



# Regional Transportation Model Phase II

2030 Model Presentation to the MPO Technical Committee  
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# Agenda

- Phase I Review
  - 2004 Calibrated Model
  - Approved Feb. 2<sup>nd</sup> by Officials Committee
- Phase II-Work In Progress
  - 2030 Model Overview
  - 2030 Landuse w/2004 Network (No-Build)
  - 2030 Landuse w/2025 Comp Plan Network
  - 2030 Landuse w/2030 Alternative Network
- Questions?





# Trip Generation

## ■ Lincoln MPO Total Person Trips

**TABLE 16. TOTAL TRIPS BY PURPOSE FOR BASE YEAR 2004**

Trip Purpose	Lincoln MPO	Percentage of Trips - Lincoln MPO	2030 Lincoln MPO
Home-based Work	204,025	13.8%	330,780
Home-based Shopping	302,640	20.5%	491,376
Home-based Social/Recreational	168,871	11.4%	273,253
Other Home-based	343,006	23.2%	556,094
Not Home-based	459,816	31.1%	745,453
<b>TOTAL</b>	<b>1,478,358</b>	<b>100.0%</b>	<b>2,396,956</b>

\*Source: National Household Travel Survey(2001), U.S. Department of Transportation, Bureau of Transportation Statistics

2030 - 2,396,956 Person Trips/Day





# Mode Split

## ■ Non-Auto Trips

**TABLE 18. PERCENTAGE OF NON-AUTO MODE TRIPS**

Trip Purpose	Percentage of Non-Auto Mode Trips
Home Based Work	6.0%
Home Based Shop	0.7%
Home Based Recreational	3.4%
Home Based Other	0.0%
Non Home Based	

**TABLE 19. NON-AUTO TRIPS BY PURPOSE**

Trip Purpose	Daily Non-Auto Trips	Percentage of Total Non-Auto Trips	2030 Daily Non-Auto Trips
Home-based Work	12,242	48.0%	19,429
Home-based Shopping	2,118	8.3%	3,360
Home-based Social/Recreational	5,742	22.5%	9,108
Other Home-based	3,087	12.2%	4,938
Non Home-based	2,299	9.0%	3,643
<b>TOTAL</b>	<b>25,488</b>	<b>100.0%</b>	<b>40,478</b>

2030 - 40,478 Person Trips/Day





# Mode Split

## ■ Vehicle Occupancy

**TABLE 20. VEHICLE OCCUPANCY RATES**

<b>Trip Purpose</b>	<b>Lincoln MPO Average Vehicle Occupancy (Persons)</b>	<b>West North Central*</b>
Home-based Work	1.18	1.11
Home-based Shopping	1.84	1.84
Home-based Social/Recreational	1.81	1.81
Other Home-based	1.75	1.75
Non Home-based	1.70	1.70
All	1.65	1.65

\*Source: National Household Travel Survey(2001), U.S. Department of Transportation, Bureau of Transportation Statistics





# Mode Split

## ■ Vehicle Trips by Purpose

**TABLE 21. VEHICLE TRIPS BY PURPOSE**

<b>Trip Purpose</b>	<b>Daily Vehicle Trips - Lincoln MPO</b>	<b>Percentage of Trips - Lincoln MPO</b>	<b>Percentage of Trips -West North Central*</b>
Home-based Work	179,026	19.7%	16.1%
Home-based Shopping	164,946	18.1%	22.7%
Home-based Social/Recreational	91,684	10.1%	9.8%
Other Home-based	206,283	22.7%	17.5%
Non Home-based	268,652	29.5%	33.9%
<b>TOTAL</b>	<b>910,591</b>	<b>100.0%</b>	<b>100.0%</b>

\*Source: National Household Travel Survey(2001), U.S. Department of Transportation, Bureau of Transportation Statistics

2030 - 1,481,717 Vehicle Trips/Day





# Model Runs Summary (Daily)

## ■ Work in Progress

LOS	2004 Calibrated Model		2030 Land Use on 2004 Network		2030 Land Use on 2025 Network		2030 LRTP Alternative Network	
	Mileage	% Distribution	Mileage	% Distribution	Mileage	% Distribution	Mileage	% Distribution
A	879.0	78.24	450.2	40.08	719.0	59.86	690.3	57.48
B	131.4	11.70	74.5	6.63	131.8	10.97	141.8	11.81
C	45.4	4.04	44.4	3.96	83.5	6.95	72.9	6.07
D	24.2	2.16	62.8	5.59	75.2	6.26	75.3	6.27
E	20.0	1.78	60.5	5.38	61.1	5.09	68.4	5.70
F	23.4	2.09	431.0	38.36	130.6	10.87	152.3	12.68
<b>Total</b>	<b>1,123.4</b>	<b>100.00</b>	<b>1,123.4</b>	<b>100.00</b>	<b>1,201.2</b>	<b>100.00</b>	<b>1,201.0</b>	<b>100.00</b>
FUNCLASS	2004 Calibrated Model		2030 Land Use on 2004 Network		2030 Land Use on 2025 Network		2030 LRTP Alternative Network	
	VMT	VHT	VMT	VHT	VMT	VHT	VMT	VHT
Collector	142,482	5,313	411,494	27,198	269,836	10,010	277,951	10,485
Interstate/freeway	770,415	12,105	1,482,206	56,443	2,094,787	37,886	2,158,421	39,276
Major Arterial	739,133	17,909	1,370,846	53,546	1,995,258	51,327	1,869,504	50,966
Major Collector County	113,908	2,097	567,436	14,432	212,433	3,967	238,485	4,468
Major Collector State	20,016	364	84,884	2,060	43,834	800	49,707	910
Minor Arterial	2,083,068	58,723	4,386,639	240,518	3,529,899	103,807	3,648,275	110,660
Minor Collector	9,455	191	45,486	1,812	22,049	453	22,044	452
Others	57,029	1,161	311,440	250,601	183,488	128,180	189,877	128,825
Principal Arterial (Div)	860,717	19,556	1,551,789	56,725	1,424,668	37,424	1,367,538	37,571
Ramps	69,717	2,168	117,592	4,663	143,447	4,613	148,231	4,785
<b>Total</b>	<b>4,865,940</b>	<b>119,587</b>	<b>10,329,812</b>	<b>707,998</b>	<b>9,919,699</b>	<b>378,467</b>	<b>9,970,033</b>	<b>388,398</b>
	Number of Veh. Trips	Ave. Trip Time (min)	Number of Veh. Trips	Ave. Trip Time (min)	Number of Veh. Trips	Ave. Trip Time (min)	Number of Veh. Trips	Ave. Trip Time (min)
	910,591	7.9	1,481,717	28.7	1,481,717	15.3	1,481,717	15.7





# Questions?

