



State of the Streets

April 2011

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Presentation Purpose

Inform the citizens of Lakewood of the transportation infrastructure –

Accomplishments,

Maximizing Resources, and

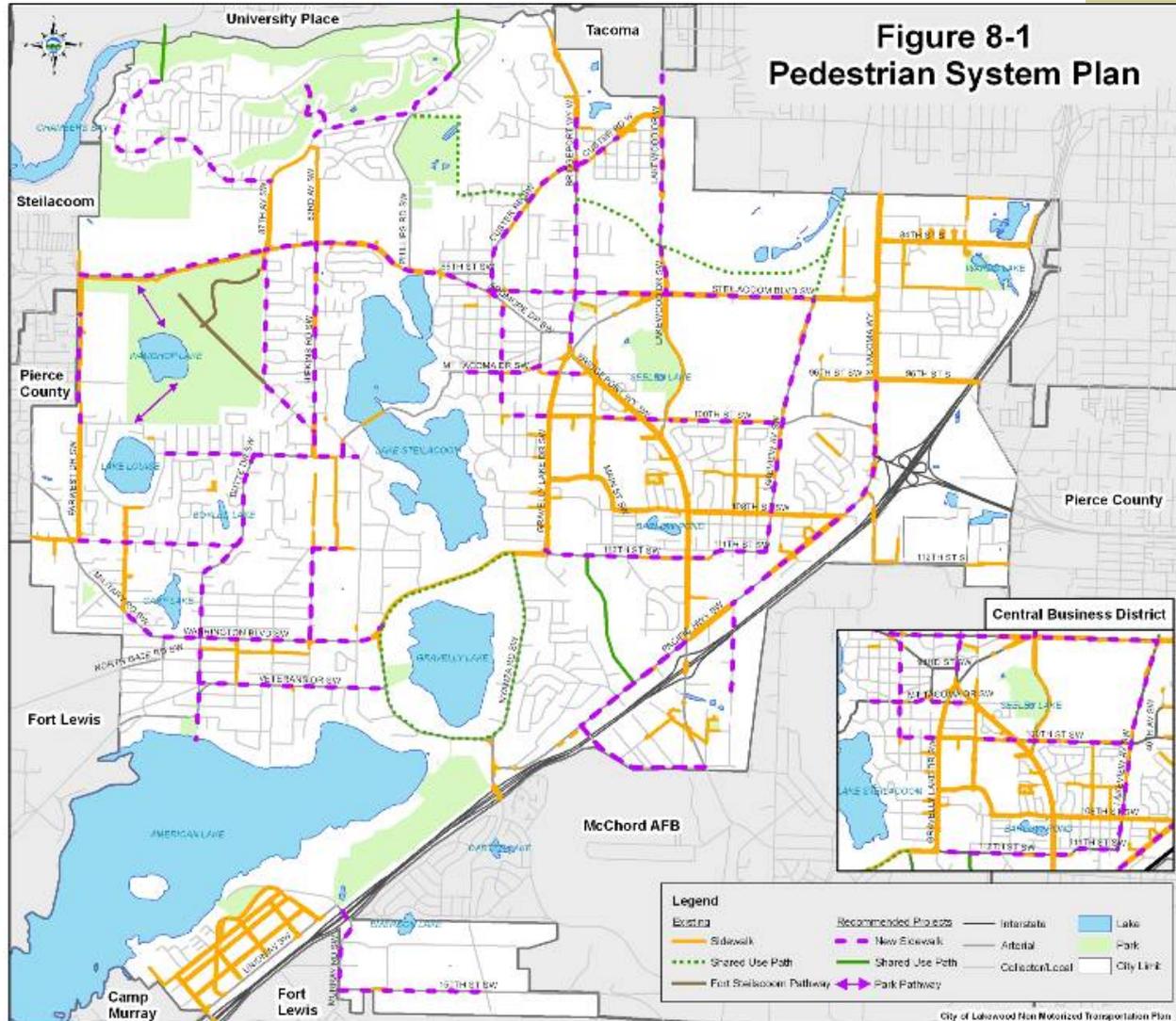
Challenges

Transportation – Goals & Objectives

Provide safe, efficient, and convenient access to transportation systems for all people. (City of Lakewood Comprehensive Plan (2000))

- **Improve**
- **Protect**
- **Maintain**

Transportation – Infrastructure Improvement Priorities



Improve

- **Grant Dollars Awarded***
 - \$31+ Million
- **Sidewalks & Bicycle Lanes***
 - 25+ miles of sidewalks added
 - 7+ miles of bicycle lanes added
- **Street lights***
 - 1,000+ street lights added
- **Traffic signals***
 - Upgrades in timing and coordination



Pacific Hwy – Gravelly Lake Drive
to Bridgeport Way

*since incorporation (1996)

Improve

Maximizing Current Resources

- In-house vs. Outsource
 - City O&M vs. Pierce County Contract
 - City design versus consultants
 - Private contract sweeping vs. Pierce County Contract
- Preserve what we have
 - Better utility restoration standards & utility coordination
 - Video detection vs. loop detection
- Take advantage of grants to overlay roads

Protect

- Safety Improvement Projects (Motor / Whitman Signal)
- Neighborhood Traffic Control Program
- Traffic curbing
- Street lights



Motor-Whitman Traffic Signal



Angle Lane – Speed Feedback / Radar Sign



Fairlawn / 59th Traffic Circle

Maintain

Street Assets

- 181 centerline miles of roadway
- 70 traffic signals
- 25+ miles of sidewalks
- 3,000+ streetlights

\$250+ Million of street assets

\$190+ Million in pavement

Pavement Management

- Pavement Condition Index (0 to 100)



Pacific Hwy – New Overlay

No Maintenance Needed

PCI = 100



Detroit Ave – Chip Seal / Minor Cracking

Minor preventative maintenance

PCI = 85

Pavement Management (cont'd)

- Pavement Condition Index (0 to 100)



San Francisco Ave – Mod. Cracking
Moderate preventative maintenance
PCI = 64



Fairlawn Dr – Major Cracking
Structural Repair
PCI = 49

Pavement Management (cont'd)

- Pavement Condition Index (0 to 100)

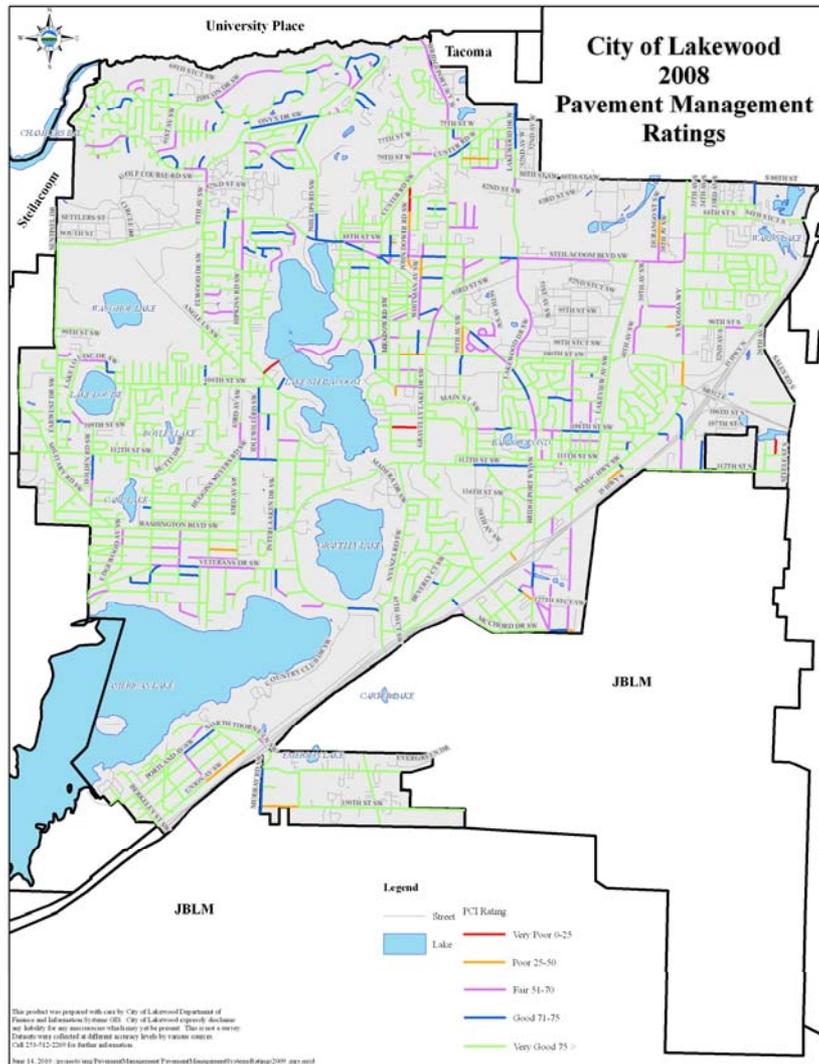


John Dower Road – Severe Cracking

Reconstruct = Rock Base + Pavement

PCI = 17

Pavement Condition Index (PCI) Lakewood



FY 2008
City of Lakewood
Overall PCI = 74

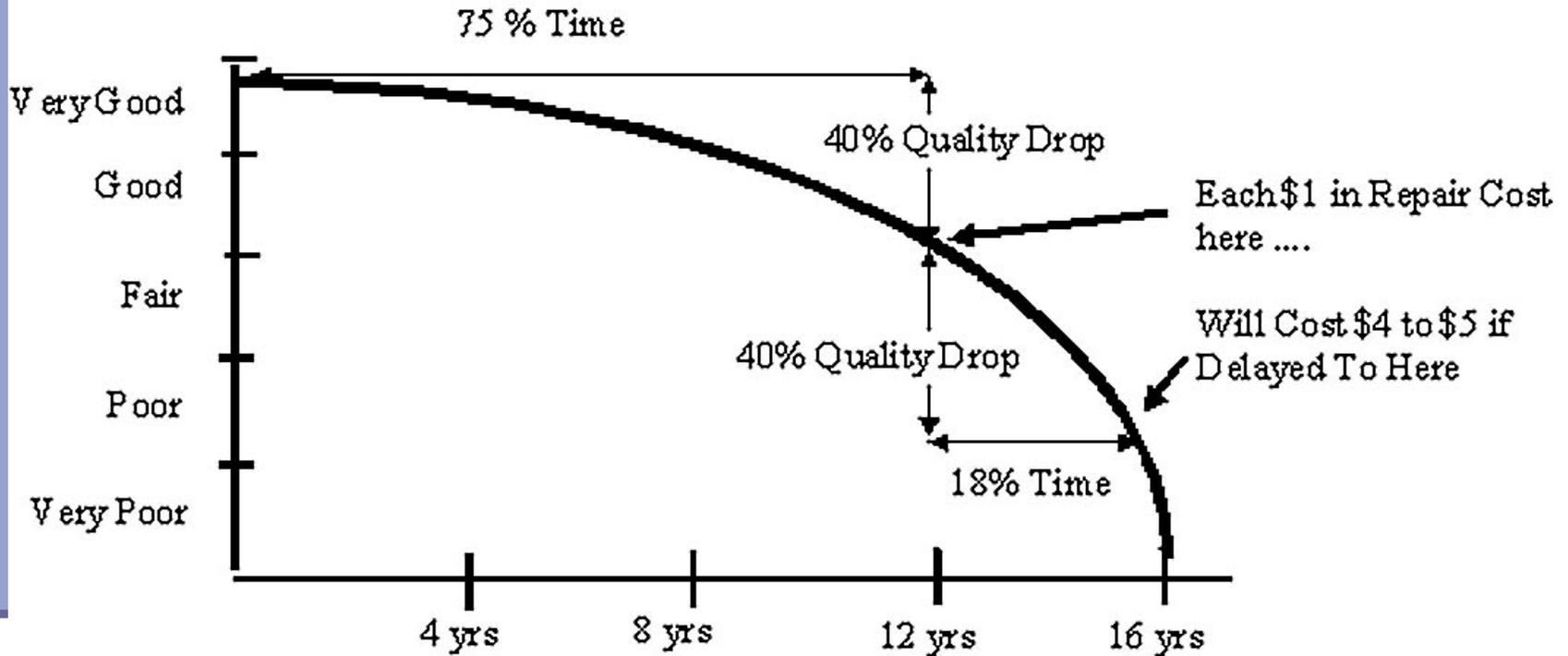
Pavement Condition Index (PCI) – Comparisons (FY 2008)

City	Average PCI	Centerline Miles	Annual Budget
Lakewood	74	181	\$1,000,000*
Redmond	84	130	\$600,000
Federal Way	79	225	\$2,250,000
Des Moines	75	93	\$630,000
Olympia	73	193	\$1,200,000
Kirkland	67	147	\$1,400,000
Tacoma	53**	855	\$3,700,000**

*This figure is based on FY2008 with \$600,000 in overlays and \$400,000 for chip sealing and patching.

** FY2007

Pavement Management (cont'd)



Generic Pavement Deterioration Curve

Adapted from: Road Surface Management for Local Governments

FHWA, DOT-1-85-37

Pavement Management – Example

108th Street – Main St. to Bridgeport Way

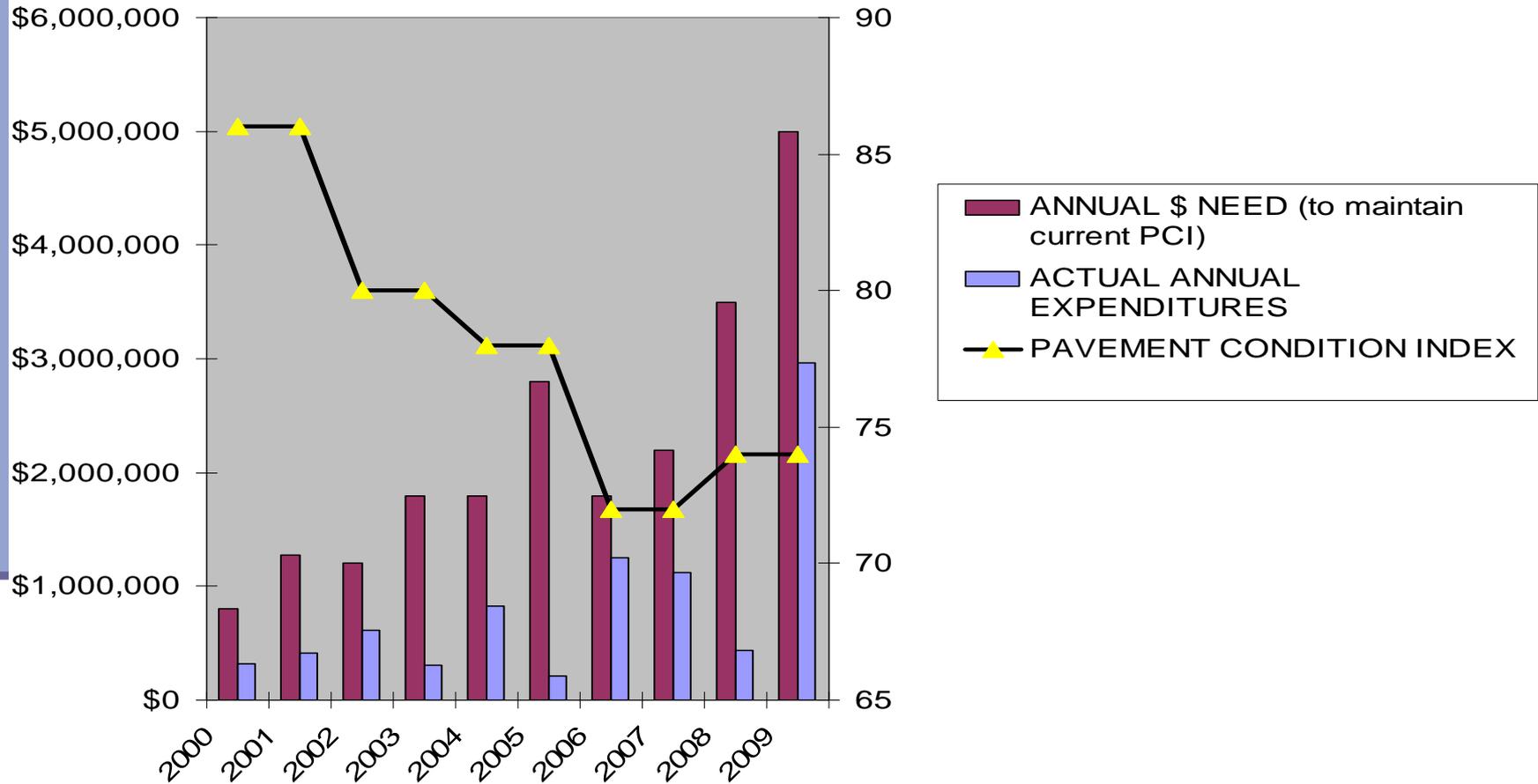


In 2008: Cost = \$ 270,000
Improve PCI from 58 to 100.

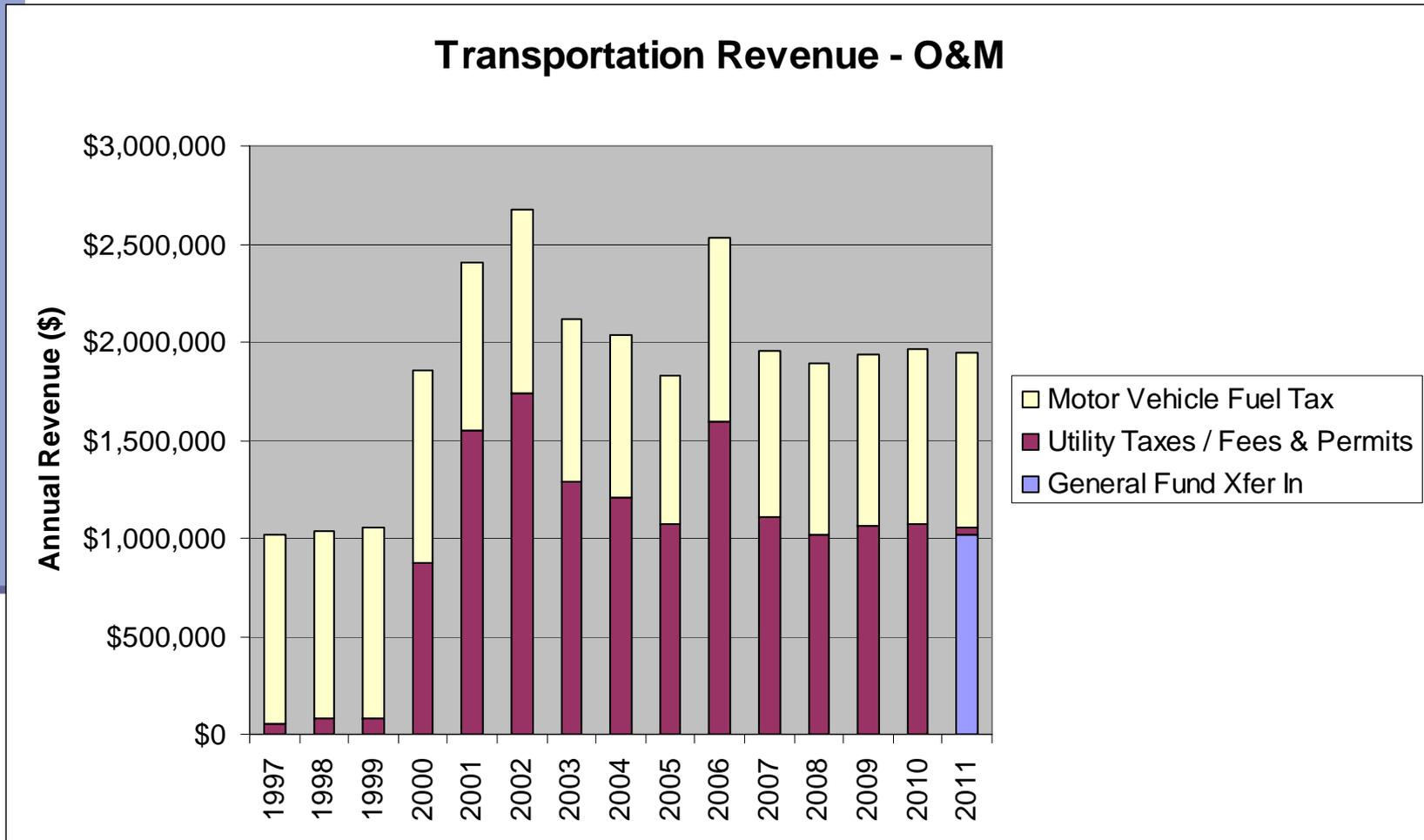
In 2011: Cost = \$ 540,000
Improve PCI from 29 to 100.



Pavement Condition Index History

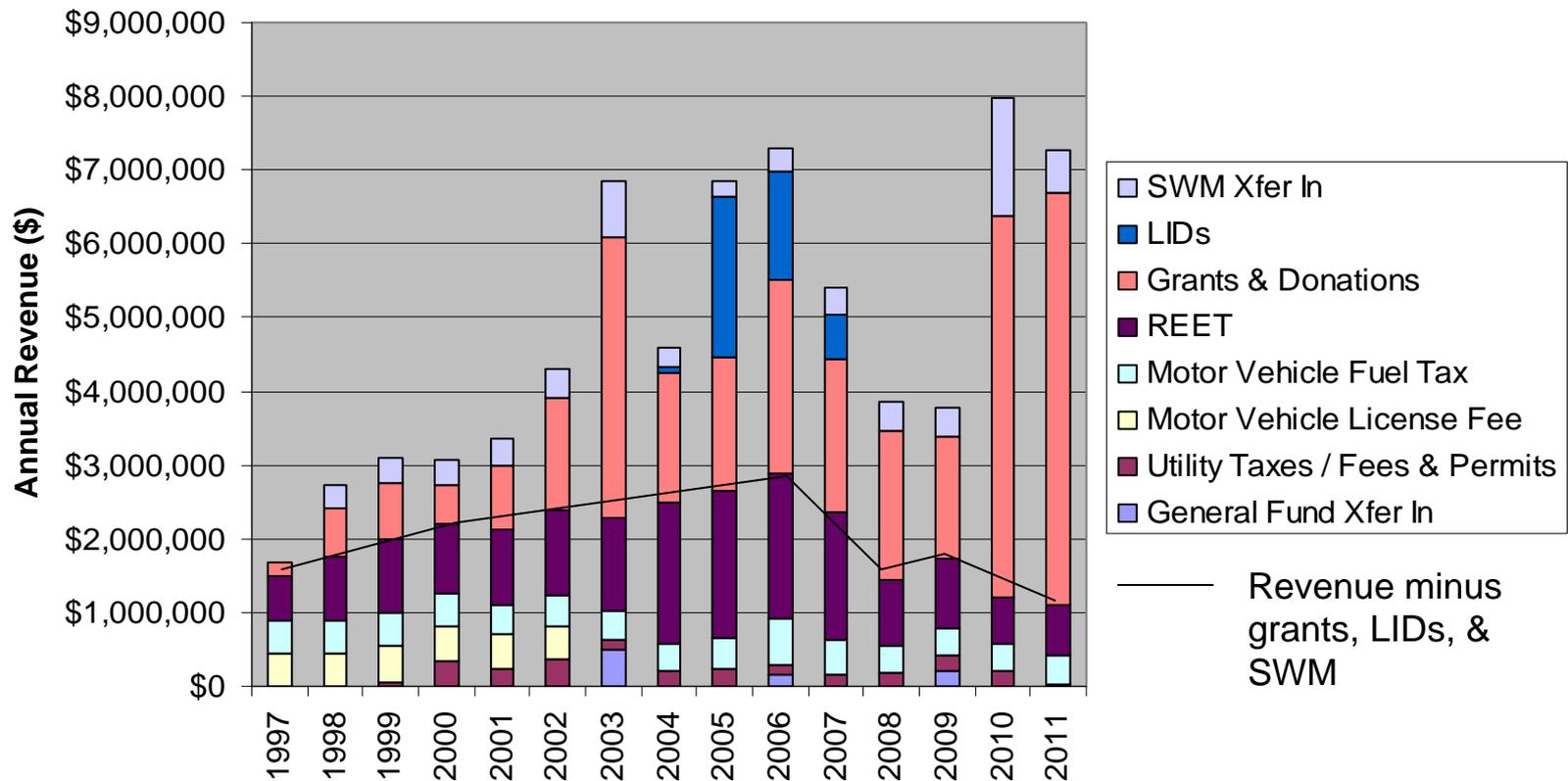


Transportation Revenue – Operation & Maintenance

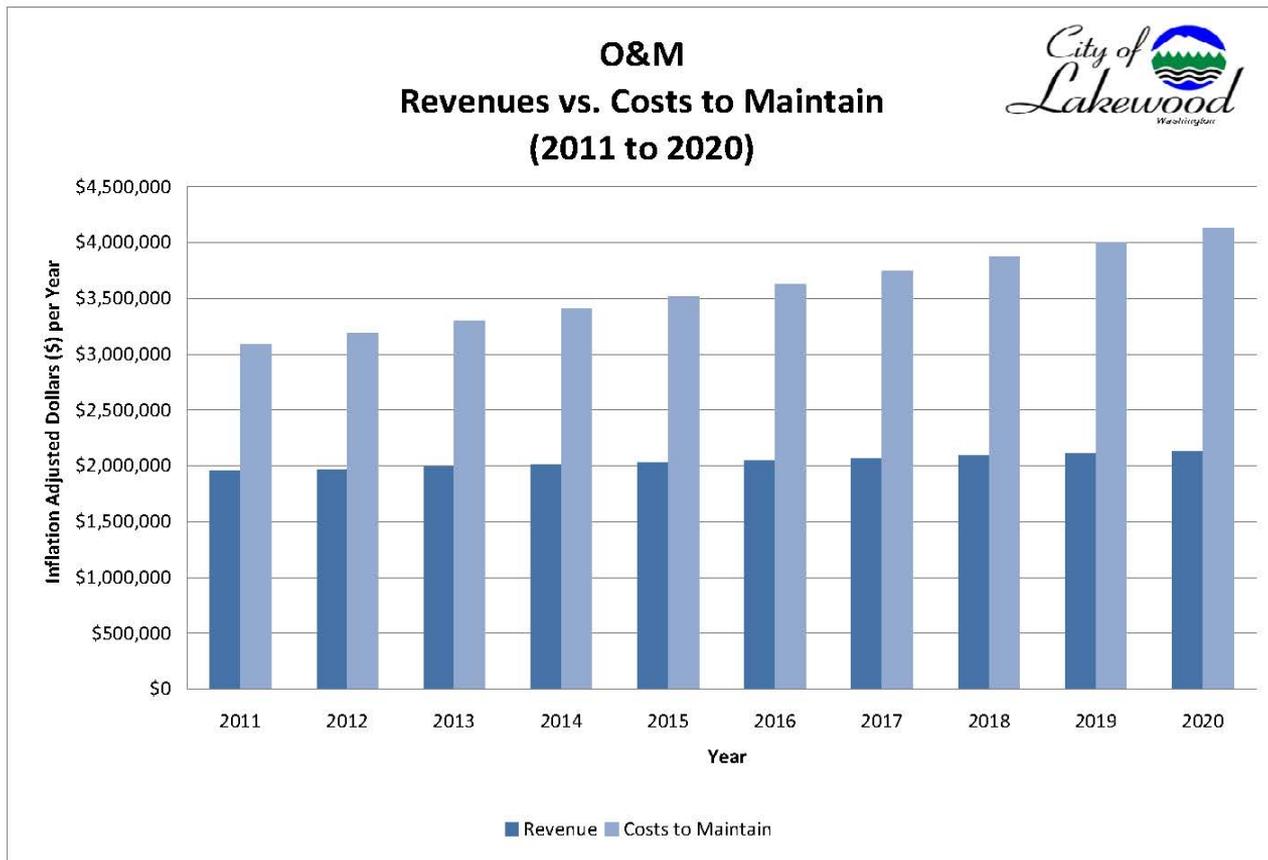


Transportation Revenue – Capital Improvements

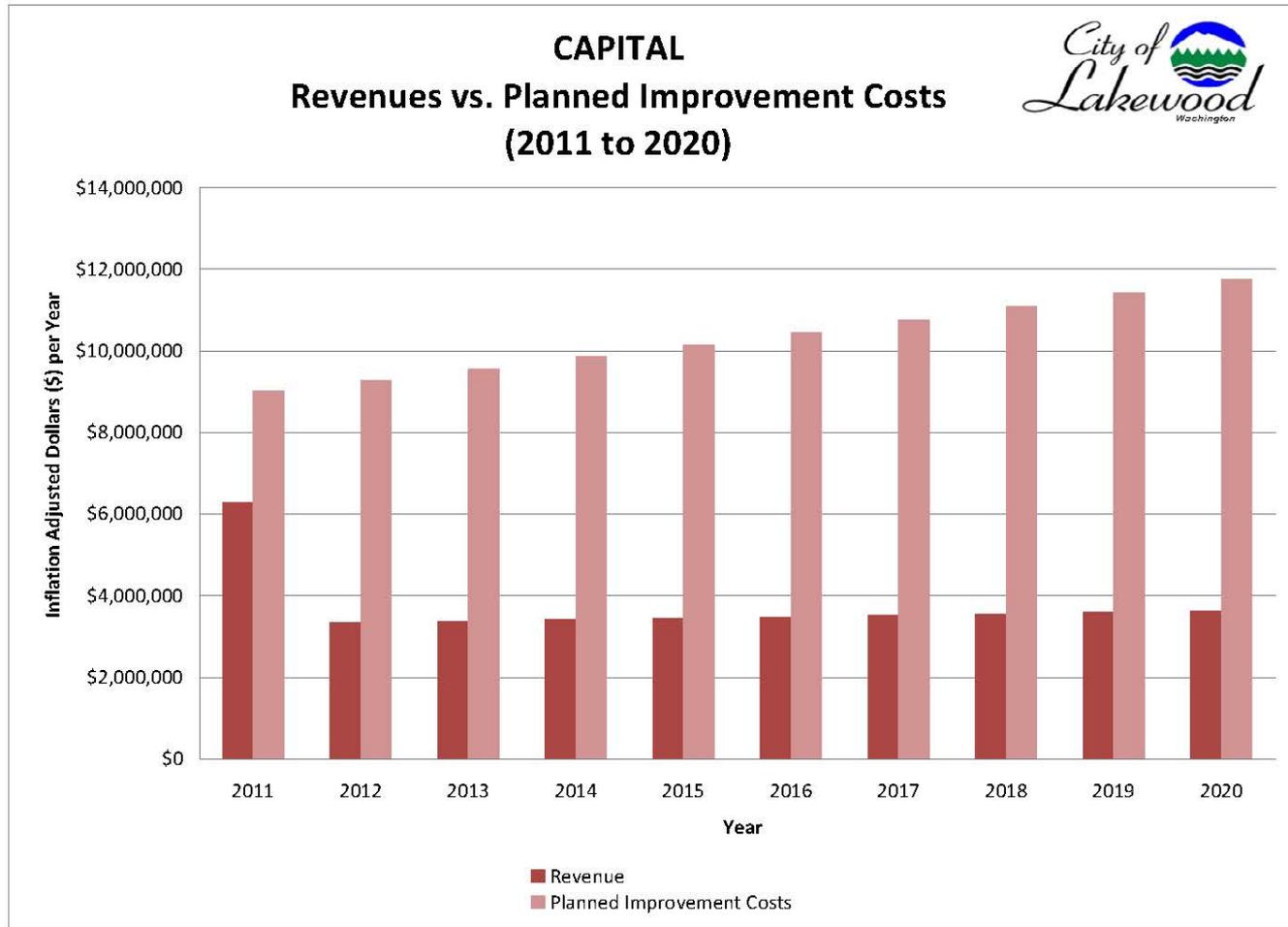
Transportation Revenue - Capital Improvements



Transportation Revenue vs. Costs to Maintain Street System



Transportation Revenue vs. Planned Improvement Costs



Transportation – Challenges and Opportunities

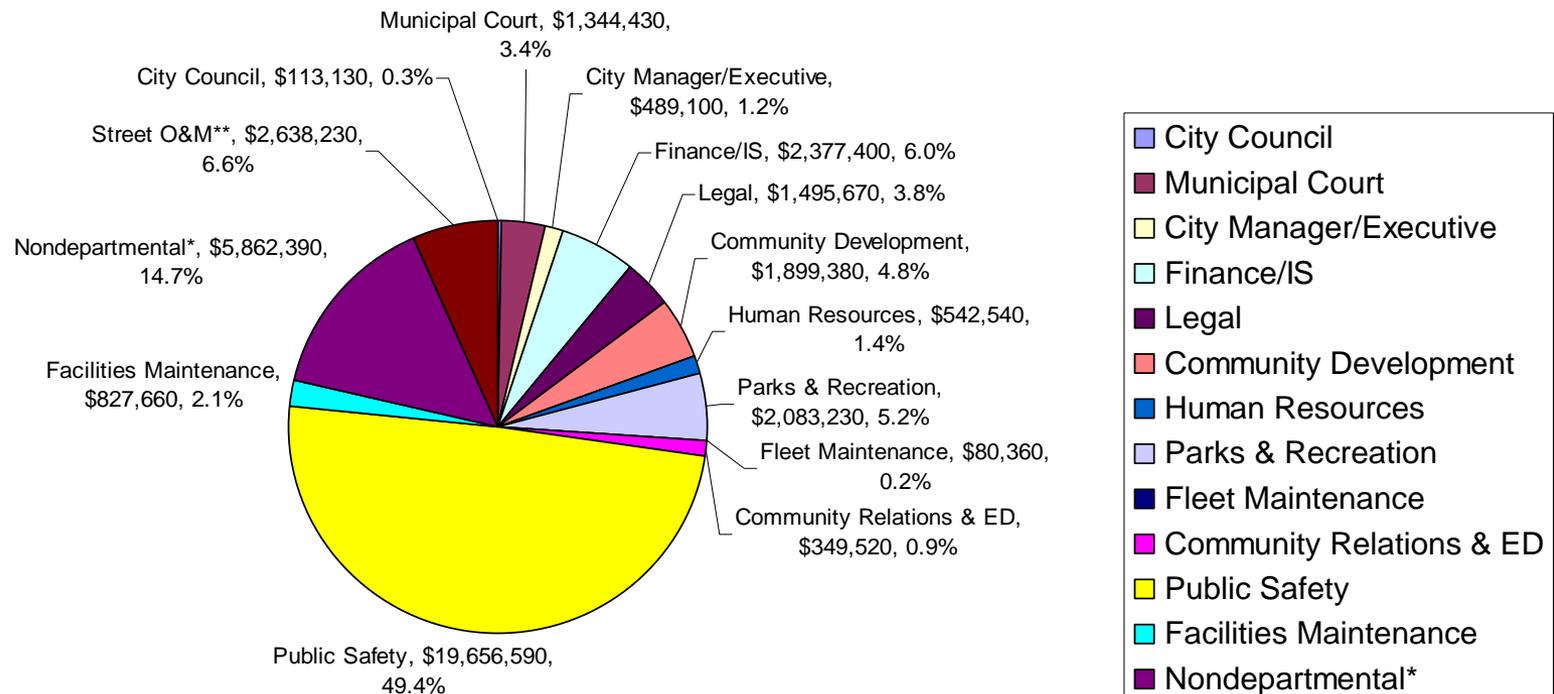
Challenges

- 1) Pavement condition has deteriorated below cost effective standards and continues to deteriorate
- 2) Drop in revenue
 - Unable to fund pavement management
 - Unable to fund capital improvements (grant match)
- 3) Grant Awards In-hand
 - South Tacoma Way – gap completion (\$3.0+ Million grant)
 - Bridgeport Way – gap completion (\$3.0+ Million grant)

City Budget

General Fund + Street O&M

**City Budget
General Fund + Street O&M**



Questions?
