

Utah Department of Transportation

Transportation Commission Prioritization Review

Carlos Braceras, P.E., Executive Director
Meg Holbrook, Transportation Commissioner
May 20, 2015



Background

Adopted under S.B. 25, 2005 General Session

72-1-304. Written project prioritization process for new transportation capacity projects -- Rulemaking.

(1) The Transportation Commission, in consultation with the department and the metropolitan planning organizations as defined in Section 72-1-208.5, shall develop a written prioritization process for the prioritization of new transportation capacity projects that are or will be part of the state highway system under Chapter 4, Part 1, State Highways.

(2) The following shall be included in the written prioritization process under Subsection (1):

(a) a description of how the strategic initiatives of the department adopted under Section 72-1-211 are advanced by the written prioritization process;

(b) a definition of the type of projects to which the written prioritization process applies;

(c) specification of a weighted criteria system that is used to rank proposed projects and how it will be used to determine which projects will be prioritized;

(d) specification of the data that is necessary to apply the weighted ranking criteria; and

(e) any other provisions the commission considers appropriate.

(3) In developing the written prioritization process, the commission shall seek and consider public comment by holding public meetings at locations throughout the state; and

(b) may not consider local matching dollars as provided under Section 72-2-123 unless the state provides an equal opportunity to raise local matching dollars for state highway improvements within each county.

(4) In accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, the Transportation Commission, in consultation with the department, shall make rules establishing the written prioritization process under Subsection (1).

(5) The commission shall submit the proposed rules under this section to a committee or task force designated by the Legislative Management Committee for review prior to taking final action on the proposed rules or any proposed amendment to the rules described in Subsection (4).

Amended by Chapter 382, 2008 General Session

72-1-305. Project selection using the written prioritization process -- Public comment -- Report.

(1) Except as provided in Subsection (4), in determining priorities and funding levels of projects in the state transportation system under Subsection 72-1-303(1)(a) that are new transportation capacity projects, the commission shall use the weighted criteria system adopted in the written prioritization process under Section 72-1-304.

(2) Prior to finalizing priorities and funding levels of projects in the state transportation system, the commission shall conduct public hearings at locations around the state and accept public comments on:

(a) the written prioritization process;

- *“The Transportation Commission, in consultation with the department and the metropolitan planning organizations...shall develop a written prioritization process...”*
 - *Definitions*
 - *Weighted criteria*
 - *Data*
 - *Other provisions, as appropriate*

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R940. Transportation, Administration.

R940-6. Prioritization of New Transportation Capacity Projects.

R940-6-1. Definitions.

(1) "ADT" means average daily traffic, which is the volume of traffic on a road, annualized to a daily average.

(2) "Capacity" means the maximum hourly rate at which vehicles reasonably can be expected to traverse a point or a uniform section of a lane or roadway during a given time period under prevailing roadway, traffic, and control conditions.

(3) "Commission" means the Transportation Commission, which is created in Section 72-1-301.

(4) "Economic Development" may include such things as employment growth, employment retention, retail sales, tourism growth, freight movements, tax base increase, and traveler or user cost savings in relation to construction costs.

(5) "Functional Classification" means the description of the road as one of the following:

- (a) Rural Interstate;
- (b) Rural Other Principal Arterial;
- (c) Rural Minor Arterial;
- (d) Rural Major Collector;
- (e) Urban Interstate;
- (f) Urban Other Freeway and Expressway;
- (g) Urban Other Principal Arterial;
- (h) Urban Minor Arterial; or
- (i) Urban Collector.

(6) "Major New Capacity Project" means a transportation project that costs more than \$5,000,000 and accomplishes any of the following:

- (a) Add new roads and interchanges;
- (b) Add new lanes; or
- (c) Modify existing interchange(s) for capacity or economic development purpose.

(7) "Mobility" means the movement of people and goods.

(8) "MPO" as used in this section means metropolitan planning organization as defined in Section 72-1-208.5.

(9) "Safety" means an analysis of the current safety conditions of a transportation facility. It includes an analysis of crash rates and crash severity.

(10) "Strategic Goals" means the Utah Department of Transportation strategic goals.

(11) "Strategic Initiatives" means the implementation strategies the department will use to achieve the strategic goals.

(12) "Transportation Efficiency" is the roadway attributes such as ADT, truck ADT, volume to capacity ratio, roadway functional classification, and transportation growth.

(13) "Transportation Growth" means the projected percentage of average annual increase in ADT.

(14) "Truck ADT" means the ADT of truck traffic on a road, annualized to a daily average.

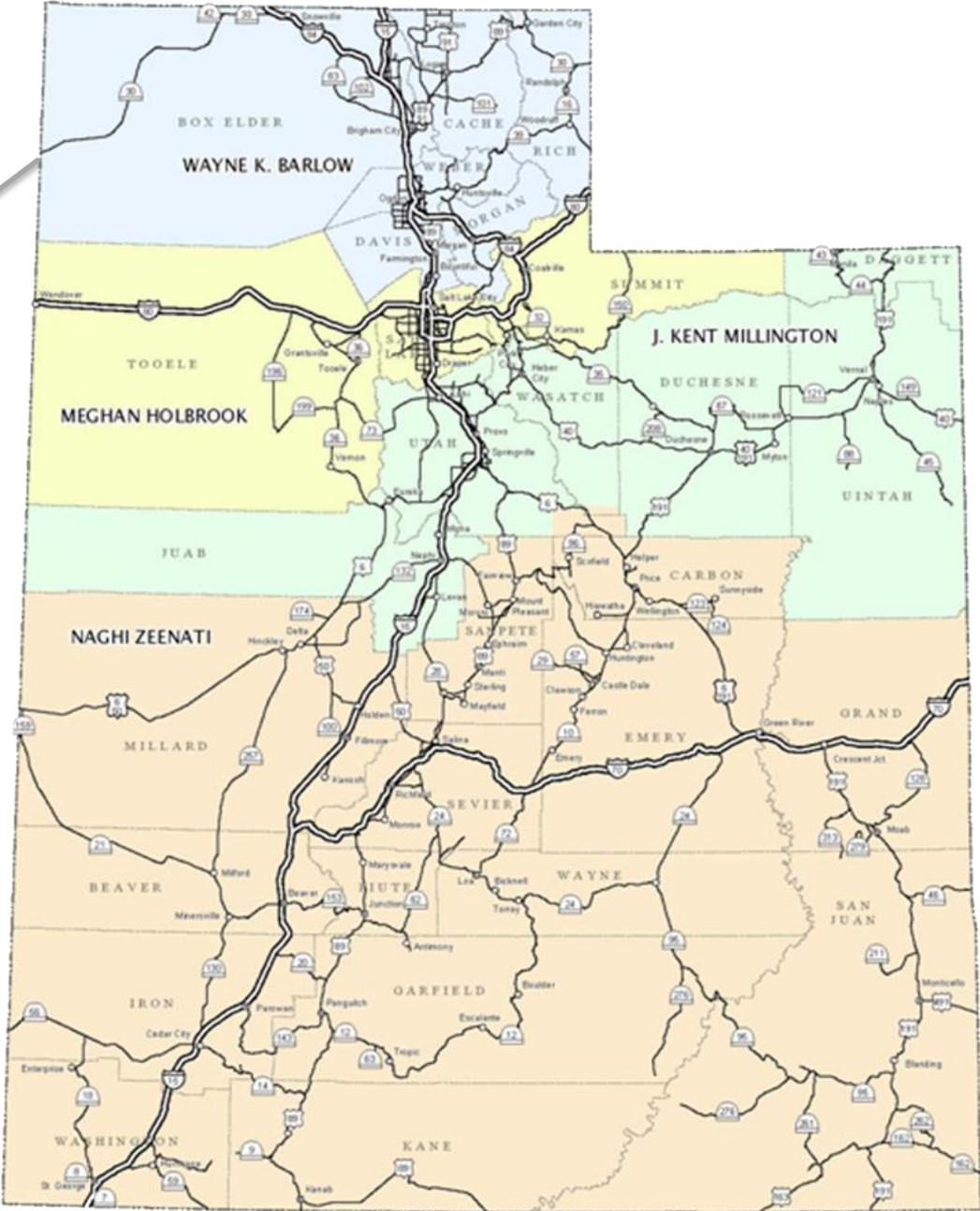
(15) "Volume to Capacity Ratio" means the ratio of hourly volume of traffic to capacity for a transportation facility (measure of congestion).

R940-6-2. Authority and Purpose.

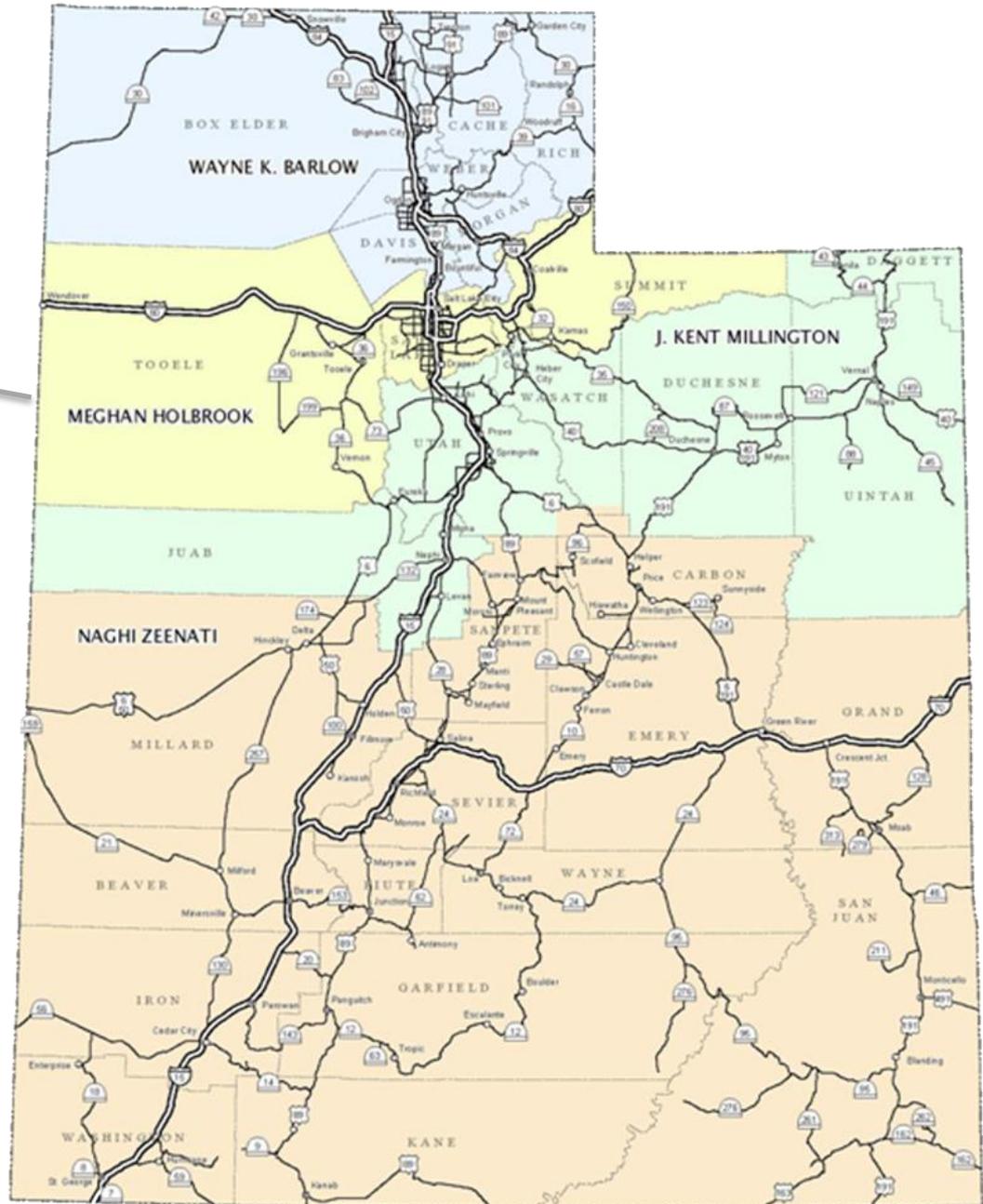
Rule R940-6



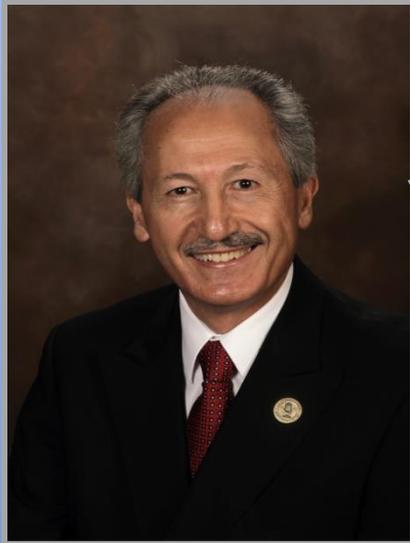
Wayne Barlow



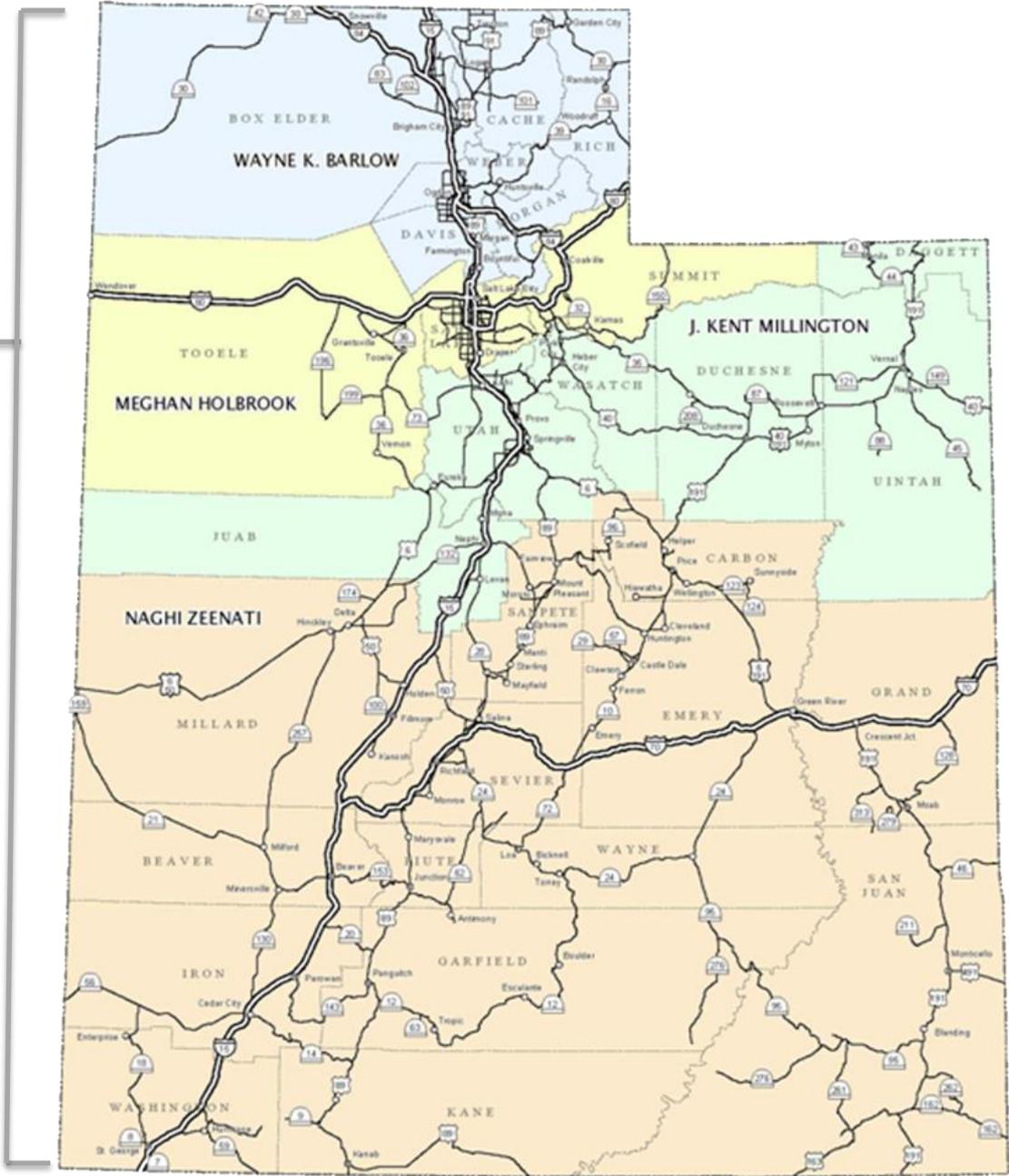
Meg Holbrook



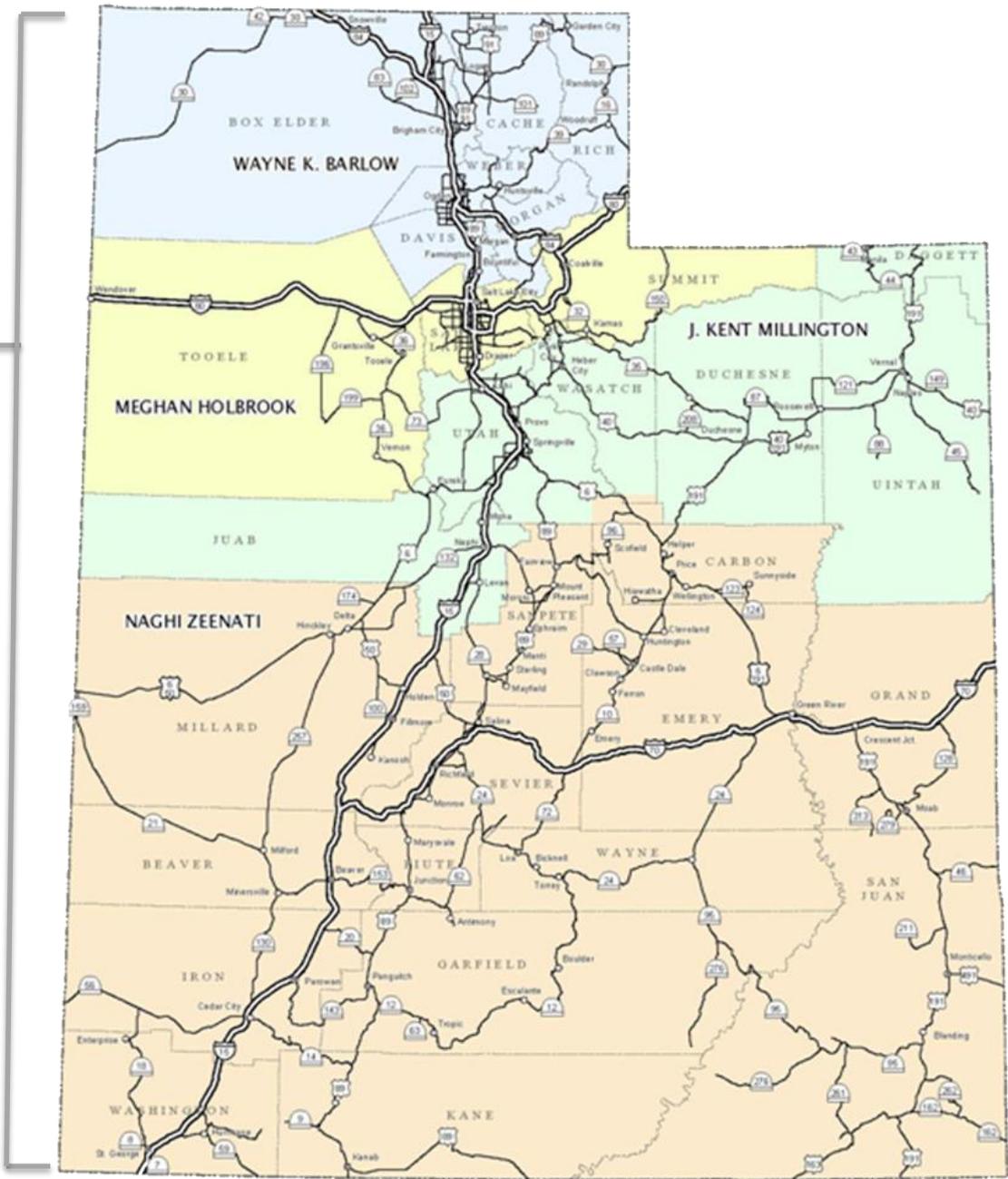
Naghi Zeenati



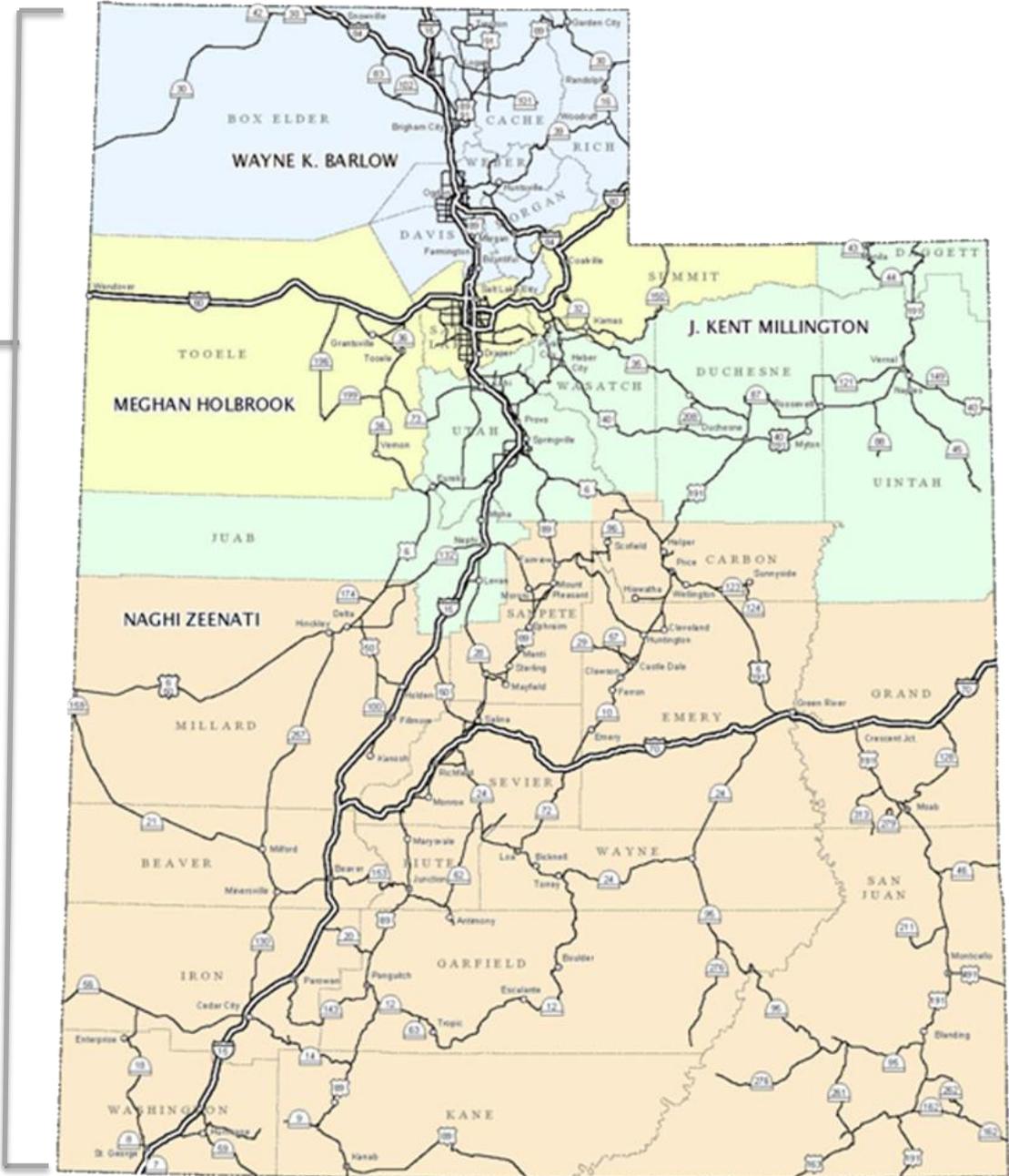
Jeff Holt



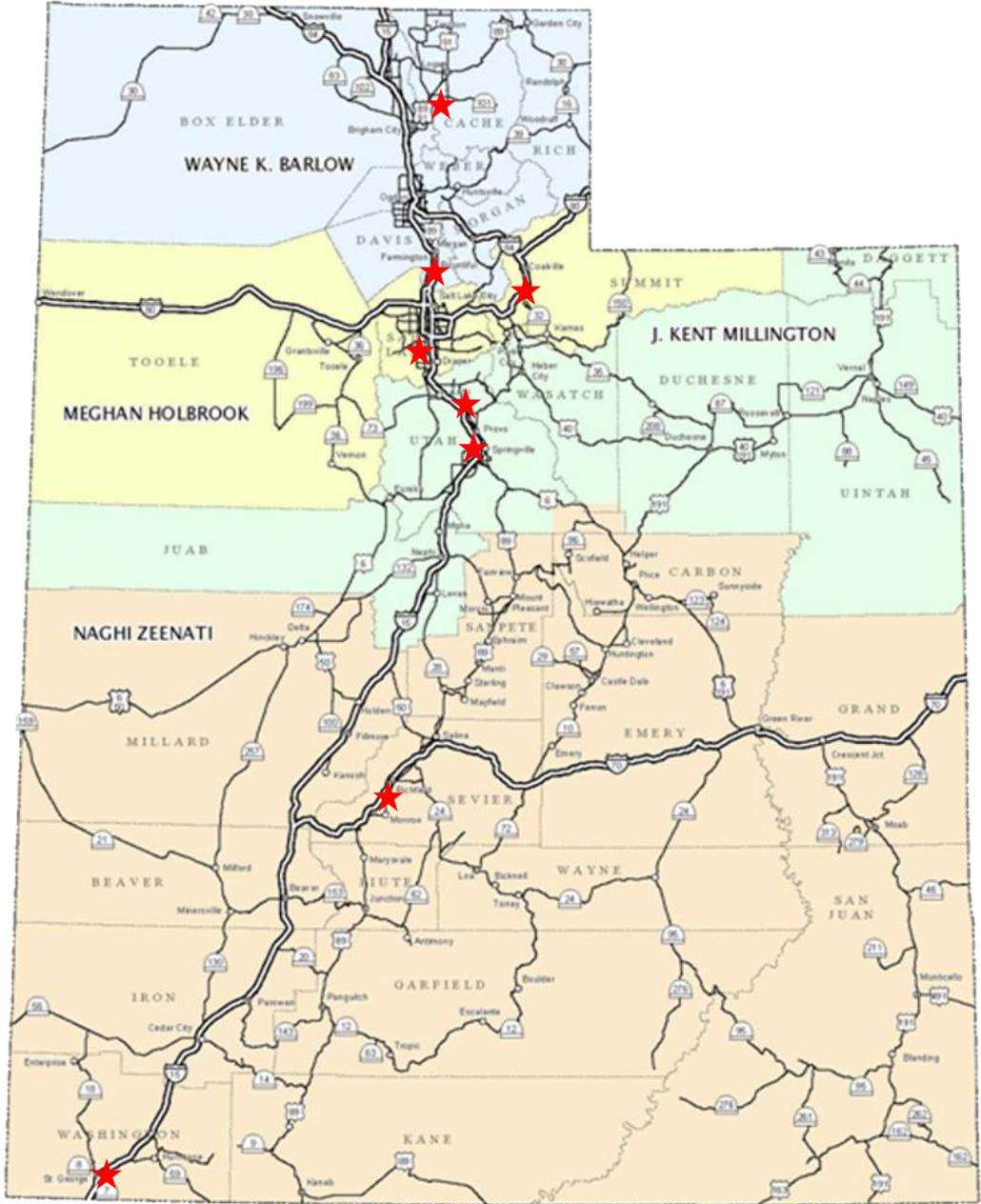
Gayle McKeachnie



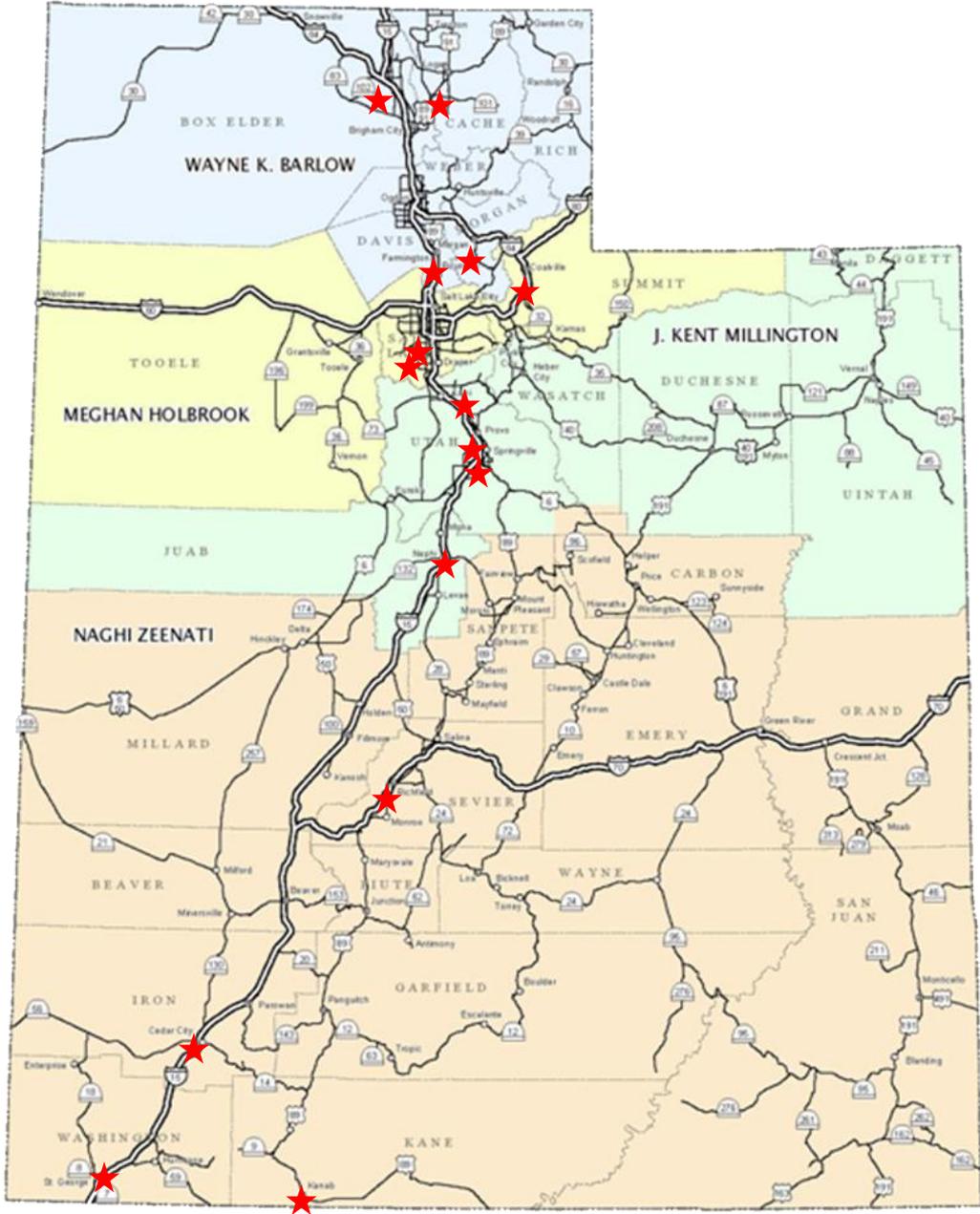
Dannie McConkie



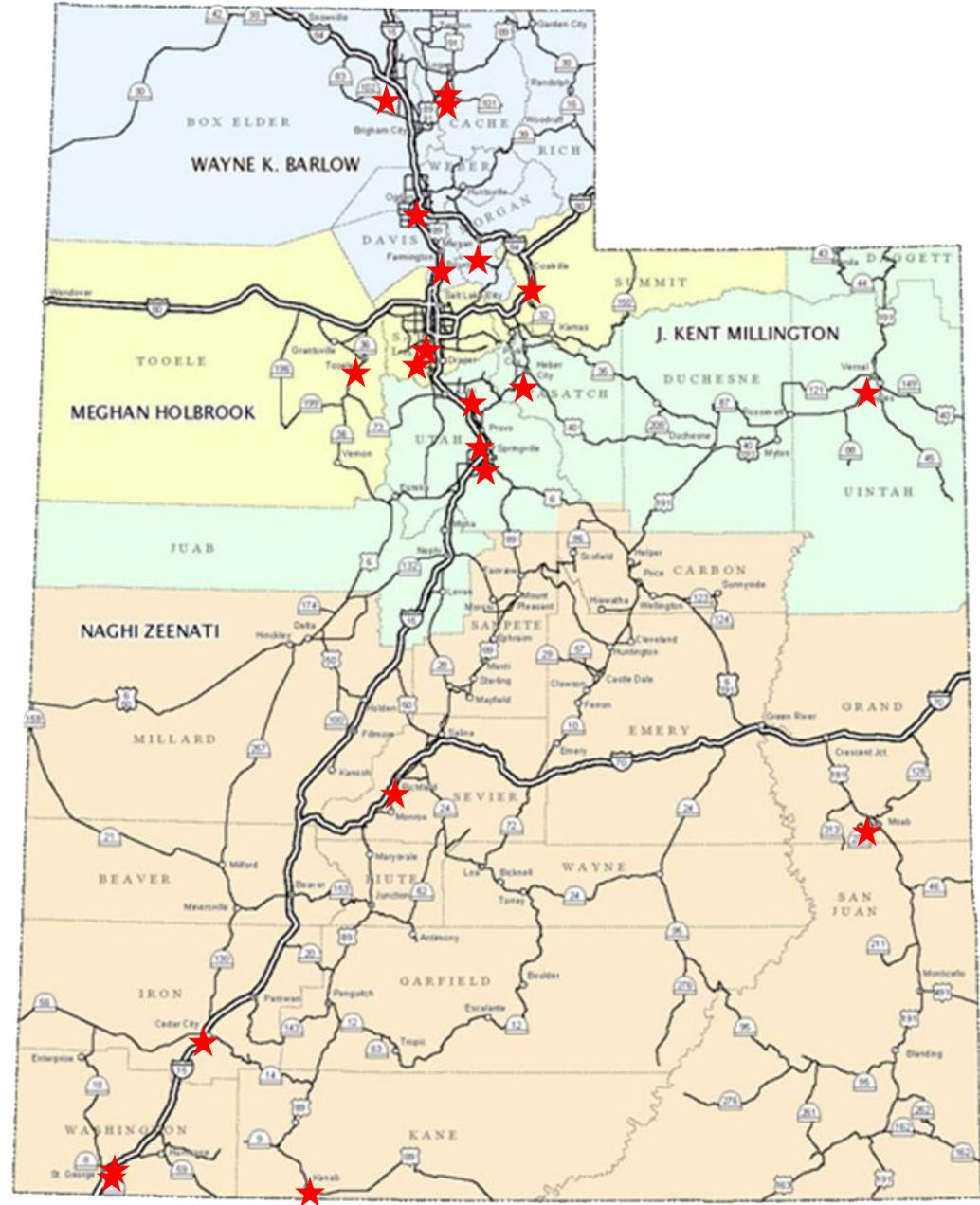
2011 Commission Meeting Locations



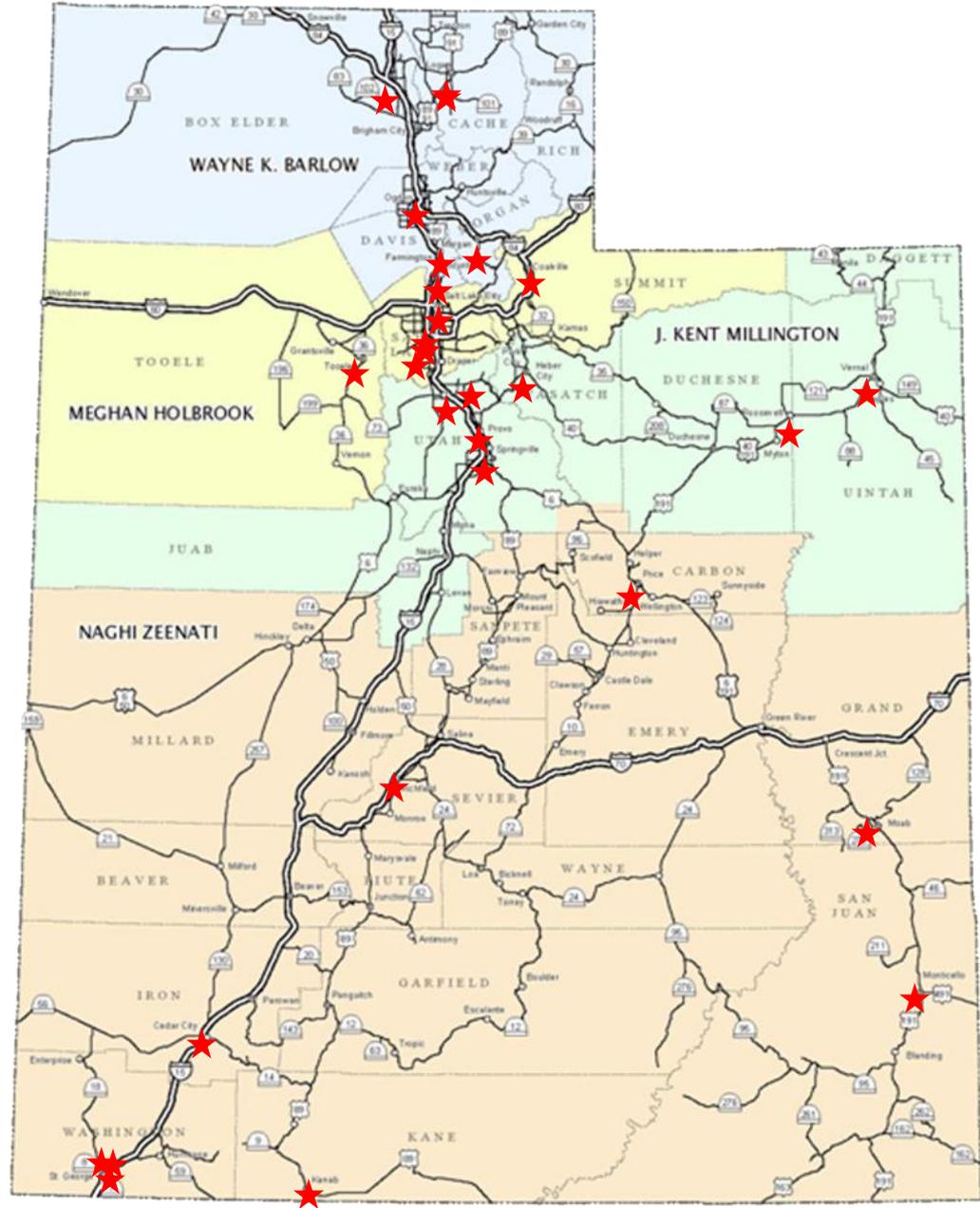
2011 - 2012 Commission Meeting Locations



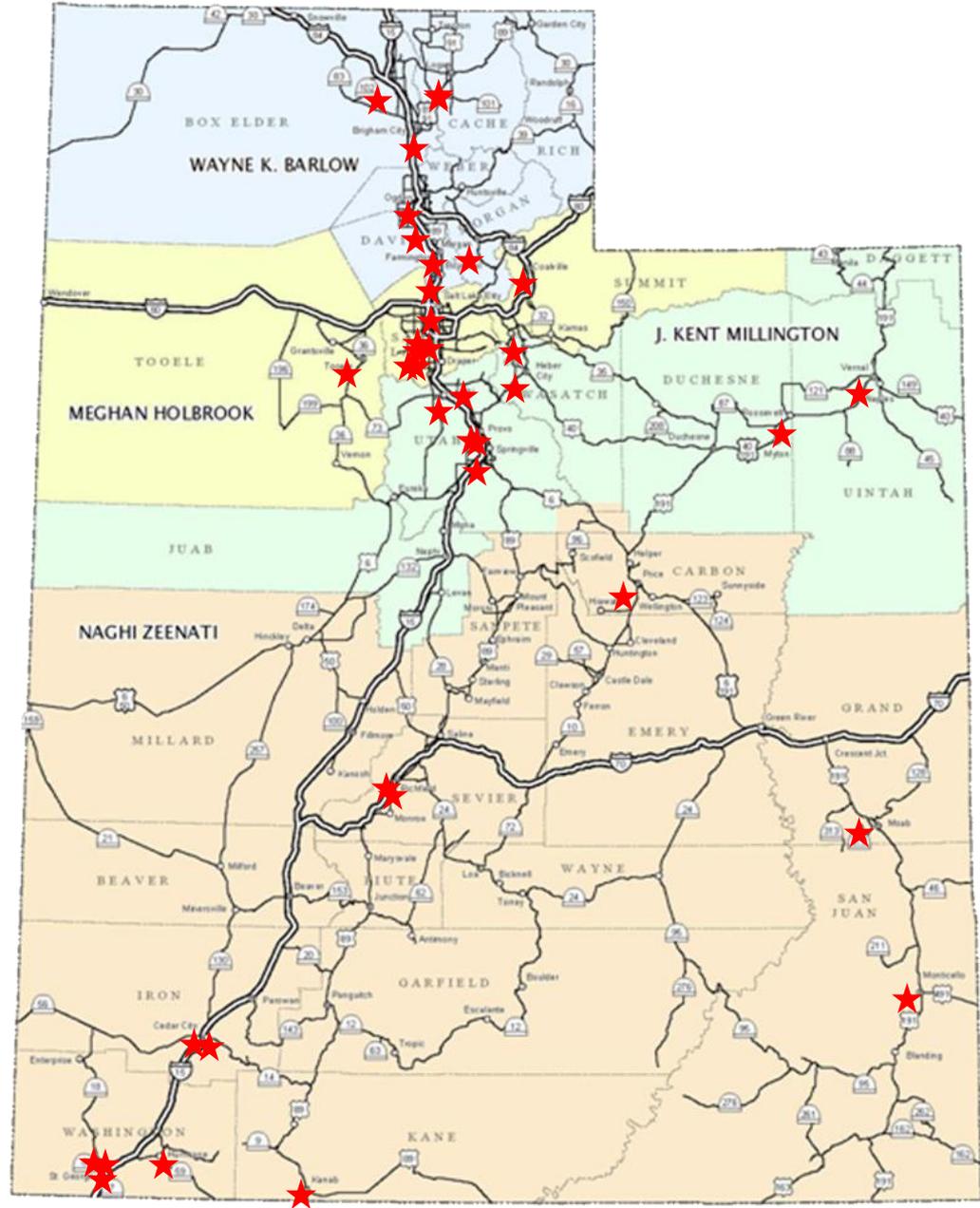
2011 - 2013 Commission Meeting Locations



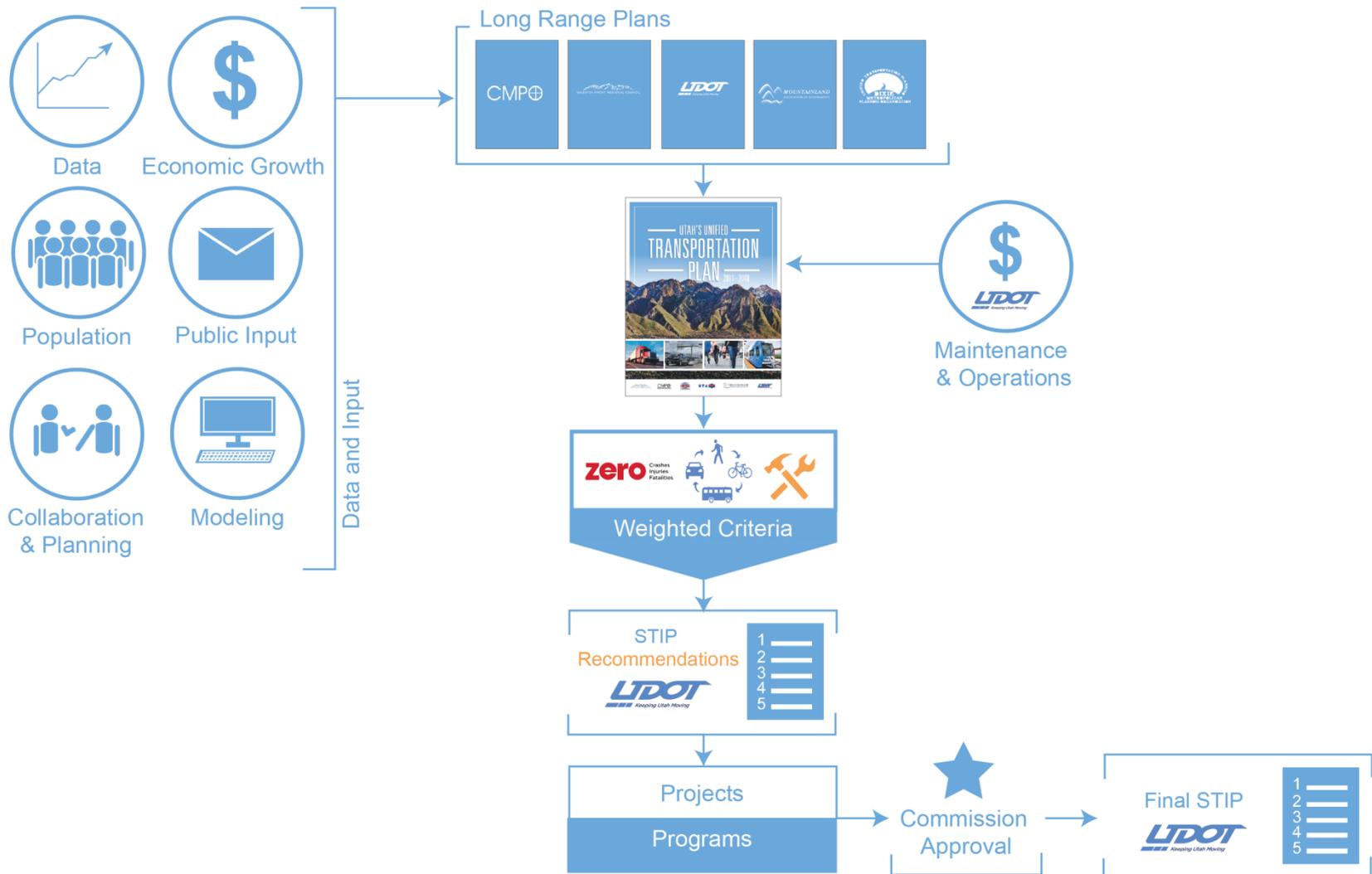
2011 - 2014 Commission Meeting Locations



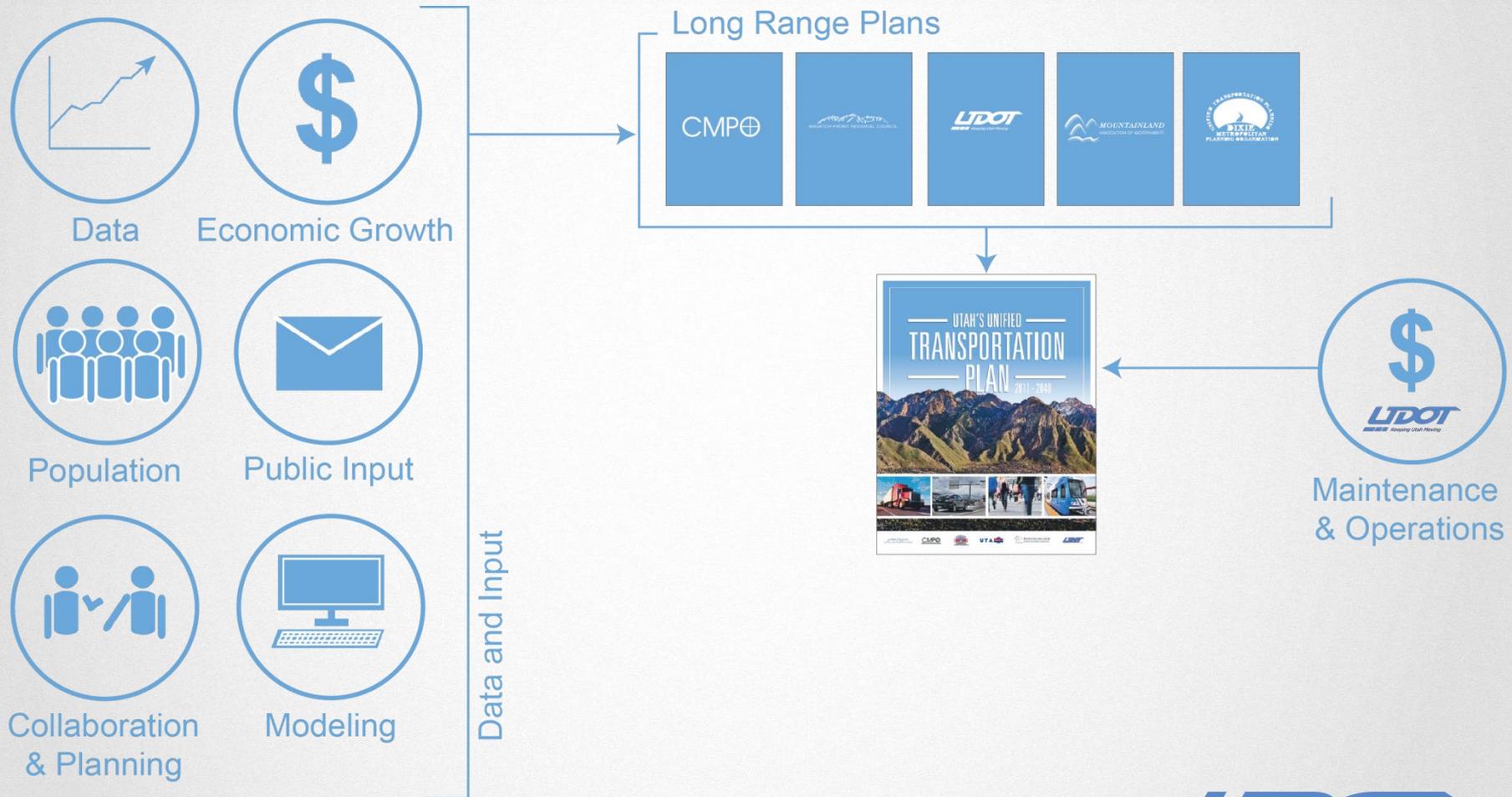
2011 - 2015 Commission Meeting Locations



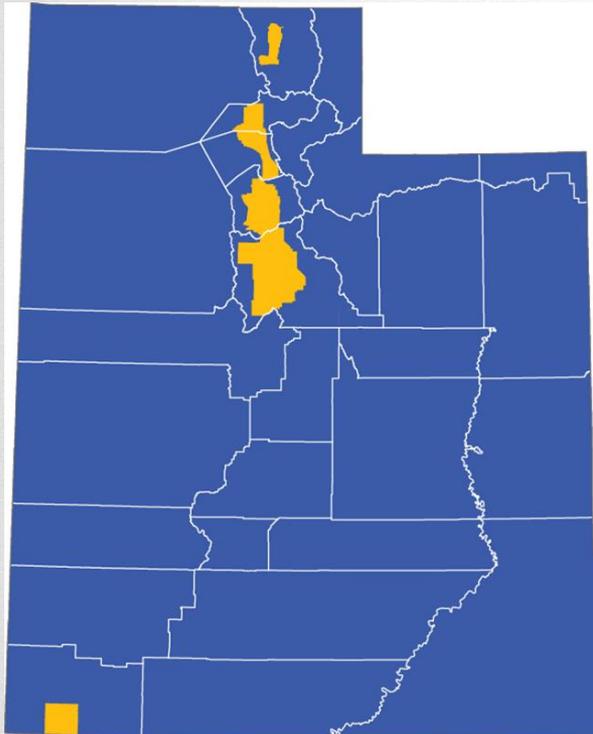
Overview



Data & Input for Planning



Unified Planning



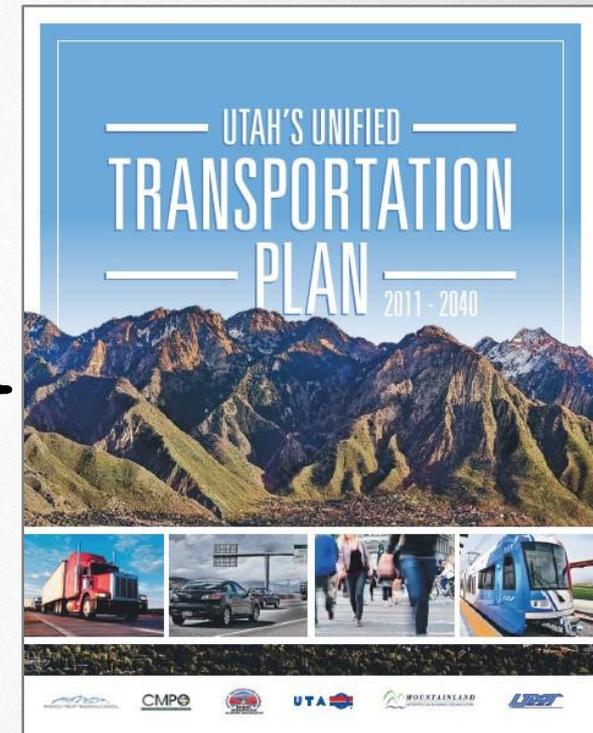
**UDOT Long Range Transportation
Plan 2011-2040**

**Cache MPO Regional Transportation
Plan 2011 -2035**

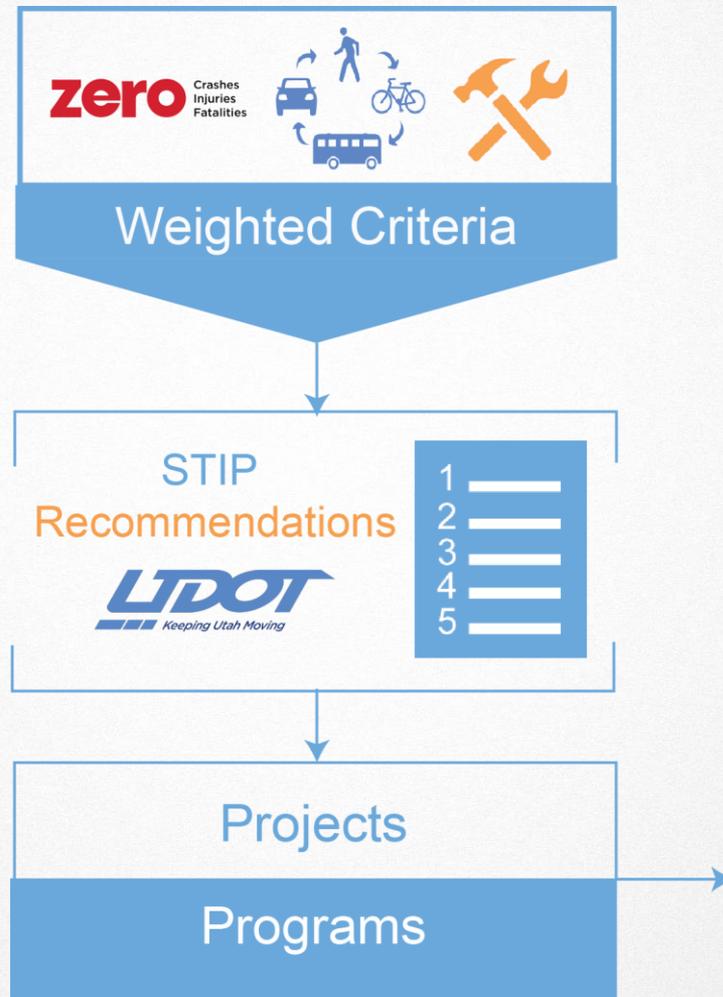
**Dixie MPO Regional Transportation
Plan 2011-2040**

**MAG Regional Transportation
Plan 2011-2040**

**WFRC Regional Transportation Plan
2011-2040**



Process for Ranking and Recommendations



Input - LRP, MPO's, JHC, UDOT, Public, Data

Strengthen Economy

**Zero Crashes,
Injuries & Fatalities**

- Safety Management System

**Optimize
Mobility**

- Traffic Demand Management
- Access Management
- Capacity Prioritization Process

**Preserve
Infrastructure**

- Asset Management

Projects

Statewide Transportation Improvement Program (STIP)

Input - LRP, MPO's, JHC, UDOT, Public, Data

Strengthen Economy

Zero Crashes,
Injuries & Fatalities



Optimize
Mobility



Preserve
Infrastructure



Projects - **Safety Improvements**

Statewide Transportation Improvement Program (STIP)

Input - LRP, MPO's, JHC, UDOT, Public, Data

Strengthen Economy

Zero Crashes,
Injuries & Fatalities



Optimize
Mobility



Preserve
Infrastructure



Projects - **ITS, Access, Capacity**

Statewide Transportation Improvement Program (STIP)

Input - LRP, MPO's, JHC, UDOT, Public, Data

Strengthen Economy

Zero Crashes,
Injuries & Fatalities



Optimize
Mobility



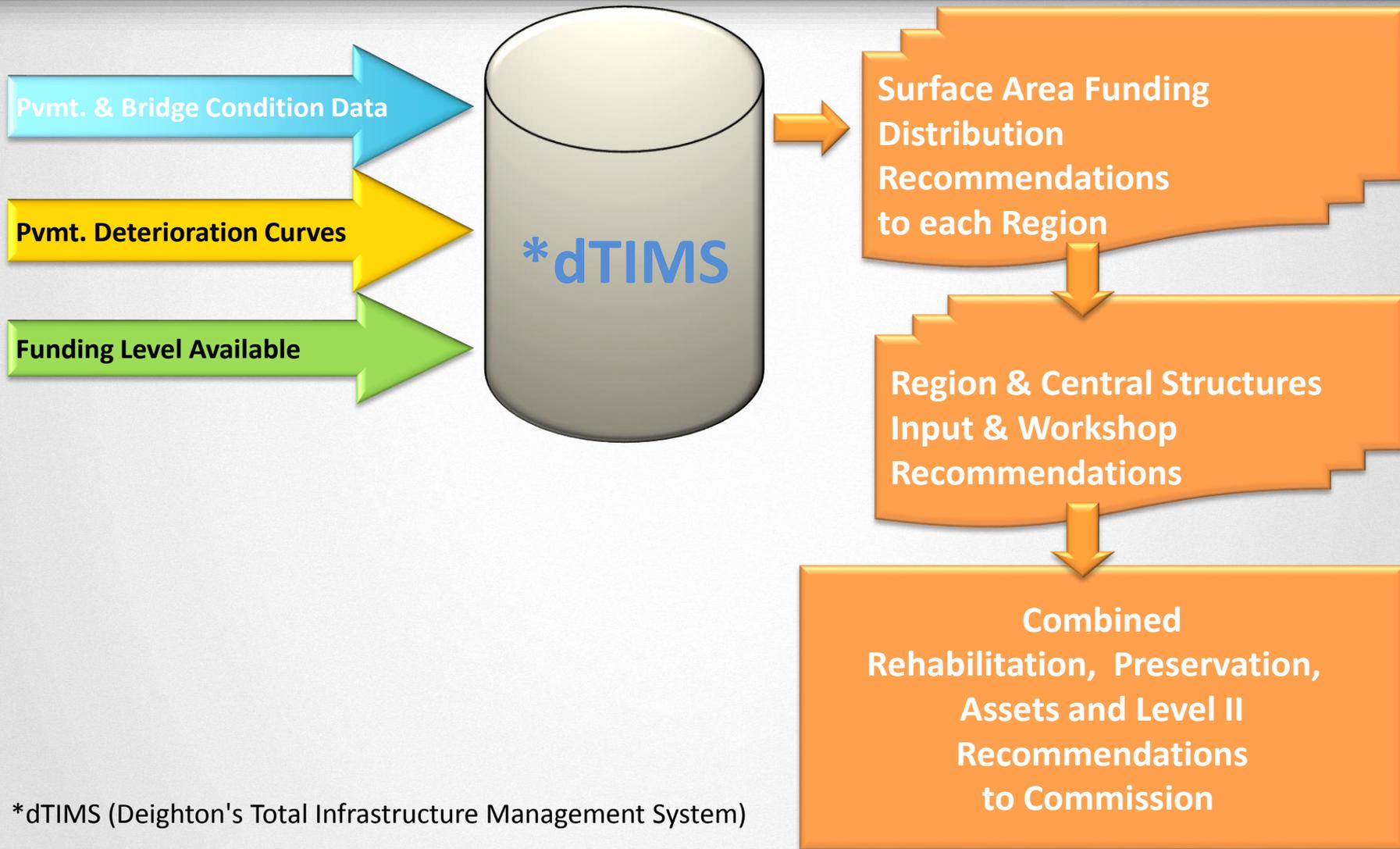
Preserve
Infrastructure



Projects - **Preservation, Rehabilitation, Reconstruction**

Statewide Transportation Improvement Program (STIP)

Preserve Infrastructure



*dTIMS (Deighton's Total Infrastructure Management System)

Capacity Prioritization Processes

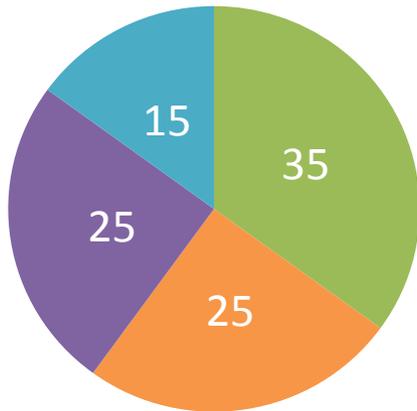
Types of Capacity Projects

- Widen Existing Facilities
- New Facilities
- Upgrade Existing At-Grade Intersection
- New Interchange on Existing Freeway
- Upgrade Existing Interchange
- Passing Lanes

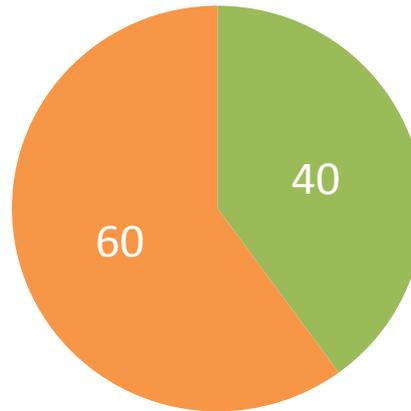
- Size/Magnitude
- Congestion
- Safety
- Other Scores

Weighted Criteria by Project Type

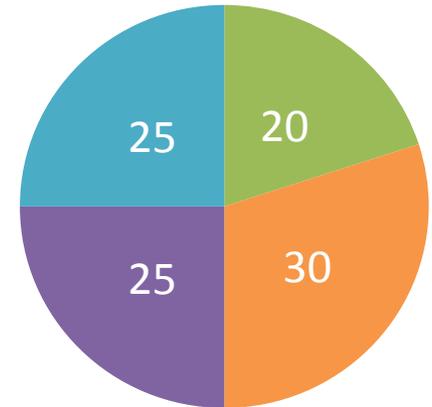
Widen Existing Facility



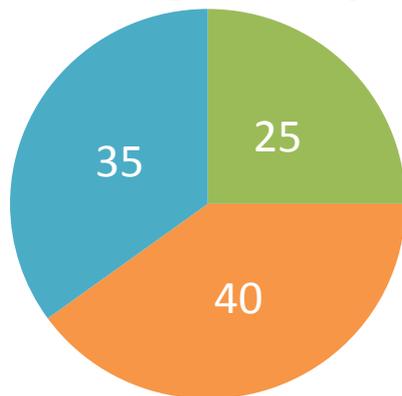
New Facilities



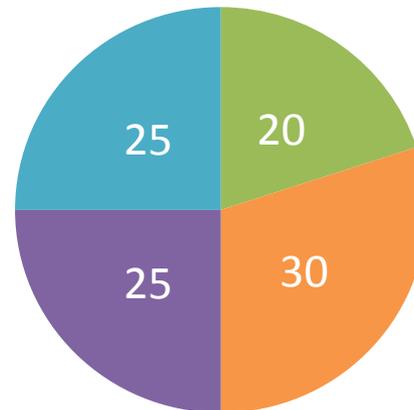
Upgrade Existing At-Grade Intersections



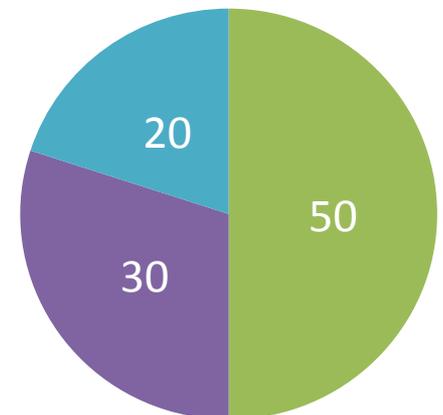
New Interchanges on Existing Freeways



Upgrade Existing Interchanges

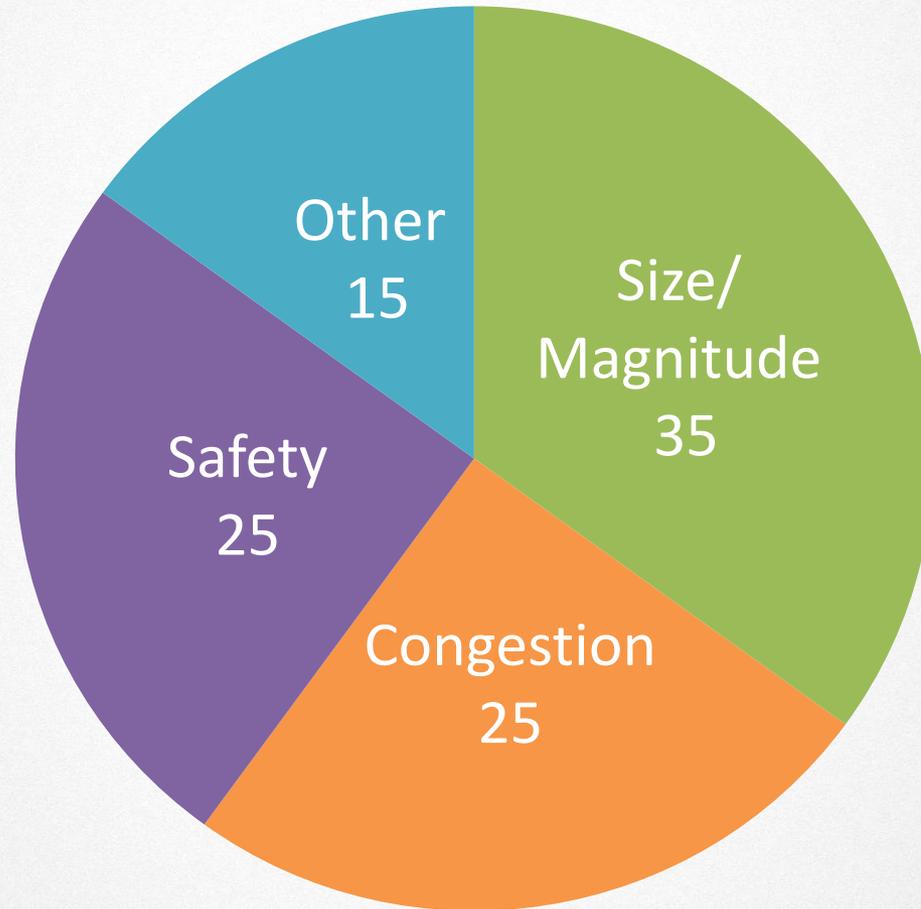


Passing Lanes



Weighted Criteria

Example: Widen Existing Facility



Example: Widen Existing Facility

Objective	Factor	Max. Score
Transportation Efficiency	Total AADT- Volume of Traffic on a Daily Average	20
	Truck AADT	10
	Functional Class – Measure of Road Importance	5
	V/C – Measure of a Highway's Congestion	25
	Transportation Growth	15
Safety	Safety Score – Combination of Measures	25
	Total Possible Points	100

Widen Existing Facility

Example: Redwood Road, Bangerter Highway to 12600 South

Project	2011 AADT	Truck AADT	FC	V/C	Safety Score	Ave Trans. Growth	Total	Rank
Redwood Road; Bangerter Hwy To 12600 South	21,597	1,300	14	1.2	8.5	3.8%		
Score	4	1	4	22.5	21.25	12	65	#7

Programmed Projects

Project Description	Project Value		Project Description	Project Value
I-15; SR-73 to 12300 South Widening	\$252,000,000.00		SR-18; Interchange at Bluff and Sunset Streets	\$20,000,000.00
Mountain View Corridor - 5400 South to 4100 South	\$180,000,000.00		I-80; Parley's Summit to Jeremy Ranch WB Truck Ln	\$17,000,000.00
I-15; South Davis Operational Upgrades	\$133,000,000.00		SR-108; SR-37 to SR-79	\$17,000,000.00
I-15, 2700 N (Farr West) to 1100 S (Brigham City)	\$68,000,000.00		US-40; Myton Bench Widening	\$15,000,000.00
SR-265; Univ. Pkwy., 800 E Orem to Univ. Ave. Provo	\$52,000,000.00		I-15; Beaver Ridge Climbing Lanes Project	\$15,000,000.00
I-15; Interchange Modifications (Layton Area)	\$52,000,000.00		US-89 (300 S); 100 E to 700 E Provo	\$12,000,000.00
SR-108; SR-127 to SR-107	\$50,000,000.00		US-6; Passing Lanes MP 262.5 to MP 297	\$9,000,000.00
Bangerter Hwy. & 600 W	\$49,000,000.00		SR-10; SOUTH PRICE TO RIDGE ROAD	\$8,000,000.00
SR-154 & 90th South Interchange	\$49,000,000.00		US-6; Passing Lanes MP 273 to MP 290	\$6,000,000.00
SR-18; St. George Blvd to Sunset Blvd.	\$38,000,000.00		US-191; Passing Lanes MP 80 to MP 96	\$6,000,000.00
SR-68; Saratoga Springs to Stillwater Parkway	\$31,000,000.00		SR-30; Passing Lanes (Box Elder/Cache Counties)	\$5,000,000.00
I-15; Pine Creek Climbing Lanes & ITS/ATMS	\$29,000,000.00		I-15; MP 10 Thru Turns at Green Springs	\$3,000,000.00
I-15; MP 22 to MP 28 - Passing Lane, North Bound	\$25,000,000.00		SR-92 Center Street Access	\$2,000,000.00
I-15; Brigham Road to Dixie Drive South Bound	\$25,000,000.00		I-15 Mobility Study	\$2,000,000.00
SR-37; 5100 West to SR-108	\$22,000,000.00		I-15; MP 8-10 Aux Lanes to Allow for Underpass	\$1,000,000.00

Capacity Recommendations

Transportation Investment Fund (TIF) - Capacity Program Recommendations

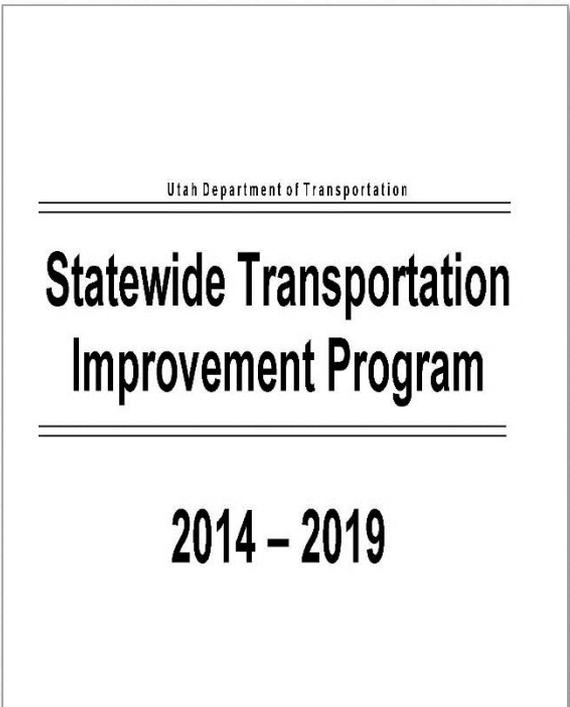
		Un-Programmed Contingency					
		2017	2018	2019	2020	2021	2022
Annual Total =		\$ 10,000,000	\$ 20,000,000	\$ 30,000,000	\$ 40,000,000	\$ 50,000,000	\$ 60,000,000
Cumulative Total =		\$ 10,000,000	\$ 30,000,000	\$ 60,000,000	\$ 100,000,000	\$ 150,000,000	\$ 210,000,000

			Programmed Projects Estimated Cash Flow						
REGION	PROJECT NAME/LOCATION	Project Value	2016	2017	2018	2019	2020	2021	2022
2	Mountain View Corridor, SR-201 to 4100 South	\$500,000,000		\$ 35,000,000	\$ 90,000,000	\$ 190,000,000	\$ 185,000,000		
3	I-15 Fwy Reconstruction - SR-92 to Lehi Main Street	\$450,000,000	\$ 5,000,000	\$ 5,000,000	\$ 10,000,000		\$ 10,000,000	\$ 150,000,000	\$ 270,000,000
1	US-89, SR-273 to I-84	\$275,000,000	\$ 2,000,000	\$ 13,000,000	\$ 5,000,000	\$ 15,000,000	\$ 125,000,000	\$ 115,000,000	
2	Bangerter Highway Interchange at 5400 South	\$61,000,000	\$ 2,000,000	\$ 18,000,000	\$ 38,000,000	\$ 3,000,000			
2	Bangerter Highway Interchange at 7000 South	\$41,000,000			\$ 5,000,000	\$ 36,000,000			
2	Bangerter Highway Interchange at 11400 South	\$57,000,000				\$ 2,000,000	\$ 18,000,000	\$ 35,000,000	\$ 2,000,000
4	I-15 - Mall Drive	\$20,000,000		\$ 2,000,000	\$ 18,000,000				
3	US-40; various locations passing lanes	\$20,000,000				\$ 20,000,000			
1	I-15; Hill Field Road to Davis/Weber County Line to I-84	\$150,000,000					\$ 5,000,000	\$ 60,000,000	\$ 85,000,000
1	Layton I-15 Crossing	\$20,000,000		\$ 2,000,000	\$ 18,000,000				
1	West Davis Corridor PE; From - Antelope Drive To - I-15 / US-89 / Legacy Parkway	\$10,000,000				\$ 10,000,000			
		\$1,604,000,000	\$ 9,000,000	\$ 75,000,000	\$ 184,000,000	\$ 276,000,000	\$ 343,000,000	\$ 360,000,000	\$ 357,000,000

Annual Additional Programming Available =	\$ 15,027,968	\$ 13,222,467	\$ 31,920,000	\$ 73,970,000
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Requested New Programming \$1.604 Billion
Cash Flow Made Available from Previously Approved Project Cash Flow Adjustments
Estimated Annual Program Funding Remaining

Commission Approval of STIP



Carlos Braceras, P.E., Executive Director
Meg Holbrook, Transportation Commissioner
May 20, 2015



Utah Department of Transportation

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