

Below is a “shopping list” of possible TMG tasks for consideration in the 2020-21 work plan. It is in no way definitive and is only intended to stimulate discussion at the Nov. 6 TMGTAC meeting. The ordering in the list is very “stream of thought” and does not imply any sort of priority. Please bring your own ideas and suggestions to the table as well as any comments that you might have concerning the list below.

“Universal” Network Package: With expansion of TMG network modelling support from just Emme to Aimsun (and possibly other software, such as MATSim), the need exists to develop a generic base network (and base network coding standard) that can be directly imported into all supported packages.

Volume-Delay Function (VDF) Evaluation & Calibration: The VDFs used in our road network models have never been properly validated.

Traffic Zone System Update: Working with TISC and DMG, TMG staff will help develop a new traffic zone system for implementation in 2021 in time for the 2021 TTS.

Extension of GTAModel to the full GGH:

- Networks & zone system.
- Model redevelopment to better represent non-GTHA municipalities.

GTAModel 4.2 release: Various on-going, incremental improvements, including an improved parking model and improved passenger mode modelling, coming out of 2019-20 work.

PORPOS: Improved school location choice models (elementary, secondary and, especially, post-secondary).

- New StudentMoveTO data will be available.

Special generators models:

- Airports, hospitals, ...?

Improved freight model:

- Finally implement MTO model within XTMF.
- Improve the currently implemented simplified model.
- Modelling public sector fleets
- ...?

PORPOW: Improved, generalized models of workplace location.

- Bring the GGHM & GTAModel procedures closer together.

Environmental impacts /energy use models implemented within XTMF & GTAModel.

- This is “low-hanging fruit”: we some methods already implemented.

Model convergence testing and guidance

- Road & transit assignments
- Overall model system convergence).

Non-work/school (NWS): Improved destination choice models.

HOV, ridesharing, mobility services:

- Finally take this on in a serious way.

Presto Card Data: Possible uses of Presto Card data in travel demand modelling applications?

- Boarding count data for transit assignment calibration?
- Augmenting TTS data with respect to transit rider data?
- ...?