



# Asset Management in Multnomah County Transportation

Key concepts and where we're headed.

Chet Hagen  
Asset Management Program Manager  
DCS - Business Services

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# Introduction

- What is Asset Management and Why are we investing in Asset Management?
- Key Concepts of Asset Management
  - Level of Service
  - Risk Management
  - Life Cycle Costs
  - Proactive
- Where is Transportation at in our journey?
- The Future
- Questions

**Please ask questions throughout the presentation**



# What do you do when you have a huge Country, with few people, and need to maintain a lot of infrastructure?

Asset Management started in Australia--the land down under was way under water maintaining their public infrastructure

*You understand what your community values, and then prioritize the services they want from your infrastructure.*



## Evolution of Asset Management Approach

### Traditional 'Asset Stewardship' Approach

- Asset Centric
- No formal consideration of how assets contribute to objectives
- Refurbishment/Replacement based on asset age and condition.
- May limit the adoption of strategic solutions, system optimization and cost effective operational solutions to defer work; thus overstating capital solutions



### 'Service Focused' Approach

- Customer Centric
- Considers the consequences of asset failure on objectives
- Refurbishment/Replacement based on risk to service delivery
- Considers the capability of a system of assets and operators to deliver services



## Level(s) of Service



# Risk Management

Consequence, Likelihood, and Criticality



Bid to repair the roof: \$5,000

Bid to repaint the exterior: \$5,000



**You only have \$5,000 - which do you choose?**

# Risk Management

## Triple Bottom Line

- Operations
- Financial
- Environmental
- Emergency Access
- Travel Time
- Safety
- Comfort
- Public Reputation



# Life Cycle Costs



**Total 5-Year Ownership Costs**

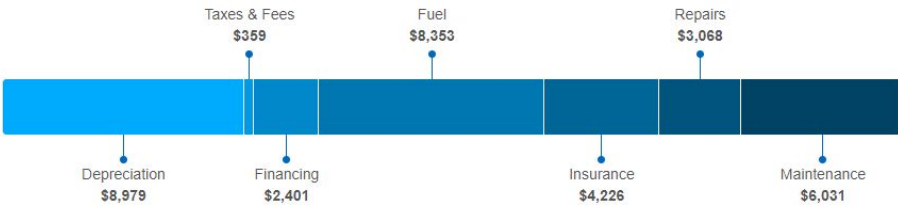
Select Model: 2.5i Premium PZEV 4dr SUV AWD (2.5L)

Near ZIP: 97206

True Cost to Own: **\$33,417\***

Total Cash Price: **\$15,359**

Photos & Videos



**Total 5-Year Ownership Costs**

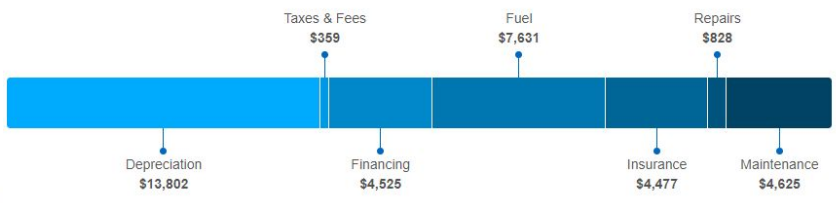
Select Model: Premium 4dr SUV AWD (2.5L 4cyl CVT)

Near ZIP: 97206

True Cost to Own: **\$36,247\***

Total Cash Price: **\$28,947**

Photos & Videos



## New Car vs. Used Car

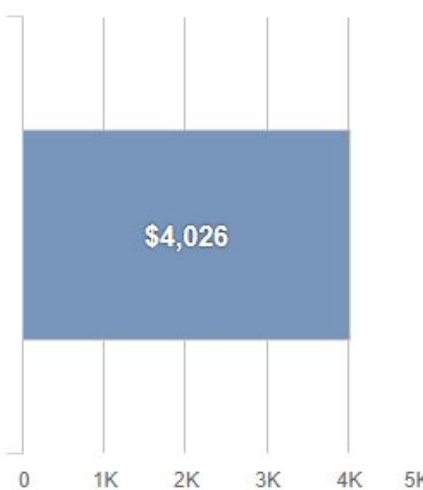




HELP

How long should I keep a vehicle?

Keeping a vehicle longer will save you **\$4,026** in today's dollars +



0 1K 2K 3K 4K 5K

▶ GENERAL INFO

▼ KEEP IT

Years before selling  
10

Yearly repairs  
\$ 1,000

Yearly insurance  
\$ 600

Yearly registration  
\$ 200

## Life Cycle Costs

When is the right time to Sell?



# Proactive - Preventive Maintenance

Fair Repair Range

**\$586 - \$703**

Includes parts and labor



[Important Info & Definitions](#)

**60,000 Mile Service Includes:**

Fair Repair Range

**\$238 - \$309**

Includes parts and labor



[Important Info & Definitions](#)

**90,000 Mile Service Includes:**



## Proactive



# Proactive - Planning

## Policy, Strategy and Plans



# Our Journey



## Level of Service

Things we report to the Community

Technical Performance Measure

Customer Performance Measure

### Level of Service:

The Ride Quality on our Roads & Bridges will be maintained in a Good to Fair condition.

The Ride Quality on our Urban roads and Willamette River Bridges is maintained to achieve a Good condition.

The Ride Quality of our Rural roads and bridges is maintained to achieve a Fair condition.

Miles of Surface Seal

Lineal ft. of Crack Seal

PCI

% of Potholes repaired to reported

### Definition of Ride Quality:

- Good - A smooth road surface, few if any potholes, and a comfortable ride for bikers, pedestrians and motorists.
- Fair - A mostly smooth road surface, some potholes, and areas where bicyclists and pedestrians need to slow down or alter their path
- Poor - A rough road surface, many potholes, and bicyclists, pedestrians and motorists are required to slow down to avoid damage and injury

Things we can influence to increase or decrease level of service



## Our Journey

#1

POLICY



#2



#3



# Our Journey

## Equity & Asset Management

**How can we maintain our existing system, which favors people who already have their needs met, and at the same time improve our system to provide service to underserved communities?**

- **Service Levels** should acknowledge historical disparities in how and where we deliver our services, and set targets and performance measures that align us towards more equitable outcomes.
- **Equity in Participation**--we need to make sure that more voices are heard, and those voices meaningfully inform our decision making process and our service levels.
  - What should we do more of, and what should we do less of?
- **Criticality**--we can put additional weight on where a project is located and who it serves
- **Proactive management** will free up resources that weren't previously available. Where we have some discretion we can guide investments in underserved communities.





# Questions?

**Still Interested in Asset Management?**

**Go to: <https://theiam.org/knowledge/the-big-picture/>**

