

Companies Being Good Neighbors

Connecting students to businesses to prevent pollution

conserving resources · protecting the environment · living well

Toxics Release Inventory (TRI) Conference
September 20, 2022



Agenda

conserving resources · protecting the environment · living well

Program Background & Authority

Oregon Applied Sustainability Experience

- Barriers, lessons learned, successes

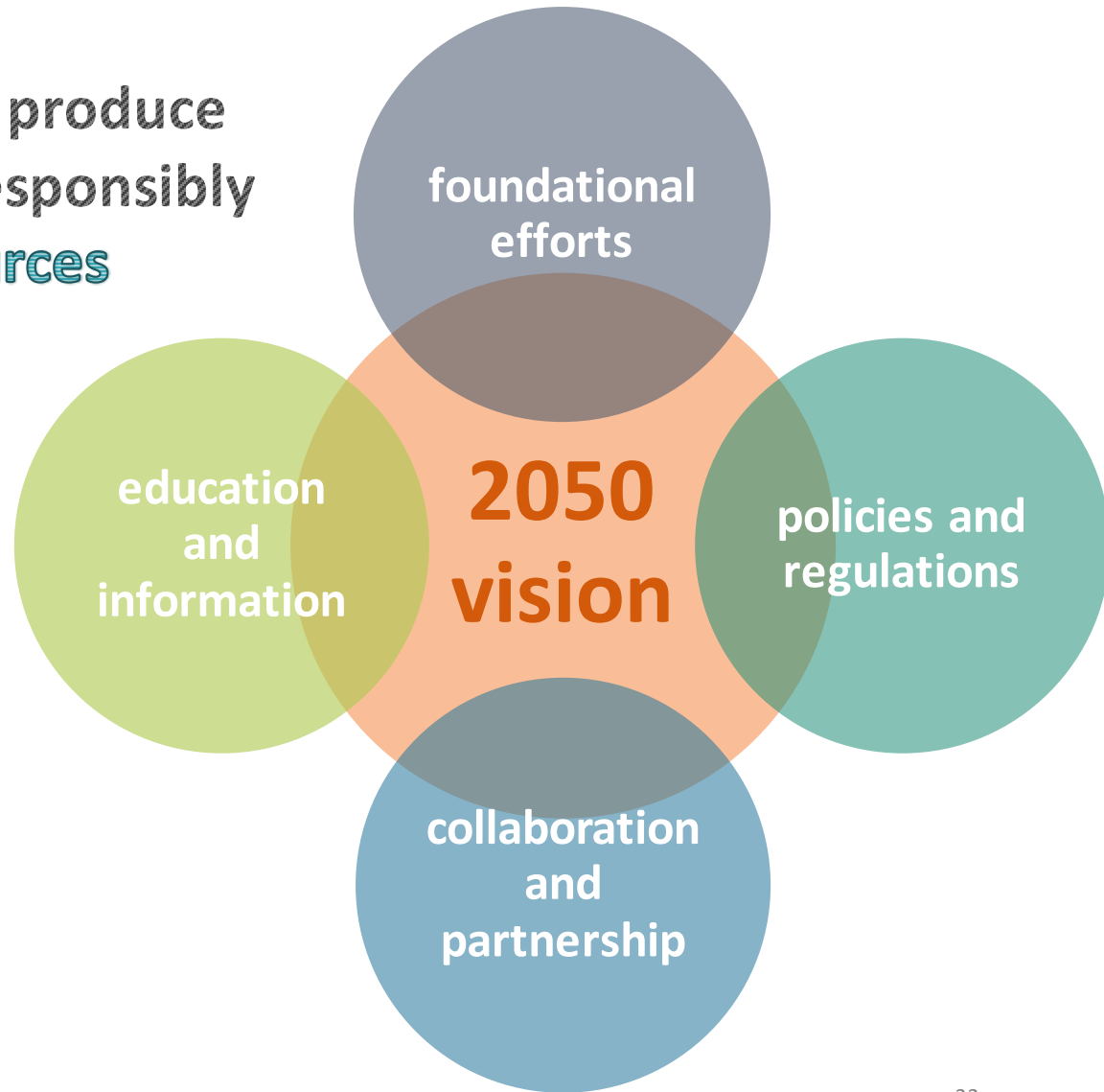
Using Toxics Release Inventory to Prioritize Outreach



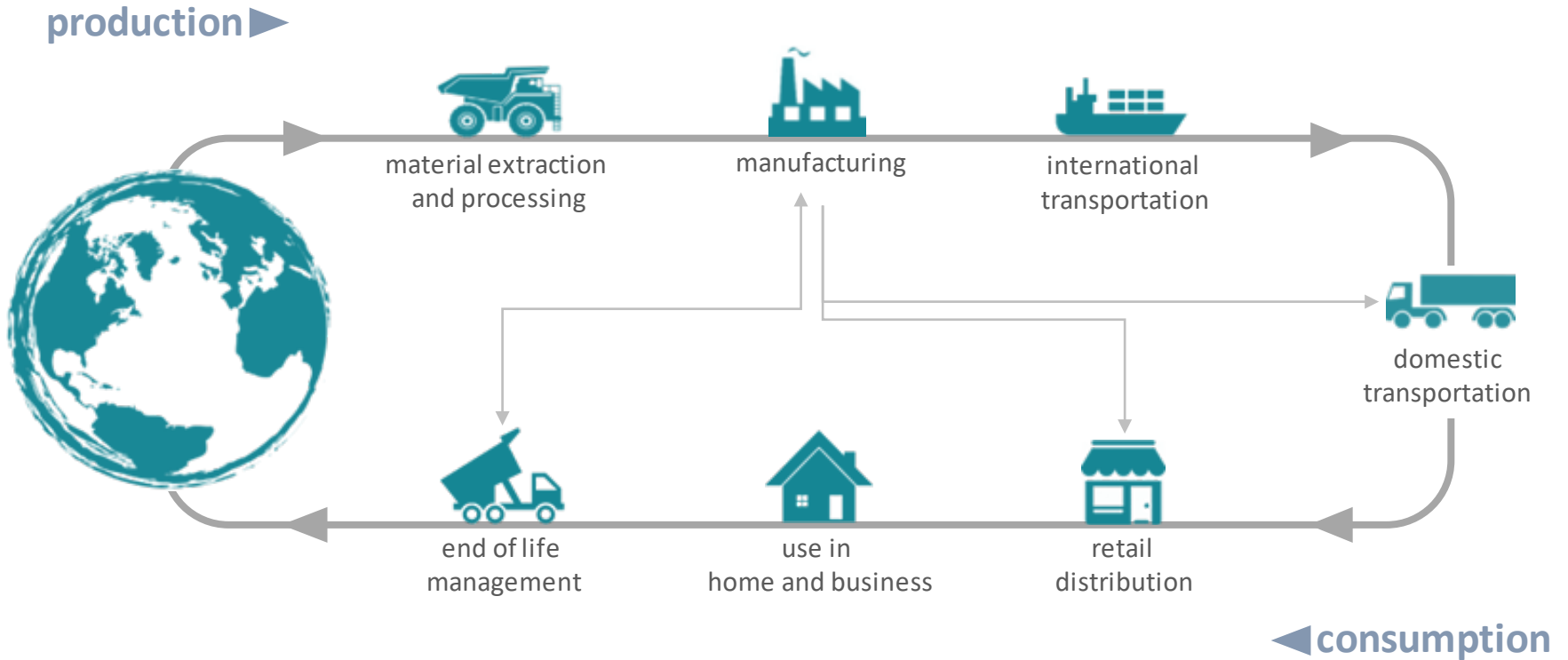
a vision for materials management

By 2050 Oregonians produce and use materials responsibly

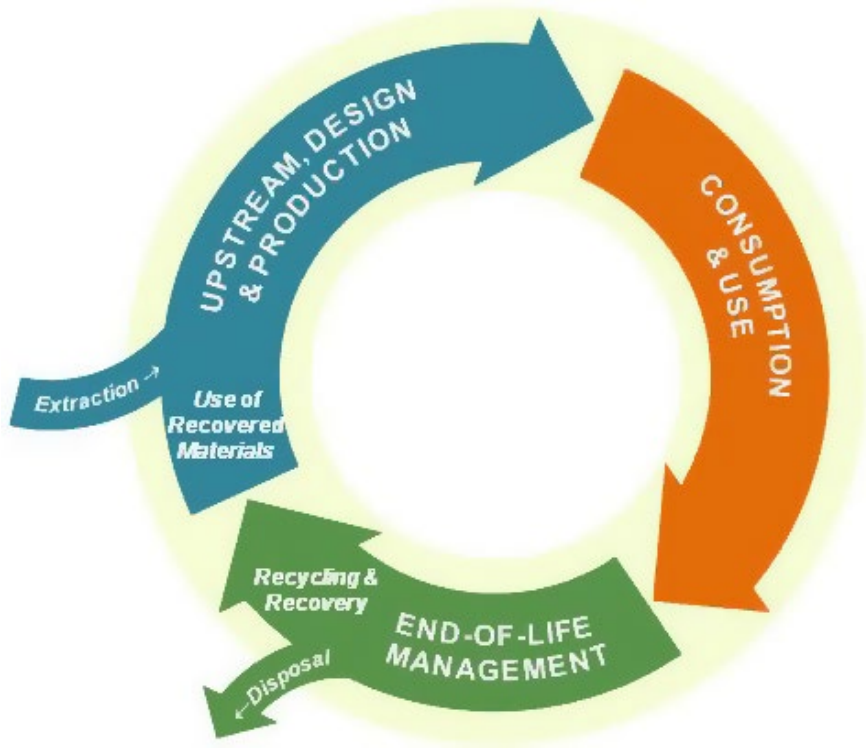
- **conserving resources**
- **protecting the environment**
- **living well**



material life cycle



business assistance



business initiatives **projects**

- Green Chemistry Research
- Preliminary literature reviews
- Case studies of Food Products Environmental Footprints
- Paid access to Concrete Environmental Product Declaration (EPD) tool
- Prevention of wasted food
- Business grants
- Training
- Foster collaboration

Food Product
Environmental Footprint
Literature Summary:

Packaging and Wasted Food



 State of Oregon
DEQ Department of Environmental Quality

with support from
The Oregon Sustainability Board

A report by: Center for
Sustainable Systems,
University of Michigan

Martin Heller
September 2017



Oregon Applied Sustainability Experience

*Developing Oregon's
environmental workforce through
hands-on student internships*





Oregon Applied Sustainability Experience (OASE) is a Partnership

OASE is Administered by the Oregon DEQ and Oregon Sea Grant
Funded in part by the US EPA



OREGON APPLIED
SUSTAINABILITY
EXPERIENCE
INTERNSHIP PROGRAM



Helping Oregon businesses
reduce waste, prevent pollution
and increase efficiency



OREGON APPLIED
SUSTAINABILITY
EXPERIENCE
INTERNSHIP PROGRAM



Creating collaborative solutions
to environmental problems



OREGON APPLIED
SUSTAINABILITY
EXPERIENCE
INTERNSHIP PROGRAM

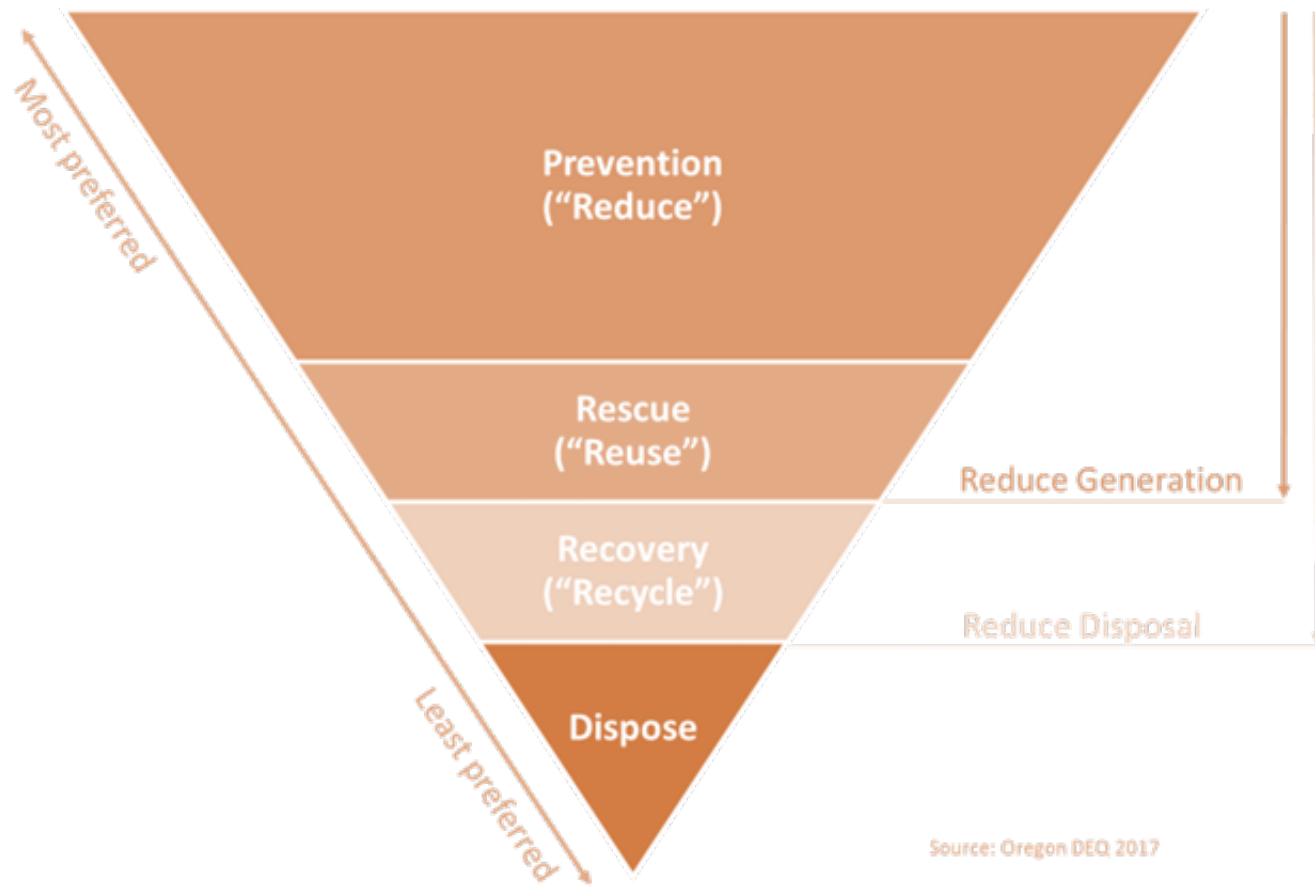


#oaseintern

Developing Oregon's
environmental workforce through
hands-on student internships



sustainability internships prevent pollution



OASE host businesses locations



Host Business

Locations

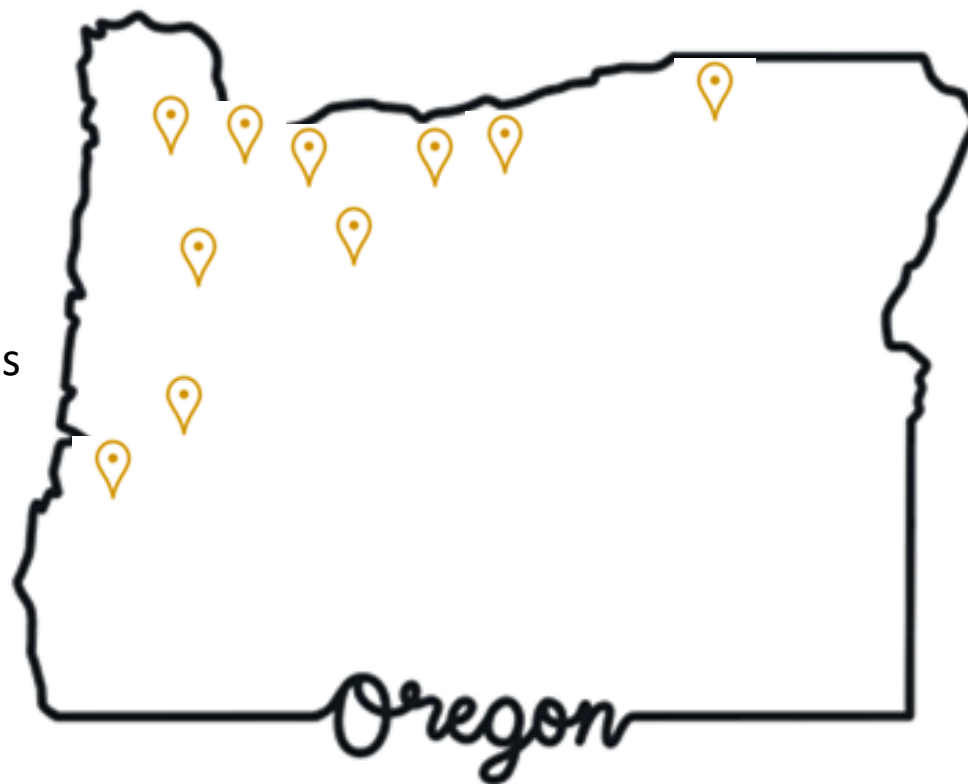
Portland
Eugene
Sandy
Oregon City
Hood River
Hermiston
Hillsboro
Salem
Gresham
Clackamas
Port Orford

Universities

Portland State
University

Oregon State
University-Corvallis

University of
Oregon-Eugene



Oregon
Applied
Sustainability
Experience

*Developing Oregon's
environmental workforce through
hands-on student internships*





Students are placed with businesses to conduct pollution prevention and sustainability research



Interns recommend environmental solutions with cost benefit data



Interns are trained and paid a stipend for 10-week internship



first cohort: 2017 interns



second cohort: 2018 interns



BOEING

 **Columbia**
Sportswear Company.

NEW SEASONS
MARKET



NOSSA FAMILIA
COFFEE

Oregon Applied Sustainability Experience
Developing Oregon's environmental workforce through hands-on student internships



 **KNIFE RIVER CORPORATION**
AN MDU RESOURCES COMPANY



Northwest
Green Chemistry



CRAFT BREW ALLIANCE



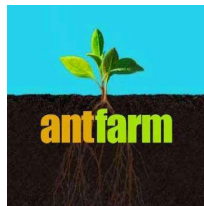
third cohort: 2019 interns



RiverBend
MATERIALS
A CRH COMPANY



EMA



Oregon Applied Sustainability Experience
Developing Oregon's environmental workforce through hands-on student internships



successes: measurable goals



State of Oregon
Department of
Environmental
Quality



CONNECTING PEOPLE



200 students trained



19 Oregon business participants



40 partner organizations

EXCEEDING GOALS

OASE projected savings



\$2 million for businesses



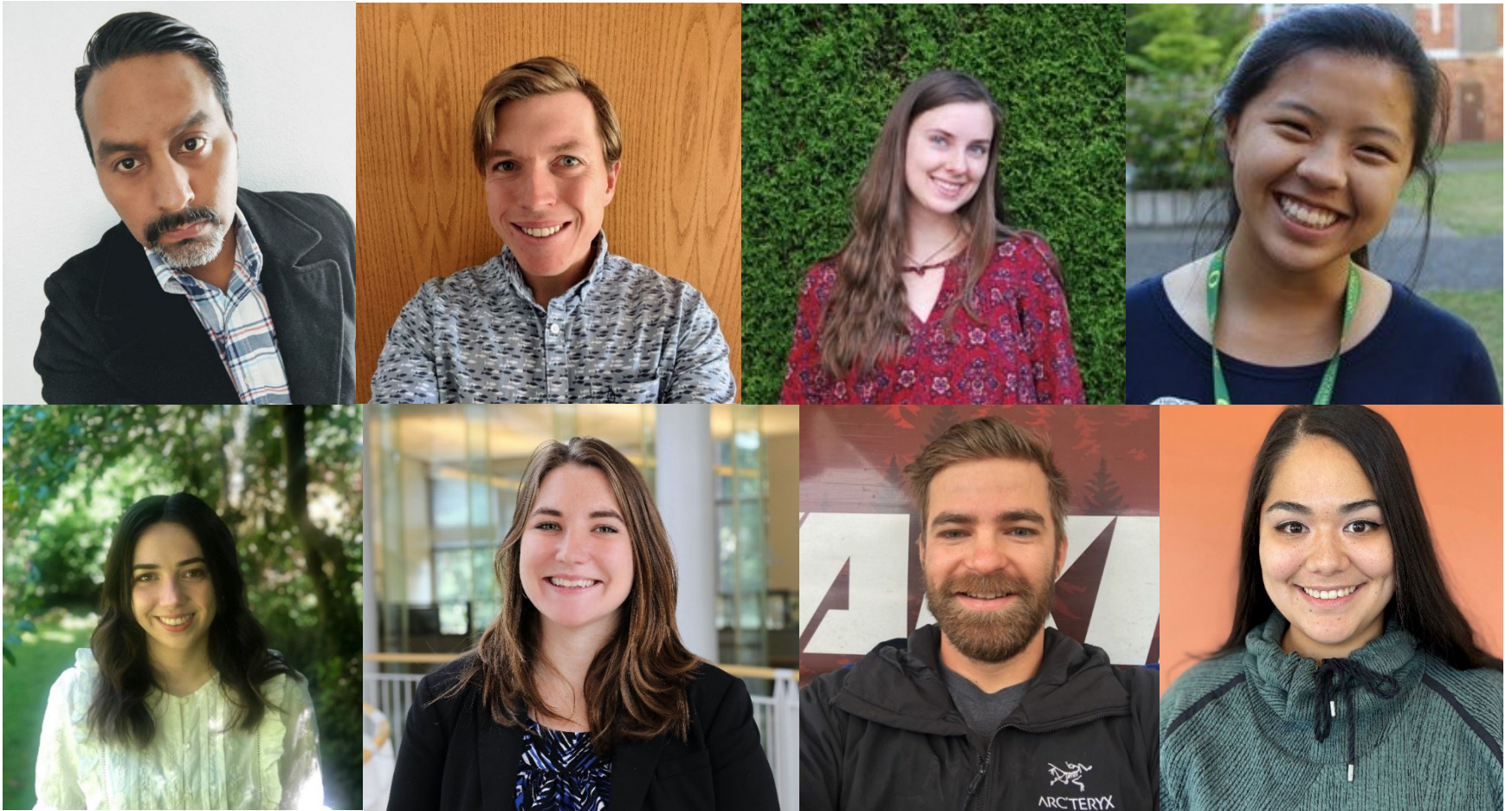
11.5 tons hazardous waste



61 million gallons of water



successes: measurable goals



L to R Top Row: Angel Contreras Cruz-Oregon Soap Co., Connor Nolan-Port Orford Sustainable Seafood, Katherine Gwynn-Tofurky, Alexi Overland-Defunkify, Bottom Row: Emily Koch-Pacific Seafood, Caitlin Wahlers-Good Clean Love, Jake Kennedy-Bora Architects, Kylee Church-Providence Health Services



lessons learned: student training

- Pollution Prevention
- Project Management
- Writing
- Holistic/creative thinking
- Support to verbalize ideas

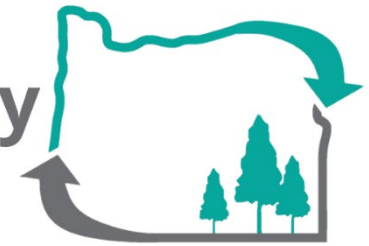


lessons learned: business relationships



Oregon
Applied
Sustainability
Experience

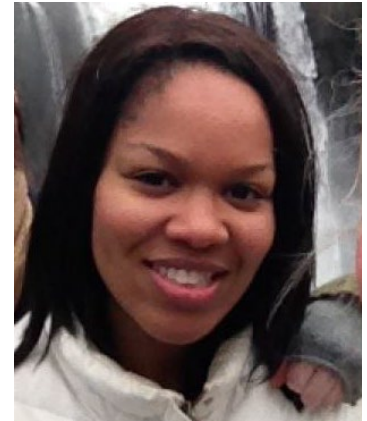
*Developing Oregon's
environmental workforce through
hands-on student internships*



Strong businesses partners
committed to students

*"Our summer intern was focused and smart. She produced an excellent final document that will be useful to us and to other companies, we hope - for years to come."
2019 Host Businesses, Grand Central Bakery*

lesson's learned: advisors



barriers: telling the stories



NEW SEASONS MARKET



WIDMER BROTHERS BREWING



ECONOW TECH



KNIFE RIVER CORPORATION



WEST LINN PAPER COMPANY



PORTLAND STATE UNIVERSITY



barriers: business engagement



Small Businesses

- Less expertise: can be hands-off with intern
- Slower response time: case study/final report review report
- Small measurable results
- Not reporting to TRI

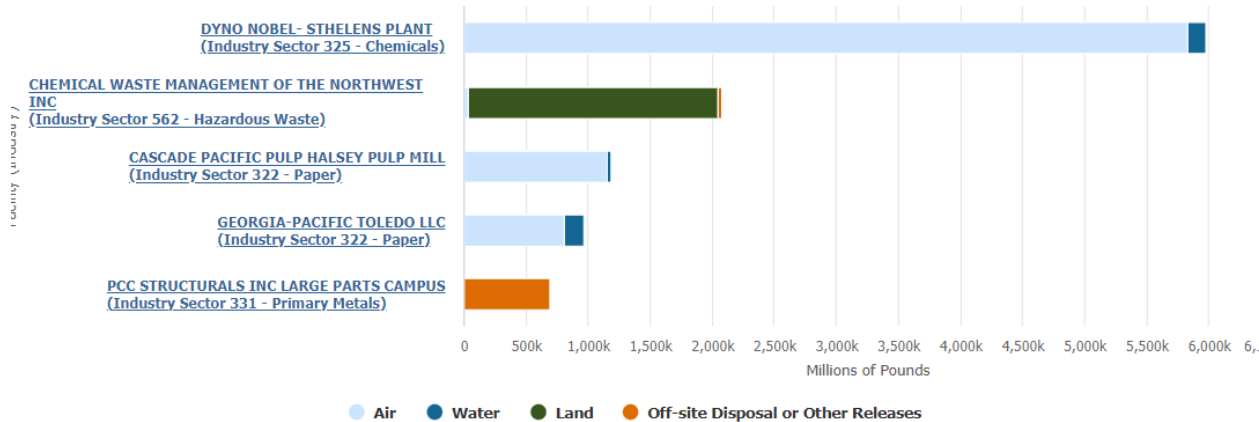
Big Businesses

- Complicated hiring structure
 - No “free” interns
- Environmental Manager can’t get support
- Confidentiality concerns
- Worried about working with Department of Environmental Quality (DEQ)

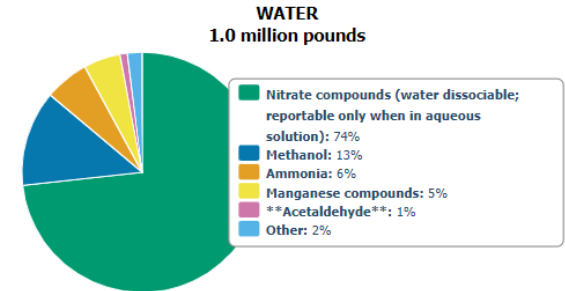
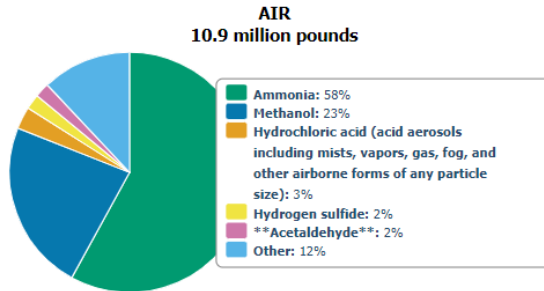
tri: prioritizing businesses partners

Top five Oregon TRI Reporters

Top Five Establishments by Total Disposal or Other Releases
OR, 2020



Top Five Chemicals Released to Air and Water
OR, 2020




tri: prioritizing businesses partners



enviro.epa.gov/triexplorer/tri_getcounties.getcounties?report=tri_release.chemical&scriptname=chemical&state=STATE&c_year=2020&c_industry=SIC&c_chemical=&c_chemlist=&c_

TitanTV - Free Loca... The List: Jobs in Por... BikePortland.org -... Recycle crafts Department of Ad... PORTLAND events,... Swedish Cultural Ev... Christmas fireplace... Washington



United States Environmental Protection Agency

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TRI Explorer

You are here: EPA Home » TRI » TRI Explorer » Release Reports - Release Chemical Report

Release Reports

Fact Sheets | **Release Reports** | Waste Transfer Reports | Waste Quantity Reports

Chemical | Facility | Federal Facility | Geography | Industry

Release Chemical Report

This site uses pop-up windows, click here for help on allowing pop-ups from this site [Go To New Report](#)

Year of Data 2020

Geographic Location Oregon

Select from List of Counties

Chemical All chemicals

Industry User selected industry/industries

Data Set

The default is Data Source: 2020 Updated Dataset (released May 2022)

Select 2020 National Analysis Dataset (October 2021, released October 2021)

Select 2019 National Analysis Dataset (released October 2020)

Report columns to include

Total On-site Disposal or Other Releases

Details

On-Site Disposal to Class I Wells, RCRA Subtitle C Landfills, and Other On-Site Landfills

Other On-Site Disposal or Other Releases

Total Off-site Disposal or Other Releases

Details

Off-Site Disposal to Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills

Other Off-Site Disposal or Other Releases

Total On-and Off-site Disposal or Other Releases

CAS Number

Select one or more North America Industry Classification System Codes | TRI Explorer | US EPA - Google Chrome

enviro.epa.gov/triexplorer/tri_text.indlist

Select one or more North American Industry Classification System Code

Click on an industry to select

- NAICS 3121 - Beverages**
- NAICS 3122 - Tobacco
- NAICS 313 - Textiles
- NAICS 314 - Textile Product
- NAICS 315 - Apparel
- NAICS 316 - Leather

Click on an industry to select

- NAICS 311 - Food and kindred products
- NAICS 3121 - Beverages

Done Cancel Clear All

RACC Wendy_Du....docx



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enviro.epa.gov/triexplorer/release_fac?p_view=STFA&trilib=TRIQ1&sort=_VIEW_&sort_fmt=1&state=41&county=All+counties&chemical=All+chemicals&industry=325&industry=&year...

TitanTV - Free Loca... The List: Jobs in Por... BikePortland.org -... Recycle crafts Department of Ad... PORTLAND events,... Swedish Cultural Ev... Christmas fireplace... Washington Backco... Other bookmarks

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), all 35 facilities, for facilities in NAICS 325 - Chemicals, for All chemicals, Oregon, 2020

Row #	Facility	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	AGILYX.13240 SW WALL STREET, TIGARD OREGON 97223 (WASHINGTON)	0	.	0
2	AKZO NOBEL COATINGS INC.1660 CROSS ST SE, SALEM OREGON 97302 (MARION)	5,849	.	5,849
3	ALTO COLUMBIA LLC.71335 RAIL LOOP DR, BOARDMAN OREGON 97818 (MORROW)	16,849	.	16,849
4	ARCLIN USA LLC.475 28TH ST, SPRINGFIELD OREGON 97477 (LANE)	13,366	242	13,608
5	AUSTIN POWDER CO.9605 N UMPQUA HWY, ROSEBURG OREGON 97470 (DOUGLAS)	0	.	0
6	BEND RESEARCH MANUFACTURING.20503 BUILDERS ST, BEND OREGON 97701 (DESCHUTES)	14,811	.	14,811
7	CARESTREAM HEALTH INC.8124 PACIFIC AVE, WHITE CITY OREGON 97503 (JACKSON)	43,265	18,641	61,906
8	CHEMSTATION OF OREGON.10655 SW AVERY ST, TUALATIN OREGON 97062 (WASHINGTON)	.	.	.
9	DYNO NOBEL- STHELENS PLANT.63149 COLUMBIA RIVER HWY, DEER ISLAND OREGON 97054 (COLUMBIA)	5,975,227	.	5,975,227
10	ENNIS-FLINT SALEM.1675 COMMERCIAL ST NE, SALEM OREGON 97301 (MARION)	21,400	.	21,400
11	EPSON PORTLAND INC.3950 NW ALOCLEK PL, HILLSBORO OREGON 97124 (WASHINGTON)	0	.	0
12	FORREST PAINT CO DBA FORREST TECHNICAL COATINGS.1011 MCKINLEY ST, EUGENE OREGON 97402 (LANE)	21,164	.	21,164
13	GEORGIA-PACIFIC CHEMICALS LLC.2665 HWY 99 N, EUGENE OREGON 97402 (LANE)	6,714	155	6,869
14	GEORGIA-PACIFIC CHEMICALS LLC.2190 OLD SALEM RD NE, ALBANY OREGON 97321 (LINN)	7,934	8	7,942
15	HEXION INC.10915 N LOMBARD ST, PORTLAND OREGON 97203 (MULTNOMAH)	2	123	124
16	HEXION INC.62575 OREGON HWY 82, ISLAND CITY OREGON 97850 (UNION)	11,124	597	11,721
17	HEXION INC.470 SOUTH 2ND STREET, SPRINGFIELD OREGON 97477 (LANE)	30,440	19,426	49,866
18	HIGHLINE WARREN - ALBANY.3075 ARNOLD RD NE, ALBANY OREGON 97321 (LINN)	1,752	.	1,752
19	KINGSFORD MANUFACTURING CO.3315 MARCOLA RD, SPRINGFIELD OREGON 97477 (LANE)	351	.	351
20	LACAMAS LABORATORIES INC.3625 N SUTTLE RD, PORTLAND OREGON 97217 (MULTNOMAH)	4,996	.	4,996
21	LINDE GAS NA LLC.470 W ANTELOPE RD, WHITE CITY OREGON 97503 (JACKSON)	8,370	36,253	44,623
22	LOMBARD.14546 N LOMBARD ST, PORTLAND OREGON 97203 (MULTNOMAH)	.	.	.
23	MILES FIBERGLASS & PLASTICS INC.1516 MAIN ST, OREGON CITY OREGON 97045 (CLACKAMAS)	17,214	.	17,214
24	MILES FIBERGLASS & PLASTICS INC OTTY RD.8855 SE OTTY RD, HAPPY VALLEY OREGON 97086 (CLACKAMAS)	12,906	.	12,906
25	MOLECULAR PROBES INC.29851 WILLOW CREEK RD, EUGENE OREGON 97402 (LANE)	70	.	70
26	OREGON RUBBER CO.3595 W 1ST AVE, EUGENE OREGON 97402 (LANE)	5	700	705
27	OREGON RUBBER MILLS CO.1985 SW AIRPORT AVE, CORVALLIS OREGON 97333 (BENTON)	0	122	122
28	RODDA PAINT CO.6123 N MARINE DR, PORTLAND OREGON 97203 (MULTNOMAH)	5,741	.	5,741
29	SOLENI'S LLC.3366 NW YEON AVE, PORTLAND OREGON 97210 (MULTNOMAH)	3,383	0	3,383
30	SPECIALTY POLYMERS INC.2475 PROGRESS WAY, WOODBURN OREGON 97071 (MARION)	14,534	.	14,534
31	SUTERRA LLC.20950 NE TALUS PLACE, BEND OREGON 97701 (DESCHUTES)	8,735	.	8,735
32	TCI AMERICA.13135 N. WOODRUSH WAY, PORTLAND OREGON 97203 (MULTNOMAH)	.	.	.
33	THE WILLAMETTE VALLEY CO LLC.586 MCKINLEY ST, EUGENE OREGON 97402 (LANE)	65	8,679	8,744
34	TOKYO OHKA KOGYO AMERICA INC.4600 NW BROOKWOOD PKWY, HILLSBORO OREGON 97124 (WASHINGTON)	0	.	0
35	WR GRACE & CO.1290 INDUSTRIAL WAY SW, ALBANY OREGON 97322 (LINN)	14,775	30	14,805
	Total	6,261,043	84,976	6,346,019

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tri: prioritizing businesses partners

Releases: Facility Report [i](#)

Detail columns are collapsed by default. Click the icon to view additional columns. Use your Browser back feature to collapse.

Data Source: 2020 Updated Dataset (released May 2022)

See Note [Go To New Report](#) [Instructions for printing wide reports](#)

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), all 18 facilities, for facilities in NAICS 311 - Food, NAICS 3121 - Beverages, for All chemicals, Oregon, 2020

Row #	Facility	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	CHS HERMISTON FEED.300 W FEEDVILLE ROAD, HERMISTON OREGON 97838 (UMATILLA)	.	.	.
2	CHS NUTRITION TILLAMOOK.6200 BLIMP BLVD, TILLAMOOK OREGON 97141 (TILLAMOOK)	.	.	.
3	COLUMBIA RIVER PROCESSING.79588 RIPPEE RD, BOARDMAN OREGON 97818 (MORROW)	250	14,162	14,412
4	COLUMBIA RIVER TECHNOLOGIES.79588 RIPPEE RD, BOARDMAN OREGON 97818 (MORROW)	0	28,454	28,454
5	DARIGOLD - PORTLAND.2720 SE 6TH, PORTLAND OREGON 97202 (MULTNOMAH)	0	8,157	8,157
6	FOSTER FARMS DONALD FEEDMILL.11671 EHLEN RD, AURORA OREGON 97002 (MARION)	.	.	.
7	GRAIN CRAFT.501 SE EMIGRANT AVE, PENDLETON OREGON 97801 (UMATILLA)	.	.	.
8	KRAFT HEINZ FOOD CO.175 NE 6TH AVE, ONTARIO OREGON 97914 (MALHEUR)	34,508	.	34,508
9	KROGER CO SWAN ISLAND DAIRY.4950 N BASIN AVE, PORTLAND OREGON 97217 (MULTNOMAH)	0	.	0
10	LAMB WESTON INC.78153 WESTLAND RD, HERMISTON OREGON 97838 (UMATILLA)	76,082	208,582	284,665
11	LAMB WESTON INC.600 NE COLUMBIA AVE, BOARDMAN OREGON 97818 (MORROW)	4,725	.	4,725
12	LAMB WESTON INC..750 NE COLUMBIA AVE, BOARDMAN OREGON 97818 (MORROW)	13,421	.	13,421
13	MONDELEZ GLOBAL LLC.100 NE COLUMBIA BLVD, PORTLAND OREGON 97211 (MULTNOMAH)	92,365	.	92,365
14	NINKASI BREWING CORP LLC.220 BLAIR BLVD, EUGENE OREGON 97402 (LANE)	0	70	70
15	PACIFIC FOODS.19480 SW 97TH AVE, TUALATIN OREGON 97062 (WASHINGTON)	0	18,821	18,821
16	PURINA ANIMAL NUTRITION LLC - RIVERGATE.15840 N SIMMONS ROAD, PORTLAND OREGON 97203 (MULTNOMAH)	.	.	.
17	SMITH FROZEN FOODS INC.101 DEPOT STREET, WESTON OREGON 97886 (UMATILLA)	18,000	0	18,000
18	TILLAMOOK COUNTY CREAMERY ASSOC.4185 HWY 101 N, TILLAMOOK OREGON 97141 (TILLAMOOK)	250	.	250
	Total	239,601	278,246	517,847
Total disposal or other releases omitting double counted amounts				517,847

[Back to top](#)

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tri: business partners reporting to TRI

Boeing



intern program: successes

Partnerships & Awards

- Washington Applied Sustainability Internship
- Tofurky – Year long Sustainability fellowship
- North America Hazardous Materials Management Association – Community Partnership Award
- Businesses contributions



Student Succeed!

- 2022-Kristina offered full-time position with Pacific Seafood
- 2021 -Connor Nolan offered extended internship
- 2021- Derek Yau working in full-time position with Pacific Seafood
- 2020 – Kylee Church extended internship
- 2020- Katherine/Tofurky awarded student of the year by the National Pollution Prevention Roundtable
- 2018-Jake Price/Boeing win national award for pollution prevention research

<https://seagrant.oregonstate.edu/OASE/about-oase>

Pollution Prevention for Cleaner Air and a Better Climate



Pollution Prevention Week
September 19-25, 2022



**NATIONAL POLLUTION
PREVENTION ROUNDTABLE**

www.p2.org
www.epa.gov/p2week

Thank you!

Lisa Cox, Sr.
Toxics Reduction
Analyst

cox.lisa@deq.state.or.us

