

Model Task Force: A Look Back

Terry Corkery, FDOT



Early 1970s

FHWA/UMTA* develop UTPS
Computer Package

*Urban Mass Transportation Administration

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The Urban Transportation Planning System (UTPS)

An Introduction for Management
June 1980

U.S. Department of Transportation
Urban Mass Transportation Administration
Federal Highway Administration
Office of the Secretary



1976

Florida has 15 MPOs, all with separate models

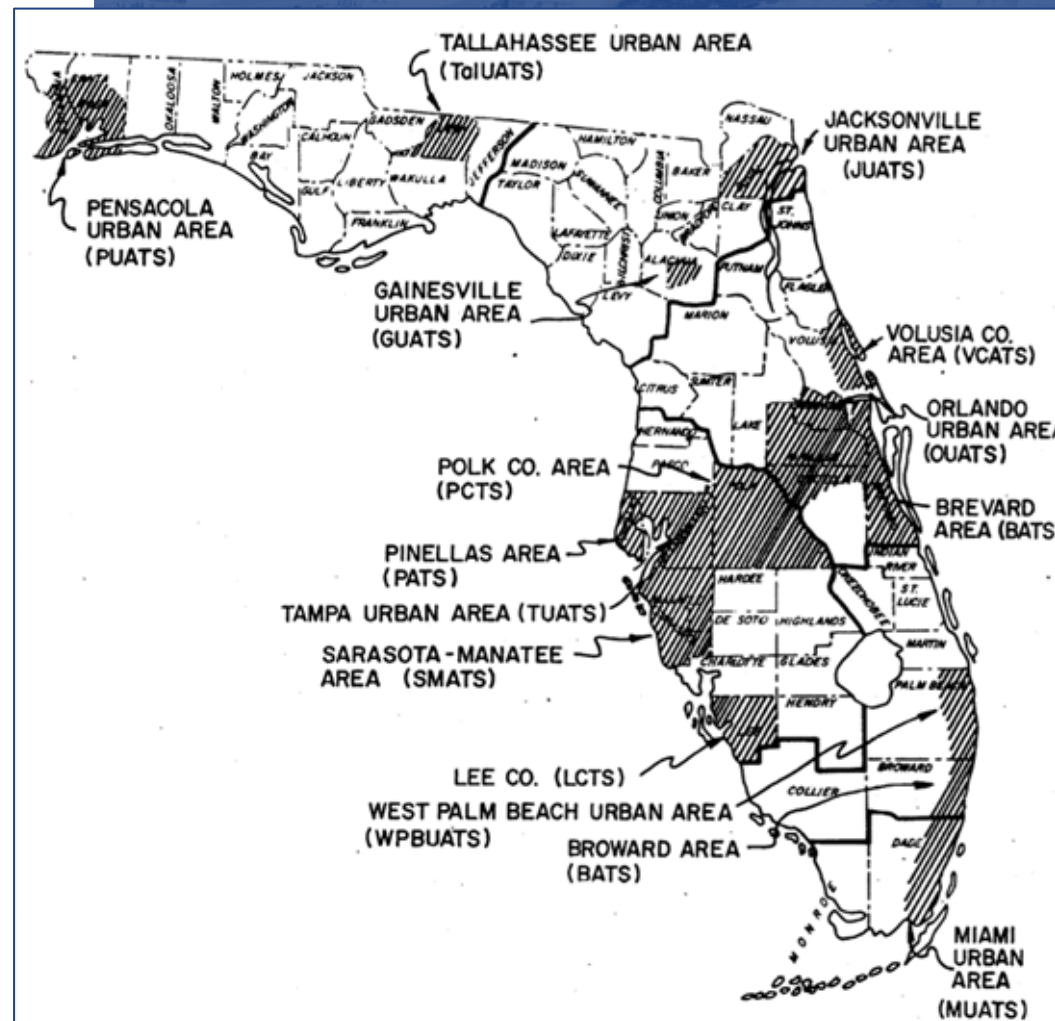


Figure 2
FLORIDA'S URBANIZED AREAS



Source: FDOT Model Update Task A, by Ken Kaltenbach, Schimpeler Corradino Associates

Late 1970's

- UTPS mainframe-based software
 - » All models housed in FDOT Central Office
- Original Model Task Force established
 - » Representation from MPOs, Transit Agencies, and FDOT
 - » **Creation of FSUTMS** for mainframe computers

FLORIDA DEPARTMENT OF TRANSPORTATION

URBAN TRANSPORTATION PLANNING
MODEL UPDATE

Task A

Standard Model Application Procedure

FINAL REPORT

JULY 1979

schimpeler corradino associates
engineering & planning consultants
970 Richardson Road
Tallahassee, Florida 32301



- Florida's Standardized UTPS Process
- Florida Standard Urban Transportation Model Structure
 - » Agreement on which options to use within UTPS
 - Allowed sharing data and modeling expertise in all MPOs
 - » Developed GEN module
 - Florida-specific Trip Generation model
 - » Creation of FSUTMS-Mainframe
 - All Florida modelers used FDOT Burns Building mainframe computer

A TRAVEL DEMAND MODEL FOR THE STATE OF FLORIDA

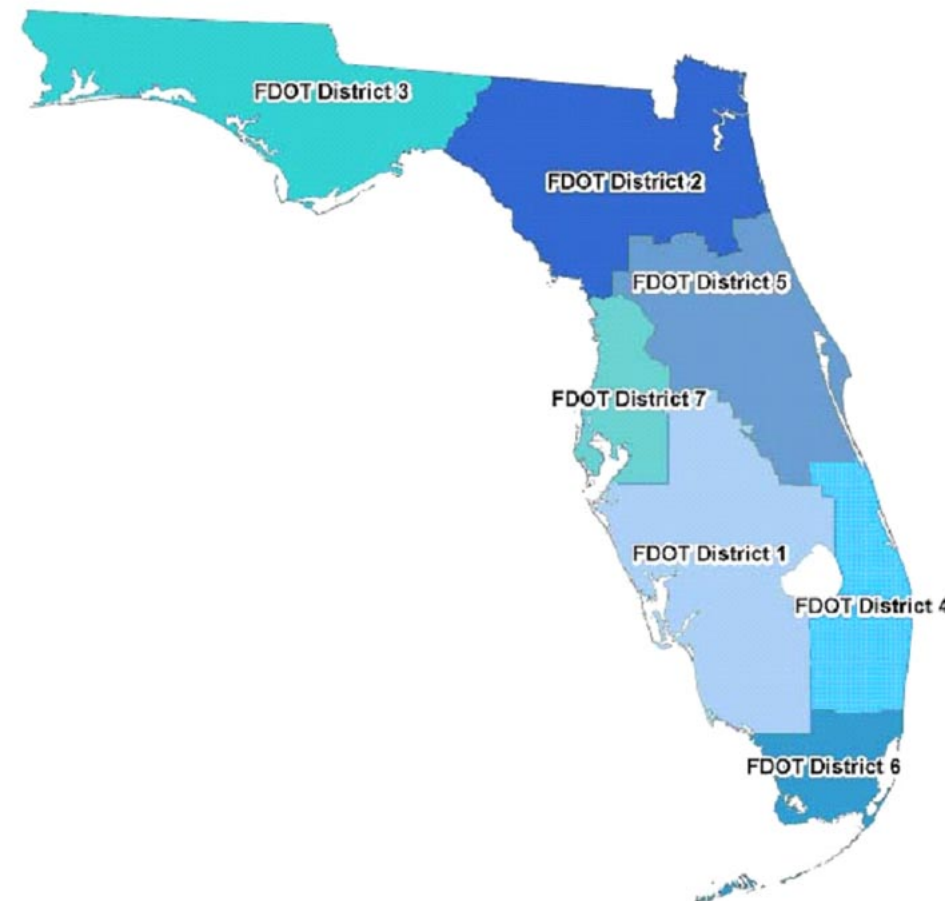
FSUTMS



Mid to late 1980's

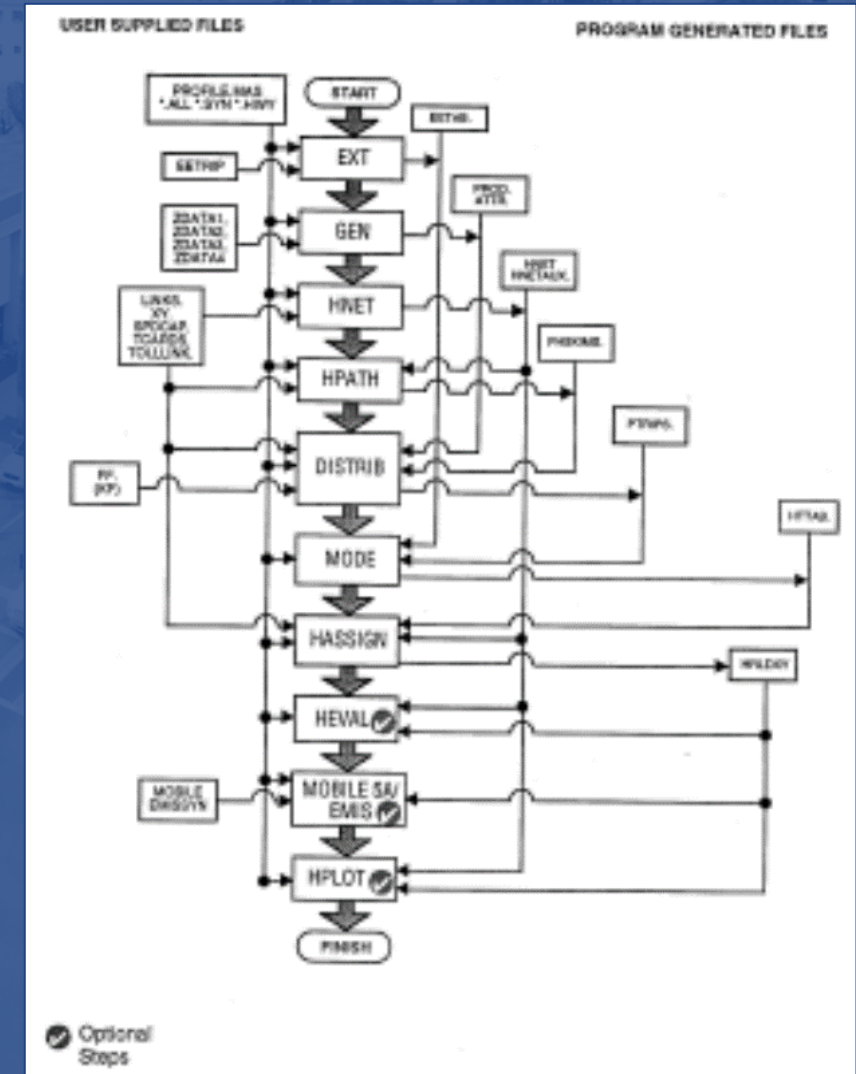
- FDOT Decentralization, Planning Office Reorganized
- Model Task Force inactive
- Microcomputers become widely available
 - » Some MPOs develop in-house models with MinUTP, Tranplan, and other PC-based software
- FDOT creates "Micro-FSUTMS" powered by TRANPLAN

FDOT Districts



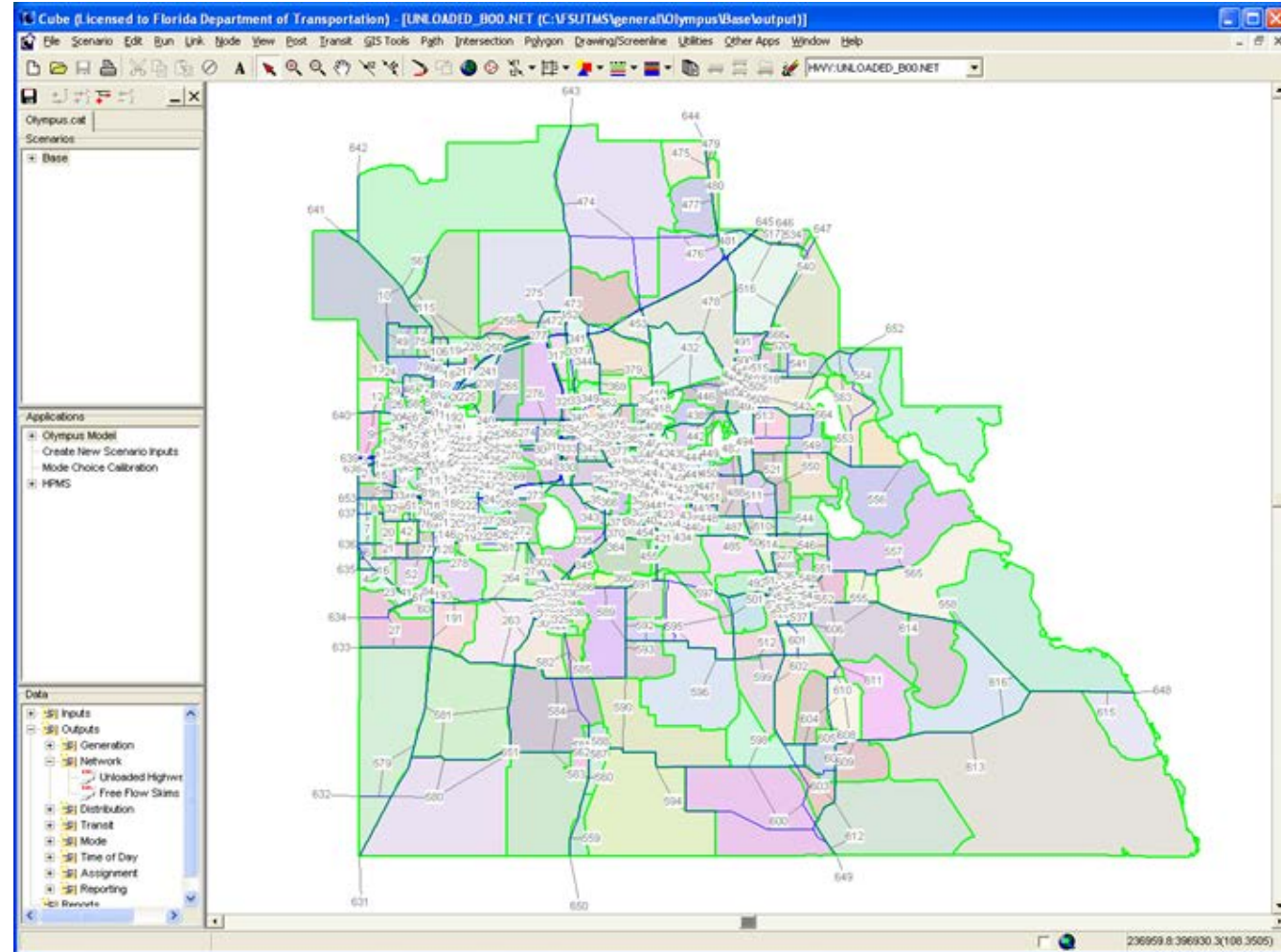
1990's

- **Early 1994: New Model Task Force established to discuss standardization issues**
- RS-6000 mini-computers for larger models
- 32-bit Windows operating system enhances PC-based software



Late 1990's to Early 2000's

- Blue-Ribbon Panel and Model Evaluation Study Committee
 - » Studied alternative software engines to run the next generation of FSUTMS models
- TransCAD, Cube Voyager and New FSUTMS Standards



Today's Challenges

- Fragmenting Standardization
 - » Activity-based and Four-step models
 - » Differing software platforms
- Increased computer processing power
- New approaches to planning
 - » Predictive Analytics
 - » Artificial Intelligence
 - » Dashboards / Quick-to-Deploy tools
- FSUTMS NextGen



Model Task Force Accomplishments



legal defense of model
structured process
special studies
opportunities to present
communication with fdot
federal participation
software
nested logit model
sharing new methods
collaboration
standards
training
community data
forum for mpo input
test bed for new ideas
networking
national exposure
lessons learned
unique forum in nation
flexible standards
example to others
benefits of sunshine law
easy access to models



FLORIDA
MODEL
TASK FORCE

**HAPPY 30-YEAR
ANNIVERSARY**

