

DfT TTWD User Support - Recent Software Developments

SATUGM16

Wednesday 2nd November 2016

Update on TUBA (i)

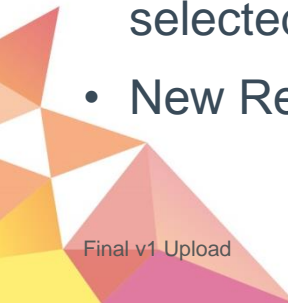
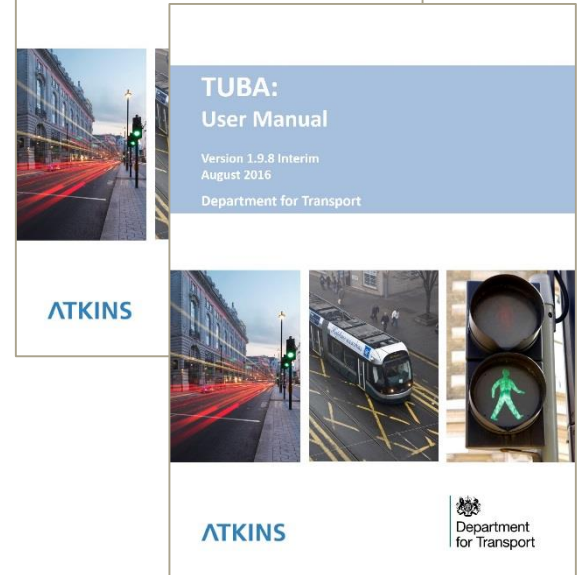
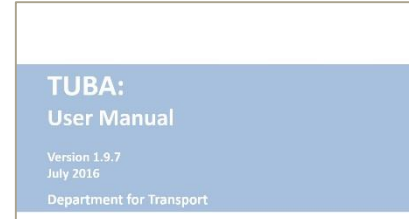
Releases in August 2016

TUBA v1.9.7

- Small set of updates for WebTAG DataBook v1.5 (July 2016)

TUBA v1.9.8 Interim

- WebTAG DataBook v1.6 FC for November 2016
- Enables Value of Time to vary by Distance for selected purpose(s)
- New Reference 'R' distance matrix to be defined



Update on TUBA (ii)

Value of Time by Distance

- Three Methods:

1 – Continuous Function



$$VTTS_{2010}^D = \frac{U}{\left(1 + e^{\frac{x_{mid}-D}{k}}\right)}$$

where:

$VTTS_{2010}^D$ value of time (2010 perceived costs, pence/hr)
 D distance (km)
 U upper limit (asymptote) of function
 x_{mid} distance at the inflexion point of curve (where $VTTS = U/2$)
 k scale parameter (which is inversely proportional to the steepness of the curve)

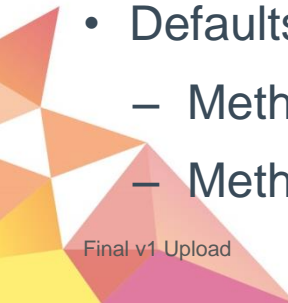
2 – Four Distance bands



- ◆ Distance Band 1: 0-50km
- ◆ Distance Band 2: 50-100km
- ◆ Distance Band 3: 100-200km
- ◆ Distance Band 4: 200+ km

3 – Average Distance (as per previous TUBAs)

- Defaults defined the Economics Parameter File
 - Method 1 for Car & Rail Business only
 - Method 3 for all other Vehicle Types & Purposes



Update on TEMPRO

Release v7.0 (July 2016)

- Provides access to the new NTEM v7.0 Dataset
- Update of existing TEMPRO v6.2
- New NTEM Dataset
 - Based on 2011 census using 7700 MSOA zones
 - Uses new Trip Rates & updated Planning Data
 - Differences between old v6.2 and new v7.0 forecasts
 - See NTEM Planning Data Guidance Note
 - <https://www.gov.uk/government/publications/tempro-downloads/tempro>



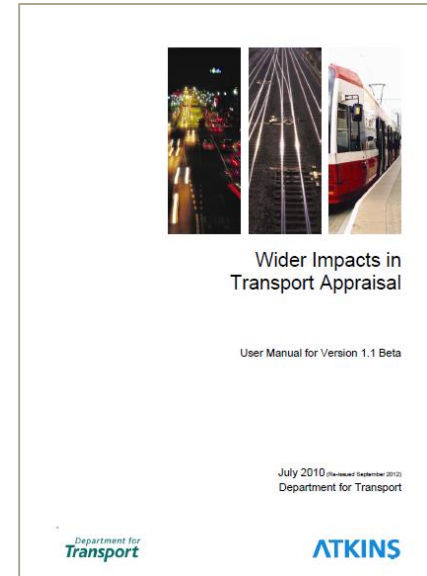
Update on WITA

Latest release: v1.2 Beta (January 2015)

- Beta release
- Free licence but no maintenance or support
- Additional guidance on using TMZ / LA Equivalence List
- Continued requirement for Users to separately verify calculations

Next release: v2.0

- New application to implement current WebTAG advice
- Full release with maintenance and support
- Commercial Licence as per TUBA
- Expected by spring 2017



Update on DIADEM

Current release: v5.0 (February 2011)

- 64-bit version available since April 2013
- New 32/64-bit installers

Updates for Highways England RTM (v6.3)

- Funded by Highways England
- Updates include:
 - Fixes for skimming & MUC>8
 - LogNormal distribution
 - Peak Period to Peak Hour factors
 - OD-based occupancy
 - Sub-Area GAP convergence

