



# Serving the Southern Nevada Community



# SOUTHERN NEVADA

2020 Population:

**2.3M**

2050 Population:

**3.3M**



An aerial photograph of a city with a clear grid street pattern, overlaid with a semi-transparent blue filter. In the background, a range of mountains is visible under a blue sky with scattered white clouds. Three orange horizontal bars are positioned across the center of the image, each containing white text.

**DENSITY**

**LAND USE DIVERSITY**

**STREET NETWORK DESIGN**

# TRANSPORTATION IMPACTS ON HEALTH STUDY

Health costs

Integration

GOALS

Performance  
measures

Awareness

# REGIONAL ECONOMIC IMPACTS

Estimated  
physical  
disease cases

**1.3M**

Estimated  
annual health  
care cost

**\$2.9B**

Estimated cost  
of loss of life  
from 186 traffic  
crash deaths

**\$1.9B**



**Transportation-  
Health Composite  
Index**

Vulnerability

Transportation-  
Related Health Risk

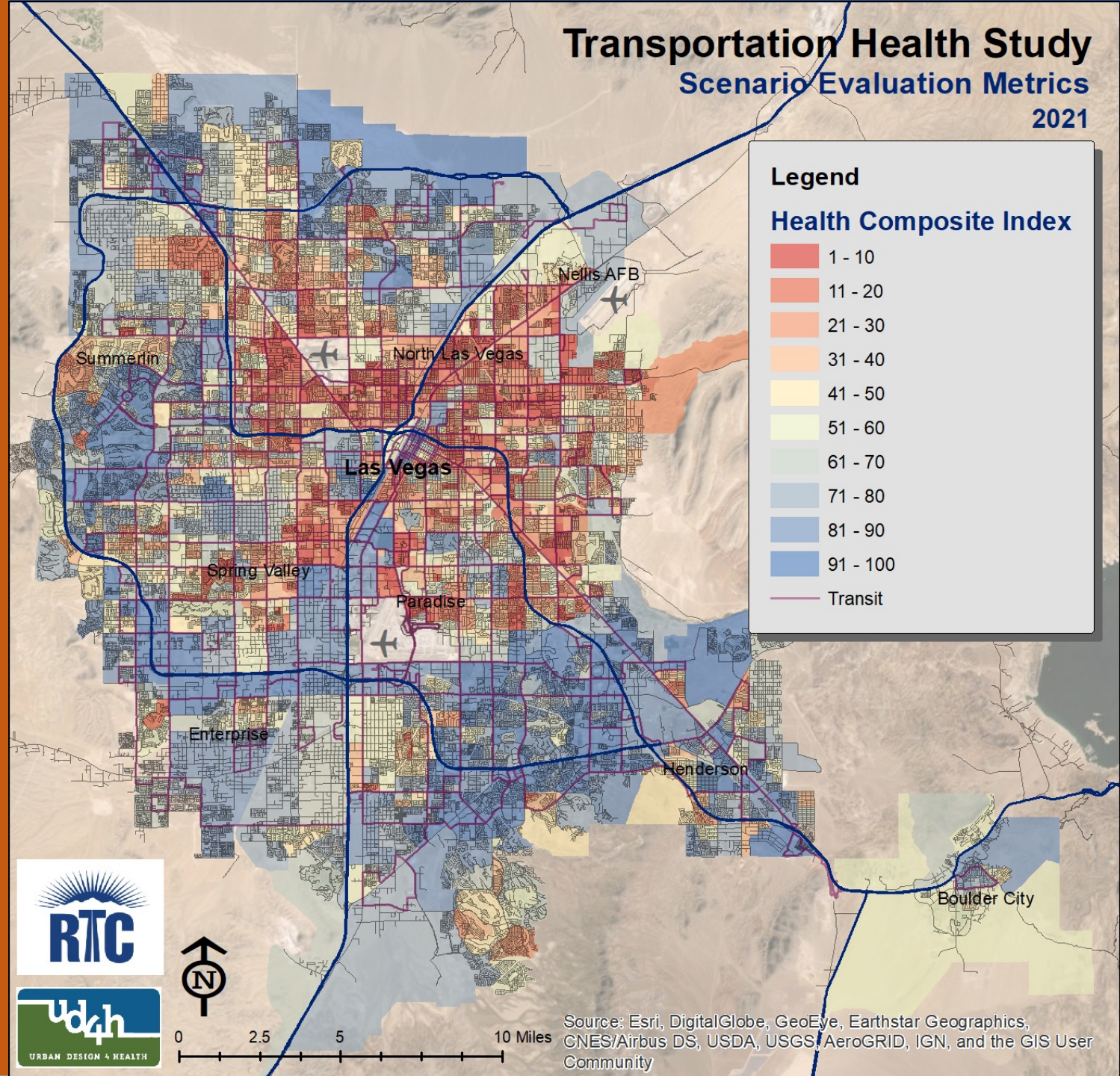
Health-Related  
Transportation  
Access

Legend

Health Composite Index

- 1 - 10
- 11 - 20
- 21 - 30
- 31 - 40
- 41 - 50
- 51 - 60
- 61 - 70
- 71 - 80
- 81 - 90
- 91 - 100
- Transit

# HEALTH COMPOSITE INDEX



0 2.5 5 10 Miles

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# RTC - PUBLIC HEALTH ASSESSMENT MODEL

*Existing  
Conditions*



*Interventions*

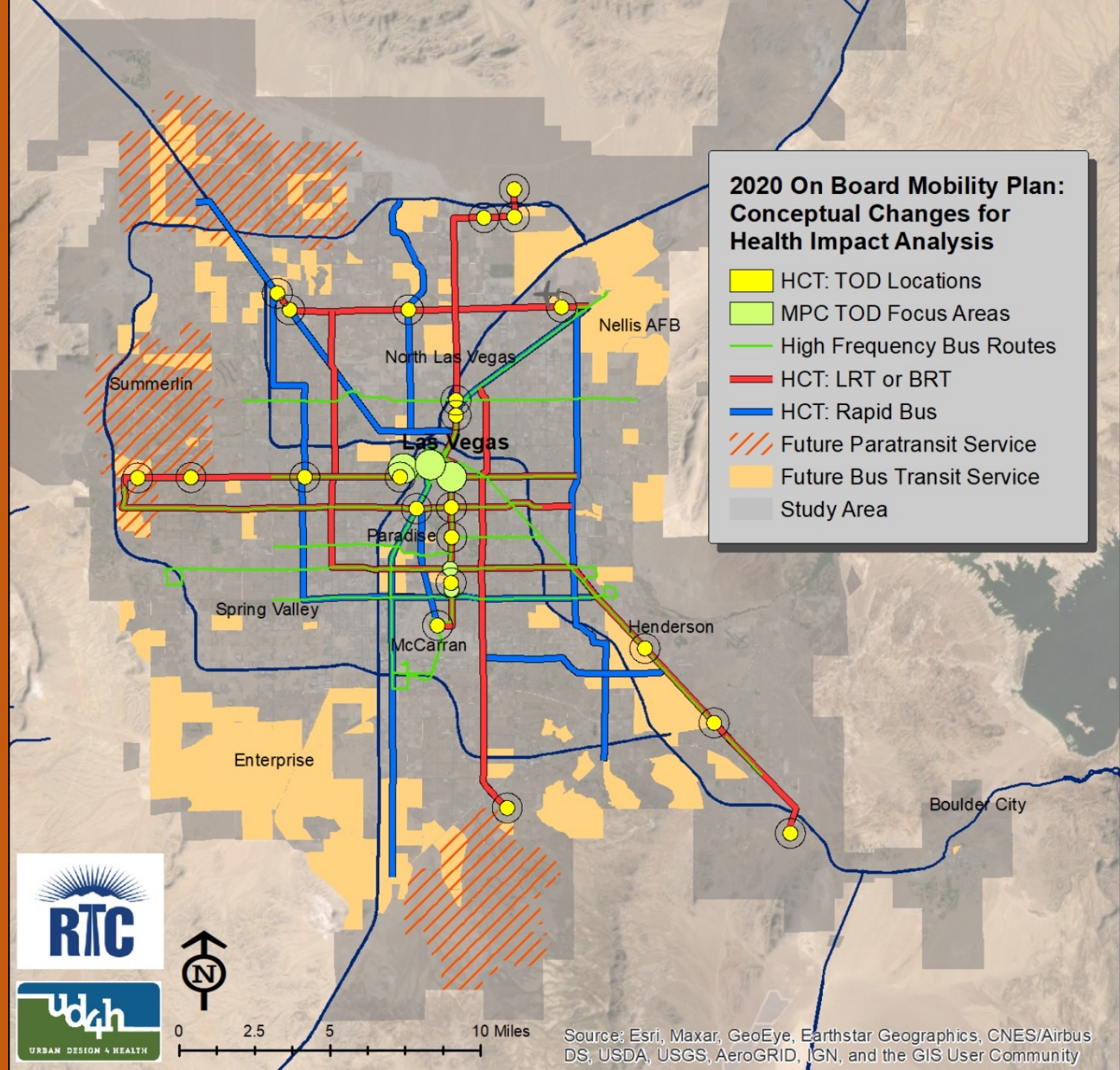


*Result*





# ON BOARD SCENARIO (CONCEPTUAL)



# SCENARIO RESULTS

OUTCOME	IMPACTED AREA	
	Current	Change
Health Cost per Adult	\$1,727	-11%
BMI>30	29%	-13%
Type 2 Diabetes	9%	-10%
Hypertension	28%	-14%
Coronary Heart Disease	3%	-6%
Walk for Transport	25%	26%
Bike for Transport	2%	5%
Transit Use	9%	91%
Personal Vehicle Use	74%	-12%

# NEXT STEPS



Health index  
application



Scenario  
planning



Model  
improvements



**RTC**

