iCity - GIS Services

By: Anastassios Dardas, PhD Candidate
Research Assistant & Trainer

3rd Annual iCity-ORF Research Day – June 22nd, 2018
About ITSoS

- **Statement of Problem**
  - Massive amounts of raw geospatial data
  - Need of processing & visualizing

- **Why it Matters**
  - Provide informative results
  - Efficient & Effective decision-making processes
  - Economy & Well-being

- **What We Did**
  - TTI: Train, Translate/Transform, and Implement
Services & Demo

- **Service 1: Origin-Destination (OD) Travel Time**
  - A) OD Matrix Travel Time
  - B) Avg. OD Travel Time

- **Service 2: Origin-Destination Mode Choice & Purpose**
  - A) Mode Choice (Demand)
  - B) Trip Purpose

- **Service 3: Highway Traffic Bottleneck**
  - A) 2 min. Interval
  - B) 2 min. Interval Spatially Interpolated
  - C) 1 hr. Interval Spatially Interpolated
"From my perspective, if you have massive amounts of data and some experience in GIS as well as a subdiscipline Artificial Intelligence, then you have the power to wield this information and make substantial changes to any system including transportation. That's what we're trying to do to mature ITSoS."

- Anastassios Dardas
Acknowledgements

- Supervisor: Baher Abdulhai
- Leader: Ahmed Aqra (former); Hasan Bayanouni (current)
- Trainees: Alvin Fan, Gisele Samaan, Elkan Wan
- Site Support: Ziang (Vincent) Feng