

Mode Choice Calibration

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- Use the HTS to get mode shares by trip purpose
- Check to make sure they make sense- sometimes there may not be enough records for meaningful numbers
- Example mode choice targets

	HBW	HBSCH	HBSH	HBU	HBO	WBO	OBO	Total
SOV	83%	38%	48%	46%	35%	83%	34%	50%
HOV2	8%	30%	32%	16%	34%	7%	31%	26%
HOV3+	3%	21%	14%	0%	16%	5%	25%	14%
Transit	1%	0%	0%	9%	0%	0%	0%	1%
Walk	3%	8%	4%	4%	12%	5%	8%	8%
Bike	2.4%	2.9%	0.7%	15.0%	3.3%	0.7%	1.4%	2.1%
Total	100%	100%	100%	91%	100%	100%	100%	100%

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- Assuming there are existing mode choice coefficients, check them for compliance with FTA guidelines
- To calibrate mode choice constants, there is typically a script in CUBE, TransCAD (or Fortran) that calibrates them automatically
- Once the constants and coefficients have been established, apply them to trip matrices from trip distribution

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- For example might end up with:
 - » Trip matrix for each trip purpose
 - Cores including SOV, HOV2, HOV3+, transit, bike, and walk
- Once the number of person trips by mode has been calculated, need to convert auto trips to vehicle instead of person trips
 - » Divide person trips by occupancy to get vehicle trips