# DTA Model Projects Overview

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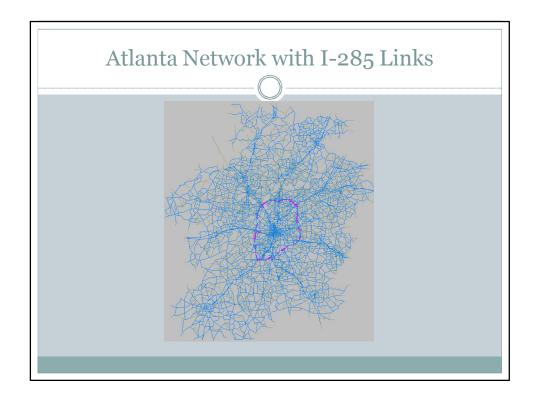
TMIP Webinar – Dynamic Traffic Assignment Session 2, Oct 23, 2009

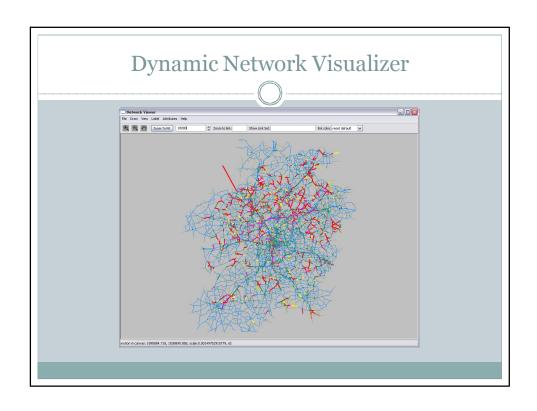
## DTA projects Overview

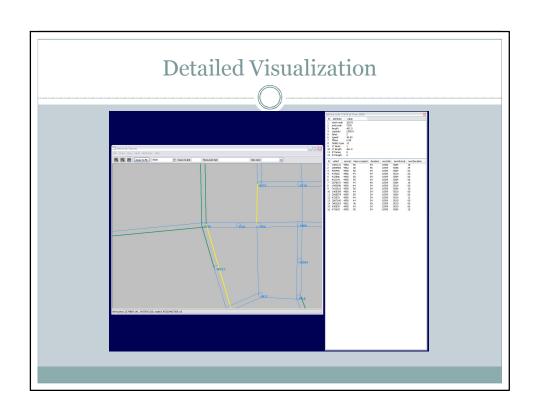
- Atlanta Region
- Island of Guam
- San Francisco County
- San Francisco Doyle Dr Corridor

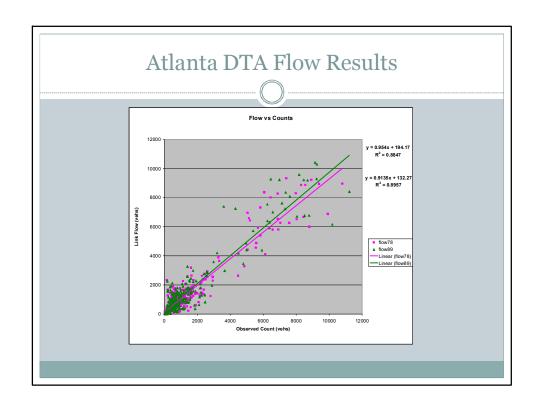
# Atlanta DTA Model

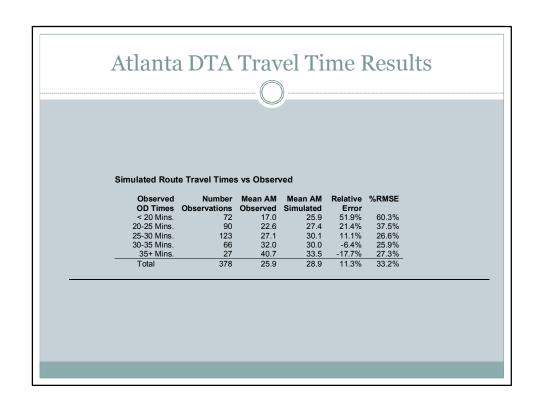
- DTA Model of entire Atlanta region
- Demand for traffic microsimulation models
  - o I-285 ring corridor / 4 sections
- Very large scale model
  - Long run times
  - Difficult to calibrate
  - Decent calibration results
- No Signal Data
  - o Generated using HCM type methods
- Developed many analysis tools





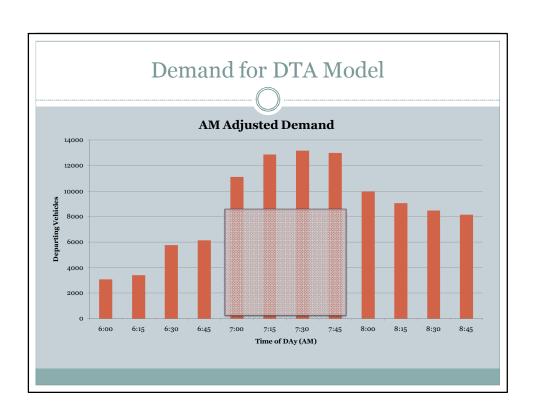


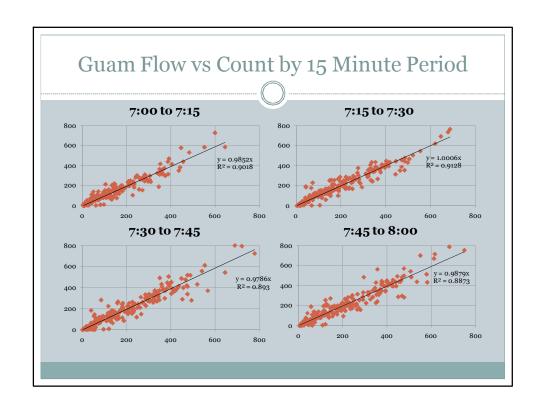


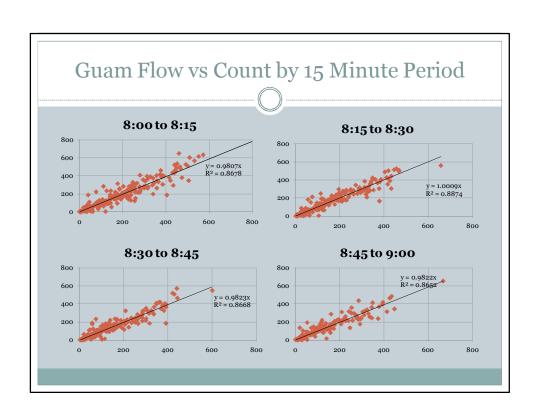


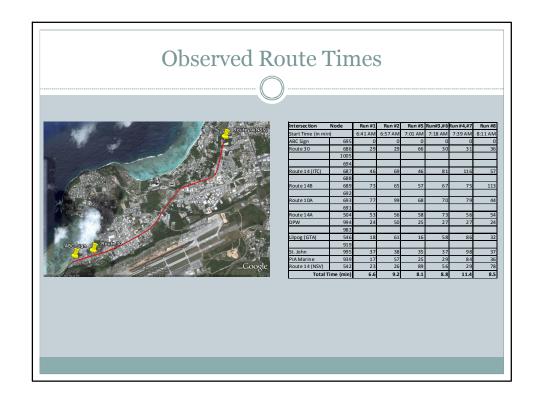
### Guam DTA Model

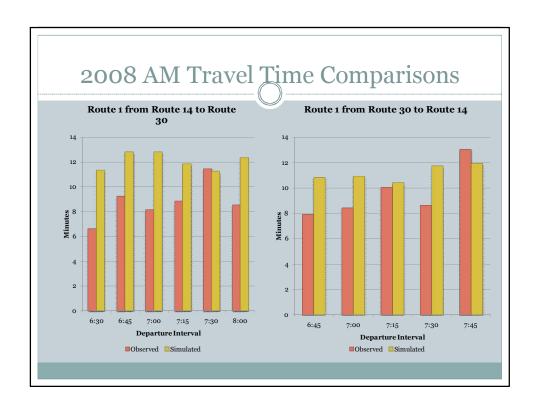
- DTA model of entire Island
- Impact of increase in military personnel
  - Construction traffic
  - o 10,000+ more military residents
- Traffic Signals from Synchro Models
  - Wrote software to convert to DTA
- Mitigation Scenarios
  - o Limited travel periods
  - Alternative routes
  - Transit options









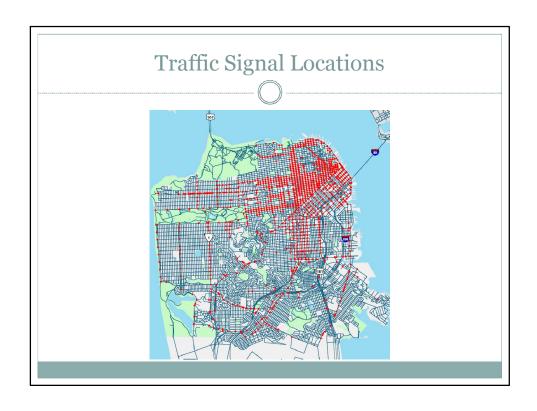


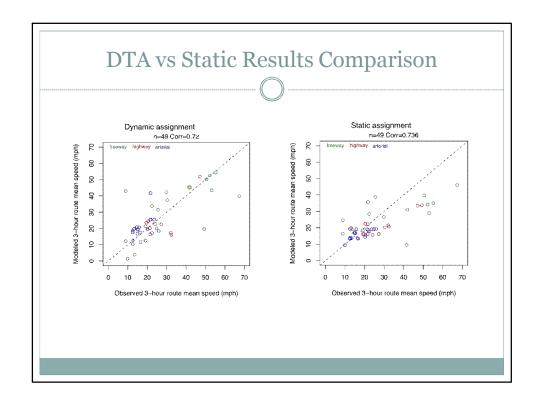
# Counts vs Flows Link speeds Link speeds

# San Francisco County DTA Model

- Entire County DTA Model
  - Links for every city street
  - o Zones at essentially city block level
- Traffic Signal Data Supplied in Excel Files
  - Wrote software to convert to DTA formats
- Very large scale issues
  - Runtime
  - Calibration
  - o Adequate Observed Data







# Doyle Dr. Corridor DTA

- Project In progress
- Model developed mostly by a DTA package developer
- Assisting SFCTA in scenario analysis
  - Construction closures
  - New alignment
  - Demand scenarios
- Illustrates minimal impact on neighborhoods

