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DES MOINES AREA MPO

Long-Range Transportation Plan Steering Committee

October 30, 2018

October 30, 2018 Agenda

1. Call to Order
2. VOTE: Approval of Agenda
3. VOTE: Approval of Meeting Minutes
4. REPORT and VOTE: Project Evaluation Criteria
5. REPORT: Growth Scenario Projections
6. REPORT: Planning Area Boundary
7. REPORT: Timeline and Upcoming Work Products
8. Other Non-Action Items of Interest to the Committee
9. Next Meeting Date – November 28, 2018– 3:30 p.m., Des Moines Area MPO Office
10. Adjournment

APPROVAL OF THE AGENDA

APPROVAL OF THE MEETING MINUTES

PROJECT EVALUATION CRITERIA

GROWTH SCENARIO PROJECTIONS

STEPS TO DEVELOP THE 2050 GROWTH SCENARIO

1

Establish base-year population and employment data for MPO, subareas, and TAZs

2

Determine EMPLOYMENT growth allocations out to 2050 for each subarea following methodology used in The Tomorrow Plan

3

Determine POPULATION growth allocations out to 2050 for each subarea following methodology used in the Tomorrow Plan

4

Divide subarea control totals by jurisdictions based on an average allocation from The Tomorrow Plan's Scenarios 3 + 4

5

Community representatives worked with the MPO staff to assign their allocated growth using the Envision Tomorrow software

6

Allocated growth aggregated to TAZs for use in the travel demand model

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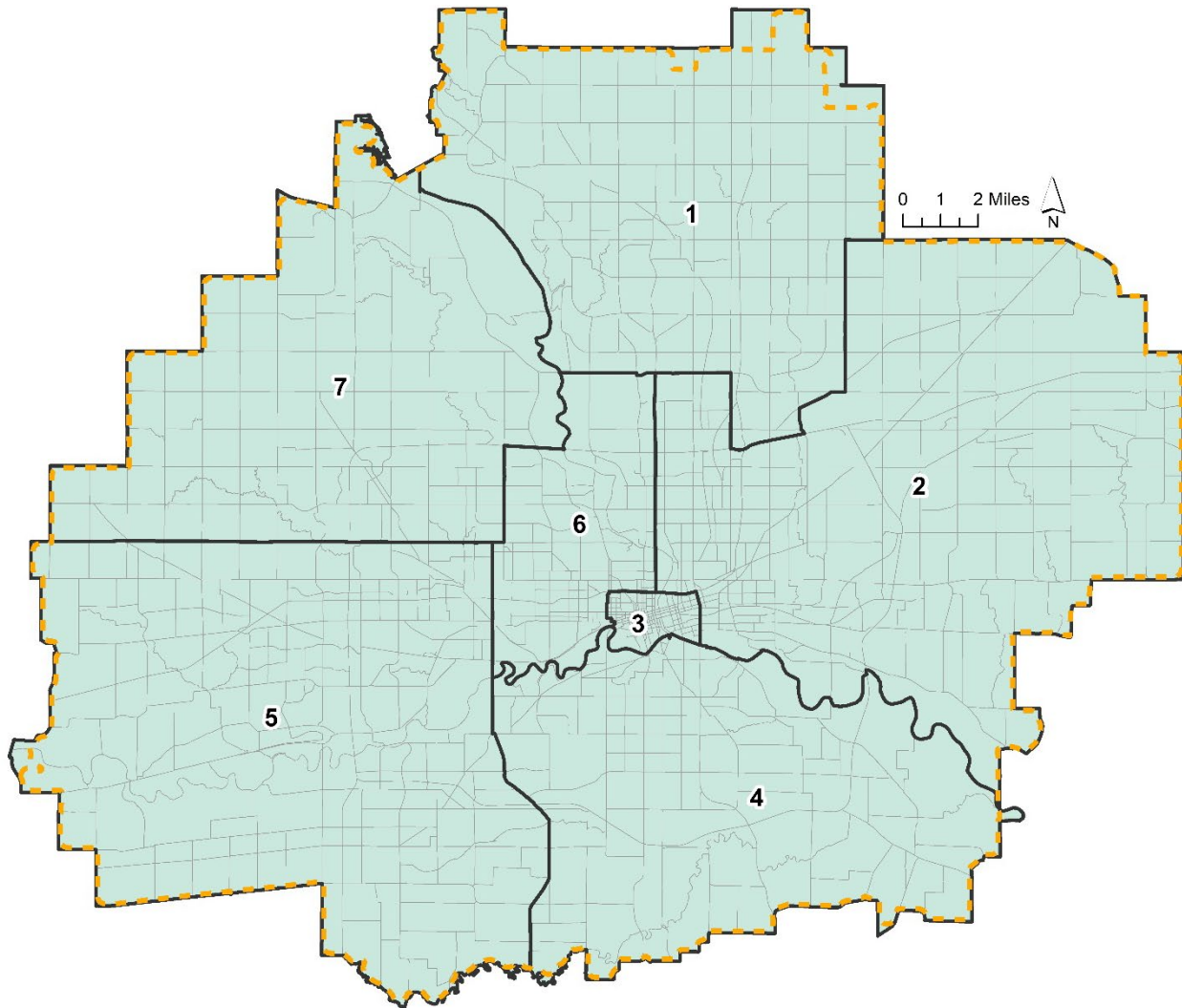
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Growth Scenario Steps

- Base housing Units/Employment from parcel file

Housing Units		
Subarea		Subarea Share
1 - North Suburbs	30,344	13%
2 - East DM	42,553	18%
3 - CBD	6,105	3%
4 - South DM	32,034	14%
5 - SW Suburbs	48,245	21%
6 - NW Des Moines	37,776	16%
7 - NW Suburbs	35,678	15%
Total	232,735	100%

Employment		
Subarea		Subarea Share
1 - North Suburbs	27,680	7%
2 - East DM	54,639	14%
3 - CBD	90,876	23%
4 - South DM	31,589	8%
5 - SW Suburbs	92,705	23%
6 - NW Des Moines	49,160	12%
7 - NW Suburbs	51,524	13%
Total	398,173	100%

Growth Scenario Projections



- Develop Housing/Employment numbers to feed into model
- Methodology that can be replicated in future updates
- Used Woods & Poole projections as a control check

Growth Scenario Projection – Housing/Population

	2000	2016	Growth Rate	16-YR Growth	2016 Base From Parcel File	Annual Growth	Adjustment 2030	Adjustment 2040
Altoona	3,959	6,374	3.02%	2,415	7,238	193		97
Ankeny	10,339	21,261	4.61%	10,922	25,516	980	644	323
Bondurant	682	1,693	5.85%	1,011	2,088	99	51	26
Carlisle	1,379	1,635	1.07%	256	1,689	17		
Clive	4,902	6,788	2.06%	1,886	7,041	140		103
Des Moines	85,067	90,437	0.38%	5,370	95,044	347		
Grimes	1,958	3,733	4.12%	1,775	5,127	154	113	57
Johnston	3,406	8,070	5.54%	4,664	8,347	447	244	122
Mitchellville	675	684	0.08%	9	767	1		
Norwalk	2,382	3,813	2.98%	1,431	4,461	114		58
Pleasant Hill	1,966	3,788	4.18%	1,822	3,984	158	115	57
Polk City	842	1,389	3.18%	547	1,779	44	42	21
Urbandale	11,869	17,066	2.30%	5,197	17,666	392		259
Waukee	2,087	6,470	7.33%	4,383	8,133	474	196	98
West Des Moines	20,815	28,298	1.94%	7,483	29,061	548		429
Windsor Heights	2,222	2,161	-0.17%	(61)	2,330	(4)		
Dallas County			0.87%		1,625	14		
Polk County			0.87%		9,453	82		
Warren County			0.87%		1,386	12		

Growth Scenario Projection – Housing/Population

	Average Growth Rate	2030-2039 Adjusted Rate	2040-2050 Adjusted Rate
Altoona	3.02%		1.52%
Ankeny	4.61%	3.03%	1.52%
Bondurant	5.85%	3.03%	1.52%
Carlisle	1.07%		
Clive	2.06%		1.52%
Des Moines	0.38%		
Grimes	4.12%	3.03%	1.52%
Johnston	5.54%	3.03%	1.52%
Mitchellville	0.08%		
Norwalk	2.98%		1.52%
Pleasant Hill	4.18%	3.03%	1.52%
Polk City	3.18%	3.03%	1.52%
Urbandale	2.30%		1.52%
Waukee	7.33%	3.03%	1.52%
West Des Moines	1.94%		1.52%
Windsor Heights	-0.17%		
Dallas County	0.87%		
Polk County	0.87%		
Warren County	0.87%		
Regional Average	3.03%		
Slow Growth Average	1.52%		

- Assumes that high growth communities can't sustain current levels
- Adjust growth in 2030 for high growth communities
- Adjust growth in 2040 for high and medium growth communities

Growth Scenario Projections



- Total Housing Units 2016 – 232,735
- Total Housing Units 2050 – 343,398
- Total Growth – 110,663

Growth Scenario Projection – Housing/Population

	Household Size	Vacant Units	2010 Units	Vacancy Rate
Altoona	2.64	243	5,702	4%
Ankeny	2.58	906	18,339	5%
Bondurant	2.83	60	1,422	4%
Carlisle	2.57	50	1,524	3%
Clive	2.68	323	6,077	5%
Des Moines	2.43	7,360	88,729	8%
Grimes	2.65	157	3,272	5%
Johnston	2.67	249	6,618	4%
Mitchellville	2.53	42	693	6%
Norwalk	2.7	189	3,450	5%
Pleasant Hill	2.57	192	3,587	5%
Polk City	2.73	44	1,276	3%
Urbandale	2.52	723	16,319	4%
Waukee	2.67	224	5,378	4%
West Des Moines	2.32	1,908	26,219	7%
Windsor Heights	2.24	122	2,289	5%
Region Average	2.58	12,792	190,894	7%

- Total Population 2016 – 543,219
- Total Population 2050 – 810,294
- Total Growth – 267,075
- Woods & Poole 2050 – 822,886

Growth Scenario Projection – Housing/Population

	2016 Base Year	2020	2030	2040	2050	Total Growth by Jusisdiction
Altoona	18,294	20,241	25,108	29,733	32,178	13,884
Ankeny	62,579	72,192	95,401	110,405	118,317	55,738
Bondurant	5,660	6,733	9,287	10,607	11,304	5,644
Carlisle	4,198	4,372	4,807	5,242	5,677	1,478
Clive	17,867	19,283	22,823	26,271	28,885	11,018
Des Moines	211,799	214,889	222,615	230,340	238,065	26,266
Grimes	12,935	14,485	18,258	20,968	22,397	9,463
Johnston	21,448	26,043	37,008	42,975	46,122	24,674
Mitchellville	1,823	1,828	1,842	1,855	1,869	46
Norwalk	11,385	12,546	15,450	18,211	19,688	8,303
Pleasant Hill	9,691	11,233	14,982	17,633	19,031	9,340
Polk City	4,689	5,155	6,313	7,366	7,922	3,233
Urbandale	42,546	46,320	55,756	64,871	71,108	28,562
Waukee	20,811	25,663	37,082	41,846	44,358	23,548
West Des Moines	62,515	67,234	79,032	90,573	99,810	37,295
Windsor Heights	4,941	4,909	4,830	4,750	4,670	(271)
Dallas County	3,916	4,052	4,392	4,731	5,071	1,154
Polk County	22,782	23,572	25,547	27,522	29,498	6,716
Warren County	3,340	3,456	3,746	4,035	4,325	985
Total	543,219	584,207	684,278	759,937	810,294	267,075

Growth Scenario Projection – Employment

	2016	2020	2025	2030	2035	2040	2045	2050	2016-2020	2021-2025	2026-2030	2031-2035	2036-2039	2041-2044	2046-2050
Polk	362,100	383,090	408,056	432,710	454,430	473,890	491,570	507,530	1.133%	1.271%	1.180%	0.984%	0.842%	0.735%	0.641%
Dallas	56,766	63,597	72,894	80,870	93,442	104,750	116,980	130,260	2.299%	2.766%	2.098%	2.932%	2.311%	2.233%	2.174%
Madison	6,974	7,220	7,501	7,742	7,940	8,100	8,237	8,356	0.696%	0.767%	0.634%	0.506%	0.400%	0.336%	0.287%
Warren	18,821	19,768	20,947	22,075	23,116	24,098	25,032	25,914	0.987%	1.165%	1.055%	0.926%	0.836%	0.763%	0.695%
Totals	444,661	473,675	509,398	543,397	578,928	610,838	641,819	672,060	1.272%	1.465%	1.301%	1.275%	1.079%	0.994%	0.925%
source: woods and poole									6.361%	7.324%	6.503%	6.374%	5.394%	4.972%	4.625%

Subarea	2016	2020	2025	2030	2035	2040	2045	2050
1	27,680	29,441	31,597	33,652	35,797	37,728	39,603	41,435
2	54,639	58,115	62,371	66,427	70,661	74,473	78,175	81,791
3	90,876	96,657	103,736	110,482	117,524	123,863	130,022	136,036
4	31,589	33,598	36,059	38,404	40,852	43,056	45,196	47,287
5	92,705	98,602	105,824	112,705	119,889	126,356	132,639	138,774
6	49,160	52,287	56,117	59,766	63,575	67,005	70,336	73,590
7	51,524	54,801	58,815	62,640	66,633	70,227	73,719	77,128

Growth Scenario Projections



- Total Employment 2016 – 398,173
- Total Employment 2050 – 596,041
- Total Employment Growth – 197,868

- Woods & Poole 2050 projection – 672,060
- Maintains around 89% of total 4-county jobs in MPO

Growth Scenario Projections

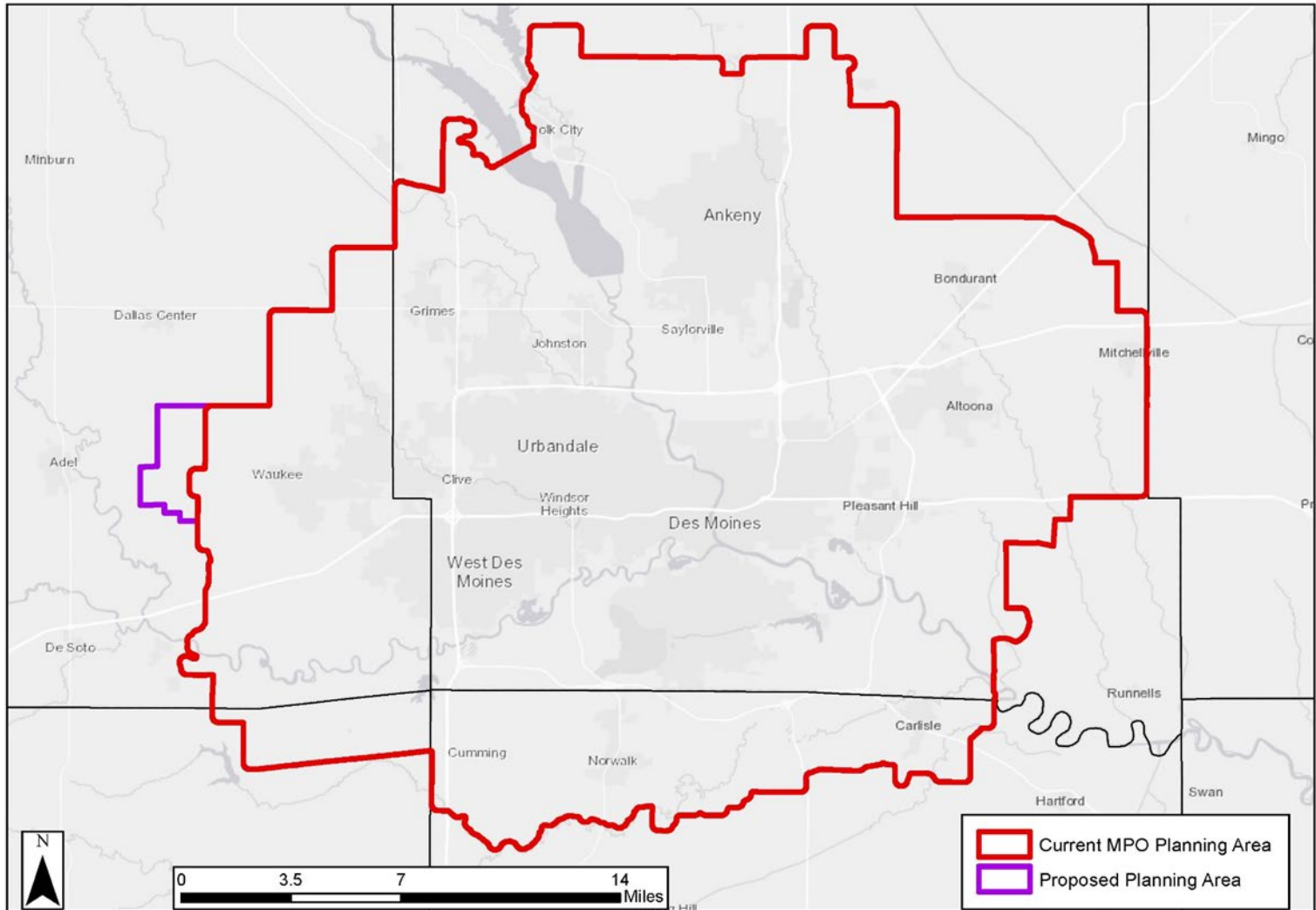
Subarea 1								
Jurisdiction	2016 Jobs	2020 Jobs	2025 Jobs	2030 Jobs	2035 Jobs	2040 Jobs	2045 Jobs	2050 Jobs
Subarea Total	27,680	29,441	31,597	33,652	35,797	37,728	39,603	41,435
Ankeny	24,152	25,688	27,570	29,363	31,234	32,919	34,556	36,154
% of Subarea	87%	87%	87%	87%	87%	87%	87%	87%
Polk City	832	885	950	1,011	1,076	1,134	1,190	1,245
% of Subarea	3%	3%	3%	3%	3%	3%	3%	3%
Polk County	2,696	2,867	3,078	3,278	3,487	3,675	3,857	4,036
% of Subarea	10%	10%	10%	10%	10%	10%	10%	10%

- Assumes that communities in subareas maintain existing share of jobs

Growth Scenario Projection – Employment

	2016 Base Year	2020	2030	2040	2050	Total Growth by Jusisdiction
Altoona	10,779	11,465	13,104	14,692	16,136	5,357
Ankeny	24,152	25,688	29,363	32,919	36,154	12,002
Bondurant	1,020	1,085	1,240	1,390	1,527	507
Carlisle	1,425	1,516	1,732	1,942	2,133	708
Clive	15,406	16,386	18,730	20,998	23,062	7,656
Des Moines	197,156	209,697	239,691	268,722	295,131	97,975
Grimes	5,565	5,919	6,766	7,585	8,330	2,765
Johnston	12,648	13,453	15,377	17,239	18,933	6,285
Mitchellville	632	672	768	861	946	314
Norwalk	2,341	2,490	2,846	3,191	3,504	1,163
Pleasant Hill	4,381	4,660	5,326	5,971	6,558	2,177
Polk City	832	885	1,011	1,134	1,245	413
Urbandale	28,048	29,832	34,099	38,229	41,986	13,938
Waukee	5,409	5,753	6,576	7,372	8,097	2,688
West Des Moines	67,946	72,268	82,605	92,610	101,711	33,765
Windsor Heights	3,441	3,660	4,183	4,690	5,151	1,710
Dallas County	452	481	550	616	677	225
Polk County	15,761	16,764	19,161	21,482	23,593	7,832
Warren County	779	829	947	1,062	1,166	387
Total	398,173	423,501	484,075	542,707	596,041	197,868

PLANNING AREA BOUNDARY



TIMELINE/UPCOMING WORK PRODUCTS

Timeline & Upcoming Deadlines



- November
 - Drafts for approval
 - Chapter – Investment Strategies
 - Appendix – Fiscal Analysis Methodology
- December
 - LRTP Projects due
 - Complete LRTP Project Scoring
 - Growth Scenario Meetings

Timeline & Upcoming Deadlines



- January
 - Drafts for Approval
 - Chapter: Goals/Targets/Spotlight Issues
 - Project List and Scores
- February
 - Final Growth Scenario

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