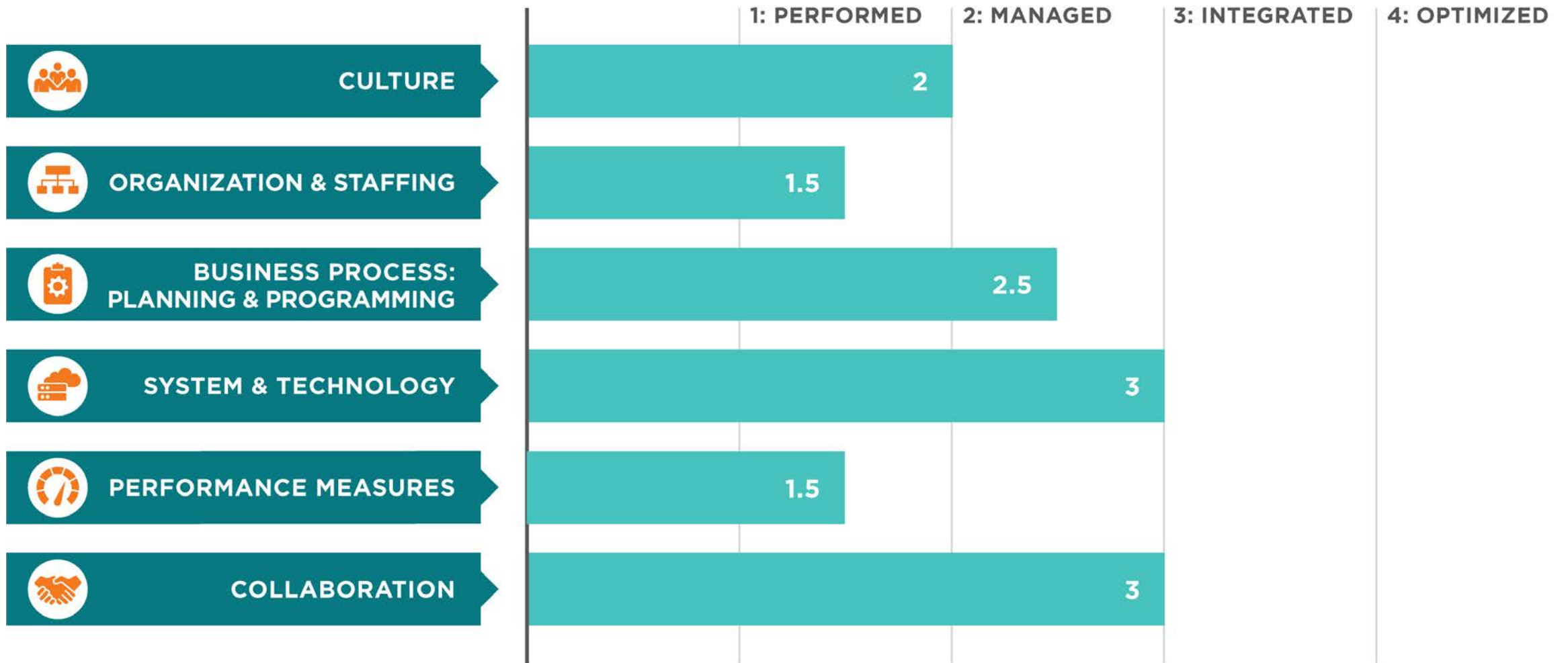# CMM Dimensions

BUSINESS

- Culture
- Organization & Staffing
- Collaboration

TECHNICAL

- Systems & Technology
- Performance Measures
- Business Process

2014 Consensus

|	1: PERFORMED	2: MANAGED	3: INTEGRATED	4: OPTIMIZED
CULTURE		2		
ORGANIZATION & STAFFING	1.5			
BUSINESS PROCESS: PLANNING & PROGRAMMING		2.5		
SYSTEM & TECHNOLOGY			3	
PERFORMANCE MEASURES	1.5			
COLLABORATION			3	

CMM Implementation
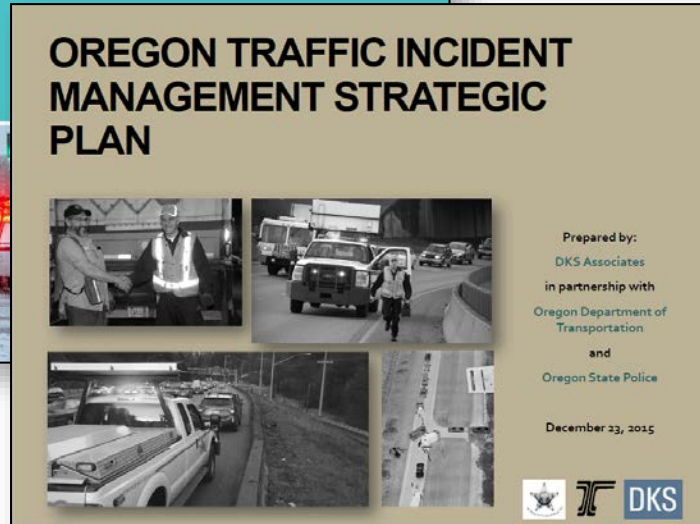
- Operations Performance Measures
- TIM Strategic Plan
- Analysis Procedures Manual – Operations Chapter
- New TOC Operator and Incident Responder Job Classifications
- ODOT First Responder Guide Update
- Operations Program Plan
- Operations Program Annual Report

Operations Program Performance Management Plan Overview

EXECUTIVE SUMMARY:

- Plan Purpose
- Program Areas and Overview
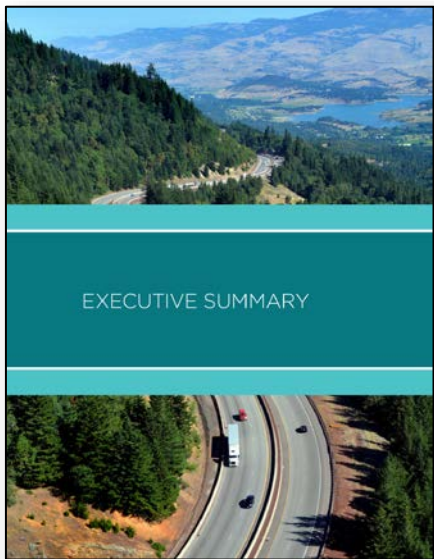
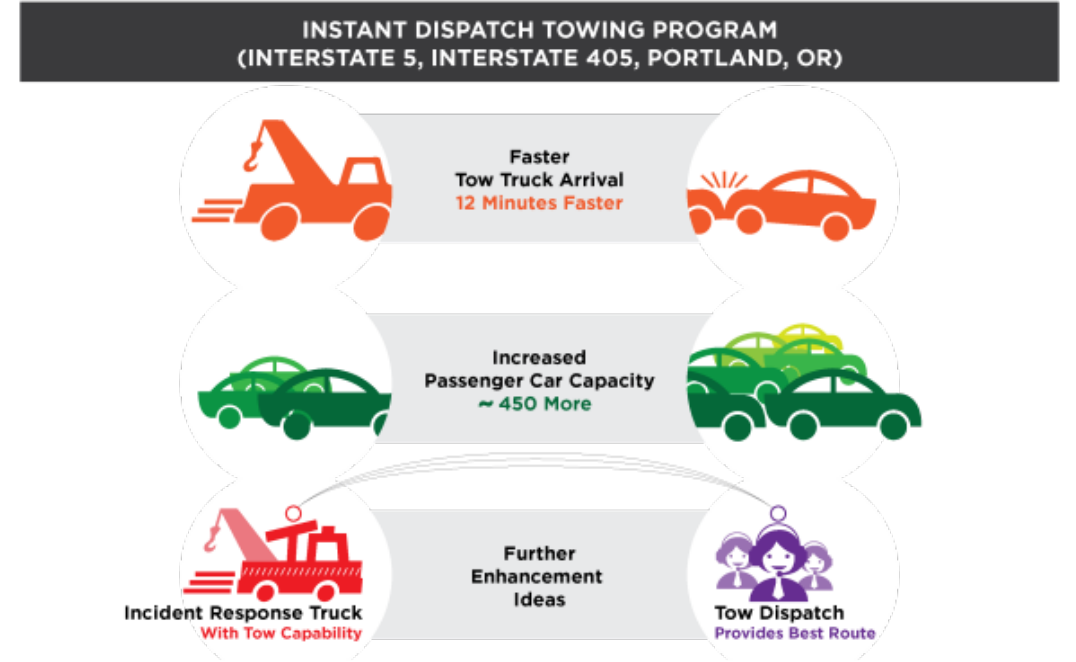**PROGRAM AREA PERFORMANCE MANAGEMENT PLANS:**

- Performance Measurement Goal(s)
- Existing Practices
- Core Measures
- Implementation Plan → Core Measures
- Communication Plan → Core Measures

Seven TSMO Program Areas

1. Traffic Incident Management
2. Mobility
3. Transportation Operations Center
4. Asset Management
5. Work Management (system RFWs)
6. Traveler Information
7. Traffic Signals
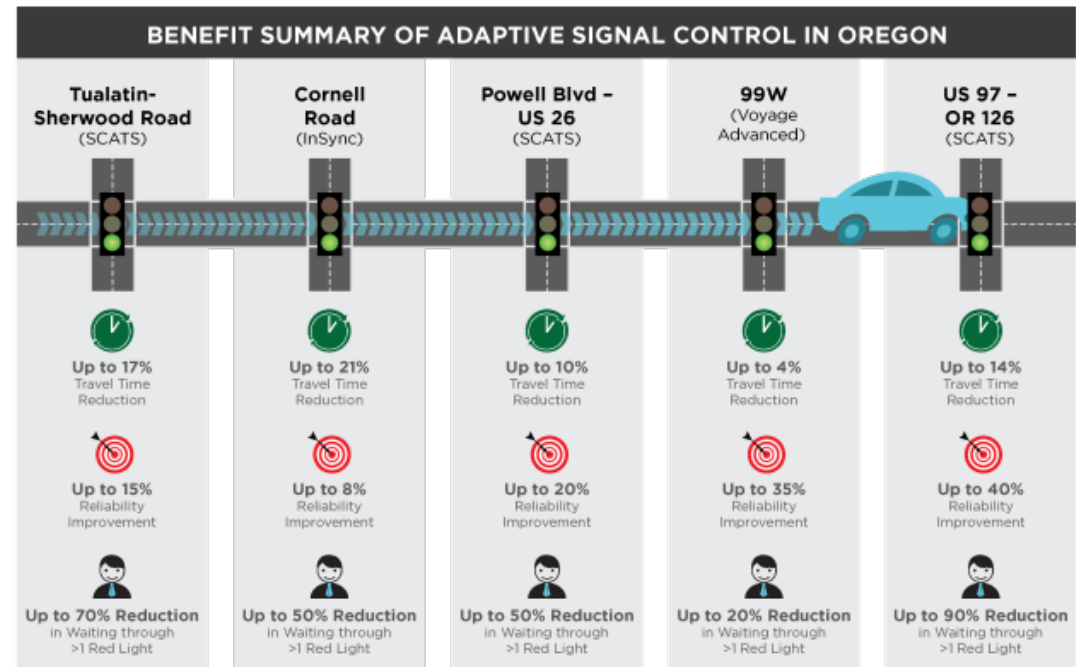
Use of Performance Measures

- Program Annual Report

- TIM Teams

- TIM Newsletter

- Inside ODOT and MainComm Newsletters

- Presentations

- Self-Serve Report Portal

2020
Operations Program
Annual Report

Oregon
Department
of Transportation

Asset Management

MISSION: Provide accurate and timely information to effectively maintain, operate, procure, test, repair, and replace TSMO assets.

CORE PERFORMANCE MEASURES:

TSMO ASSET INVENTORY AND LOCATION	**LABOR HOURS PER ASSET** For ITS and Traffic Signals	**ITS – PERCENTAGE OF ASSET BEYOND DESIGN LIFE** Transition to conditional rating	**TRAFFIC SIGNAL CONDITION RATING**	**SIGN – PERCENT FAILING RETRO-REFLECTIVITY**	**STRUCTURE – CONDITIONAL**

AUDIENCES: ITS, Maintenance and Operations, Traffic Systems Services Unit, Region and Statewide traffic staff, and Region Operations Program Funding Managers

ODOT BIDW Program Enterprise Architecture

**ALL DATA TYPES**

- PROJECT
- MAINTENANCE & OPERATIONS
- COMPLIANCE
- ITS
- HIGHWAY ASSET
- PURCHASING
- FINANCIAL
- PRECONSTRUCTION
- CPS
- CONTRACT

DATA WAREHOUSE

VISUALIZATION TOOLS

- Power BI Report Server
- Power BI
- Excel
- OTHER TOOLS

ITS Assets Beyond Design Life Trend

PERCENTAGE OF ALL REGIONS:

Class	2021	2022	2023	2024	2025	2026	2027	2028
Camera – Fixed	0%	0%	0%	0%	0%	0%	0%	1%
Camera – Pan Tilt Zoom	31%	37%	40%	49%	56%	59%	60%	61%
Detector Station – Bluetooth	49%	64%	67%	86%	100%	100%	100%	100%
Detector Station – Loops	100%	100%	100%	100%	100%	100%	100%	100%
Detector Station – Radar	0%	18%	39%	46%	55%	61%	67%	79%
HAR Beacon	94%	94%	94%	94%	100%	100%	100%	100%
HAR Transmitter	86%	86%	100%	100%	100%	100%	100%	100%
Portable – SWZT	0%	0%	0%	0%	0%	0%	0%	0%
Portable – VMS	1%	1%	2%	19%	23%	24%	29%	30%
Ramp Gate	0%	0%	0%	0%	0%	0%	0%	0%
Ramp Meter	0%	0%	0%	0%	0%	0%	0%	93%
RWIS	15%	16%	16%	19%	24%	25%	26%	27%
VMS – Curve Warning Sign	0%	0%	0%	13%	13%	13%	13%	13%
VMS – Drum	33%	33%	33%	38%	38%	38%	38%	38%
VMS – General Purpose	5%	6%	9%	12%	13%	16%	17%	21%
VMS – Rider	0%	0%	0%	0%	0%	0%	0%	0%
VMS – Travel Time Sign	0%	0%	0%	0%	0%	0%	0%	0%
VMS – Variable Speed Sign	0%	0%	0%	0%	0%	0%	0%	0%
Weather Warning System	0%	50%	50%	56%	69%	75%	75%	75%
Total	**11%**	**14%**	**17%**	**22%**	**26%**	**27%**	**28%**	**38%**

R1 PORTLAND METRO AREA:
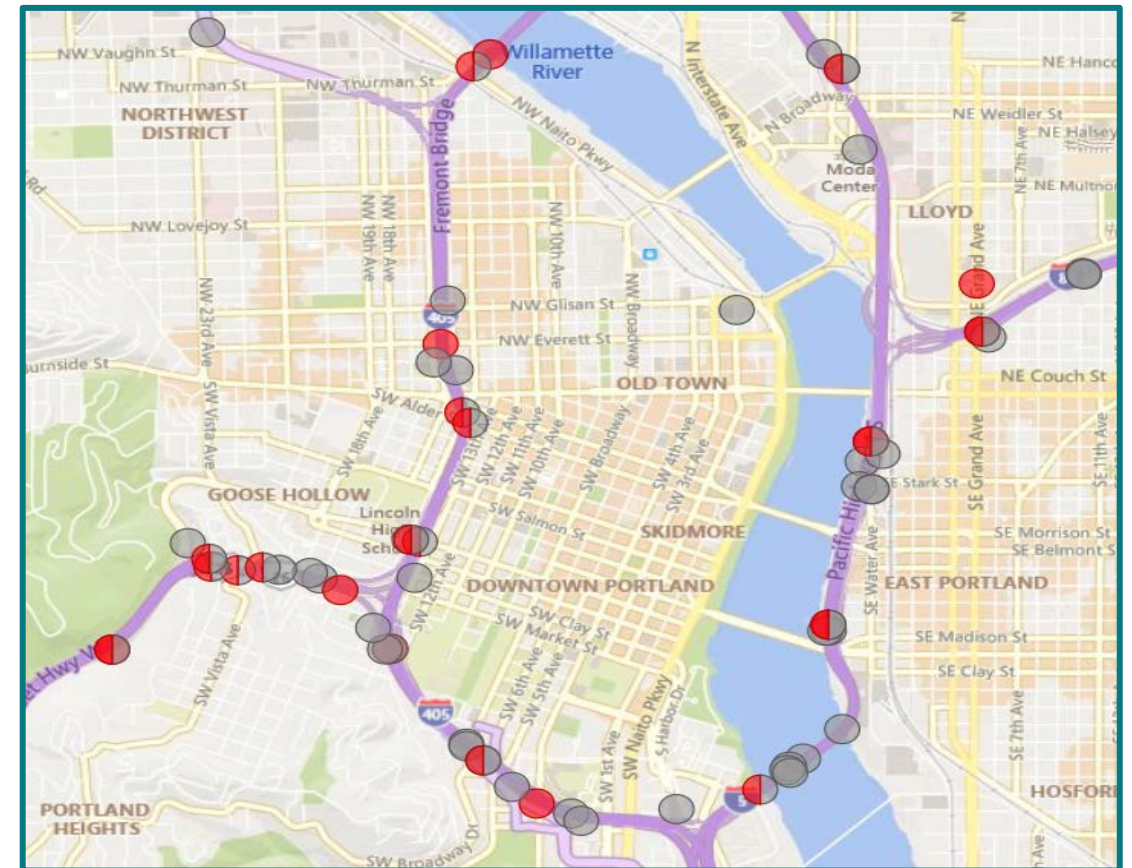
Labor Report

Total Labor Hours Per Asset

Classification(s): VMS - General Purpose

Region(s): Region_1, Region_2, Region_3, Region_4, Region_5

Dates: 1/1/2019 to 12/31/2020

Asset	Region	# WOs in Date Range	Total Asset Hours	Avg Hours by Region
VMS OR22 @ Eola EB MP21.93	Region_2	2	91.00	19.22
VMS I84 WB @ Ontario (Snake River) MP377.9	Region_5	5	84.50	20.24
VMS US101 SB @ MP22.5 Seaside	Region_2	6	78.50	19.22
VMS US30 WB @ Prescott Rainier MP44.79	Region_2	7	77.50	19.22
VMS US97 SB @ Biggs Jct MP.06	Region_4	4	75.50	16.93
VMS I5 SB @ Arndt Rd MP280.66	Region_2	7	75.00	19.22
VMS I5 NB @ Columbia MP305.67	Region_1	6	74.75	6.89

Sign Count Failing RetroReflectivity

Year	2017			2018			2019			2020		
Region	Total Failed	Total Installed	% Failure	Total Failed	Total Installed	% Failure	Total Failed	Total Installed	% Failure	Total Failed	Total Installed	% Failur
1	41	32393	0.127%	30	31712	0.095%	33	32244	0.102%	37	31064	0.119%
2	374	64619	0.579%	388	63883	0.607%	520	62956	0.826%	428	63369	0.675%
3	730	24384	2.994%	638	25256	2.526%	418	25309	1.652%	398	27061	1.471%
4	875	22444	3.899%	1022	22876	4.468%	825	24292	3.396%	808	25076	3.222%
5	186	31160	0.597%	188	31498	0.597%	361	31621	1.142%	507	31587	1.605%
Total	**2206**	**175000**	**1.261%**	**2266**	**175225**	**1.293%**	**2157**	**176422**	**1.223%**	**2178**	**178157**	**1.223%**

Year	2019			2020		
District	Total Failed	Total Installed	% Failure	Total Failed	Total Installed	% Failure
1	83	16363	0.507%	79	16370	0.483%
2B	19	22919	0.083%	21	21620	0.097%
2C	14	9325	0.150%	16	9444	0.169%
3	117	18583	0.630%	233	19225	1.212%
4	317	16706	1.898%	115	16613	0.692%
5	3	11304	0.027%	1	11161	0.009%
7	101	13919	0.726%	90	14830	0.607%
8	317	11390	2.783%	308	12231	2.518%
9	612	8177	7.484%	555	8360	6.639%
10	109	8789	1.240%	52	8984	0.579%
11	104	7326	1.420%	201	7732	2.600%
12	344	13098	2.626%	477	13084	3.646%
13	15	9283	0.162%	27	9315	0.290%
14	2	9240	0.022%	3	9188	0.033%
Total	**2157**	**176422**	**1.223%**	**2178**	**178157**	**1.223%**

% Failure by District — Year: 2017, 2018, 2019, 2020
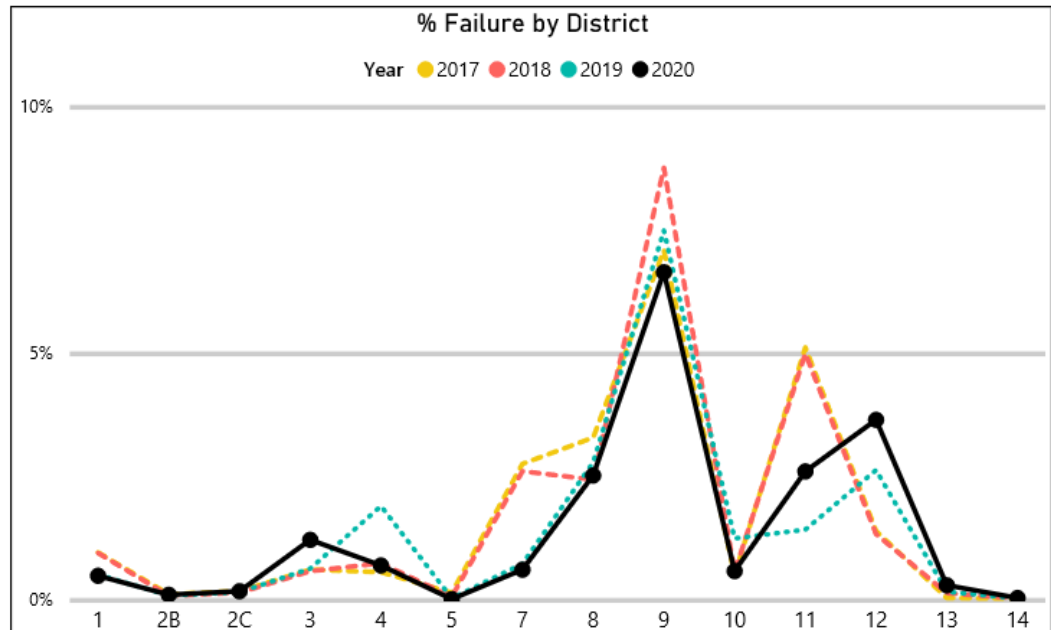
Traffic Structures – 2020 Snapshot

2020 Substructure Rating by Region

Rating	Fair		Satisfactory		Good		Very Good		Total	
Region	CNT	%	CNT	%	CNT	%	CNT	%	CNT	%
1	4	0%	166	18%	165	17%	212	22%	547	58%
2	2	0%	15	2%	121	13%	81	9%	219	23%
3			12	1%	22	2%	39	4%	73	8%
4			3	0%	12	1%	37	4%	52	5%
5			1	0%	4	0%	52	5%	57	6%
Total	6	1%	197	21%	324	34%	421	44%	948	100%

2020 Superstructure Rating by Region

Rating	Poor		Fair		Satisfactory		Good		Very Good		Total	
Region	CNT	%	CNT	%	CNT	%	CNT	%	CNT	%	CNT	%
1	3	1%	10	2%	179	33%	152	28%	203	37%	547	100%
2			1	0%	14	6%	122	56%	81	37%	218	100%
3			2	3%	9	12%	17	23%	45	62%	73	100%
4							13	25%	38	75%	51	100%
5							4	7%	53	93%	57	100%
Total	3	0%	13	1%	202	21%	308	33%	420	44%	946	100%

2020 Substructure Rating (<Satisfactory)

Rating ● Fair
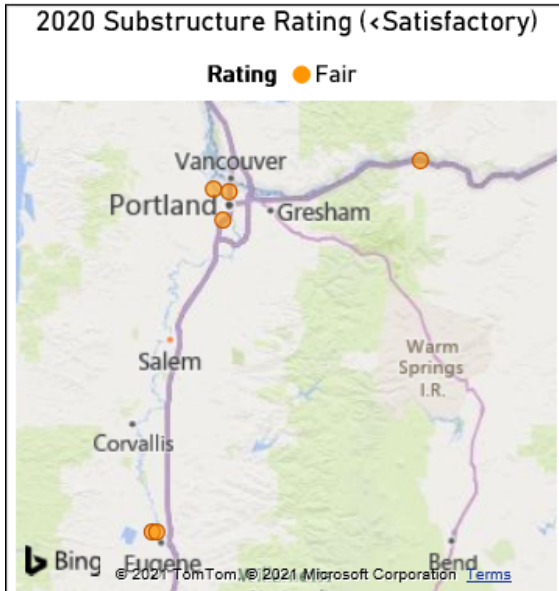
Rating	2018	2019	2020
Poor			
Fair	0.5%	0.4%	0.6%
Satisfactory	22.6%	24.3%	22.8%
Good	32.2%	31.2%	34.4%
Very Good	44.7%	44.1%	42.2%
Excellent			

2020 Superstructure Rating (<Satisfactory)

Rating ● Poor ● Fair
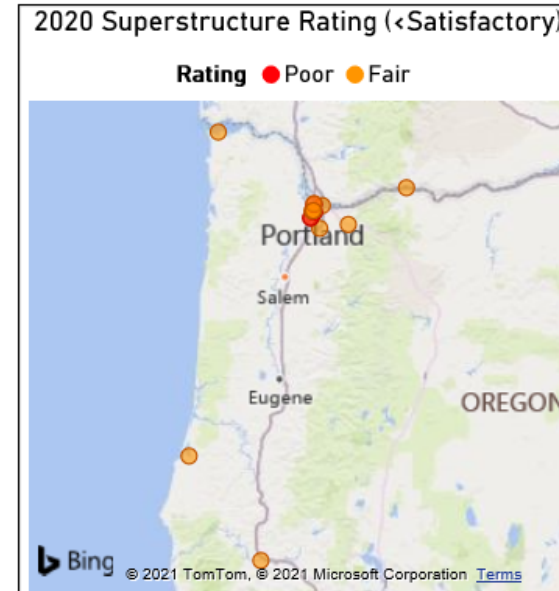
Rating	2018	2019	2020
Poor	0.4%	0.4%	0.4%
Fair	1.3%	1.3%	1.4%
Satisfactory	23.6%	25.2%	23.4%
Good	30.3%	29.6%	32.8%
Very Good	44.5%	43.6%	42.0%
Excellent			

Traffic Signal Rating