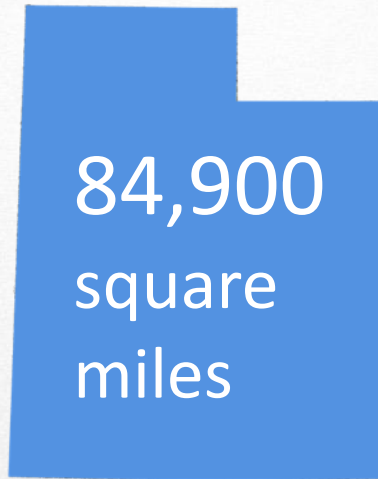
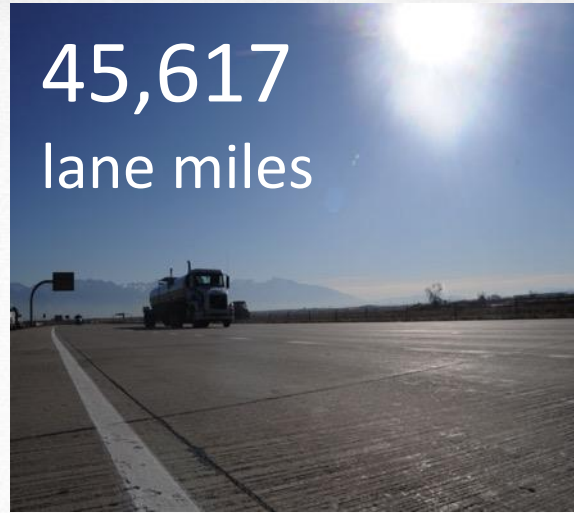


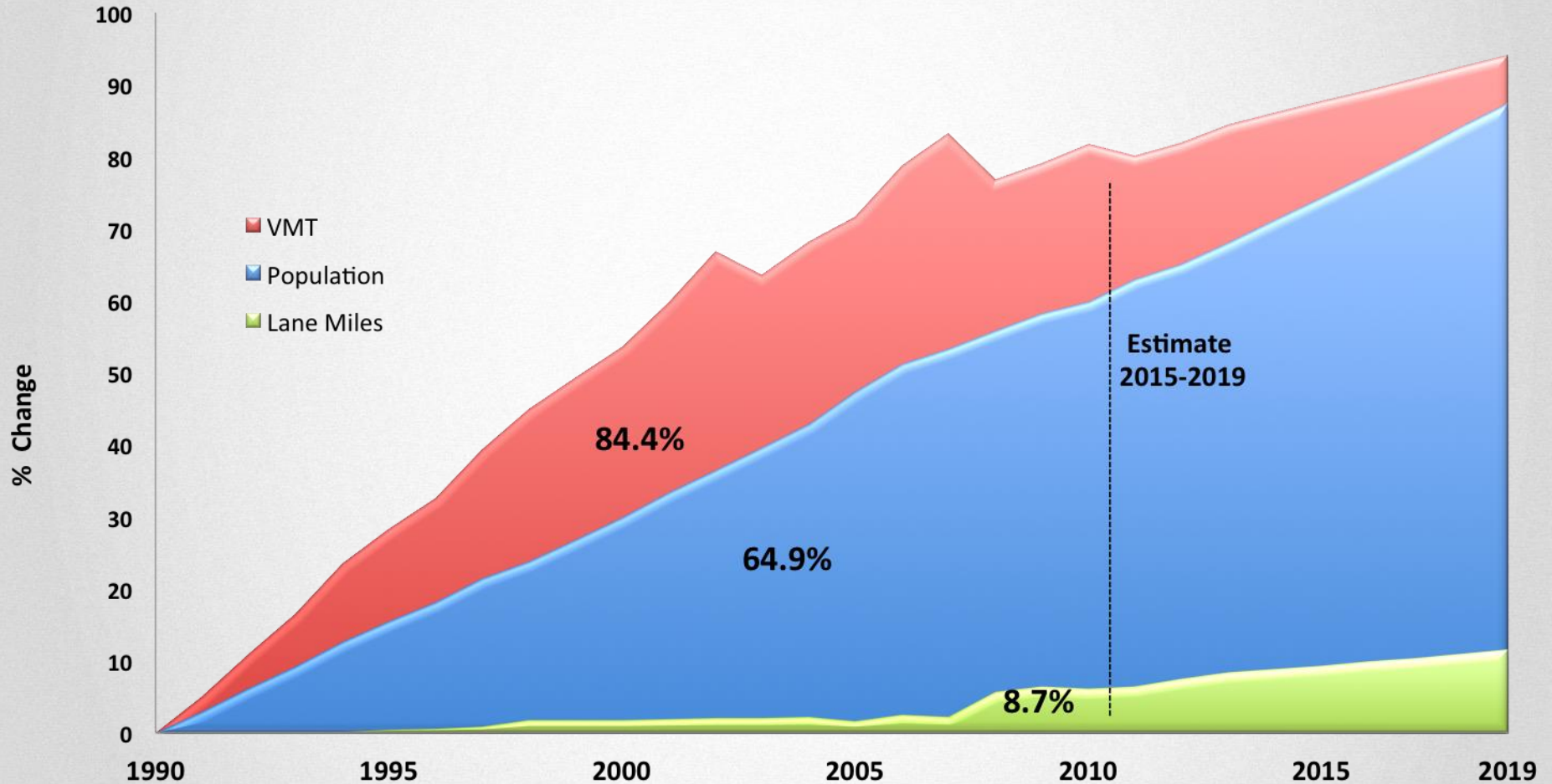
True Story – Developing Bridge Management in Utah

Shane Marshall, P.E.
Deputy Director





Growing Population and Demands: 1990 - 2019





Utah's Economic Growth

LTDOT



4.2% JOB GROWTH

2x National
Average

- #1 Pro Business State
- #1 Best Business Climate
- #3 Top States for Business
- #3 Most Self-employed Women

#1

Best State for Business
State for Small Business

Tech Concentration &
Dynamism

Mission Statement

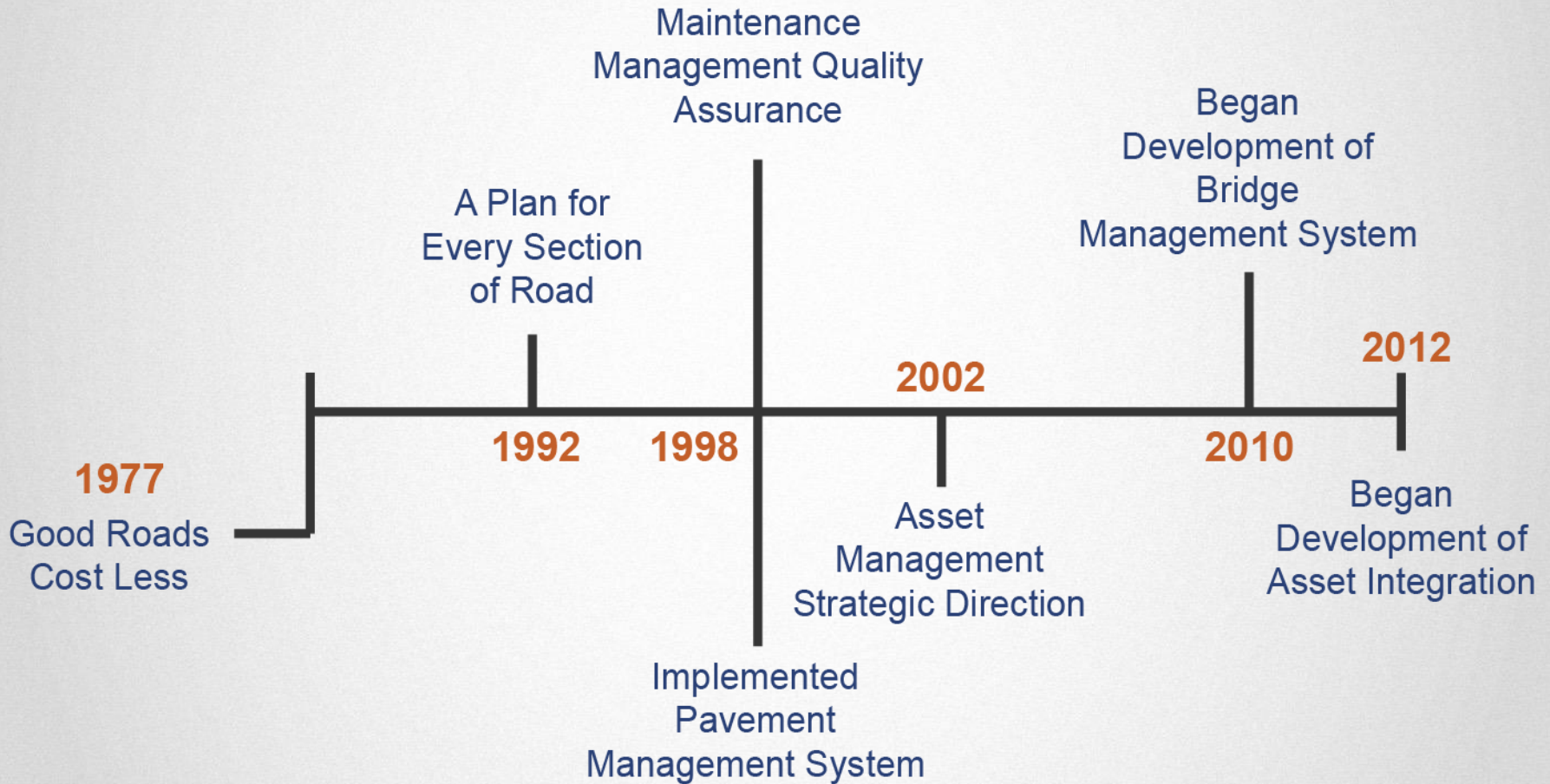


Innovating transportation solutions that strengthen Utah's economy and enhance quality of life.



The Inside Story

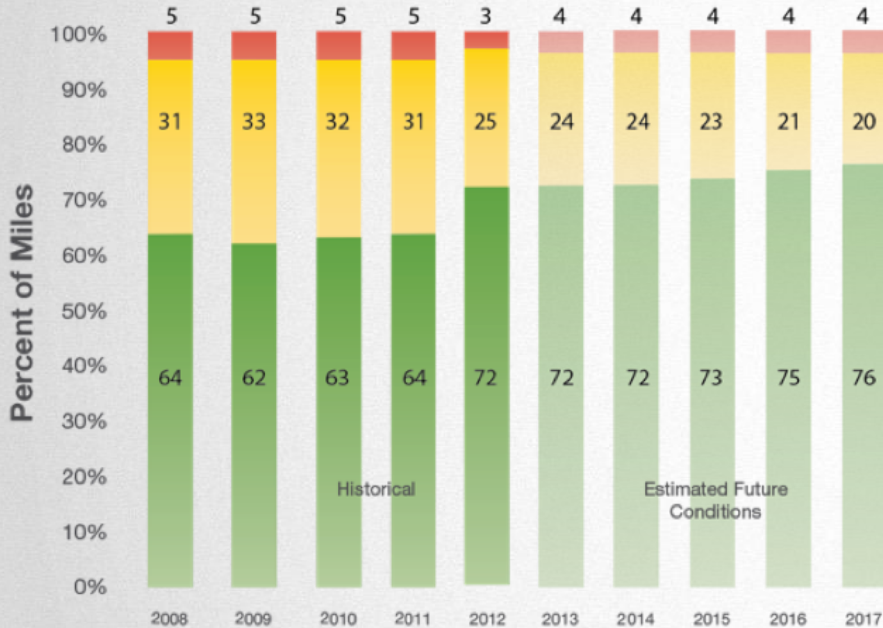
Asset Management Time Line



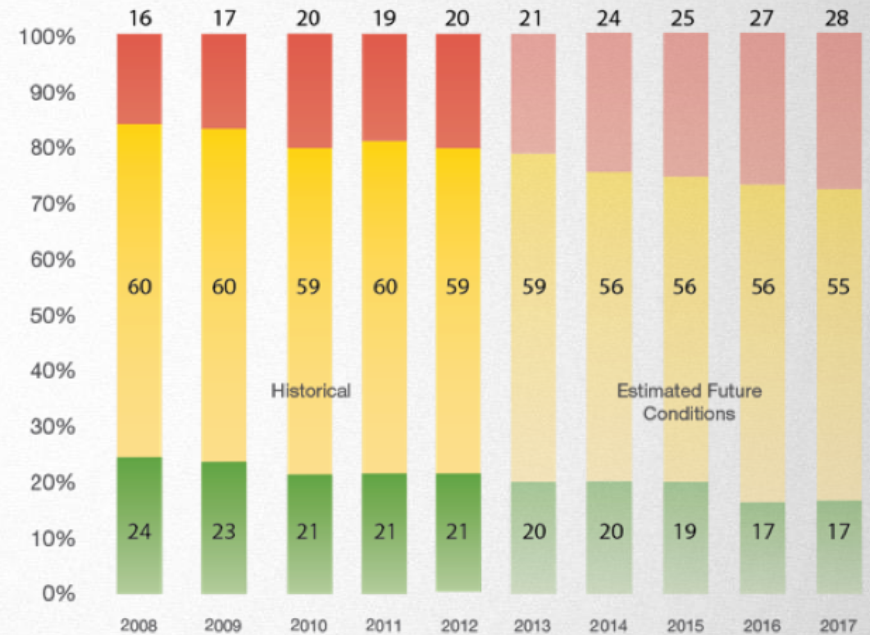
Pavement management: The model



Interstate (935 miles) & Level 1 System (2,950 miles)
Ride Quality - Forecasted with \$165 million/yr



Level 2 System (1,975 miles)
Ride Quality - Forecasted with \$10 million/yr

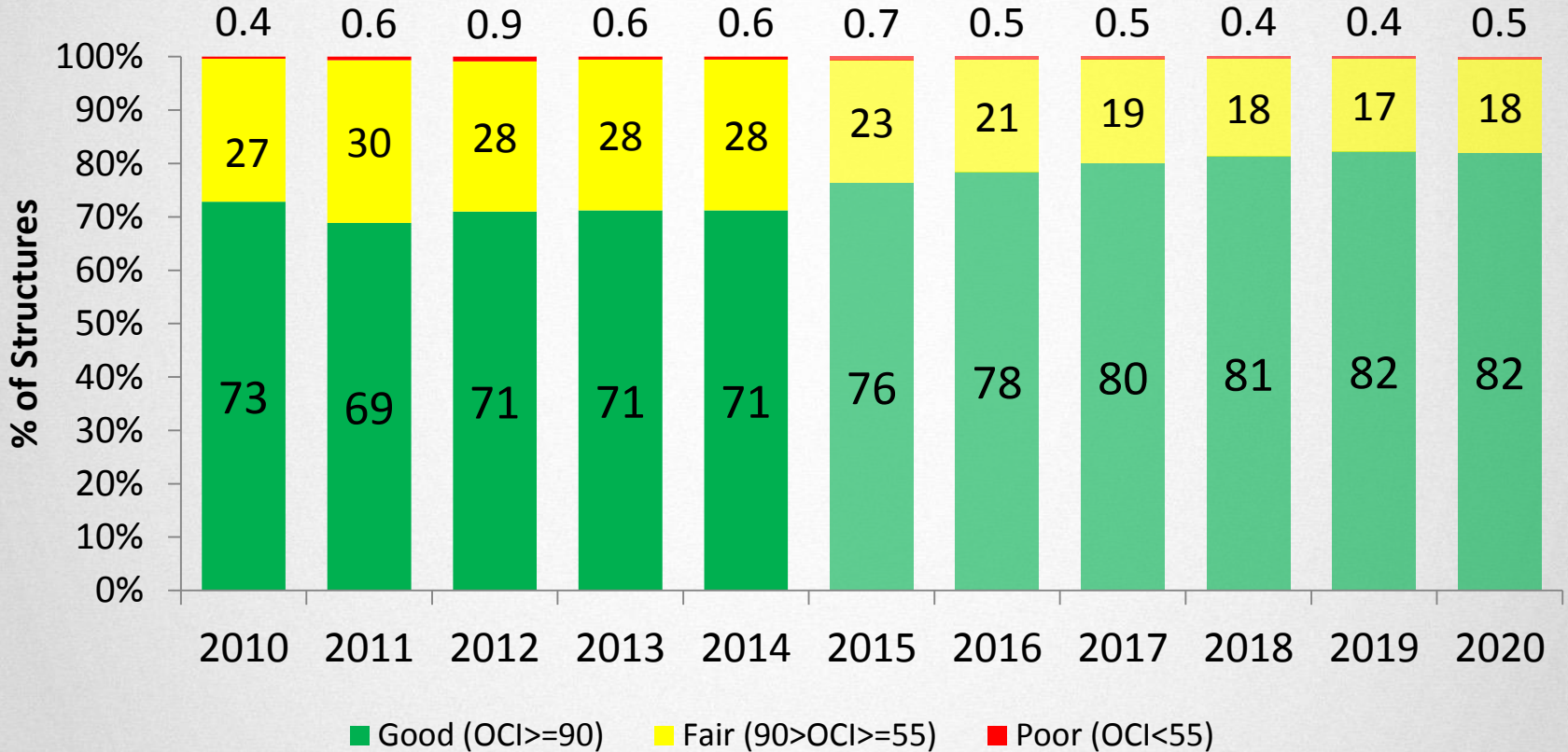


- % Poor: IRI > 170
- Fair
- % Good: IRI < 95

Applying the philosophy

State Bridges Condition (1888 Bridges)

Forecast With \$45 Million Yearly



When more becomes less

LTDOT



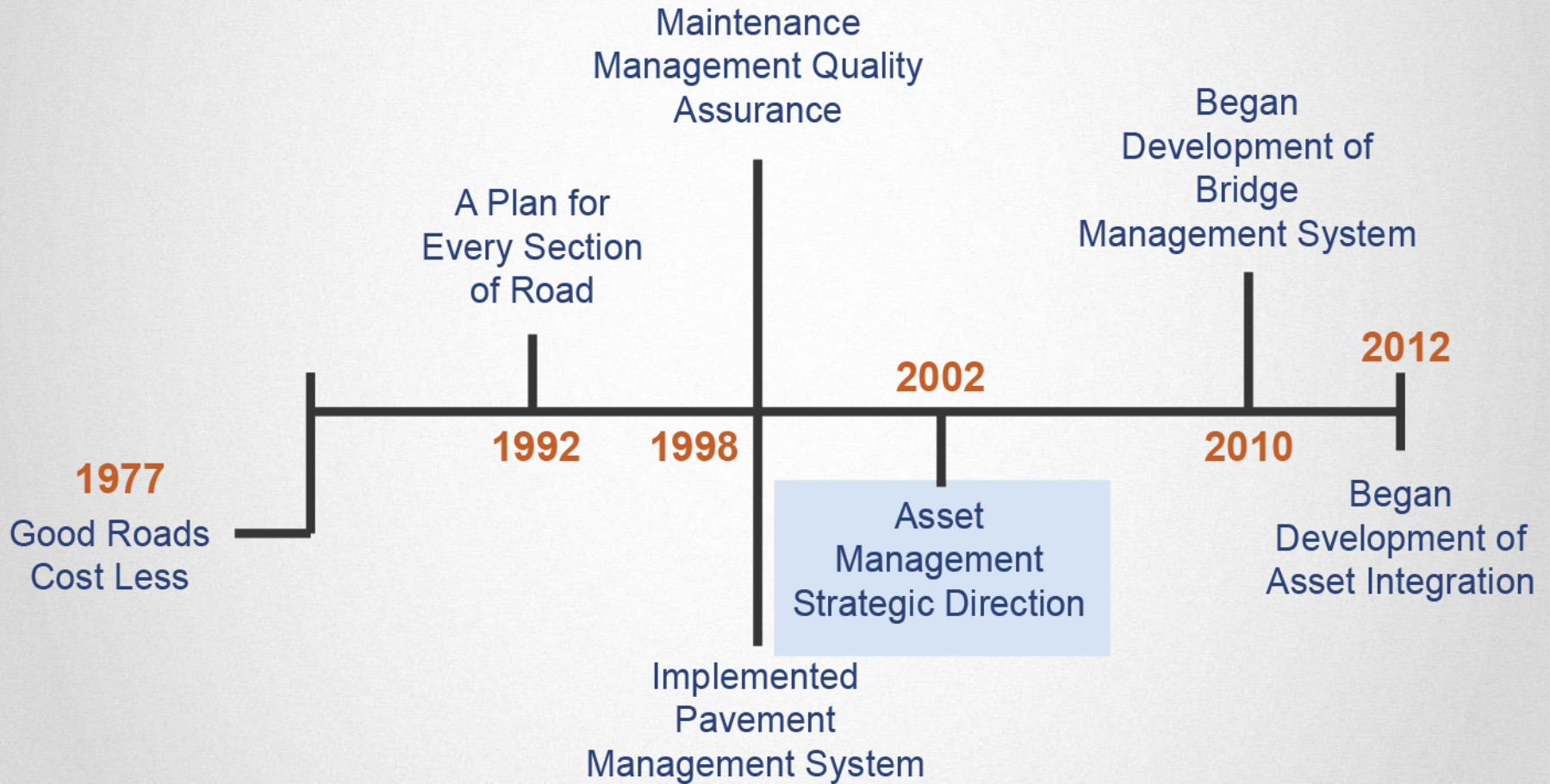
UDOT Data Collection

UTDOT



Asset Management Time Line

Strategic Direction

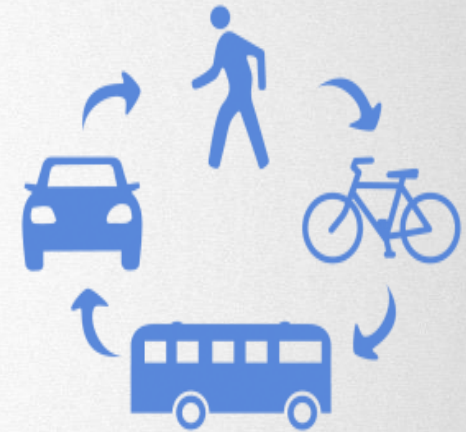


zero Crashes
Injuries
Fatalities

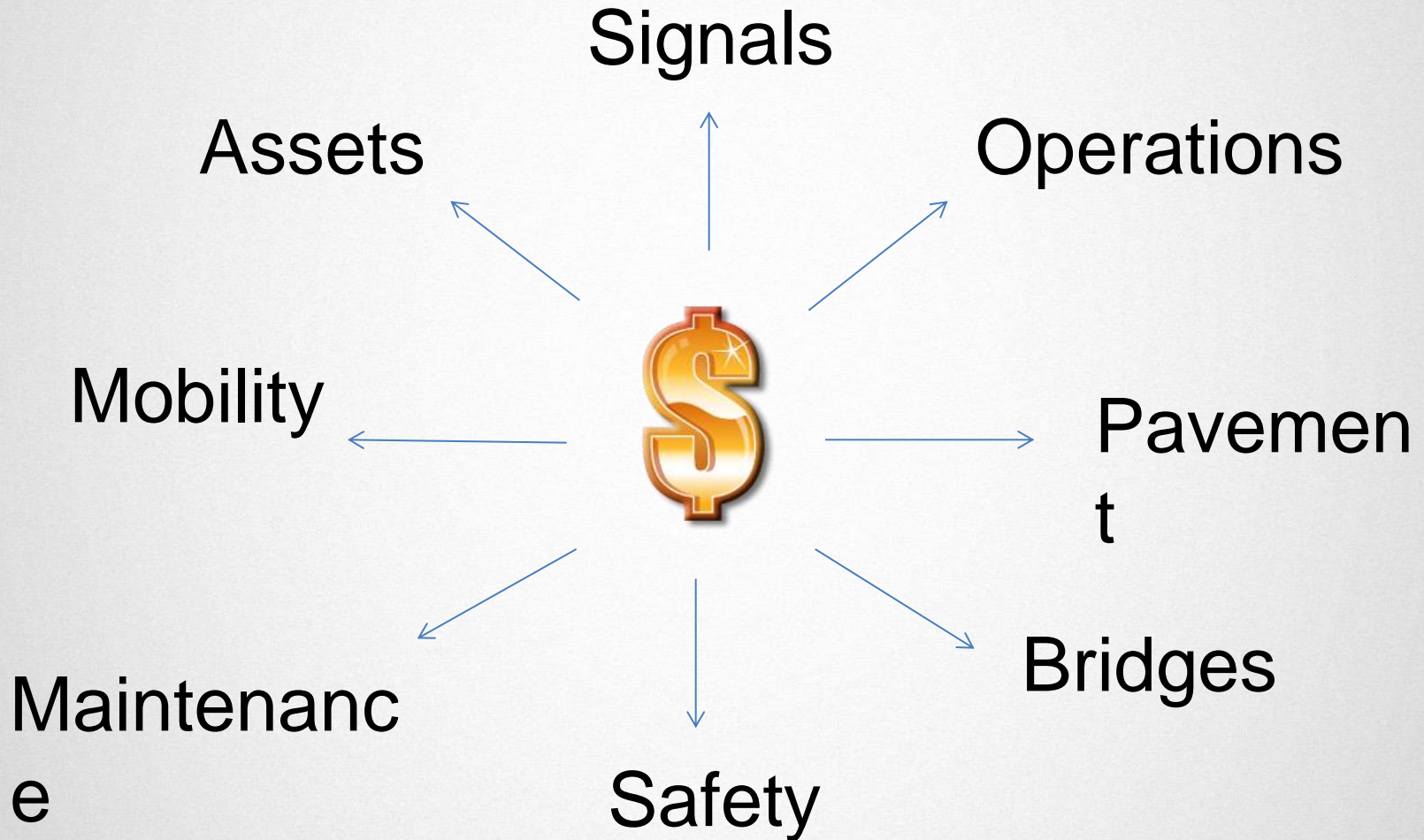
Zero
Fatalities



Preserve
Infrastructure



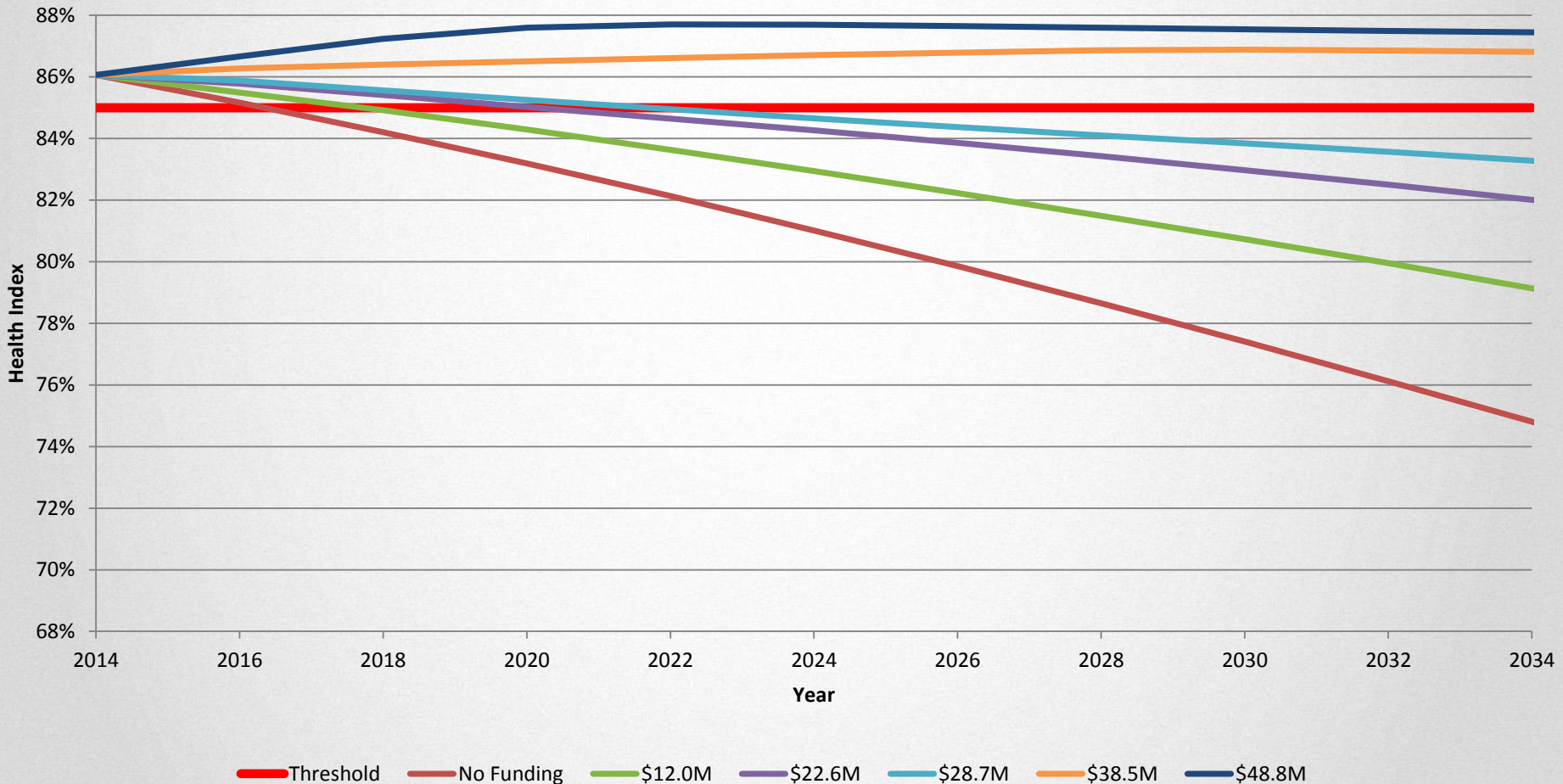
Optimize
Mobility



New measurement for bridge health



Projected System Health over Time NHS Inventory



1. Get educated
2. Define your approach
3. Determine the data needs – then collect
4. Get a win
5. Communicate the results