

Oregon Concrete & Aggregate Producers Association

December 7, 2017



eConstruction

Curb Ramp Program QC & QA Audits

02001 Specs Bidding Volumes

HB2017

ODOT's Integrated Approach



3D Design

Mobile LiDAR Survey

- Design Survey, Assets, Vertical Clearance
- Maintenance, i.e., Landslides

e-Construction

Inspector Positioning Tools

Automated Machine Guidance

- 3D Milling
- Machine generated as-Built Future

Intelligent Compaction

Hyperlink to ODOT ETA Section

ODOT's e-Construction Vision



Demonstrated return on investment

Think modularity & beyond the next potential use





Paperless contracting

Filter and sort electronic documents quickly and get your hands on what you need. All stakeholders will always know the status of a document without the hassle of a VPN or FTP.



Route documents with ease

Configure the document workflow so that you determine who gets what document and when. Built-in security provides read-only access for stakeholders.



Email notifications

Get email notifications instantly or daily with a status change of a document and when it's your turn to sign.



Mobile accessibility

Check the status of a document on any device at any time. Use your smartphone, tablet or laptop - whatever is handy.



Electronic signatures

Get the added security that comes with an electronic signature on all applicable documents.



Sign-up and go

Intuitive service means little to no training is required. Just sign-up and get to work today.







Login to Doc Express

An e-Construction solution for documents

Route and store the construction docs you need. Know the status from any device, at any time.

Internet Login on any desktop, laptop, or smart phone by hardline or Wi Fi

Stop searching for lost or damaged paper.

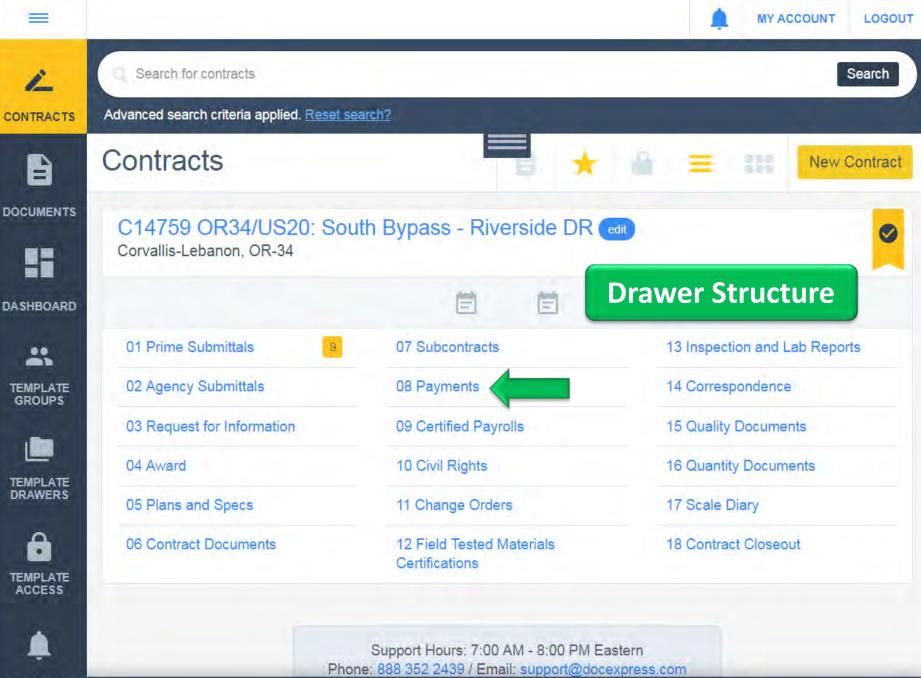
The Doc Express service can improve your processes as part of your e-construction initiative.

See how it is helping lowa DOT reach its paperless contracting goals.

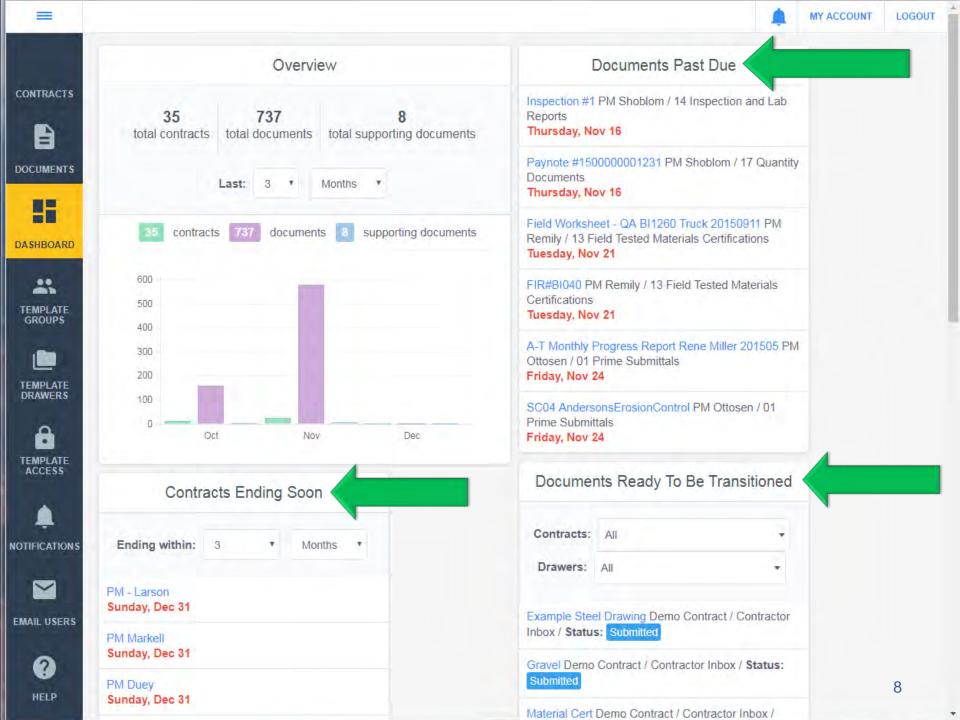


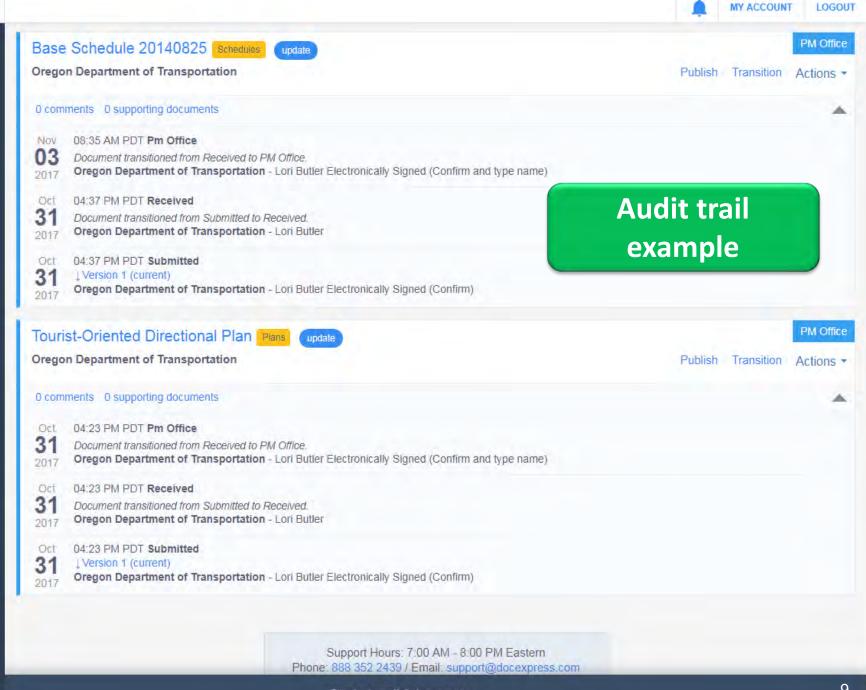
Paperless contracting

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NOTIFICATIONS







- Contractors viewed & tested demo site
- Completed ODOT staff training
- Finalizing updates to the spec language
 - To be added to pilot contracts by no cost change order
- Live site open November 27th
- Live Project Pilots Begin Region 1 and 3
 - Training for PM office & Contractor
 - Monitor Live Pilots for a few weeks ensure all is working
- Load November & December bid projects
- Effective January 1st, all new projects in Doc Express





Doc Express does not replace communication between ODOT & Contractor

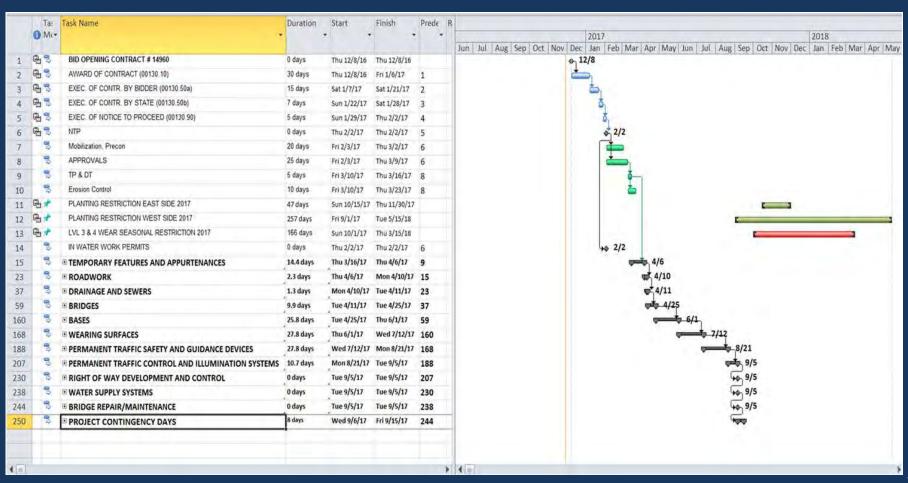






ODOT Pilot - Work Windows Schedule

- Beta testing now
- Provided at Bid Advertisement
- Bidders should consider comment interim and final completion date(s)



ODOT - Wage Zone Determination Calculator

- Takes 10 minutes versus hours or days
- Provided during Bid Advertisement
- Bidders may use at their risk
- DOJ guidance provided
- Reduces ODOT & potentially contractor/ subcontractor calculation time

Contract Information

Project Name: US199 FROM SLATE CREEK - CAVE JUNCTION PAVING SOUTH

Contract Number: 14732
Key Number: 18094
Bid Let Date: 9/25/14
Project Counties: Josephine

Project Manager: Tim Fletcher, P.E., PM

Wage Determination Information

Determination Status: REVISED Davis Bacon Date: 9/19/14 **BOLI Date:** 7/1/14 Segment MP: 29.23 Segment County: Josephine ZIP Code: 97523 Longitude: -123.6481 Latitude: 42.1589

CRAFT	GROUP	BASE RATE	ZONE	ZONE PAY	FRINGE	Straight (Base + Zone)	Overtime (Base + Zone) *	ST+ FRINGE	OT+ FRINGE	Source	City	Miles
Laborer	1	\$26.09	zone 1	\$0.00	\$12.85	\$26.09	\$39.14	\$38.94	\$51.99	D-B	Grants Pass	25.68
	2	\$27.09	zone 1	\$0.00	\$12.85	\$27.09	\$40.64	\$39.94	\$53.49	D-B	Grants Pass	25.68
	3	\$22.57	zone 1	\$0.00	\$12.85	\$22.57	\$33.86	\$35.42	\$46.71	р-в	Grants Pass	25.68
GROUP ELIMINATED 2013	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	NA	NA	
Flagger	3	\$22.57	zone 1	\$0.00	\$12.85	\$22.57	\$33.86	\$35.42	\$46.71	D-B	Grants Pass	25.68

ODOT - Curb Ramp Program

ODOT Reaches ADA Settlement November 3, 2016

\$5M quick-start commitment

\$18M programed in 2018 STIP

Goals: 30% by 2022 75% by 2027

Completed by Dec. 31, 2032





ADA Settlement Hyperlink

ODOT - Curb Ramp Program



- About 15,000 Curb Ramps
- Inventory underway
- Ramps to be constructed:
 - o 4,500 by 2022 (30%)
 - 6,750 during 2023 to 2027 (75%)
 - o 3,750 during 2028 to 2032 (100%)
- Programmatic Bio, Archy, R/W
- Exploring delivery means:
 - o Design Bid Build
 - o Design Build
 - o CMGC
 - o Hybrid, IDIQ



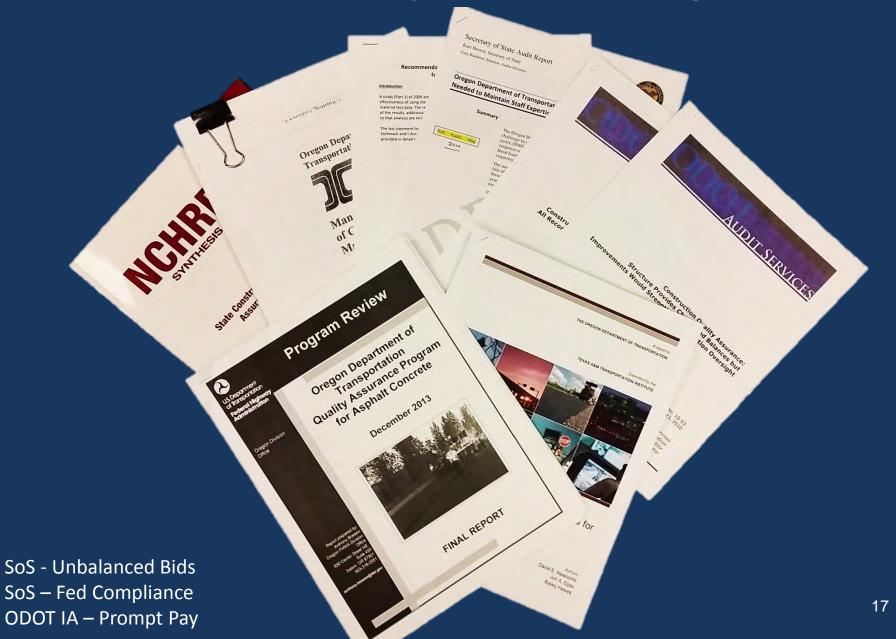
ODOT - Curb Ramp Program Risks & Opportunities

- Trained contractors & others effective January 1, 2018
- Inspector consistency fail ramps that should pass & vice versa



- Year-round work
- 3 to 6 pilots:
 - Test contracting concepts
 - o DOJ exemptions
 - Field design then build
 - Urban & Rural

ODOT's Quality Assurance Program



Specifications

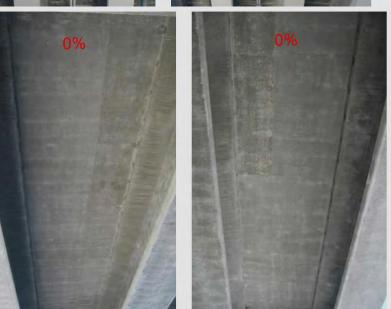
Bridge deck concrete, cracking, studs, & increased salt usage

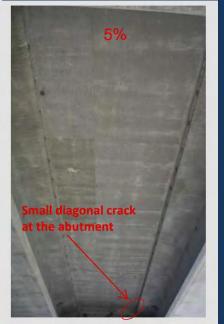


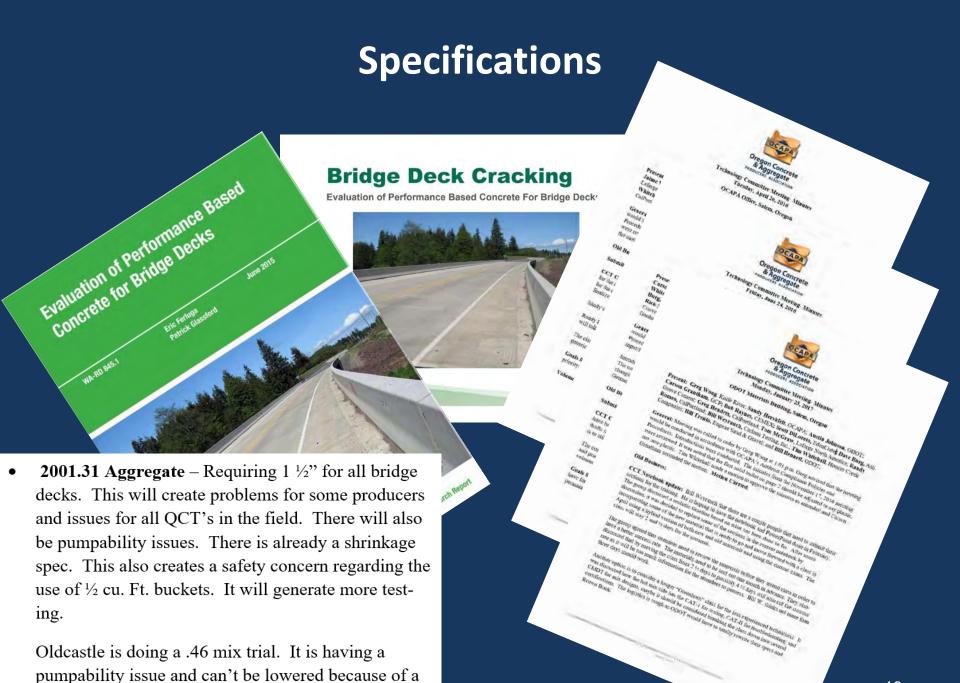
Traditional bridge deck concrete requirements

Both bridges 2011 construction

Performance based bridge deck concrete requirements







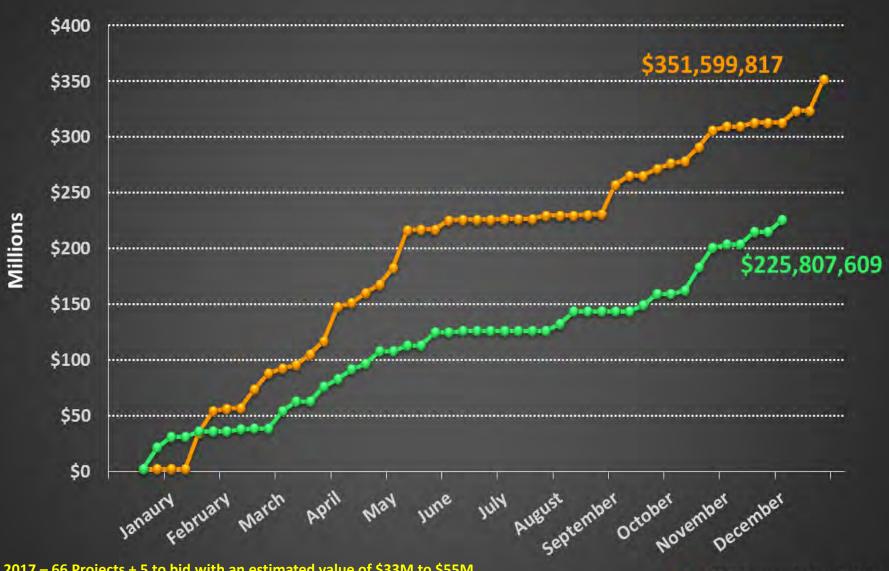
combined blend of 1 ½ to 4.

19

Specifications

WsDOT Spec Summary Placing, Curing and Finishing Requirements						Selected DOT Concrete Specs					
							ODOT	WsDOT			
Traditional Performance Based Temperature Services 1985 1985				ormance Based		Shrinkage	0.045%	0.032%			
During Placeme	nent Betw	veen 55°F and 90°F		tween 55°F and 75°F		Uniformity	None	Required (when issues arise)			
Temperatu Monitoring A Placemer Performance Mix Design Requirements					S	Min. Cement	None	Required			
T IGOOTTS.			raditional	Performance Based		Max Cement	None	None			
A		Air Content 4.5% to 7. Freeze-Thaw		5% 4.5% to 7.5% 3.0% min. air content		Min. Coarse Agg	Required	None			
	Dui (instead content r	Perforn	nance N	Mix Design Re		HPC Agg Size	1.5"	1.5"			
	Pern	Minimum 28-d		Traditional 4,000 psi	Performance Based 4,000 psi	ASR Mitigation	None	Required (depending on Agg Source)			
	Length (shr		N. St. Tax Co.	ype I or II Portland	Type I or II Portland	Soluble Chloride Ions	None	Required			
	Sc			735lbs minimum (660lbs cement & 75lbs fly ash)	No set limits (565/bs – 610/bs)	DOT Form	None	Required			
	Crack Adr	Cementitious Co				Cement Testing	None	Required			
	Aui	Fly Ash			Optional	Combined Gradation	None	Required			
		Nominal Max. S Aggregate		1-inch	1½-inch	Max W/CM Ratio	Required	None			
		Water Reduci	ing	Required	Optional	Test Slab Requirement	None	Required			
		Admixture		115 4-11-5	- P. 17.17	Permeability	Optional	Required			
						Freeze Thaw Testing	None	Required			
						Scaling	None	Required			
						Modulus of Elasticity	None	Required			
					(Coefficient of Thermal Exp	None	None			
						Submittal Time (days)	21	30			

2016 versus 2017 Bidding Volume



2017 - 66 Projects + 5 to bid with an estimated value of \$33M to \$55M

2016 - 91 Projects

2015 - 90 Projects, \$259M

----2016 Cummulative Totals

-1-2017 Cummulative Totals

Contrator Payments & Average Contracts Paid/Month/Calendar Year



Roads & Bridges



Most of ODOT's funding will go to road maintenance and preservation for lasting

fixes that keep Oregon's roads and bridges in good condition today and for future generations.

Local Control



Half of road funding will go to cities and counties to complete local communities'

top priority road maintenance and improvements.

Reducing Congestion



Moving Freight

Better Public Transportation



Safe Biking & Walking Options

Electric Vehicle Incentives







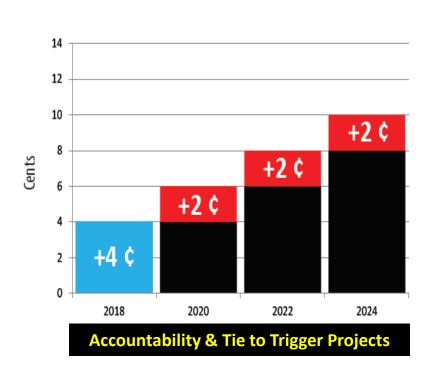
✓ Accountability & Transparency

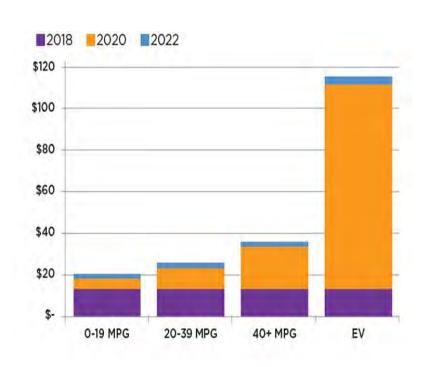
- 1. Gas tax tied to ODOT meeting accountabilities
- 2. Project status, cost, and timeliness website
- 3. ODOT and Locals road & bridge conditions report
- 4. Gas tax funds protected in Highway Trust Fund
- 5. Clean Fuel consumer protection cost measures
- 6. Other value pricing, salt use, jurisdictional transfers



Gas tax, vehicle registrations, & title fees

Equates to about 0.8 cents/mile



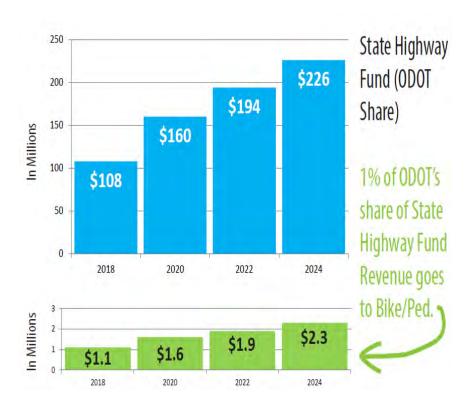


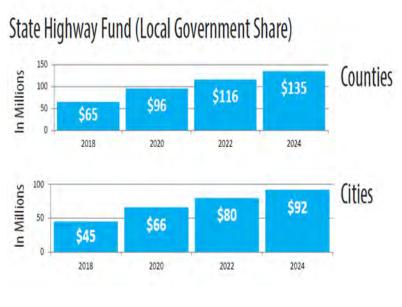
- Payroll tax 1/10 of 1% for transit
- Bicycle Tax \$15/Bicycle, 26" wheel, >\$200
- Light vehicle privilege tax ½% for EV rebates and multimodal



Annual New Revenue Estimate

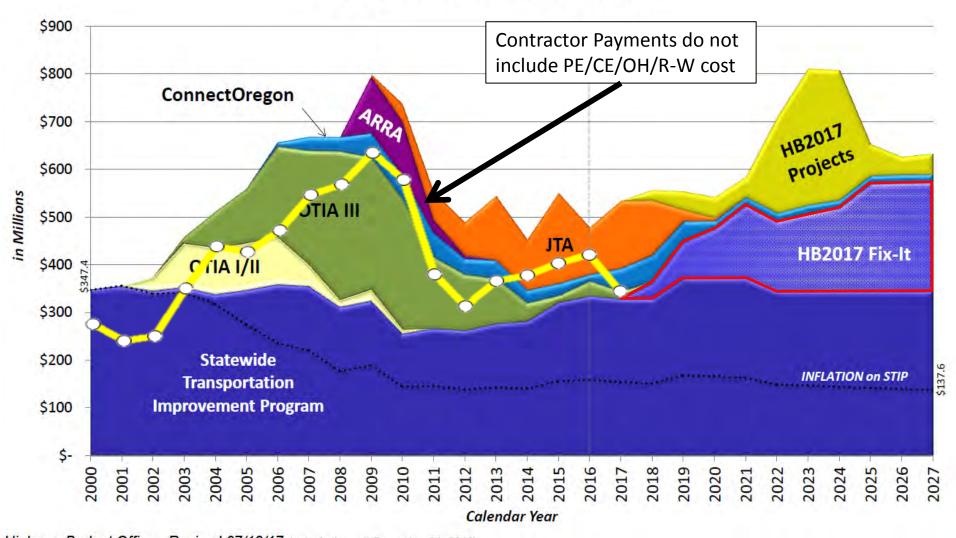
Gas tax, vehicle registrations, & title fees







ODOT Construction Programs



Highway Budget Office - Revised 07/12/17 (actuals through December 31, 2016)



Highlights of HB 2017

Transportation Investments

Grants ODOT positions

- Strong owner role
- Adds Consultant Project Managers
- Adds 2nd Assistant PM to crews
- Adds PM & HQ construction support
- Adds design, OPO, & IT staff
- Phased approach
 - 2017 39 positions
 - 2018 111 positions
 - 2019 42 positions
- Recruitments underway





