leeds and UCL, commenced the project to support DfT in reviewing and updating modelling guidance in TAG

Scope of this project

Primarily to review TAG modelling units, including supplementary guidance.

Update of guidance will be prioritised.

The work may involve literature review and new research



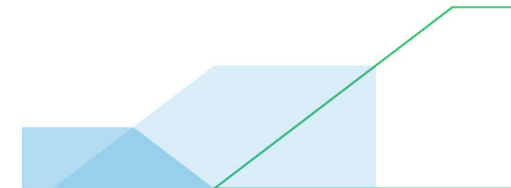
Project

Phase 1 (Complete)

Aim: review all modelling units, identify key themes, prioritise updates



Output: proposals to update guidance based on prioritised themes



Project

Phase 2 (In Progress)

Aim: update modelling guidance based on prioritised themes

Data

Public transport
modelling

Variable demand
modelling

Activity and
agent based
modelling

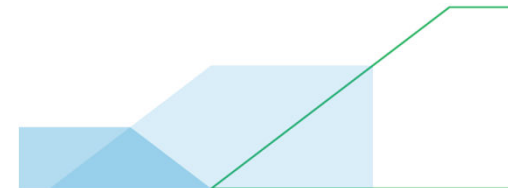
Active modes

New mobility

Microsimulation

Output: updated TAG modelling units related to the selected themes

Timeline: inception September 2022 and completion August 2023



Project – Phase 2

Data

Aim:

- Restructure the unit
- Update advice on data use
- Include advice on new data sources
- Add examples and/or case studies

Public transport modelling

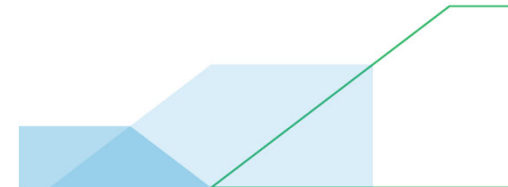
Aim:

- Improve PT guidance to the level of highway modelling guidance
- Restructure the unit
- Add worked examples and/or case studies
- Improve guidance on calibration/validation of PT models

Variable demand modelling

Aim:

- Clarify existing guidance (e.g. when to use VDM)
- Refresh the realism test elasticities and illustrative parameters



Project – Phase 2

Activity and agent based modelling

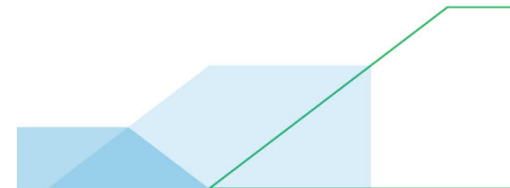
Aim:

- Provide an introduction and outline the relevancy and application of these methods in transport planning
- Describe the principles and value of this type of modelling approach

Microsimulation

Aim:

- Explain suitability of microsimulation models in appraisal
- Provide examples of the use of microsimulation modelling in scheme appraisal
- Provide links to existing guidance



Project – Phase 2

Active modes

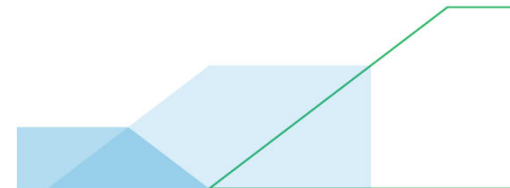
Aim:

- Consolidate current advice (currently fragmented across different TAG units) into coherent guidance
- Improve guidance on how to include active modes within transport modelling

New mobility

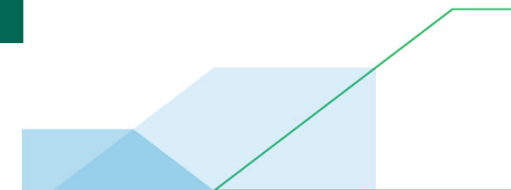
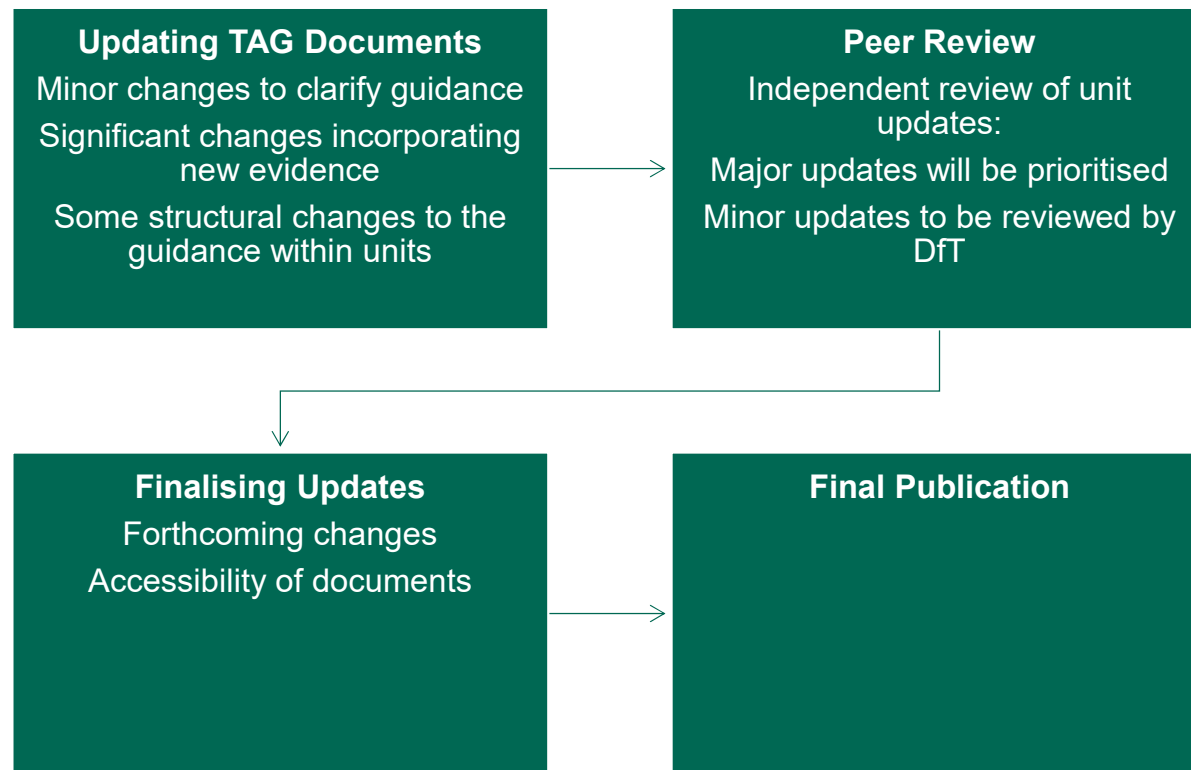
Aim:

- Provide guidance on how to represent new forms of mobility in transport modelling
- Establishing a set of principles and guidelines on how the behavioural aspects can be captured



What's Next?

An outline of the process:



Further Information

Engagement with TAG users

- TAG users mailing list is usually used to send an invite – watch out for upcoming events



Please email
TASM@dft.gov.uk

- If you'd like to be contacted for any future events, please ask to be registered on our mailing list
- If you'd like to ask us any questions related to our guidance at any point in your work

Any Comments or Questions?

