

# AIR QUALITY CONFORMITY ANALYSIS OF THE FY 21-24 TIP AND THE 2020 AMENDMENT TO VISUALIZE 2045

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## Model/network transmittal package (Ver. 2.3.78 Model)

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TPB Travel Forecasting Subcommittee

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# Process for developing model/network transmittal package

- Re-run all the model runs for each scenario/year
- Summarize the model output
- Documentation
  - Updated network documentation
  - Updated travel model user's guide
  - Updated transmittal memo

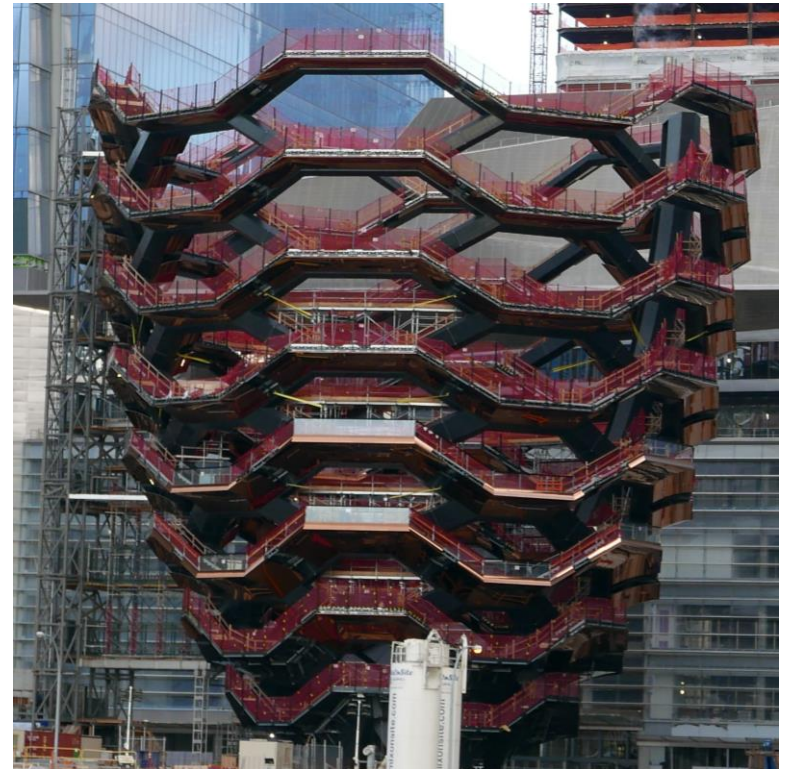


Image credit: Mark Moran



# Contents of model/network transmittal package

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- Model inputs for each scenario year: TAZ-level land use and transportation networks
  - 2017, 2019, 2021, 2025, 2030, 2040, 2045
  - (2017 was not part of air quality conformity analysis)
- Model scripts and batch files (Gen2/Ver. 2.3.78 Model)
- Model documentation (listed on previous slide)
- Model outputs are not included in transmittal package, due to large size (10 GB per scenario => 70 GB)



# Updates to the model: 2.3.75 > 2.3.78

- No change in model results, 2.3.78 versus 2.3.75
- Very minor technical fixes
  - Updated scripts so that model can run under Cube 6.4.4 and 6.4.5 beta, though Cube 6.4.1 is still the recommended Cube version for those who wish to run the automated transit walkshed process (due to instability of ArcGIS Engine Runtime in recent versions of Cube)
  - Fixed an issue of potentially using the highway network (<ITER>\_HWY.NET) in cases where the model stops and is then re-started mid-stream
  - Revised naming convention for sub-nodes used in intra-step distributed processing (IDP) and multi-step distributed processing (MDP) in highway assignment

For more details, see updated model user's guide or Ngo, Ray. "Gen2/Ver. 2.3 Model Updates: Part 1 of 2: Minor Updates Added to Ver. 2.3.75." presented at the COG/TPB Travel Forecasting Subcommittee, held at the Metropolitan Washington Council of Governments, Washington, D.C., July 19, 2019.



# Schedule for model/network transmittal package

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- Expected to be ready in April

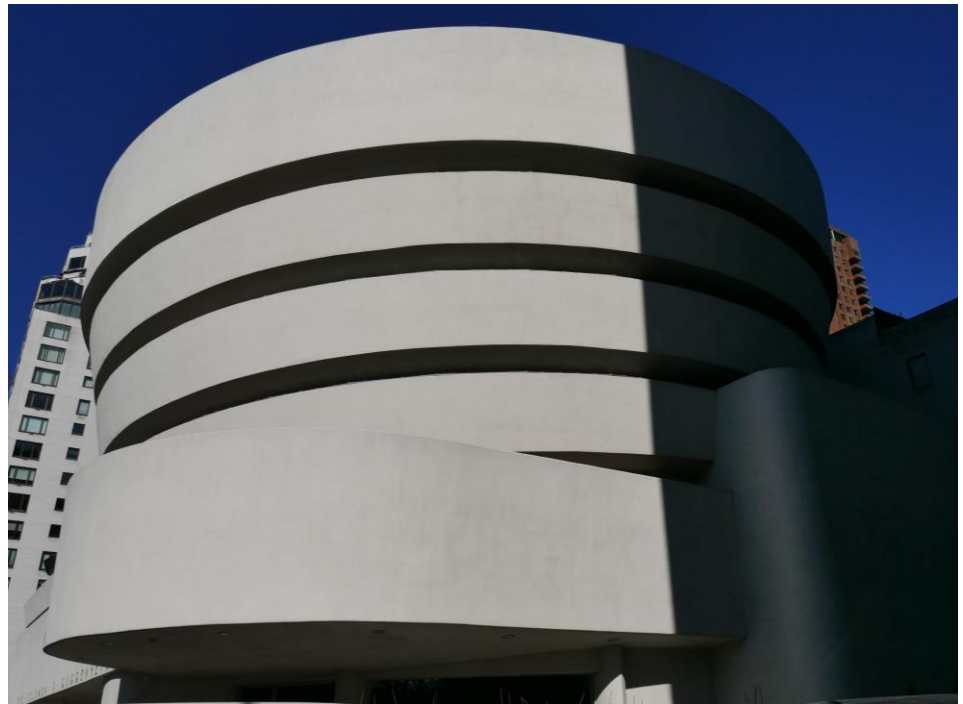


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# Acknowledgements

- Meseret Seifu: Model re-runs, summaries, model transmittal memo
- Ray Ngo: Updated model user's guide
- Network documentation: Meseret Seifu, Jim Yin, Jane Posey, Wanda Owens, Joe Davis, Bill Bacon



Image credit: Mark Moran



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