

GMNS and Multimodal Assignment: Practical Agency Experience

David Schmitt — Facilitator

Ashkan Gholamialam — NVTA

Guy Rousseau — ARC

Mohammad Abbasi/Simon Zhou — ASU

Discussants: Lisa Zorn • Scott Smith • Joe Castiglione

General Modeling Network Specifications (GMNS)

Zephyr Learning Sessions

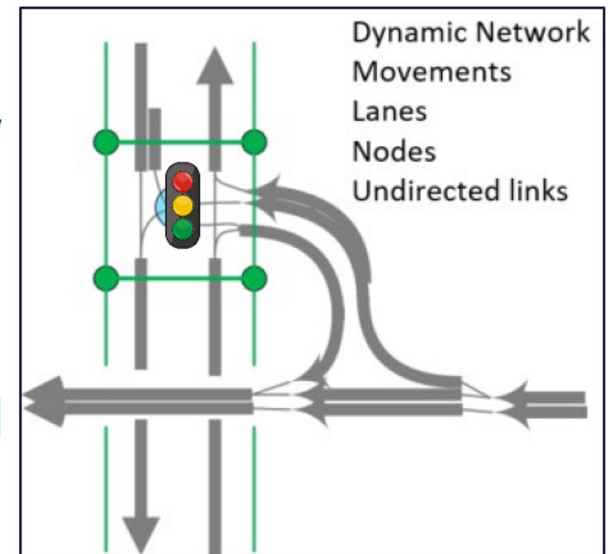
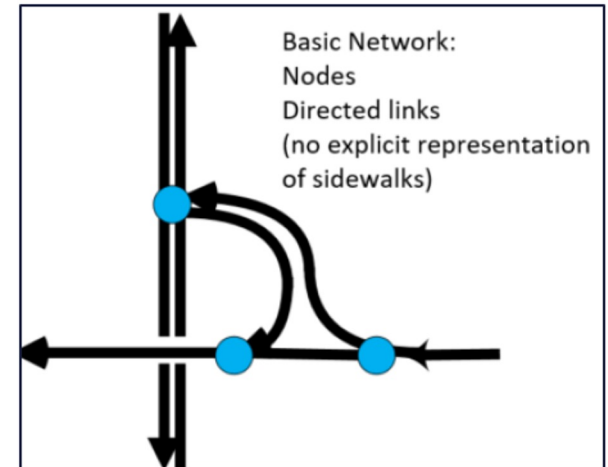
<u>Date</u>	<u>Title</u>
May 7, 2026	Sharing Routable Multi-Resolution and Multi-Modal Networks
June 25, 2026	Multimodal Network Modeling for Accessibility Analysis
August 20, 2026	GMNS and Multimodal Assignment: Practical Agency Experience
October 15, 2026	Building Base Year and Future Networks with Network Wrangler

<https://zephyrtransport.org/activities/network-standard-and-tools/>

GMNS ...

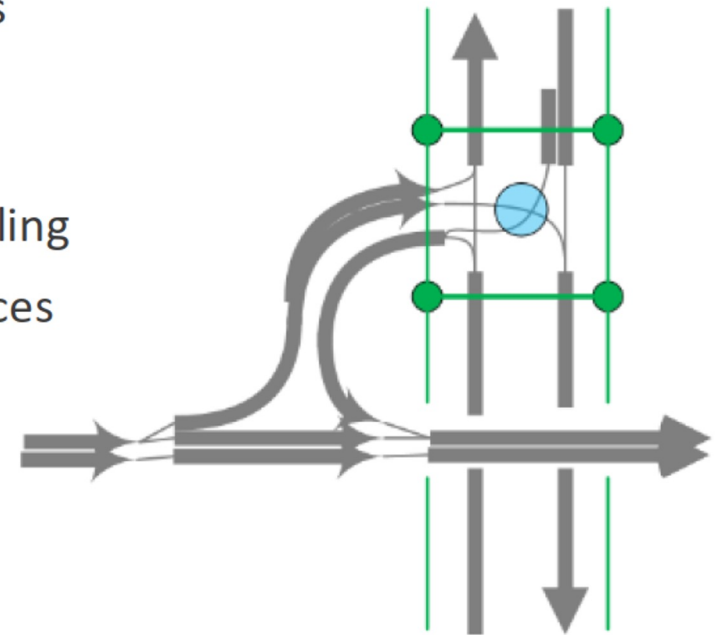
...enables data interchange between macro, meso and micro-scale models, to describe the whole transportation space

- Supports multi-resolution modeling
- Encourages more consistent practices by state and local governments for coding facilities, to ease automated processing of public data
- Supports multi-modal (car, truck, transit, pedestrian, bike) improvements
- Captures network attributes that vary by time-of-day, to better incorporate the effects of transportation system management and operations (e.g., traffic controls, varying lane configurations and tolls)



Introduction to GMNS+

- Open Data Standard for Transportation Networks
 - Automobile, Walking, Biking, Transit
 - Segments, lanes, signals, time-varying networks
- Supports multi-resolution and multimodal modeling
- Integrates with common software and data sources
 - Python-based toolkit converts between common file formats and GMNS+ format
 - Visualize with common GIS software
- See Zephyr Learning Session May 7, 2026



In Today's Session, We Will Cover...

Assignment Interoperability

(Northern Virginia)

Dr. Ashkan Gholamialam

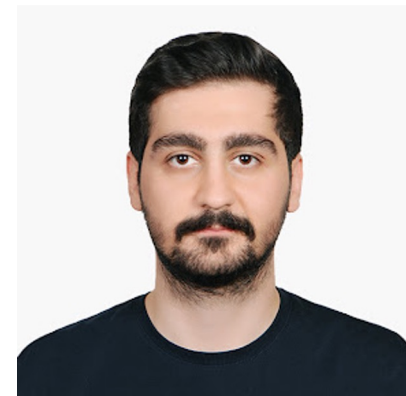


Reproducing a Regional Assignment Workflow

(Atlanta, GA)

Guy Rosseau &

Mohammad Abbasi



JOIN US IN THE ZEPHYR LOUNGE

IMMEDIATELY FOLLOWING
THE LEARNING SESSION!



SCAN TO JOIN



— An Online Community Built by Travel Modelers —



[zephyrtransport.org/
get-involved/forum/](https://zephyrtransport.org/get-involved/forum/)