

# Districts 4 & 6 Modeling Activities

*presented to*  
**MTF**

*presented by*  
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## Districts 4 & 6 Modeling Activities



- Deploy Activity-Based Models
  - SERPM 7
  - TCRPM 4
- Best-Practices on Transit Demand Forecasts
  - Bus on-board surveys and platform survey
  - Blue-tooth speed/travel time
  - Transit Modeling
    - SERPM 6.7
    - Data Driven



## District 4 & 6 Modeling Activities (cont.)



- Planning and Modeling Data
  - Speed/Travel Time
  - On-line Regional LEHD
  - Household Travel Surveys
    - Martin
    - Miami-Dade/Broward/Palm Beach



## SERPM 7



- Activity Based Model (CT-RAMP/Cube)
- Evolved from SANDAG model
- Has been applied for the 2040 LRTP Updates
- 2010 Base year model available on FSUTMSOnline
- Training Workshops
  - Introductory Workshop: March 14
  - Training Workshop: April 17-18



## TCRPM 4



- “ABM-Lite” (CT-RAMP/Cube)
- Evolved from Lake Tahoe Model
- Extensive Data combing
  - Employment:
    - Cross check: InfoGroup/ES-202/County Property Records (sq. footage)
    - Reconcile Proprietors
  - Traffic Counts
    - Estimated 2010 AADTs using five-year (2008-2012) data
- Complete 2010 calibration/validation by Sept. 2014
- Training Workshop in fall, 2014



## Best-Practices on Transit Demand Forecasts



- Corridor Transit Planning
  - Transit surveys for seven corridor studies
  - FTA input on survey designs
  - Data driven corridor models
- STOPS evaluation for Corridor BRT
- SFECC/TRCL commuter rail study
  - Extensive validation with recent data
  - FTA input on survey designs
  - Backcasting
  - Pre-Project Development FTA coordination



## Planning and Modeling Data



- **HERE** Real Time Traffic Information:
  - Speed and Travel Time Data
  - Temporal and Spatial Data coverage assessment
  - Data Aggregation for Model Validation
  
- Simplified On-Line Regional LEHD
  - “South Florida Resident-Job Linkage”



## Simplified On-line Regionalized LEHD



## Simplified On-line Regionalized LEHD

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From City: Boca Raton city, Palm Beach

1 of 1 | 100% | Select a format | Export

Note: Click up/down indicator for sorting, hold SHIFT key for multiple column sorting

To County	Year	Total number of jobs	# of jobs of workers age 29 or younger	# of jobs of workers age 30 to 54	# of jobs of workers age 55 or older	# of jobs with earnings <= \$1250/month	# of jobs with earnings > \$1251/month to \$3333	# of jobs with earnings > \$3333	# of jobs in Goods Producing industry sectors	# of jobs in Trade, Transportation and Utilities industry sectors	# of jobs in All Other services industry sectors
Sort ↓	Sort ↓	Sort ⊕	Sort ↓	Sort ↓	Sort ↓	Sort ↓	Sort ↓	Sort ↓	Sort ↓	Sort ↓	Sort ↓
Palm Beach	2011	17,496	3,307	9,350	4,839	4,099	5,456	7,941	912	2,558	14,026
Broward	2011	8,450	1,553	4,704	2,193	1,754	2,570	4,126	803	1,984	5,663
Others	2011	2,545	691	1,339	515	754	848	943	227	777	1,541
Miami-Dade	2011	2,255	468	1,251	536	534	665	1,056	118	803	1,334
Marin	2011	145	34	75	36	38	46	61	11	53	81
St. Lucie	2011	131	31	66	34	34	56	41	13	39	79
Indian River	2011	79	20	37	22	20	32	27	10	22	47
Monroe	2011	33	10	16	7	10	12	11	2	13	18
<b>Total</b>		<b>31,134</b>	<b>6,114</b>	<b>16,838</b>	<b>8,182</b>	<b>7,243</b>	<b>9,685</b>	<b>14,206</b>	<b>2,096</b>	<b>6,249</b>	<b>22,789</b>

## Simplified On-line Regionalized LEHD

South Florida Residence Job Linkage (SFRJL), Version 2.0

OD Report (Cities) | Area Definition | Area Modification | OD Report (Areas)

Modify Area(s)

Current user: shi-chiang.lig@dot.state.fl.us

\* Only up to 1000 Census Blocks can be displayed at once.

Show Census Block GIS Layer

Select an area to modify:

Use these tools to define/refine desired areas:

Current selection mode: Navigation

Update | Delete | Reset | Clear | Exit

Total visitors: 710

## Simplified On-line Regionalized LEHD

Total Visitors: 710

## Simplified On-line Regionalized LEHD

From Year: 2011 To Year: 2011 View Report

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From Predefined Area: **NW Broward** To Predefined Area: **Miami DT**

Year	Total number of jobs	Number of jobs of workers age 29 or younger (SA01)	Number of jobs of workers age 30 to 54 (SA02)	Number of jobs of workers age 55 or older (SA03)	Number of jobs with earnings <= \$1250/month (SE01)	Number of jobs with earnings \$1251/month to \$3333 (SE02)	Number of jobs with earnings > \$3333 (SE03)	Number of jobs in Goods Producing industry sectors (SI01)	Number of jobs in Trade, Transportation, and Utilities industry sectors (SI02)	Number of jobs in All Other services industry sectors (SI03)
2011	189	30	129	30	22	37	130	1	15	173