

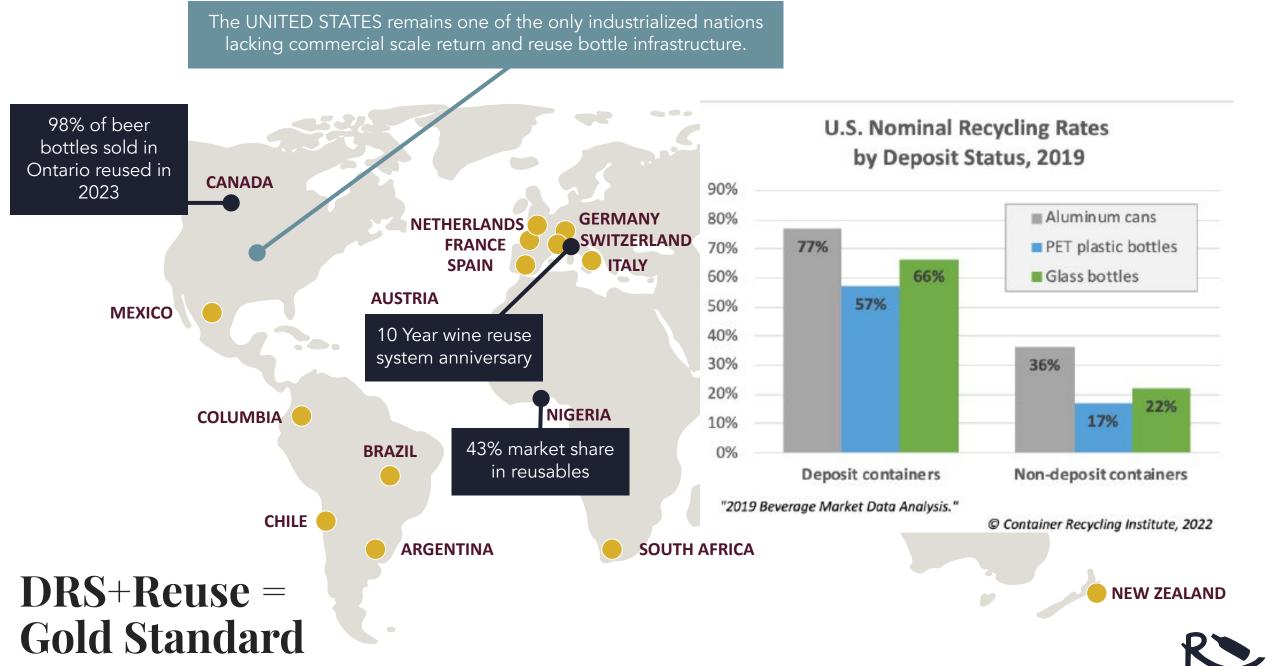




Problem/Current Status

- 1. 69% of US Glass is landfilled or downcycled annually.
 - 8.8 million tons of glass
 containers landfilled in 2021
- 2. No consumer incentive structures in recycling.
- 3. No engagement at Point of Sale
- 4. All 'Open' Reuse systems globally exist under DRS infrastructure.





REUSE = MOST SUSTAINABLE

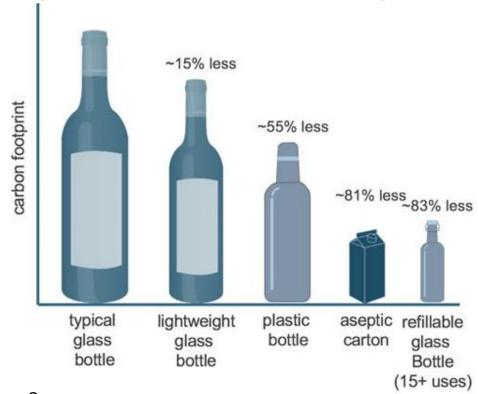
Oregon:

- Infrastructure exists.
- DRS: <u>Saves Municipalities Money</u>
- Huge investments have built today's successful systems.

Global Mindset Shift:

- → DRS is the foundation.
 - Backed By: 'Rates and Dates' policy to incentivize.
- → Reduced rates of efficiency in recycling systems *more than offset* by reuse.
- → Global Reuse Targets
 - ◆ EU: 10% by 2030, 40% by 2040
 - ◆ France: ALL packaging, 10% by 2027

Relative carbon footprint of wine packaging alternatives in relation to the typical single use glass bottle (same volume for all alternatives)



Source: Oregon DEQ - 2017 Wine Environmental Footprint Summary



BOTTLE VALUE CHAIN



Where Revino Steps In



Collections back through tasting rooms

HORECA returns from distributor partners

Collections in partnership with statewide Deposit Return



WHAT'S IN IT FOR WINERIES?



Reduced reliance on overseas production



Stabilize fluctuating glass costs

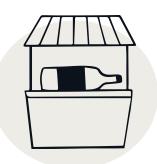


Lowest cost option to significantly reduce Scope 3 emissions



'Sustainable' product sales grow ~2x faster than conventional.





'Rates and Dates' Legislation: Set of supportive targets and policy to incentivize reuse.

Policy Support

Following global best practices and PR₃ standards on aligning reuse systems.



Encourage shared infrastructure:

Interoperable for brands, containers and consumers.

*ORS 13/36A/ Chap. 459A Section 459.725



Support Reverse Logistics:

"minimize the financial and environmental costs of moving these containers through the reverse supply chain."



TRACTION

60+ Oregon wineries committed (and counting)!

WILLAMETTE VALLEY













Backing of manufacturing partner (O-I Glass.)

National Recognition: Imbibe, Wine Enthusiast, Upstream's Reusies Finalist, Fast Company & more. Winner: NextCycle Washington Accelerator Showcase





23 million lbs.

of diverted waste

REVINO IMPACT

by 2030

Assumptions:

Wine focused w/limited batch washing (liquor, kombucha, ect.) 18% Market Share 495 g bottle weight Below current reusable bottle return rates.



55 million lbs.

of CO₂ saved





"the reality is that it is working at a huge scale"

- Matt Littlejohn, Senior Vice President, Oceana. On reusable programs globally

"This is the future of the wine industry"

- Eric Asimov, Reporter, New York Times. On Revino, LIVE Annual Meeting 2024

"...a crying need for change"

-Pete Danko, Reporter, Portland Business Journal. On Revino, Sept 2023

Revino Featured In







FAST@MPANY Salon SevenFiftyDaily











RESOURCES

Research & Studies

ZWE Oct20218 Case-Study Consumption-and-Production reWINE.pdf

<u>zwe reloop report reusable-vs-single-use-packaging-a-review-of-environmental-impact en.pdf.pdf v2.pdf</u>

Willamette Valley Facts and Figures | Willamette Valley Wineries

PR3 Reuse System Standards

GPI: Glass import backlogs do not equal US glass "shortage" - Glass Packaging Institute

California Investigating Oil Companies For Alleged Plastic Recycling Deception: NPR

Promises on fighting climate change are falling far short: NPR

Mckinsey & Company Sustainability in Packaging Five Key Levers For Significant Impact

McKinsey & Company: Reusable Packaging: Key enablers for scaling

Porto Protocol - 'Reuse Ready' Campaign

<u>Upstream</u>, <u>Eunomia</u>, <u>Oregon DEO</u> and <u>Reloop</u> all have detailed reports on building out reuse systems, comparisons to single-use packaging and impact of recycling vs. reuse in the beverage market.

Supporting Articles

Refillable Bottles Offer Benefits to Breweries | BeerAdvocate

Bay Area wineries will soon ask you to return bottles

Coca-Cola plans to use more refillable bottles. Why aren't all soda bo

Home page - The French Agency for Ecological Transition

2023 wine predictions: Higher prices, new zero-alcohol options and more - The Washington Post

2022 Year In Review: M&A Market Remains Active in 2022 in California and Pacific Northwest

<u>Department of Environmental Quality : Oregon's Evolving Bottle Bill : Recycling : State of Oregon</u>





QUESTIONS

We greatly appreciate your time and look forward to working with you as stewards towards a more sustainable

Follow-up:

info@revinobottles.com



MARKET DIRECTION

Industry Future

- Reuse is the only low-carbon option for glass without heavy capital investments.
- Industry traction
 - o Verallia White Paper on Reuse, 2020
 - Investments in Bout' à Bout' France, internal reuse project in Germany, Italy, Spain/wider EU project.
 - 'Reuse Ready' Campaign led by Porto Protocol. Focus on transitioning to wash-off labels and standardizing bottles.

Alternative Formats

BIB, Tetra Pak, Cans, Ect. Seeing wider adoption by consumers and industry manufacturers.

Glass expected to maintains highest shelf value and 'trust' level considering toxicity/microplastics.

 Oregon wine survey - 95% of respondents will purchase packaging based on sustainability impact.

Increased Recycled Content.

- Leverage reuse systems for clean cullet supply.
- <u>Potential for national bottle bill</u> (also clean cullet feedstock.)



	Cleaning Line	Warehousing & Staging (some outsourced)	Office & Personnel
Start-Up	3-5,000 ft ²	4,000 ft ²	500 ft ²
Expansion	Included above	10,000 ft ²	500 ft ²
Future Total	5,000 ft ²	14,000 ft ²	1,000 ft ²



FACILITY

Utilities: Exclusive of personnel/office needs.

• Water consumption:

- 180-350 mL/bottle
- 95-184 gph full speed startup phase
- o 332-462 gph at full expansion 10,000 + bottles per hour.

• Effluent:

- Outflow under 11.5 pH
- Minimal BOD, Primary Chemical Lye

• Power:

- 3 Phase, 480V
- 300 amps at Max Load Operating 40-120 amps

• Gas:

 For wash system heating (or engineered storage tank/solar/heat pump solution)

Other

- Wash heat loss: 6-12 kcal per bottle
- Ventilation considerations in wash area particularly with expansion.



BURGUNDY BOTTLE SPECS



Design Specifications:

Weight: 495 g

Diameter: 82 mm

Height: 291 mm

Engineered for Reusable Use

Design and Manufacturing: Owens-Illinois

Manufacturing Plant: Tracy, CA & Kalama, WA

2025 Updates

- → Punt will be updated to sport reuse industry standard infinity symbol.
- → Embossing updated to read "Reusable"



MVP EQUIPMENT

- Seitz Bottle Washer
- 2. Heuft High resolution automated bottle inspection

Future Expansion Items:

- Secondary Label Removal Equipment (For stubborn label materials or UV damaged adhesives
- 2. Additional Internal Dryers
- 3. Crates & Crate Washer
- 4. Automated packer/unpacker
- 5. Recoat/scratch application equipment.

