

# OVERVIEW OF CTPS

- CTPS Central Transportation Planning Staff, the support staff to the Boston Region Metropolitan Planning Organization (MPO).
- We cover 101 municipalities in Eastern Massachusetts
- 1,405 square miles.
- 3,200,000 million people
- 1,900,000 million jobs
- 3.8 billion dollar worth of investments over 25 years
- 60 full-time staff and 10 temps
- Planners, modelers, engineers, and support services
- Most analysis done in-house, little reliance on consultants
- Support MPO and client agencies

# ITS INTEGRATION

- Develop UPWP projects and study ideas that incorporate ITS technology
  - Roadway
  - Transit
- Utilize ITS data
  - Congested Management Process (CMP)
  - Model estimation, calibration, & validation
  - Needs Assessment for Long Range Plan (LRTP)

# IMPLICATIONS OF TECHNOLOGY ON PLANNING

- UPWP and Client project work
  - Roadway
  - Transit
- Data utilization for model development
  - Vehicle probe data for speeds
  - Vehicle probe data origin and destinations
  - Toll gantry fare / vehicle residence
  - Transit counts
  - Understand entry and exit points of the system
- Planning Process
  - CV & AV technologies understanding what they are and do
  - Assumptions on utilization and impact

# STRENGTHS OF YOUNG PROFESSIONALS

- Appreciation of new technologies
- New degree opportunities (Data Science) allow more majors to be tapped into
- Traffic engineering still producing many skilled graduates
- Most students are going for a Masters, which helps with experience when we hire them
- Lots of students are having co-ops, allowing them to get experience

# CHALLENGES

- MPO's have trouble competing for the best qualified students because of salaries
- Our MPO requires full-time applicants to have at least a green-card or be willing to work knowing we can't sponsor them – this limits the # of candidates
- Recent graduates have very good technical knowledge but lack the understanding of big picture and how their skills would be used in the planning process
- Appreciation for understanding the limitations of big data linked with a strong statistical background