



# Utah Collaborative Active Transportation Study

Julie Bjornstad, AICP  
Fehr & Peers

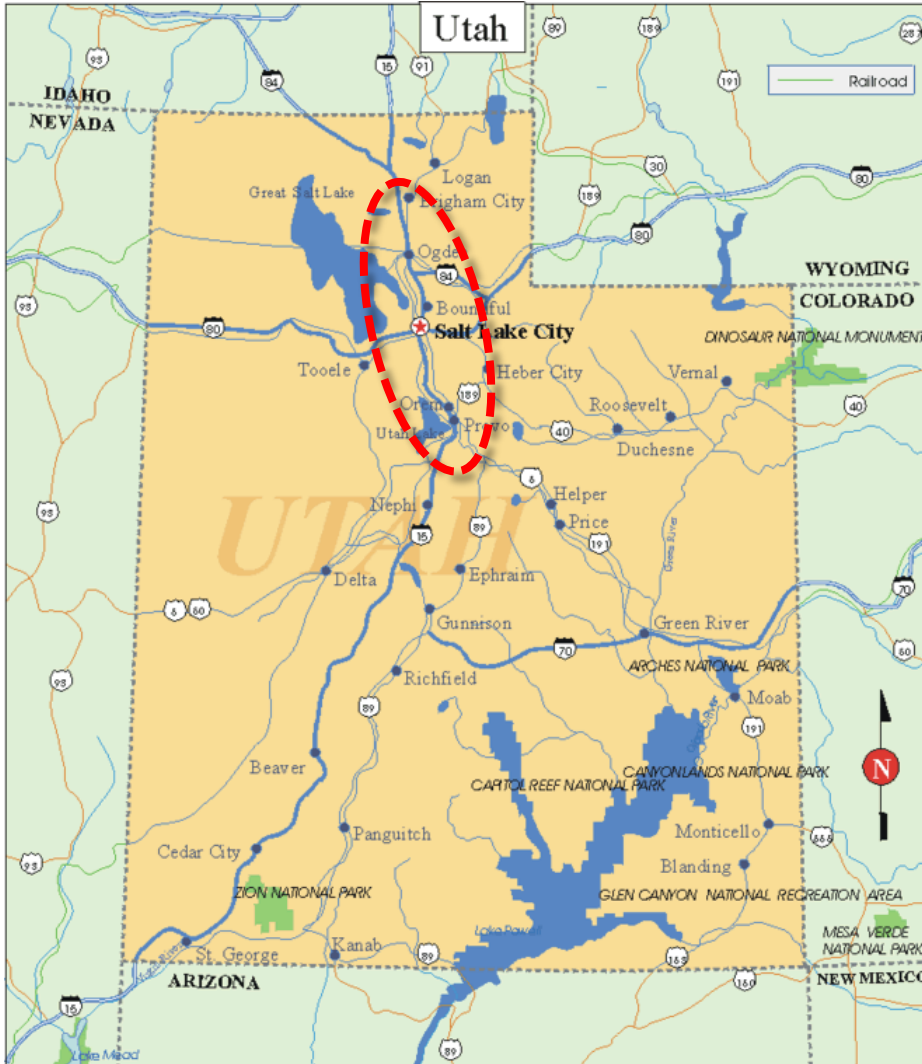
Moving Active Transportation to Higher Ground  
April 14, 2015



Background



# Regional Collaboration

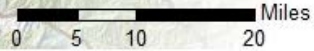


- 1** Lay groundwork for urban network of bicycle facilities
  - All abilities, all ages
- 2** Enhance active transportation connections to transit
- 3** Demonstrate quality of life benefits
  - Economic, health, environment



**LEGEND**

 Study Area Boundary



**UICATS**



Methods

# Existing Facilities Inventory

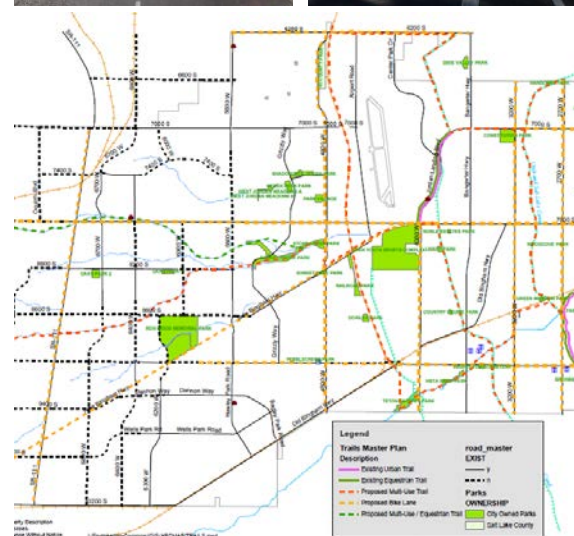


Inventory of **existing** facilities:

- Shared lanes: sharrows, green lanes, signed routes
- Shoulder bikeway (signed)
- Bike lane
- Cycle track
- Shared use path (paved)

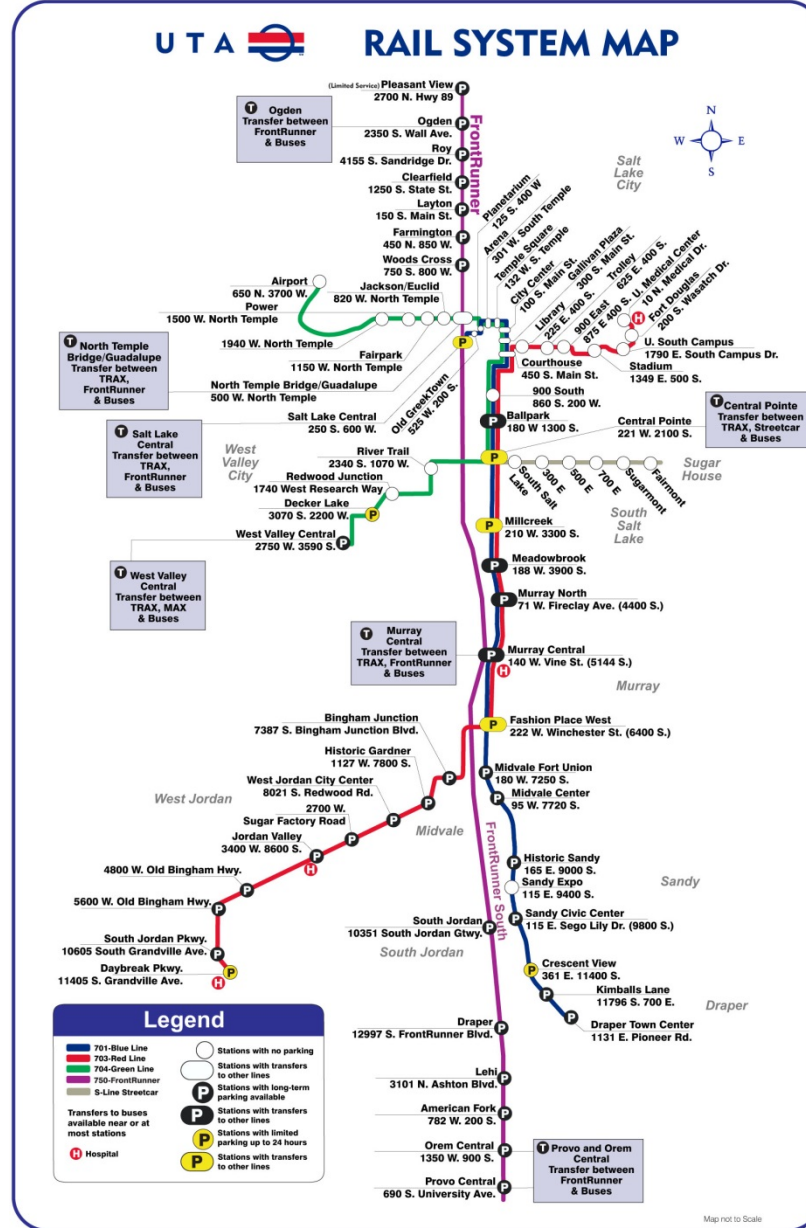
Single GIS file for study area

Field and aerial verification

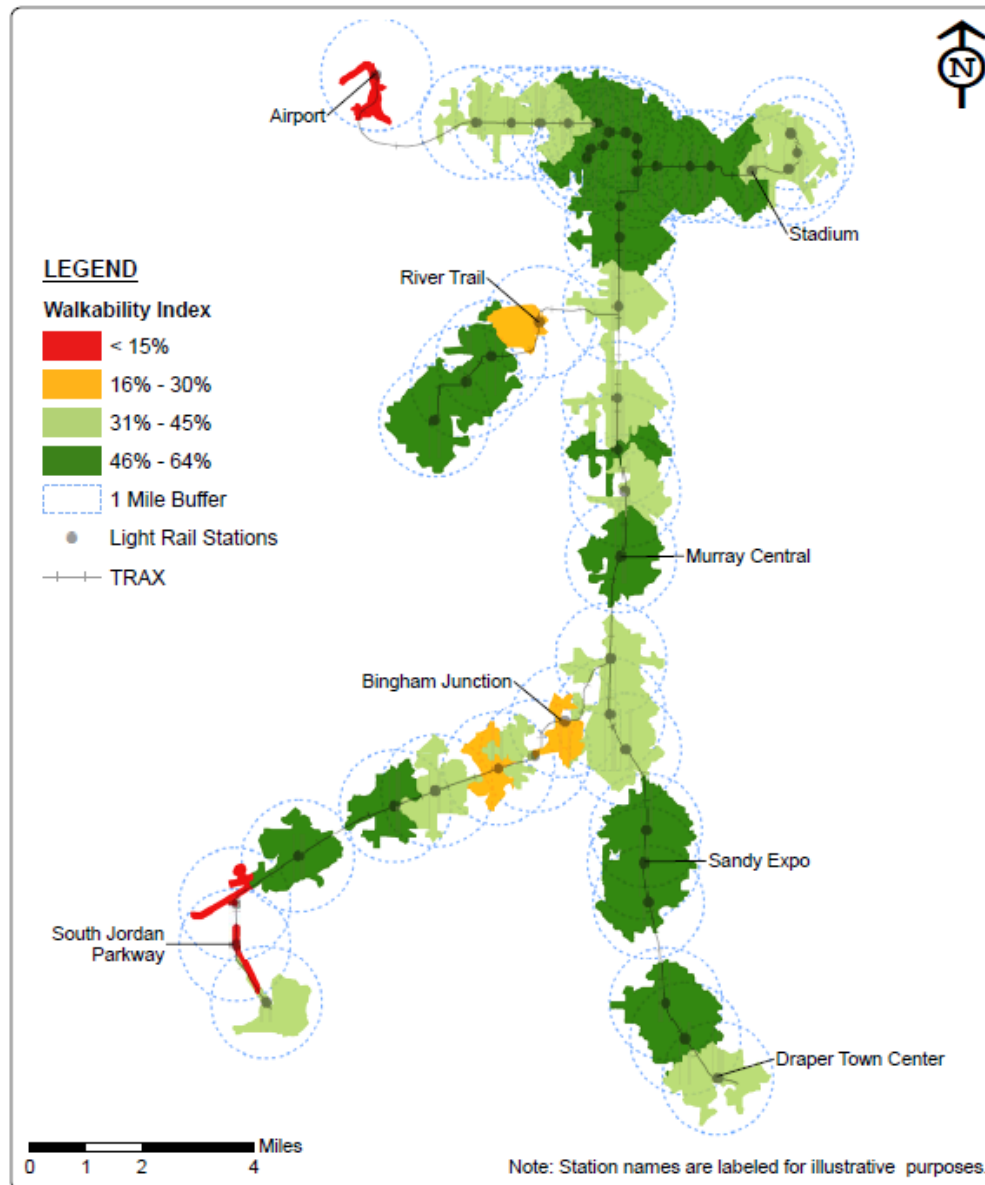




# Access to Transit



# Access to Transit



# Access to Transit



## Field conditions: Wasatch Choice 2040 sites



### Survey of Bike and Ped Infrastructure: Sandy Catalytic Site

Summary of observations taken during field review of bicycle and pedestrian infrastructure in and around TRAX transit stations in Sandy, Utah.

A story map

TRAX Stations ▼

Good Practice	Opportunity	
 1 Rail Crossing at 8800 South	 2 Station Access	 3 Secondary Station Access
 4 Pedestrian Facilities	 5 Bike Lockers and Racks	 6 Signalized Rail/Path Crossing
 7 Crosswalk Elements	 8 Trail Integration	 9 Station Area Design
 10 Secondary Station Access	 11 Multi-modal Hub	 12 Neighborhood Access
 13 Dirt Path	 14 Shoulder Bikeway	 15 Pedestrian Rail

## Model factors

- Population and employment density
- Land use mix
- Proximity to schools, parks, universities
- Proximity to bus stops and fixed rail stations
- Demographics – below poverty level, zero vehicles, limited-mobility age cohorts
- Intersection density
- Presence of existing bike facilities

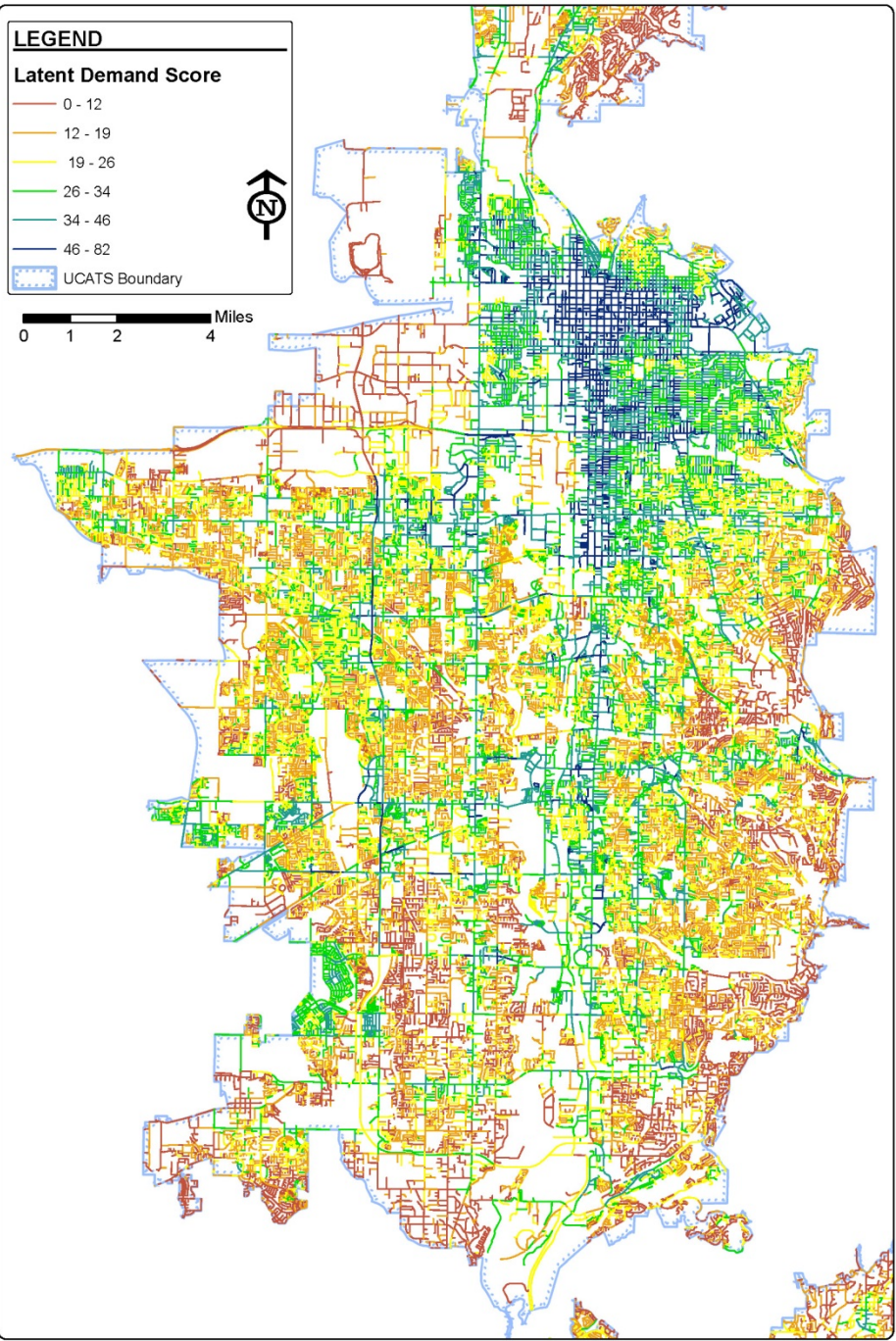
**LEGEND**

**Latent Demand Score**

- 0 - 12
  - 12 - 19
  - 19 - 26
  - 26 - 34
  - 34 - 46
  - 46 - 82
- UCATS Boundary



Miles  
0 1 2 4



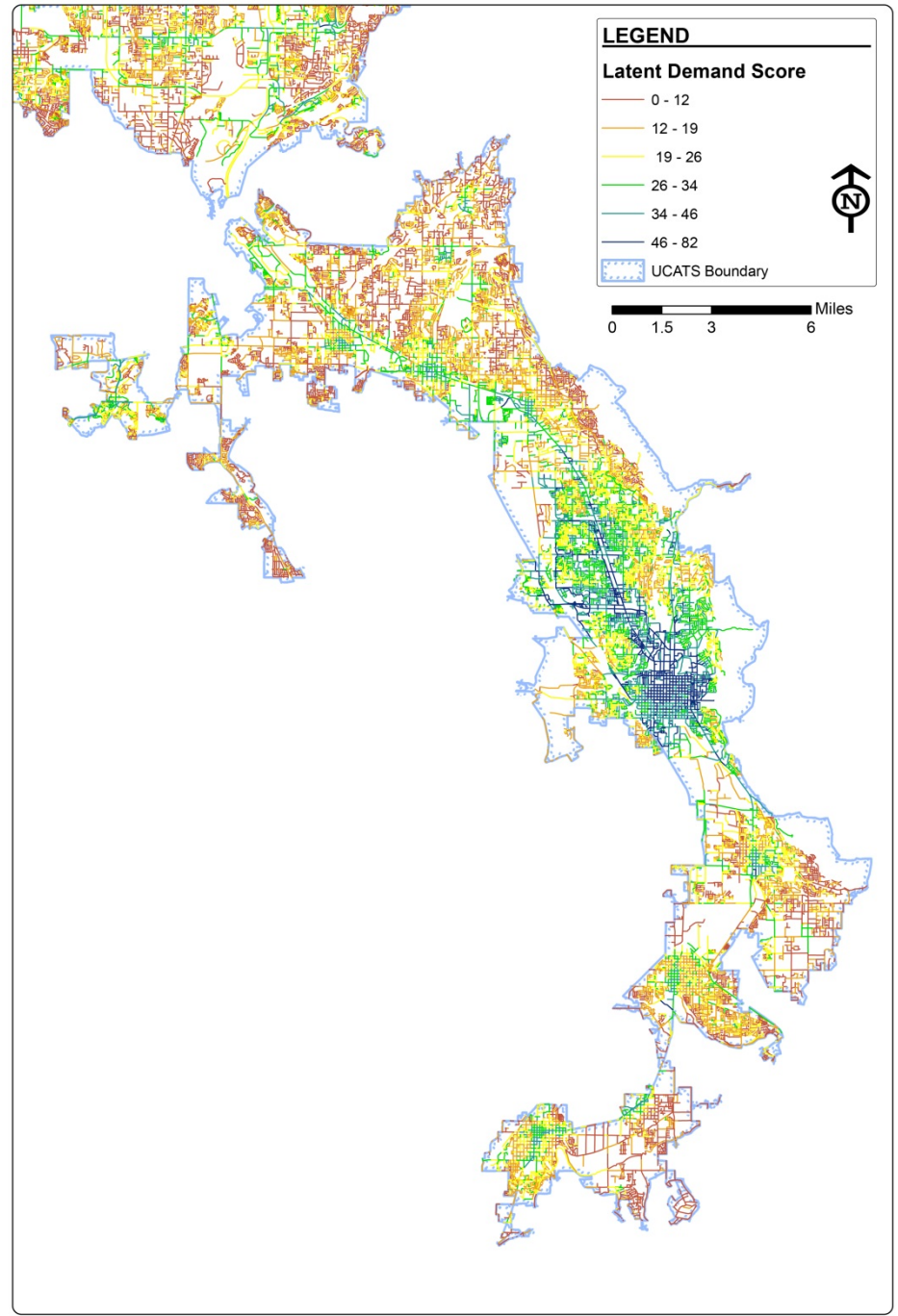
**LEGEND**

**Latent Demand Score**

- 0 - 12
  - 12 - 19
  - 19 - 26
  - 26 - 34
  - 34 - 46
  - 46 - 82
- UCATS Boundary




Miles  
0 1.5 3 6



www.ucatsplan.com/existing-bike-facilities-along-the-wasatch/archived

Topics Ideas About Search Ideas Sign Up Now Log In

### Existing Bike Facilities Along the Wasatch

 Here's a map of existing shared use paths (green), bike lanes (blue), shared lanes (purple), and trails (brown) across the Wasatch Front. A major UCATS goal is to fill in the gaps in this network. Which...


Views 924  
Interactions 101  
Closed

0 Like  
Send  
0 Tweet  
0 Share  
0 +1  
0 Email


TOPICS


- 2013 Road Respect Tour
- Local Research on Cyclist Profiles

Select Language  
Powered by Google Translate



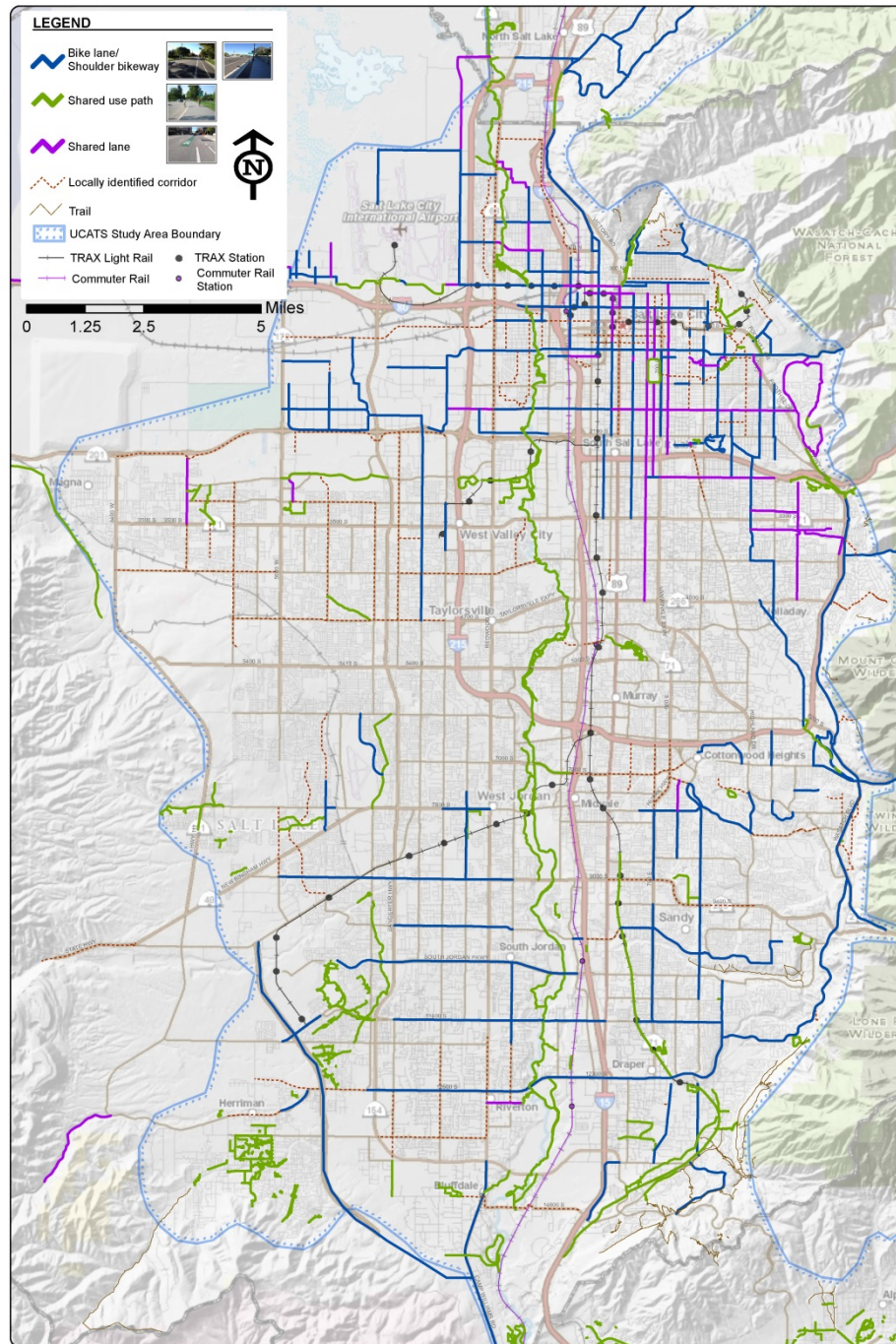
24 IDEAS Sort By: NEWEST OLDEST POPULAR

MAR 27, 2013 Suzanne S4  0 0 0  
**Paint bike lanes on Chipeta Way coming into U of U Research Park**

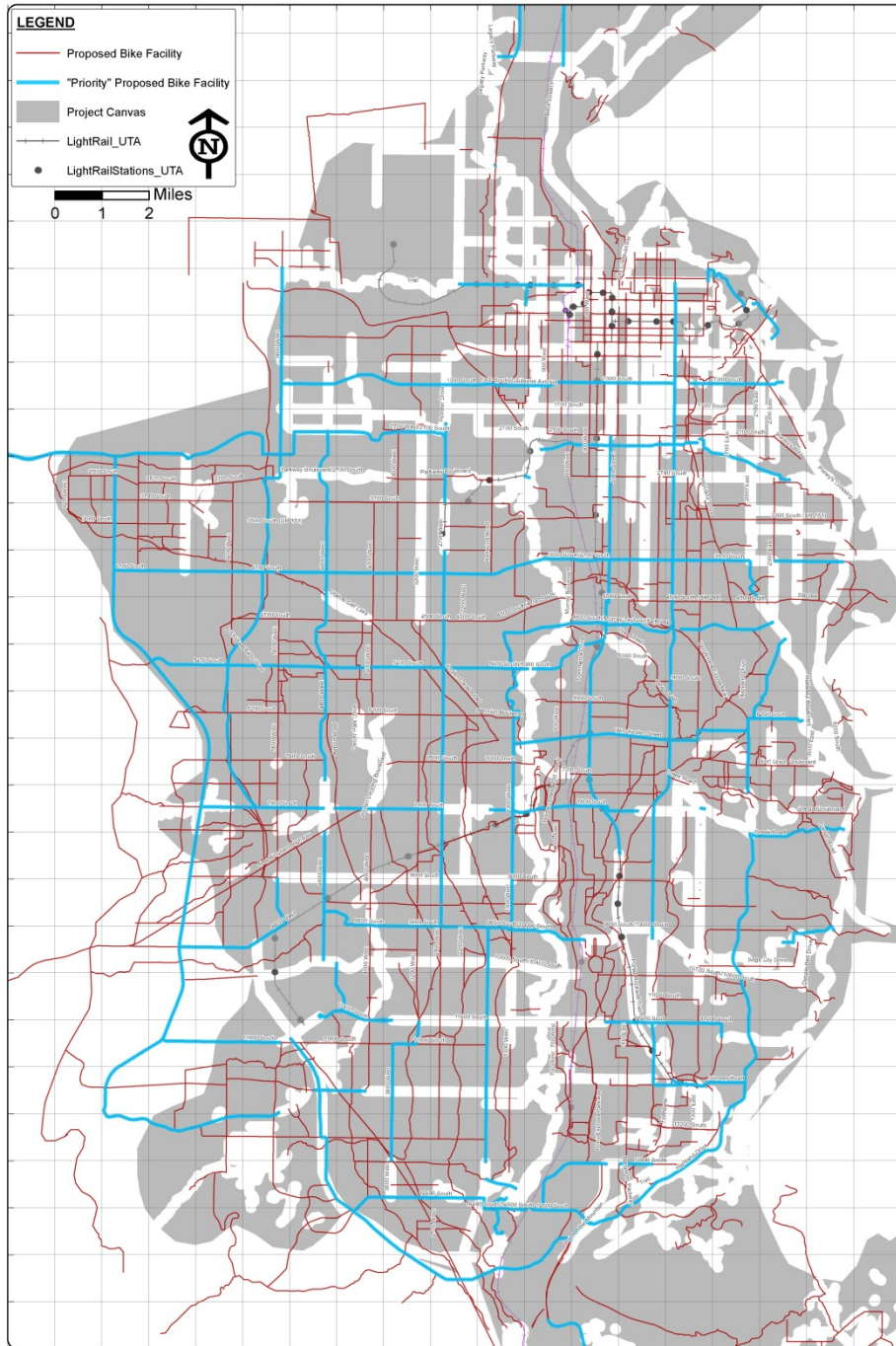
UPDATED: MAR 27, 2013 Philip S4 Reviewed  19 0 0  
**Pleasant View Dr. Bike Lanes**



Creating the Network







# Decision-Making Criteria

## Tier One Criteria

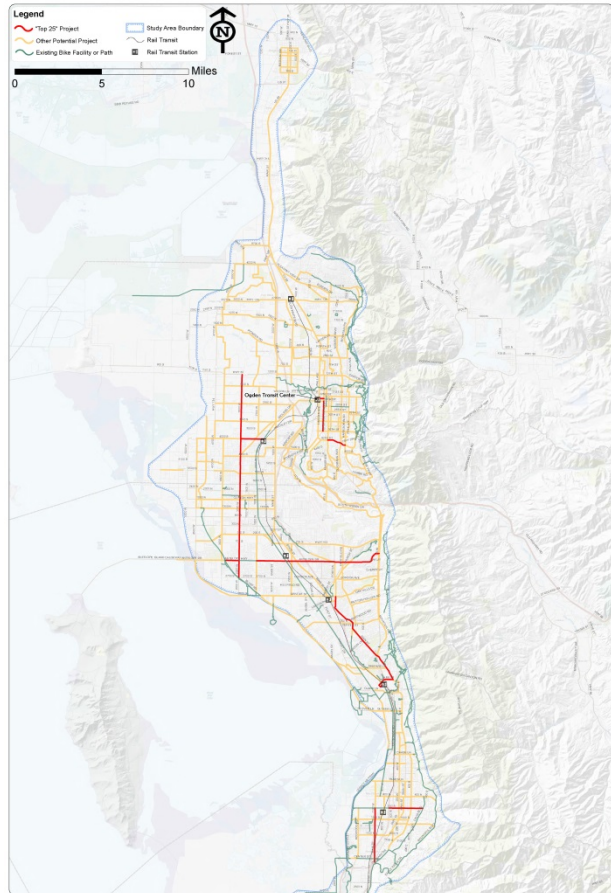
- Urban bike network
- Access to Transit



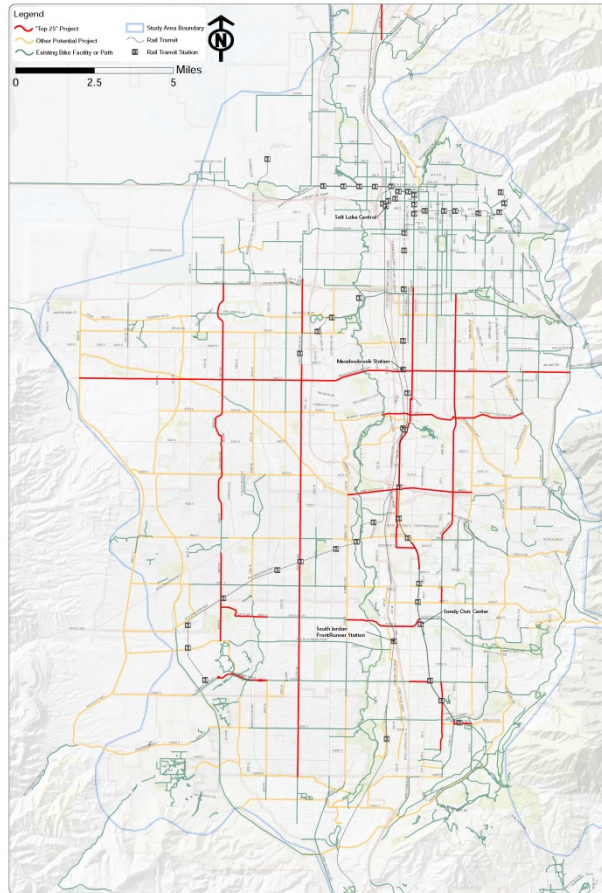
## Tier Two Criteria

- Latent demand model
- Economic growth opportunities
- Addresses barriers
- Addresses safety
- Reflects local planning priorities

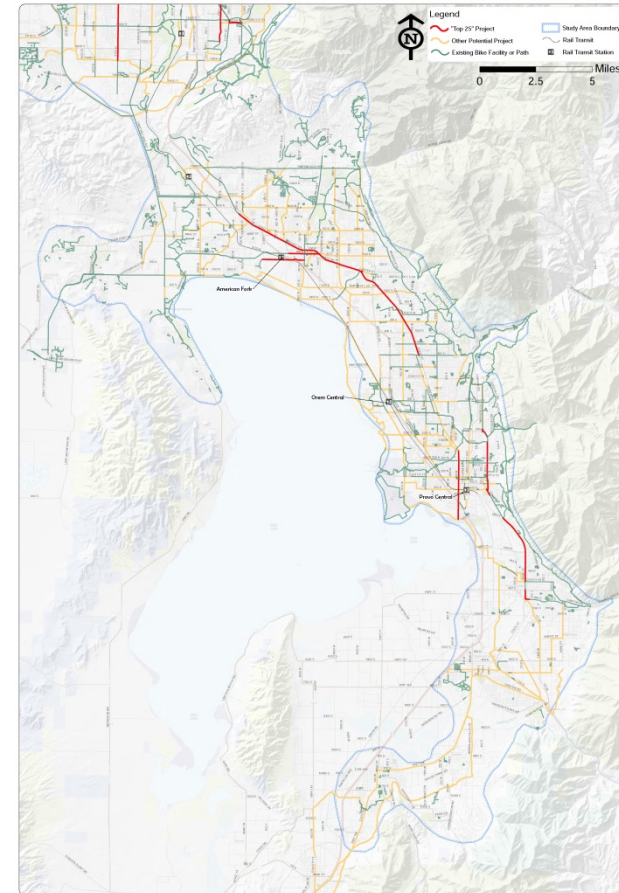
# Top 25



DRAFT "Top 25" Active Transportation/Transit Access Projects - North UCATS



DRAFT "Top 25" Active Transportation/Transit Access Projects - Central UCATS



DRAFT "Top 25" Active Transportation/Transit Access Projects - South UCATS

# Access to Transit

- On-street bicycle markings
- Station area wayfinding
- Trail connections to stations
- ADA improvements at intersections
- Access over interchanges
- Bicycle parking improvements
- Crosswalk and sidewalks
- Connect to top 25 projects



## Bike-onomics

- Identify metrics to measure economic development resulting from investments in bicycle/pedestrian infrastructure

## Health Impact Analysis

- Identify the health impacts of “general” projects
- Quantitatively estimate potential positive health outcomes
- Useful in prioritizing projects based upon which would provide the biggest health return early on

# Next Steps

UCATS II

Design and Construction

The Data Lives On!!!





Thank You

Julie Bjornstad, AICP  
Fehr & Peers  
[j.bjornstad@fehrandpeers.com](mailto:j.bjornstad@fehrandpeers.com)