



# Tampa Bay Regional Model Updates



*presented to*

**Florida Model Task Force Meeting**

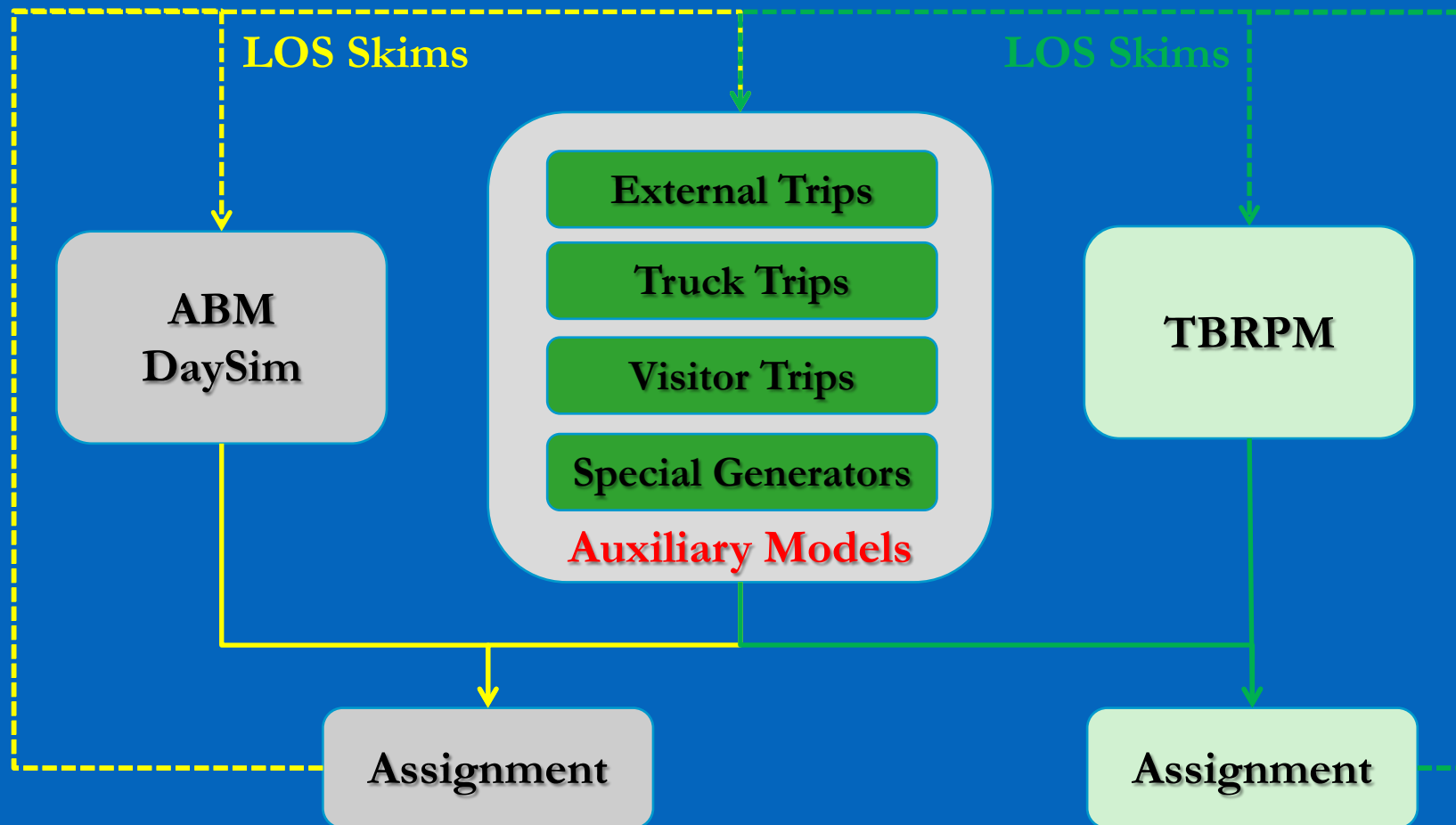
*presented by*

**FDOT District 7**

**03/06/2012**

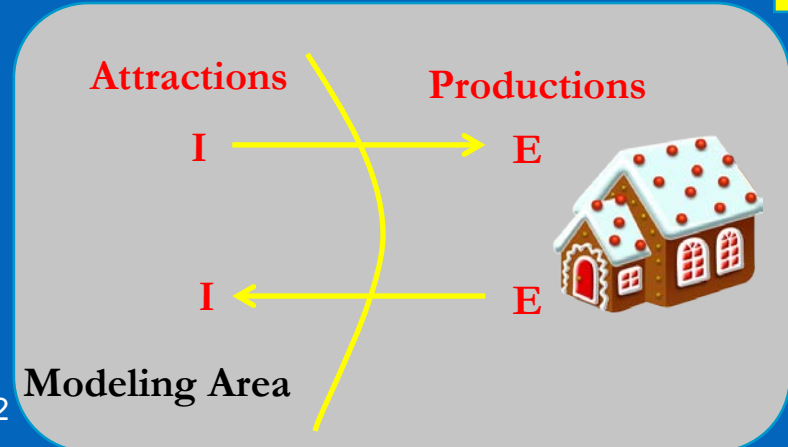
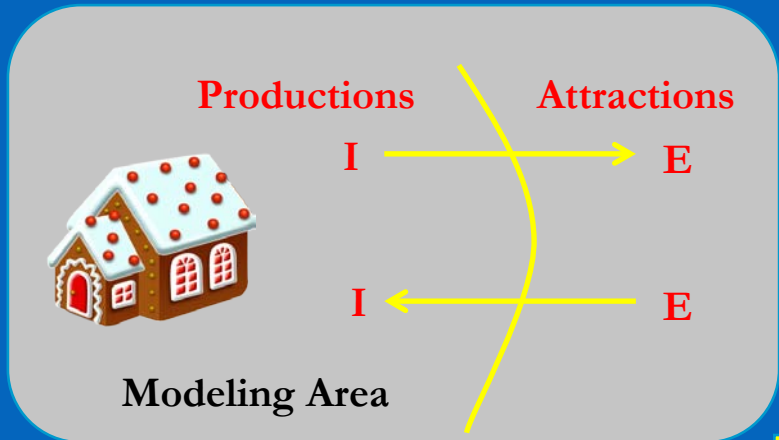


# Integrated Model System Components



# Auxiliary Models – External Trips

- 2008 Cordon Line Survey
- Routine vs. Occasional External Trips



ZONE	AUTO_OCC	P_OR_A	PURP	PERCENT	DESCR
3012	1.00	T	1	14	HBW
3012	1.00	T	2	2	HBSh
3012	1.00	T	3	6	HBSR
3012	1.00	T	4	1	HBSC
3012	1.00	T	5	12	HBO
3012	1.00	T	6	1	NHBW
3012	1.00	T	7	6	NHBN
3012	1.00	T	8	5	LTRK
3012	1.00	T	9	7	HTRK
3012	1.00	T	10	0	TAXI
3012	1.00	P	11	41	EI
3012	1.00	P	12	1	AIRP
3012	1.00	P	13	4	UNIV



# Auxiliary Models – Truck Trips


- 2003 Truck Survey
- Quick Response Freight Manual
- New Employment Categories
- Forecast Truck Trips:
  - Single Destination Truck Trips
  - Tour-based Truck Trips





## Auxiliary Models – Visitor Trips

- 2007/2008 Hotel/Motel Survey
- Original Hotel/Motel Categories (Prior to TBRPM 6):
  - Business
  - Resort
  - Economy
- Updated Hotel/Motel Categories (After TBRPM 7):
  - Low Density
  - Medium Density
  - High Density
- Updated Hotel/Motel Categories were implemented in the TBRPM 7.1 and will be incorporated into ABM



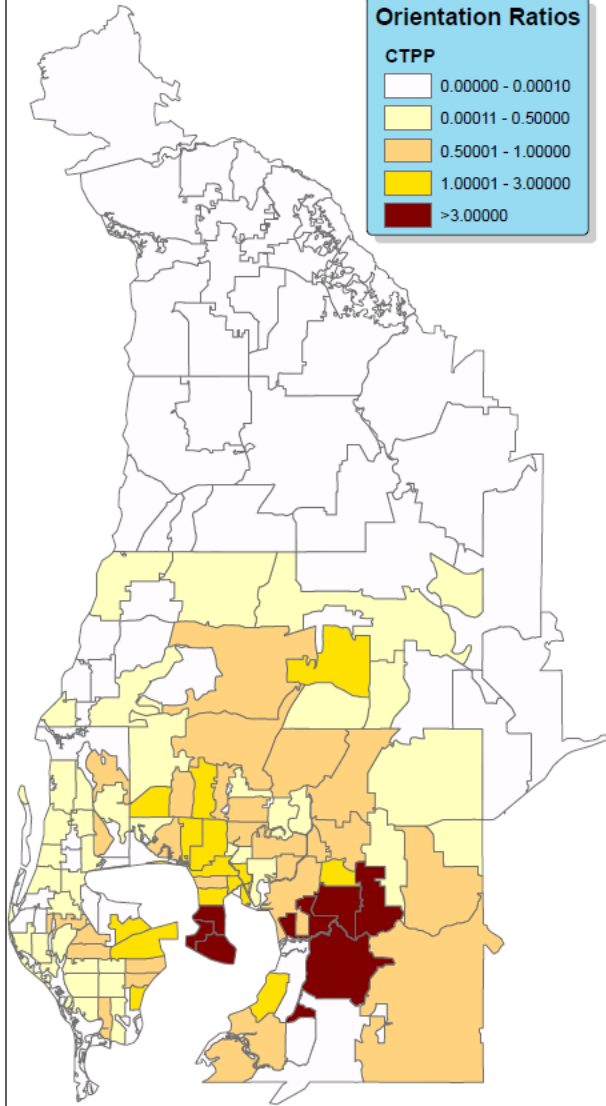
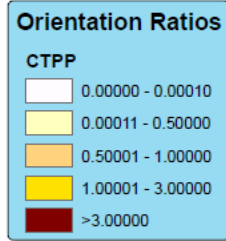
# Auxiliary Models – Special Generators

- **Special Generators Used for Auxiliary Models:**
  - Airports
  - Ports
  - Mines
  - Warehouses / Distribution Centers
- **Special Generators Used for ABM Quality Check:**
  - Major Activity Centers
  - Hospitals
  - Colleges and Universities
  - Major Tourist Attractions (Busch Garden)

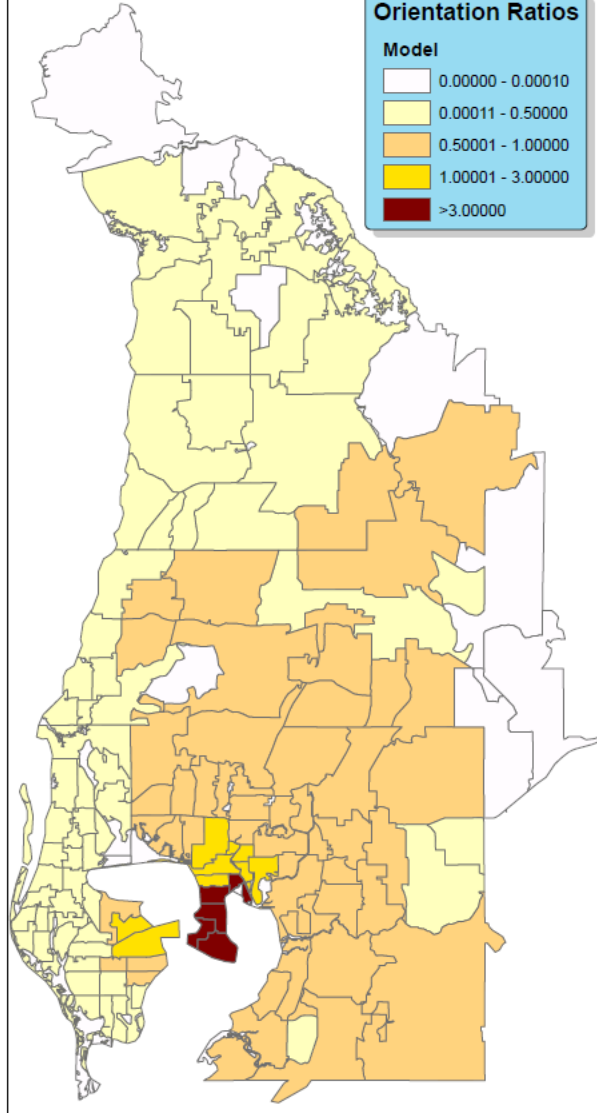
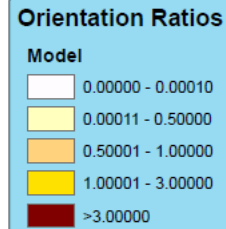


# Travel Patterns in Major Activity Centers

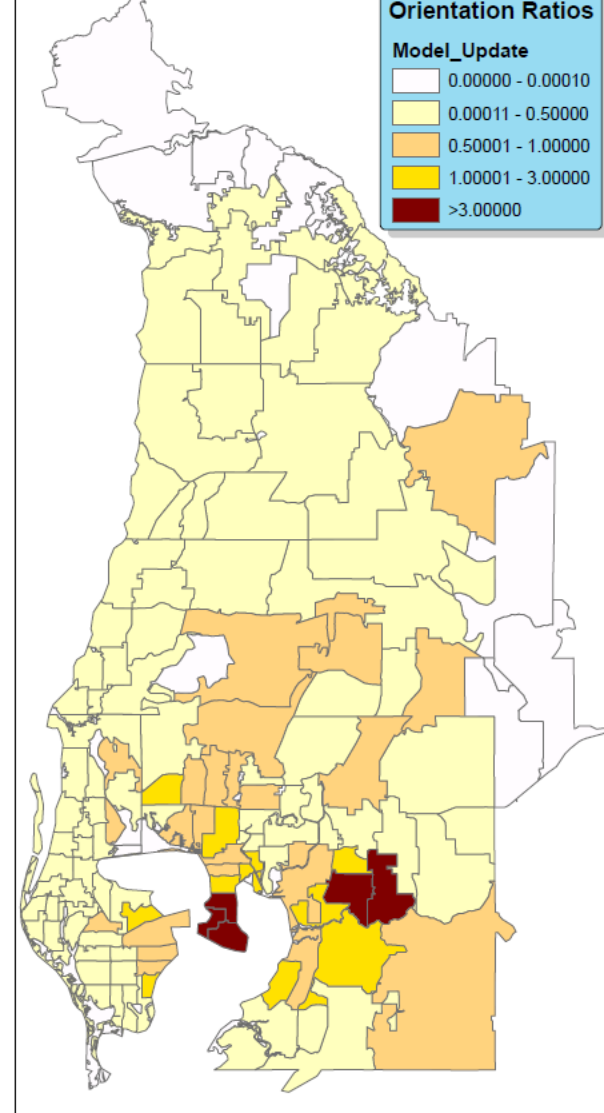
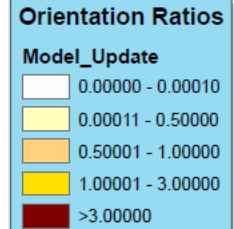
MacDill CTPP Journey to Work  
Travel Patterns



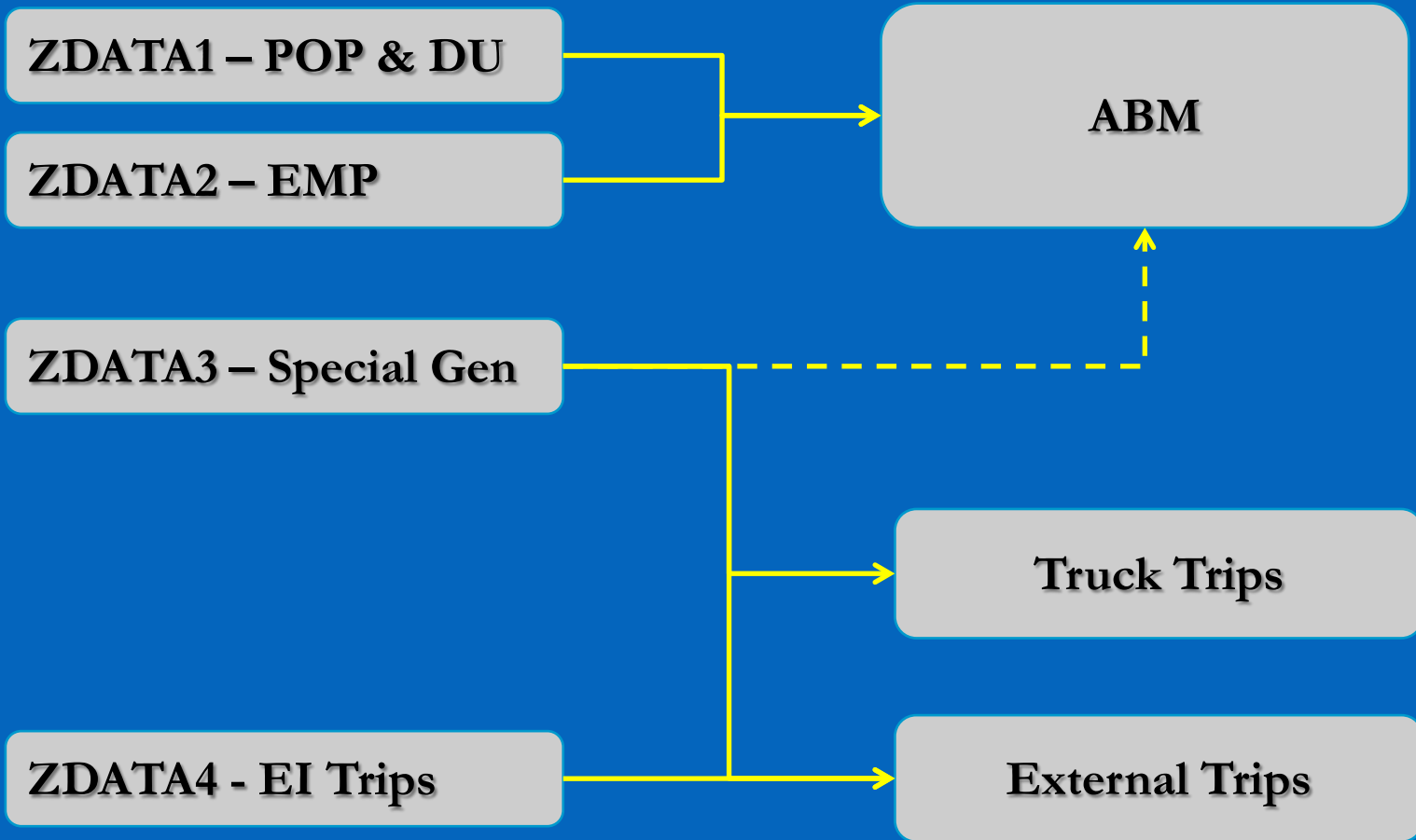
MacDill Model HBW Trip Travel Patterns  
(Before Update)



MacDill Model HBW Trip Travel Patterns  
(After Update)



# ZDATA Files and ABM Components







# Dynamic Traffic Assignment



- Both ABM and 4 step model will still use traditional Static Assignment techniques for trip assignment
- DTA will be used only on a Corridor or Subarea basis for special analyses
- Major Steps in Development
  - Review Available Models and Methodologies
  - Select DTA Model for the TBRPM
  - Testing – Learning Curve
  - Staff and Consultant Training

# Ongoing Transit Projects in District 7

- **TBARTA Master Plan Projects:**
  - Pinellas AA (Clearwater and St. Pete.)
  - HART AA
  - Howard Frankland Bridge
  - SR 54/56
  - USF to Wesley Chapel
  - Westshore to Crystal River/Inverness
  - I-75 Regional Bus to Downtown
    - Bradenton and Sarasota
    - Wesley Chapel

