Non-ABM Component Status

➤ Presented to project status meeting: 11/27/2017

CAMBRIDGE SYSTEMATICS

StreetLight update areas

- **Airport**
  - » TOD splits
  - » Distribution

- **Internal/External**
  - » TOD splits
  - » Distribution
  - » External-External vs. Internal-External splits

- **Trucks**
  - » TOD splits
  - » Distribution

CAMBRIDGE SYSTEMATICS

TOD Mismatch

Table 7: Time Periods for Level-of-Service Skims and Assignment

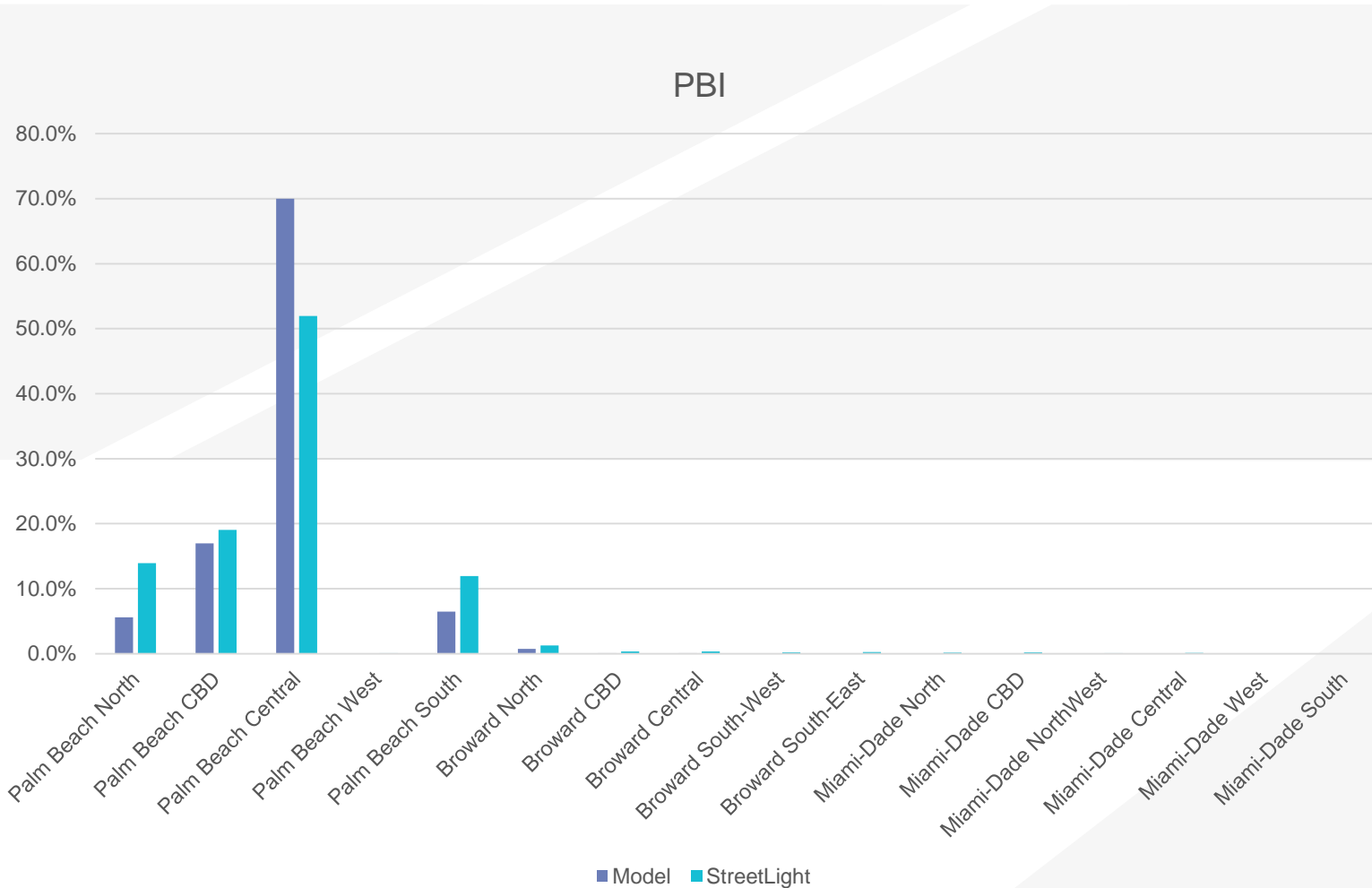| Number	Description	Begin Time	End Time
1	Early	10:00 P.M.	5:59 A.M.
2	A.M. Peak	6:00 A.M.	8:59 A.M.
3	Midday	9:00 A.M.	2:59 P.M.
4	P.M. Peak	3:00 P.M.	6:59 P.M.
5	Evening	7:00 P.M.	9:59 P.M.

→ Time periods

- All Day (12am-12am)
- Early AM (12am-6am)
- AM Peak (6am-10am)
- Midday (10am-3pm)
- PM Peak (3pm-7pm)
- Late PM (7pm-12am)

Will use TOD traffic count to update Airport and Externals

CAMBRIDGE SYSTEMATICS

Airport Distributions

$$\text{Utility} = -0.18226 * \text{Travel Time} + \text{Size}$$

PBI

	2010	2015	Change*
PBI	11,134	11,718	5%
FLL	33,732	40,684	21%
MIA	46,348	57,157	23%

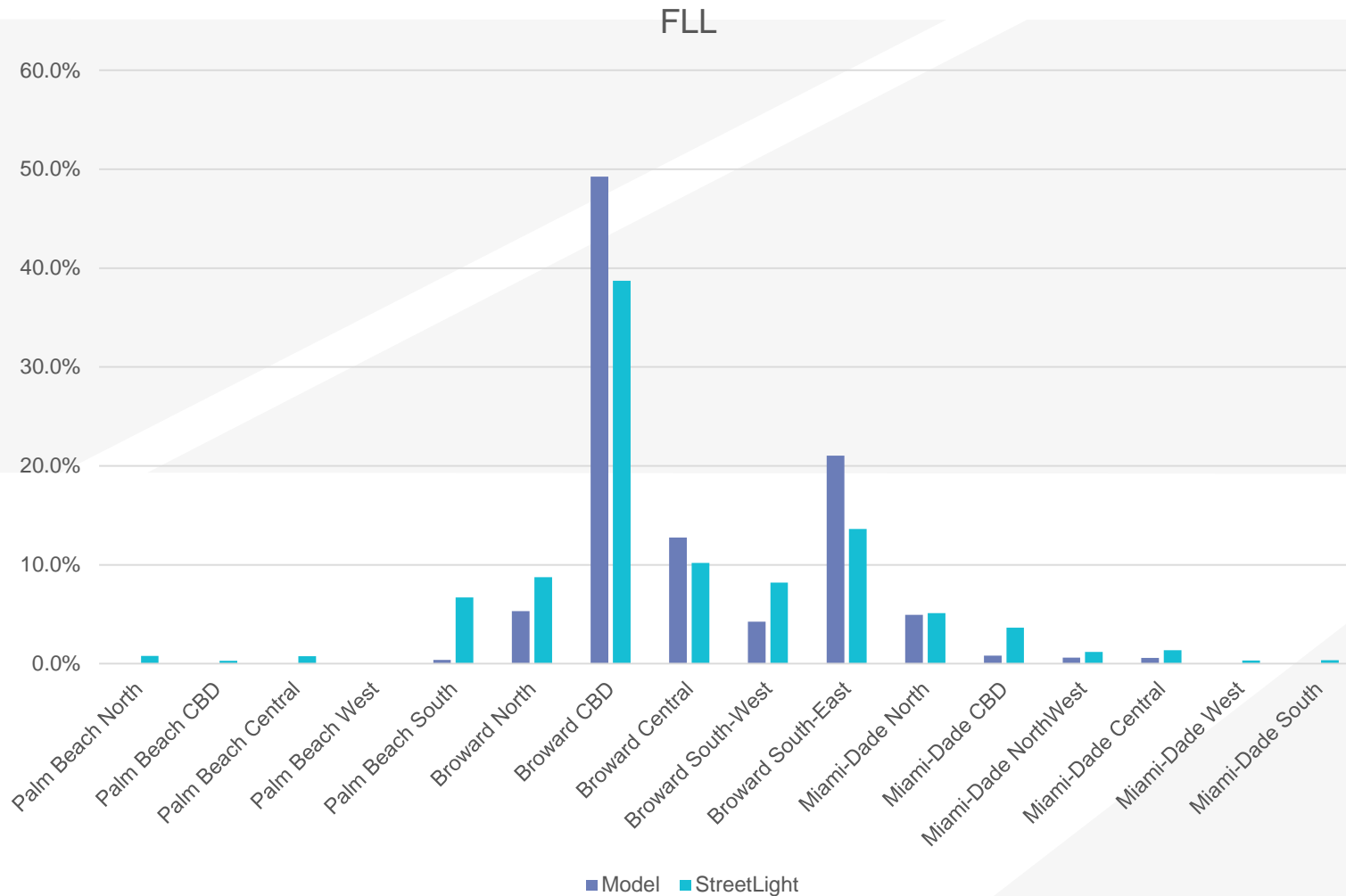CAMBRIDGE SYSTEMATICS

Super Districts: Palm Beach County

Palm Beach County can feature five districts:

- Palm Beach North
- Palm Beach Central
- Palm Beach CBD
- Palm Beach West
- Palm Beach South
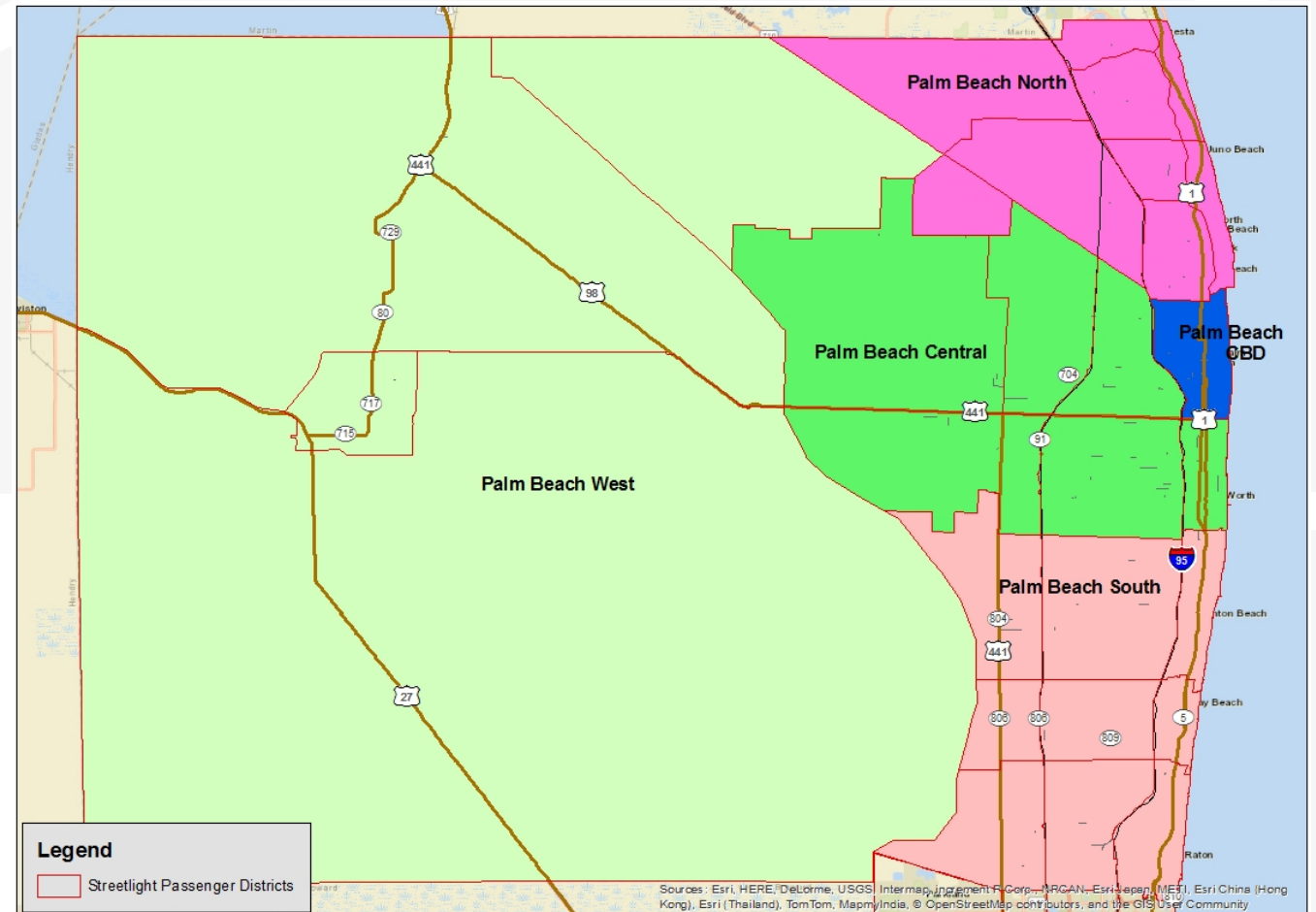
CAMBRIDGE SYSTEMATICS

Airport Distributions

FLL chart (Model vs StreetLight)

	2010	2015	Change*
PBI	11,134	11,718	5%
FLL	33,732	40,684	21%
MIA	46,348	57,157	23%

■ Model ■ StreetLight

CAMBRIDGE SYSTEMATICS

Super Districts: Broward County

Broward County can feature five districts:

- Broward North
- Broward Central
- Broward CBD
- Broward South-West
- Broward South-East
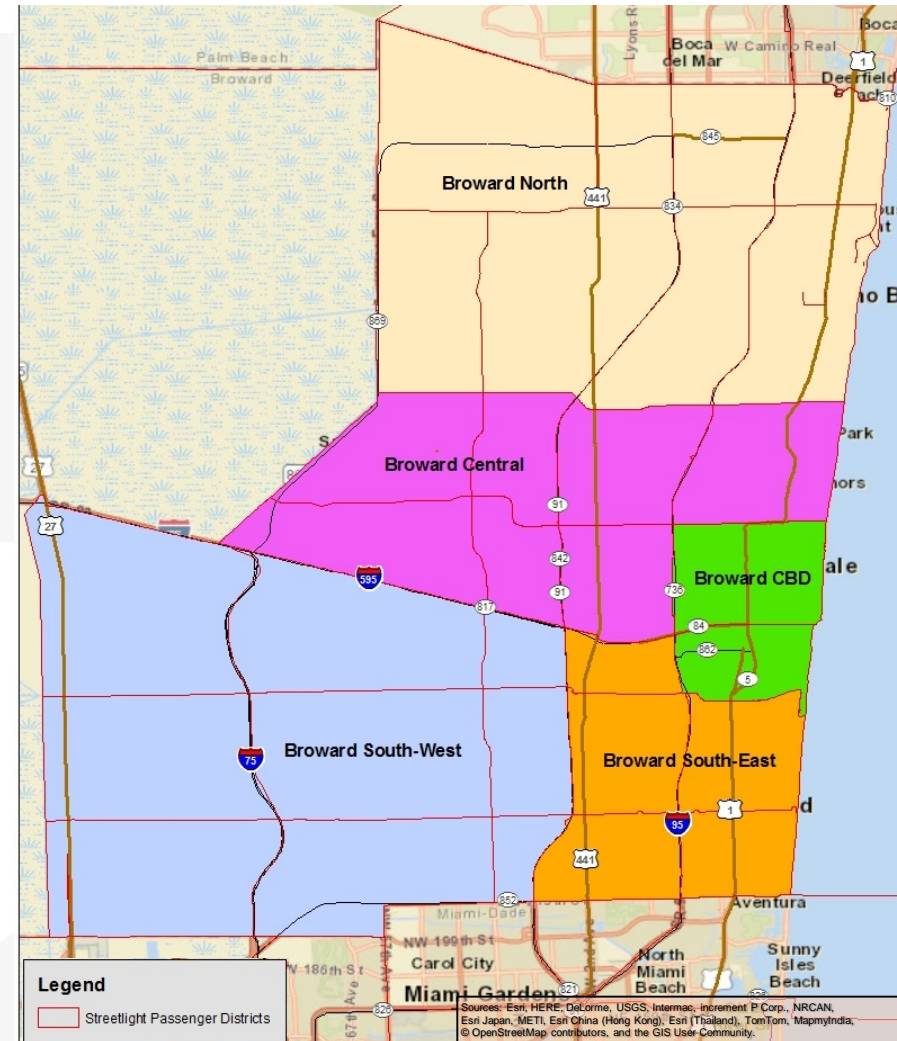
CAMBRIDGE SYSTEMATICS

Airport Distributions

$$\text{Utility} = -0.18226 * \text{Travel Time} + \text{Size}$$

MIA

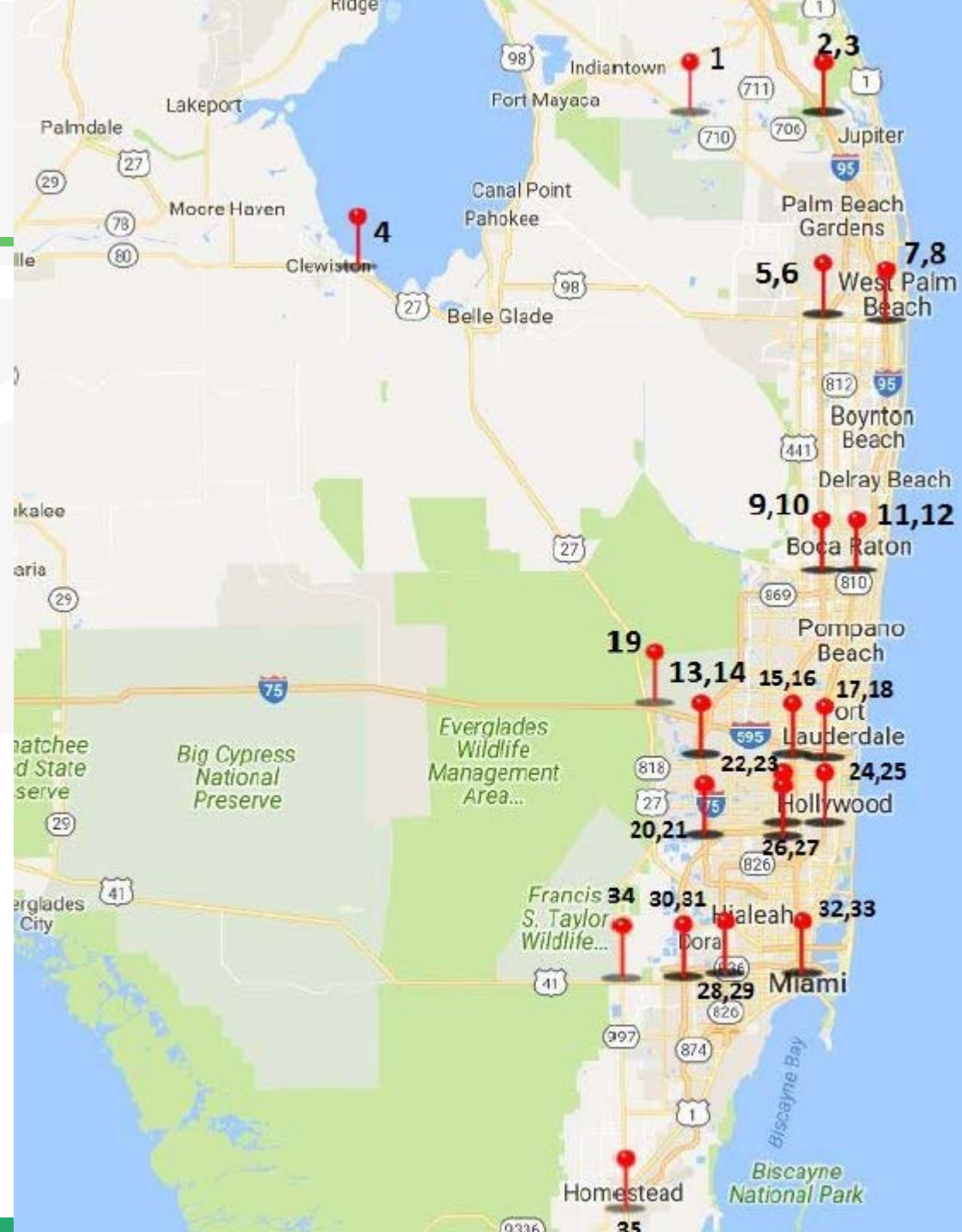|	2010	2015	Change*
PBI	11,134	11,718	5%
FLL	33,732	40,684	21%
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CAMBRIDGE SYSTEMATICS
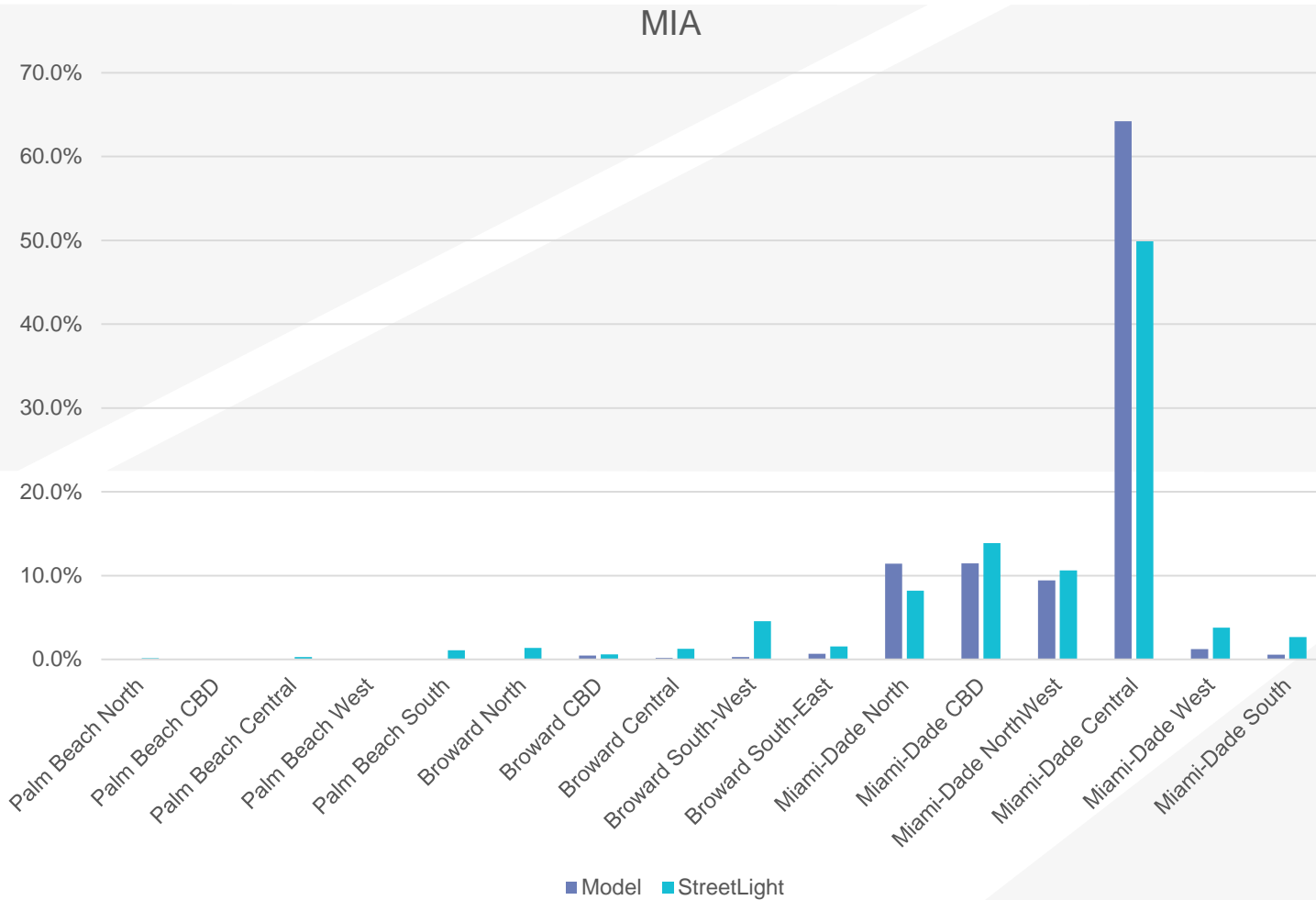
Super Districts: Miami-Dade County

Miami-Dade County can feature six districts:
- Miami-Dade North-East
- Miami-Dade North
- Miami-Dade Beach/CBD
- Miami-Dade Central
- Miami-Dade West
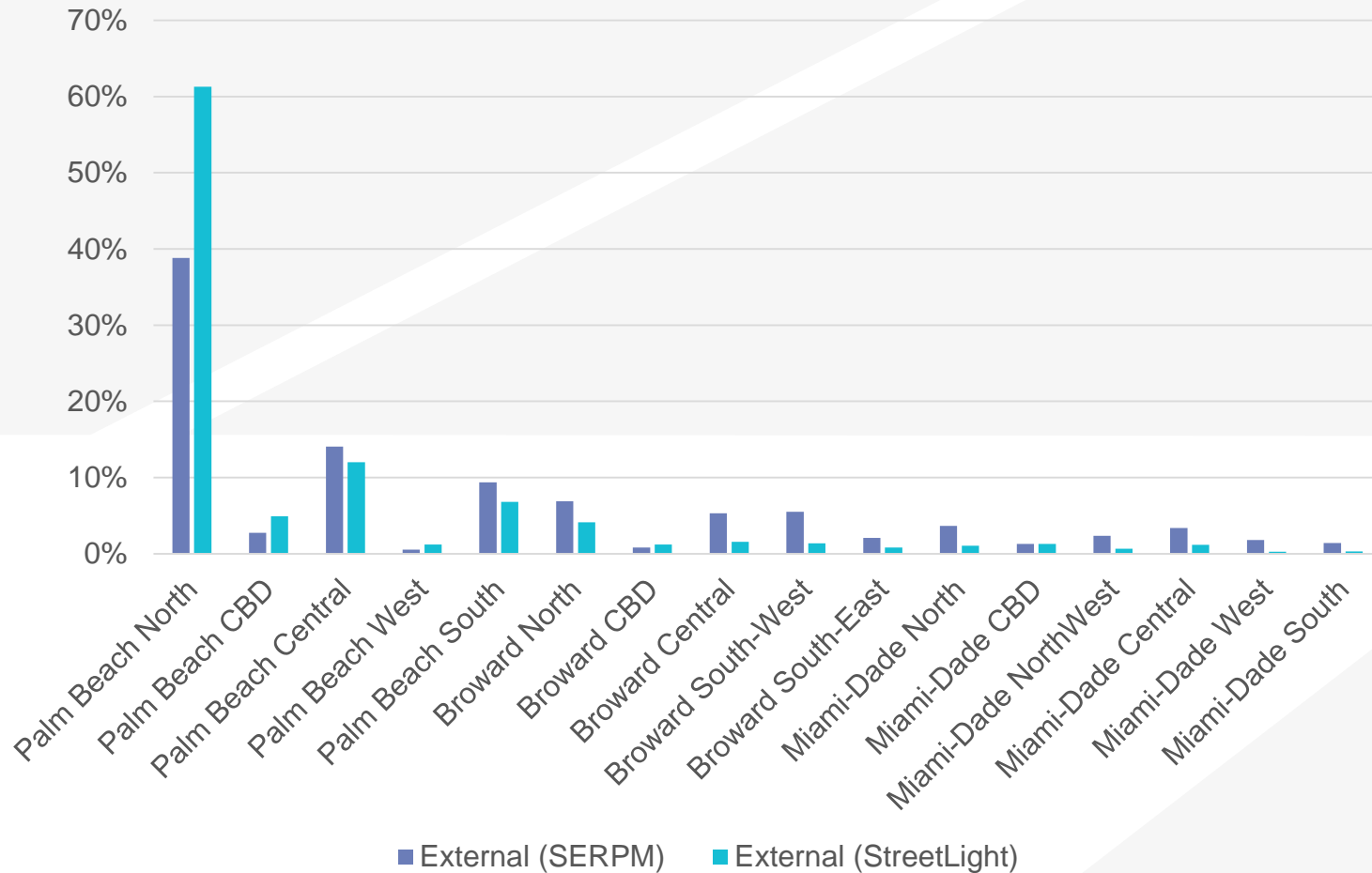- Miami-Dade South

CAMBRIDGE SYSTEMATICS
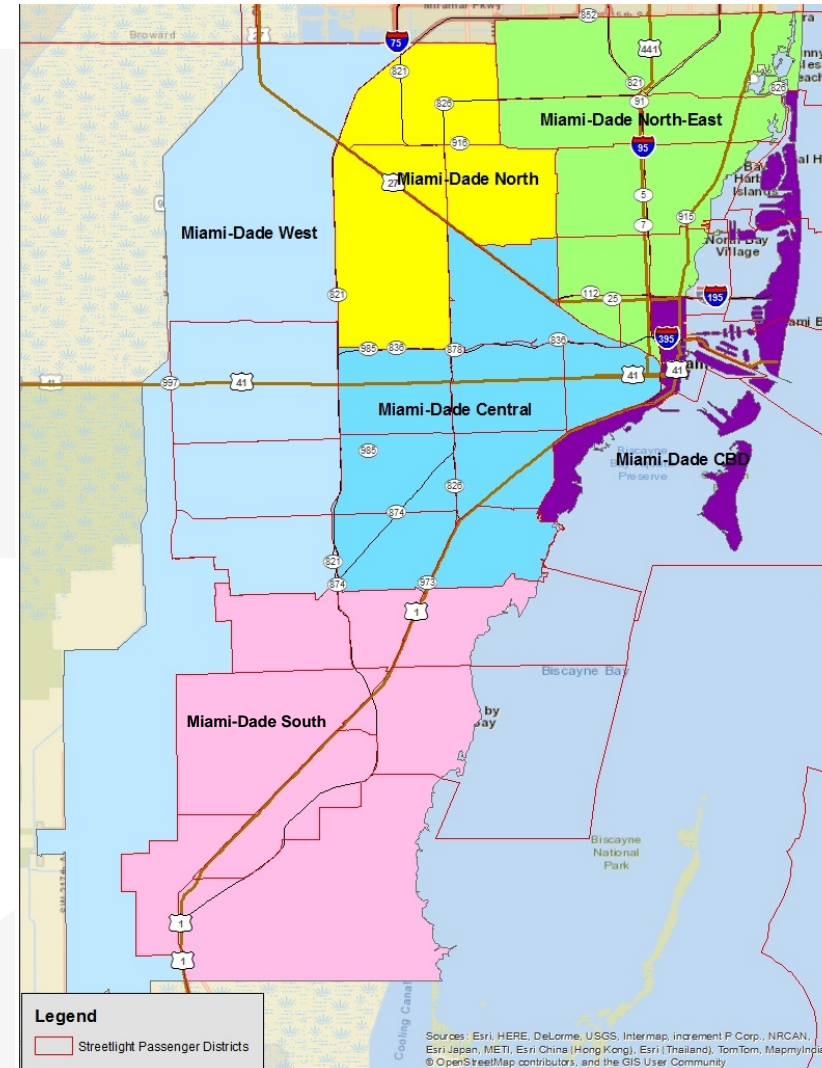
Middle Filters

External Station Splits

➤ External – External vs. EI / IE splits cannot be identified

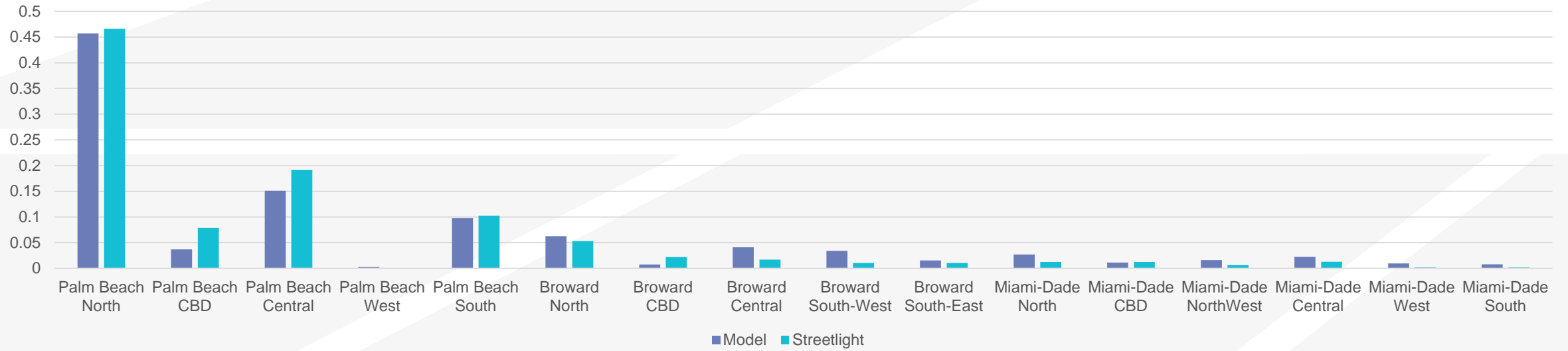➤ Middle-Filters only identify trips to zones

» Not all external areas are zones
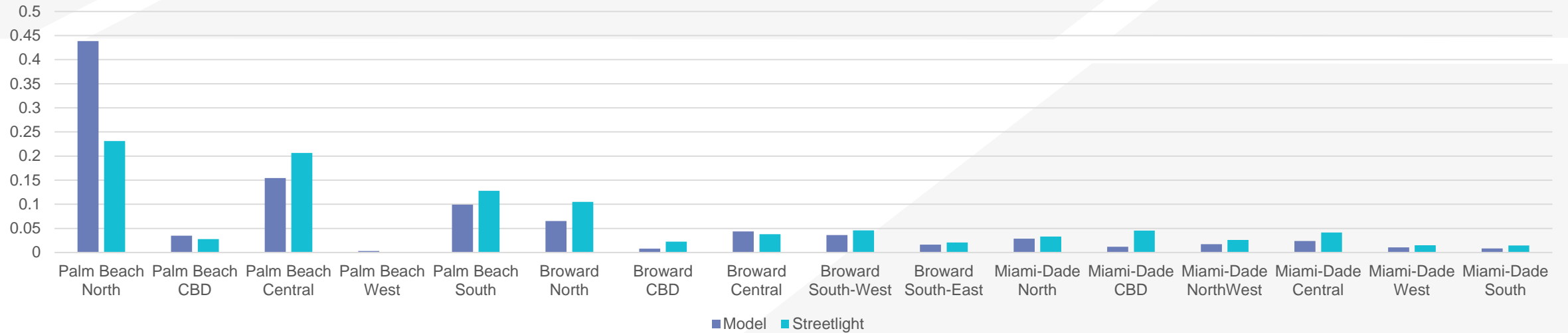
CAMBRIDGE SYSTEMATICS

External Person Trip Distribution

External Person Trip Distribution

ROAD	2010 AADT2WAY	2015 AADT2WAY	% Change
A1A/Beach Rd Martin County	2350	2230	-5%
US-1 Martin County	27500	23540	-17%
I-95 - Martin County	66000	70400	6%
FL TPK - Martin County	40522	41700	3%
An Access to Martin County	2000	2000	0%
Pratt-Whitney Rd Martin Co	2900	4140	30%
BeeLine Hwy(SR710)-Martin	6500	7130	9%
US 98/SR 15 North	4600	4340	-6%
US 27/SR 80 North	13100	13100	0%
I75 North Collier County	19400	25500	24%
US41/SR90 Collier County	5700	5950	4%
US1/SR5-Monroe County	16100	16100	0%
Card Sound Rd-Monroe Count	3300	3300	0%

■ External (SERPM) ■ External (StreetLight)

CAMBRIDGE SYSTEMATICS

I-95

Turnpike

CAMBRIDGE SYSTEMATICS

I-75

US - 1 (South)

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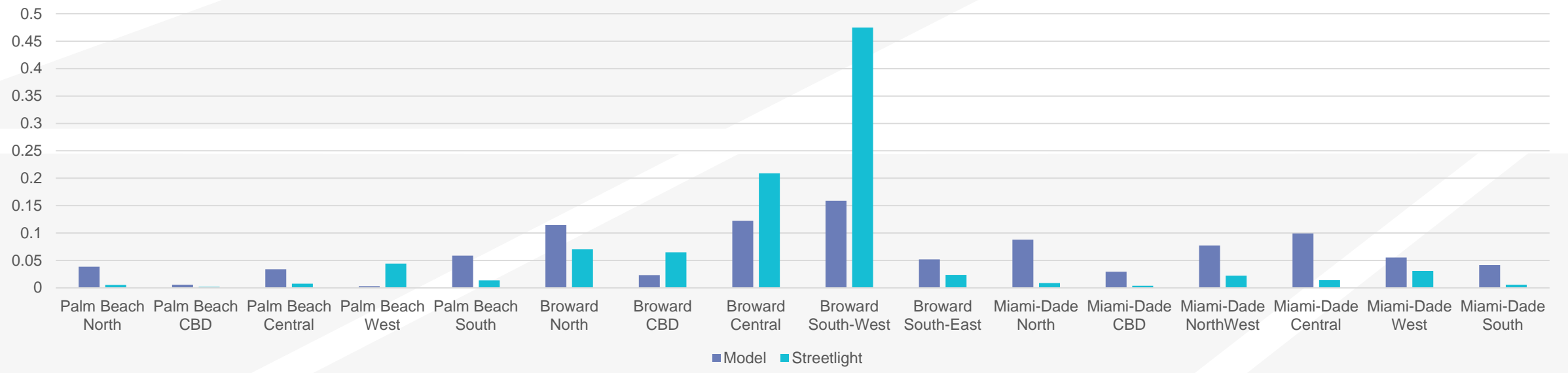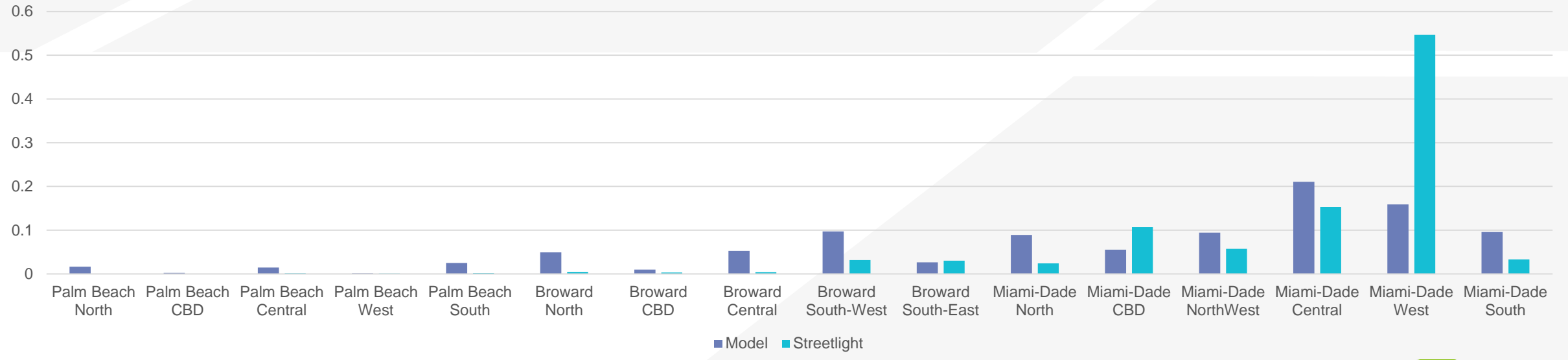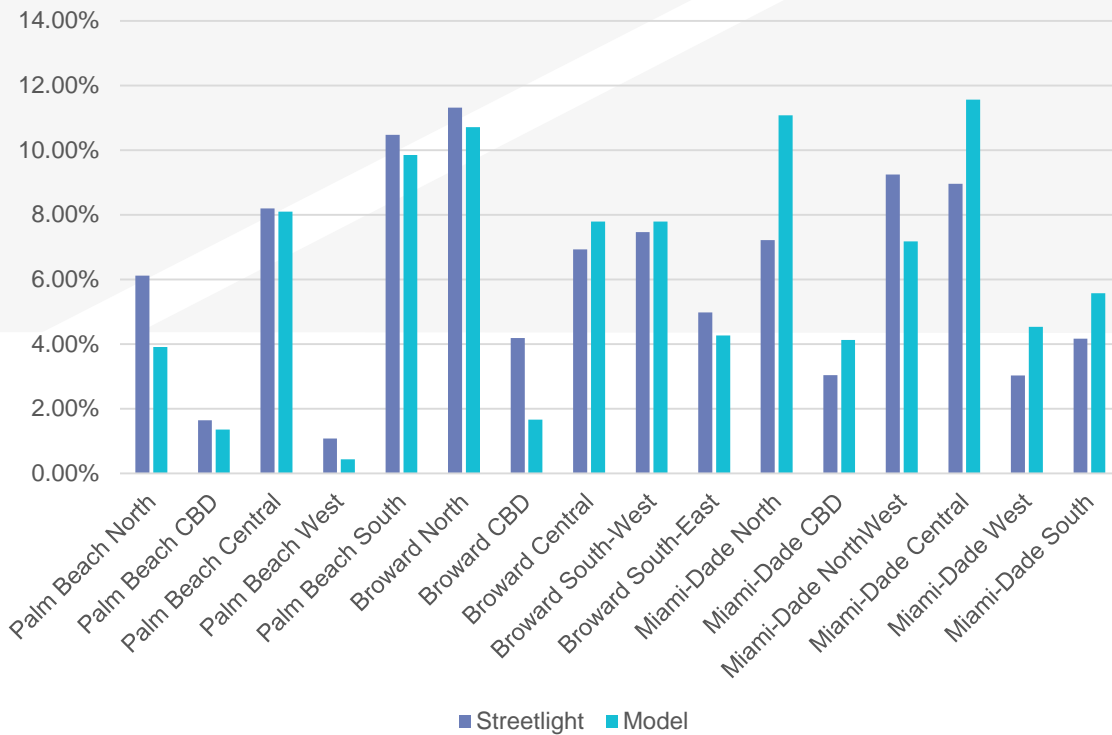
Internal Medium Truck Distributions

Truck Origin Share

Truck Destination Share

CAMBRIDGE SYSTEMATICS
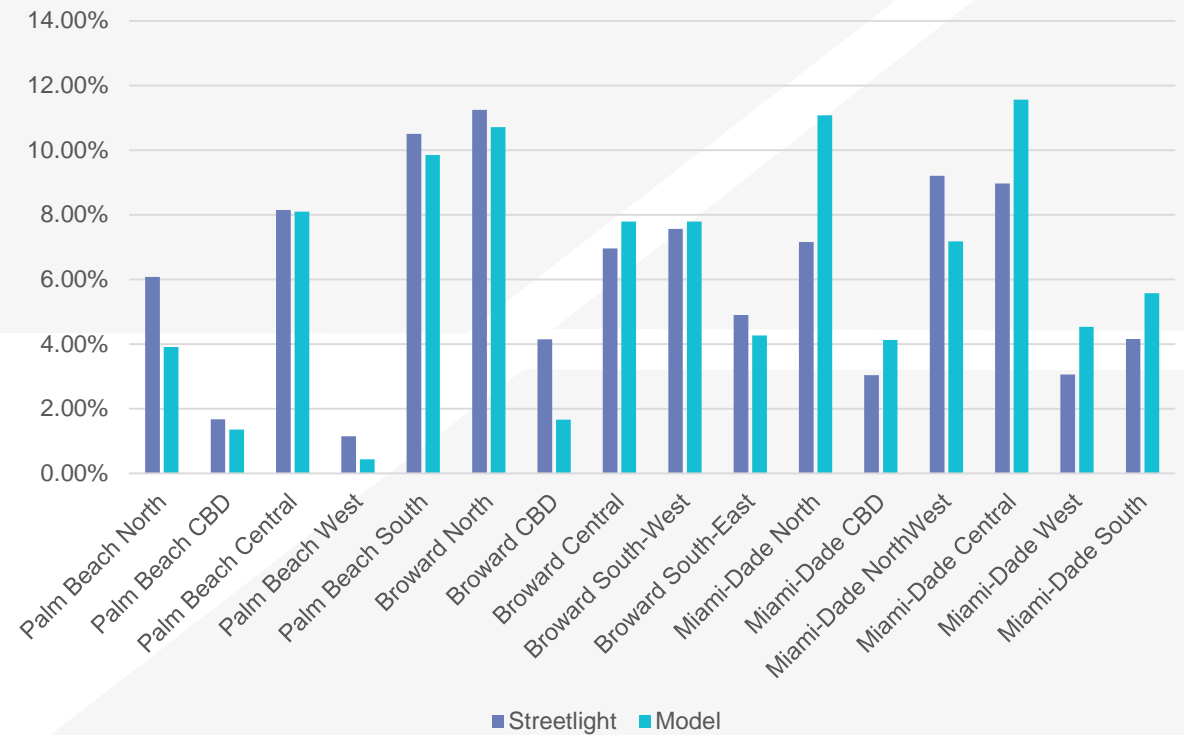
Internal Heavy Truck Distributions

Truck Origin Share

Truck Destination Share

CAMBRIDGE SYSTEMATICS
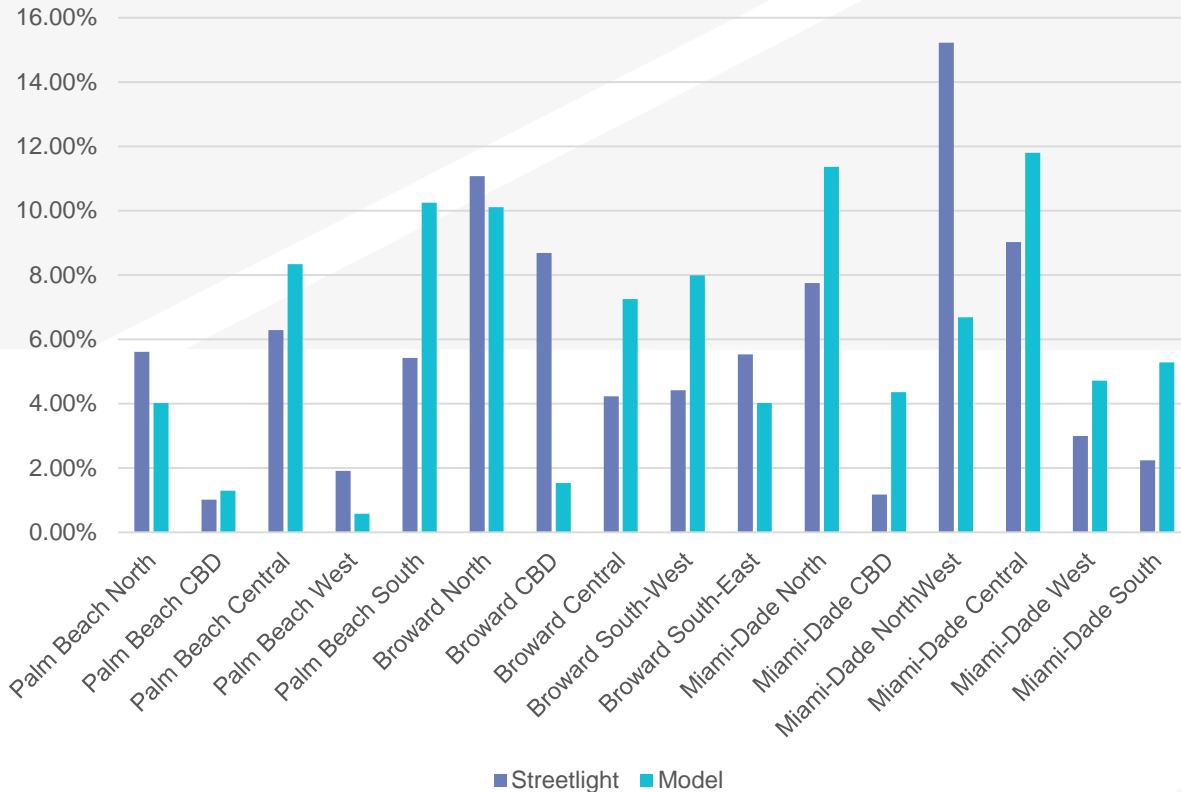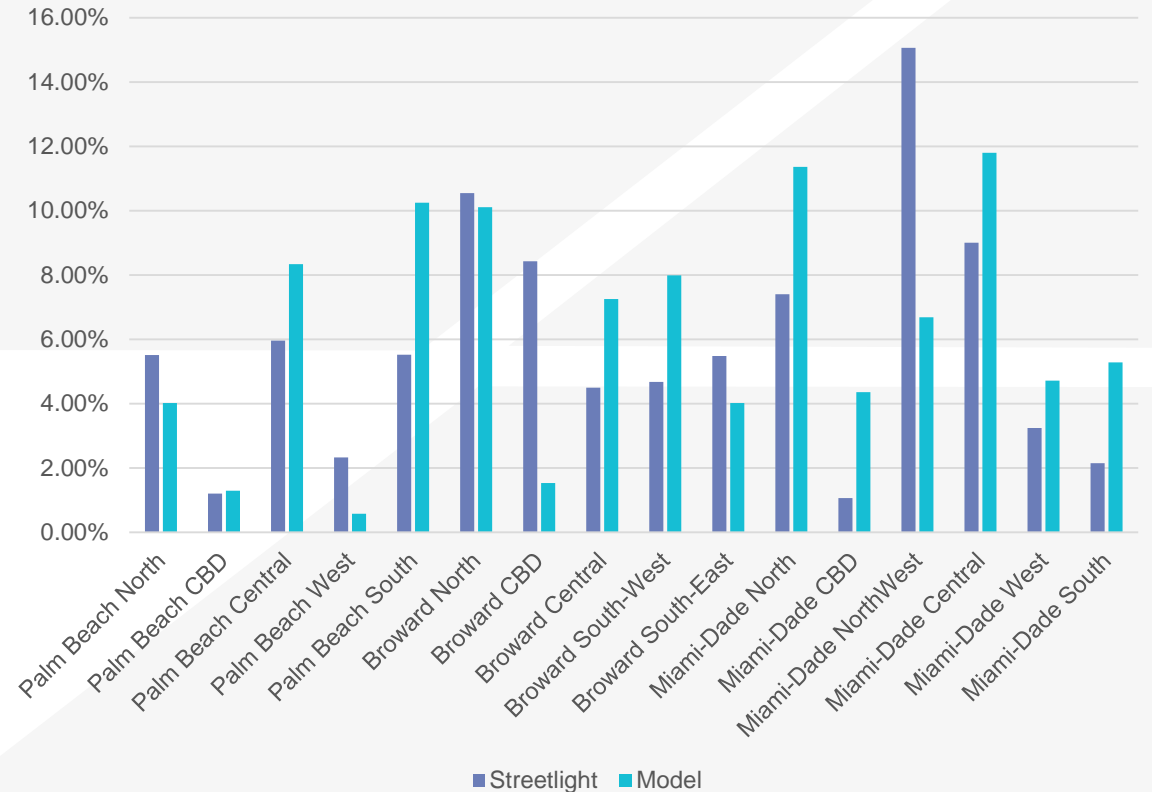
Recommendations

- **TOD**
  - » Utilize roadway count stations to update TOD

- **Airport**
  - » Calibrate time term to better fit super district distributions

- **EI**
  - » Confirm Turnpike EI distribution
    - ▪ Calibrate to Streetlight
  - » Calibrate I-75, US 1 EI distributions
  - » Recheck overall distribution by super district

- **Trucks**
  - » No changes for initial SERPM 8
  - » Distribution differences highlight need for a closer look at the freight/truck model

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