

ODOT Material Supplier Workshop

April 14, 2024

Today's Topics

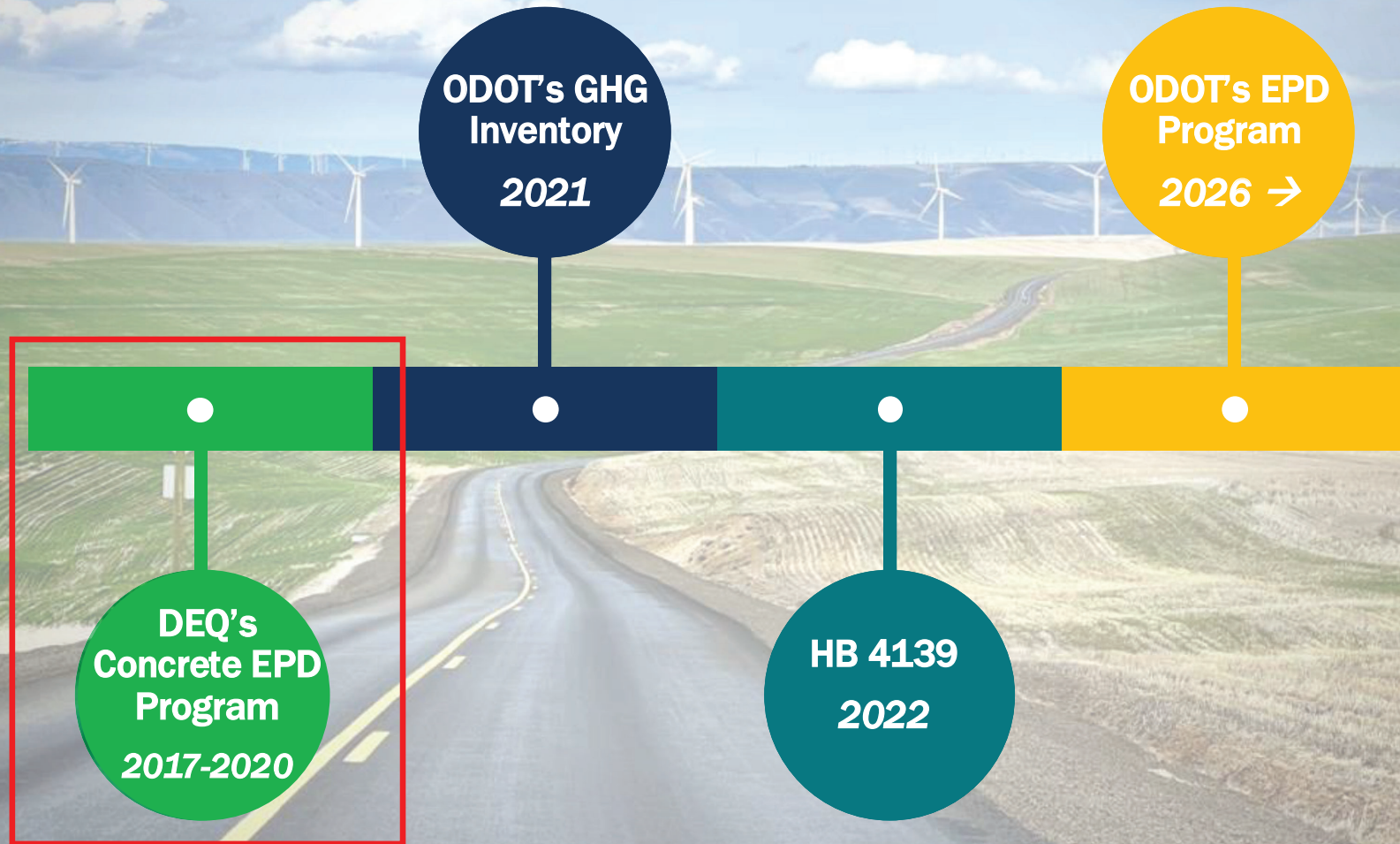
- Oregon House Bill 4139 (2022)/ORS 184.879
- Environmental Product Declarations (EPDs)
- ODOT's EPD Program
- AASHTOware
- e-Ticketing



Today's Speakers

- Zechariah Heck
Sustainability Program Manager
- Kevin Shearmire, PE
Statewide Sustainability Engineer
- Josh Jacobs
WAP Sustainability
- Vanessa Baker
AASHTOware Lead System Administrator
- David Dobson, PE
Statewide Structure Materials Engineer
- Mike Stennett, PE
Senior Quality Assurance Engineer

Oregon's Buy Clean Journey

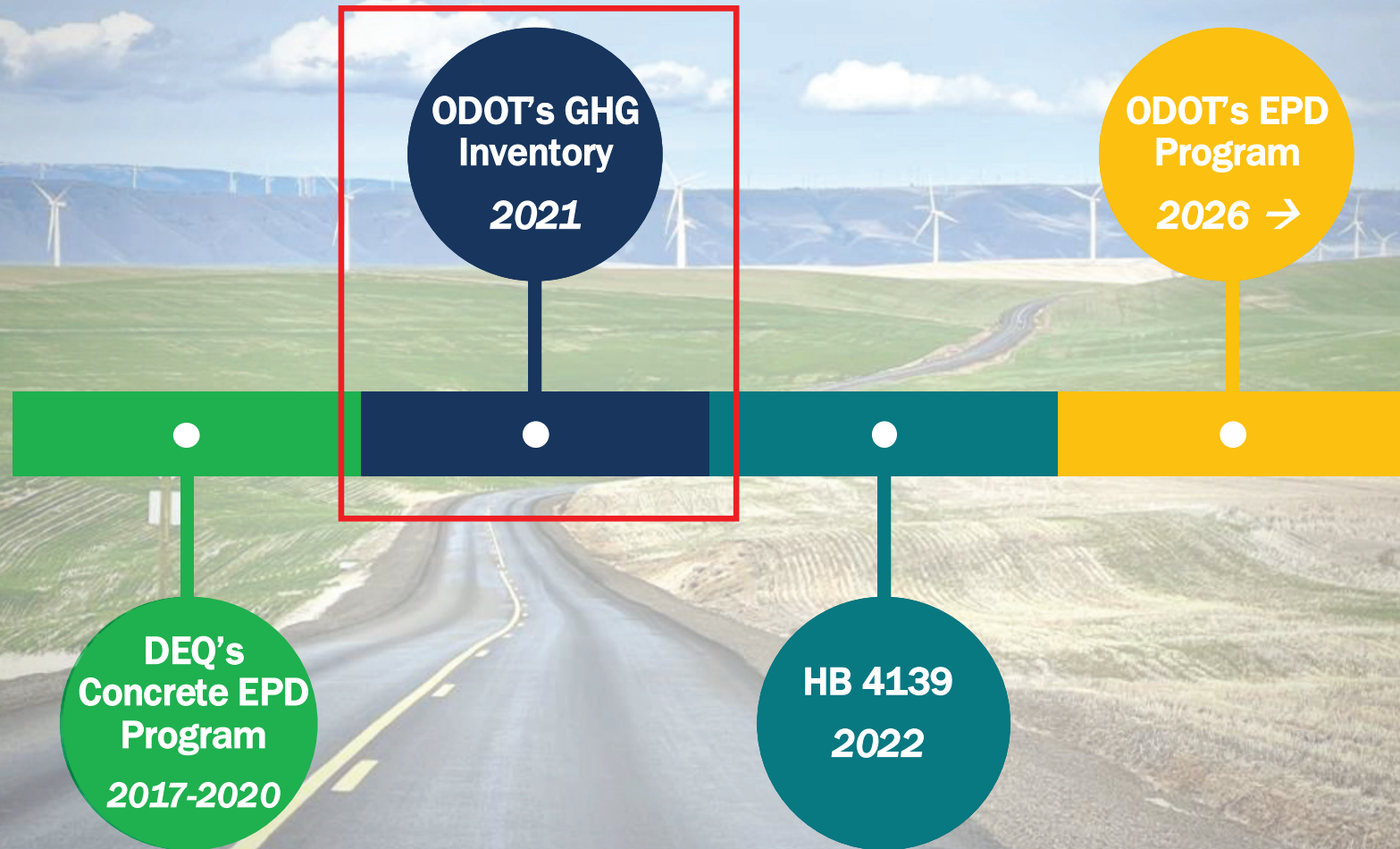


DEQ / OCAPA – Concrete EPD Program

- Voluntary incentive program from 2017-2020.
- \$50k in direct reimbursements.
- 1,500 EPDs across 20 concrete plants.
- Plants eligible for up to \$2,500 reimbursement or 75% of EPD verification costs, whichever is less.
- Companies limited to eight plants.



Oregon's Buy Clean Journey



Strategic Action Plan → GHG Inventory

- **Strategic Action Plan:**
 - Set climate change emission baseline
 - Phase in low-carbon materials, fuels & practices
 - Monitor and adjust
- **Reduce GHG from construction and maintenance operations**
 - Fuels & materials



Oregon Department of Transportation
Operational Greenhouse Gas Reductions:
Best Practices & Recommendations

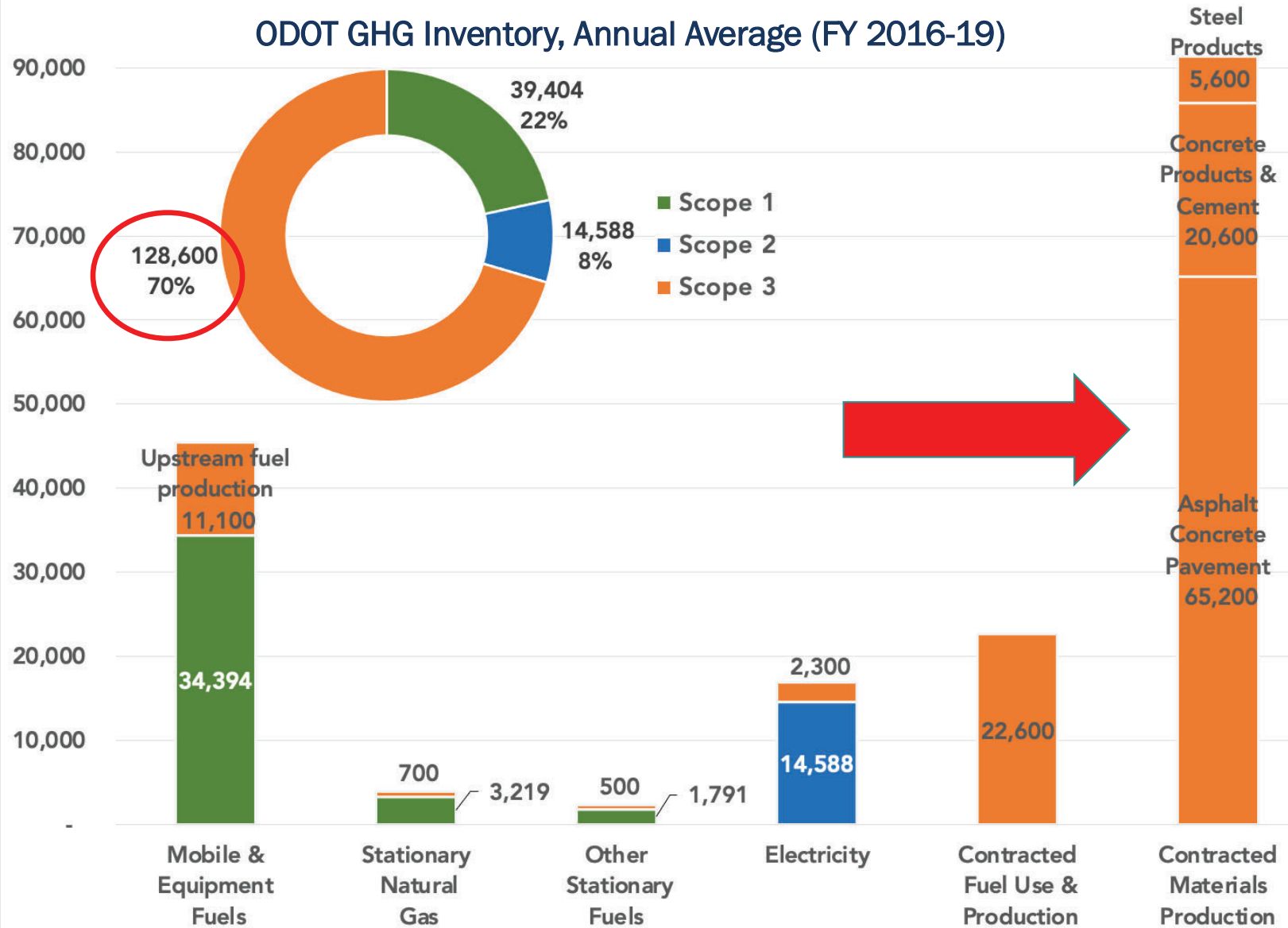
**STRATEGIC
ACTION PLAN**

Presented by:
Oregon Transportation Commission &
The Oregon Department of Transportation

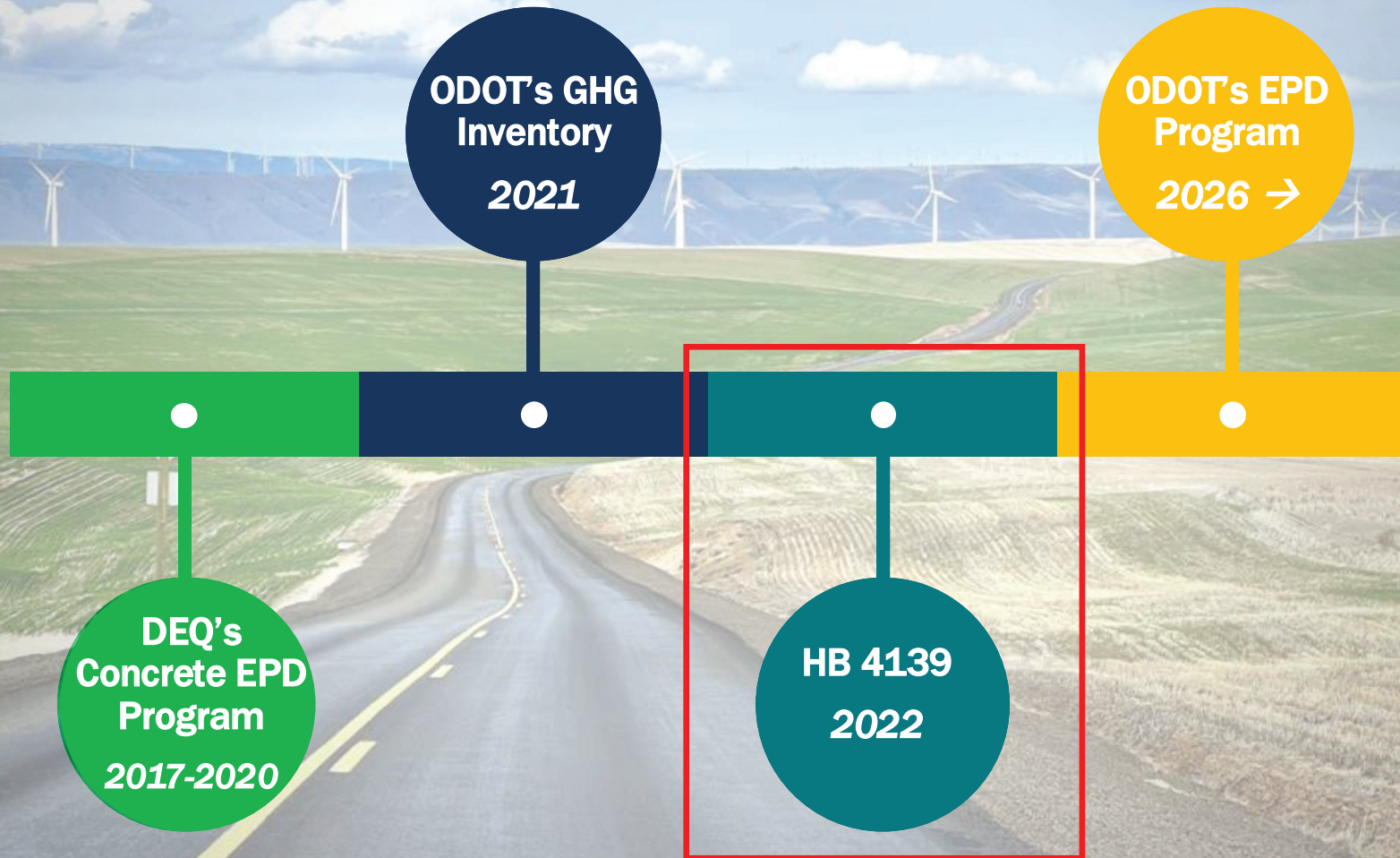
OCTOBER 2020

ODOT GHG Inventory, Annual Average (FY 2016-19)

*Emissions are in MT CO₂e



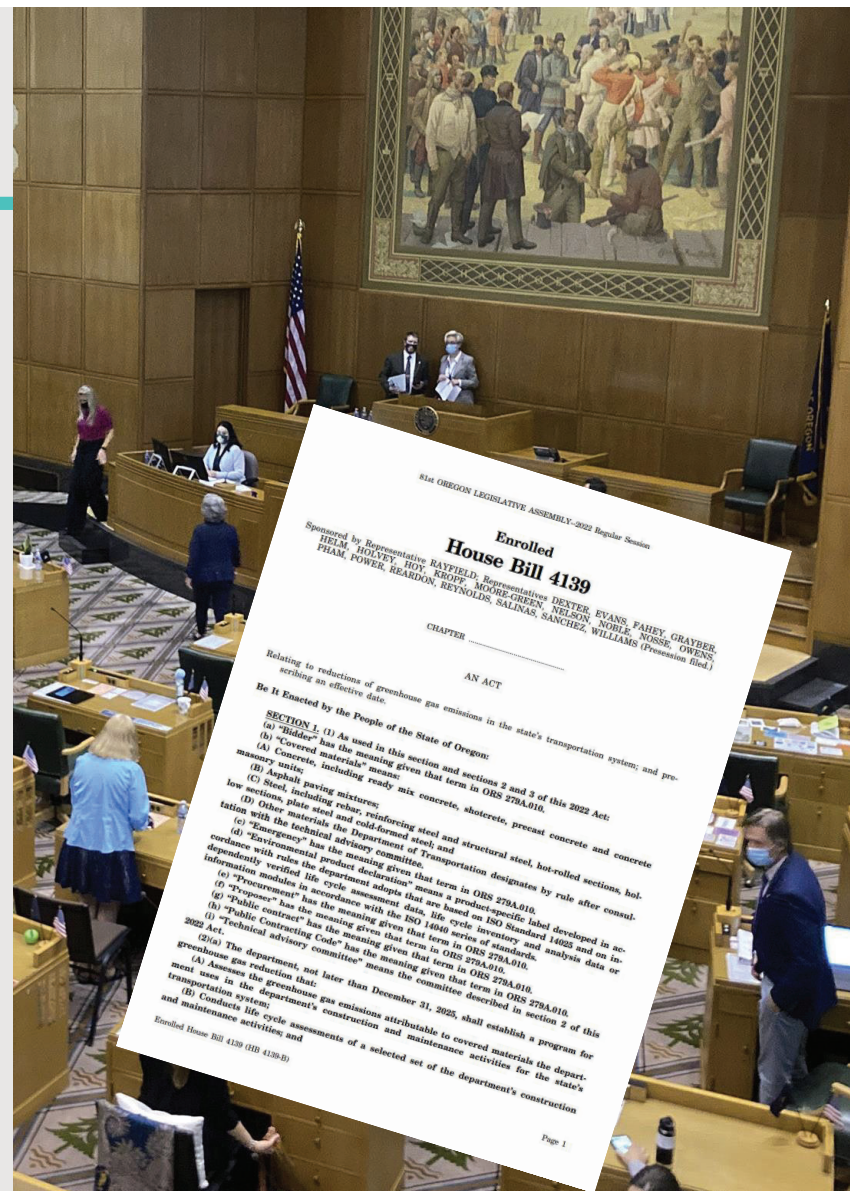
Oregon's Buy Clean Journey



Oregon House Bill 4139 (2022)

- Requires ODOT to set up a “program for GHG reductions”.
 - The agency to collect EPDs on asphalt, concrete and steel.
 - Perform life cycle assessments.
- ➔ ODOT to devise strategies for reducing GHG emissions.

Photo credit: NBC News



Additional Requirements

- Life Cycle Assessments (LCA)
- Report Annually to the Oregon Transportation Commission
- Setup a Grant Program to offset costs
- Work with Technical Advisory Committee (TAC) to setup program



Oregon Transportation Plan

Adopted by the Oregon Transportation Commission July 13, 2023

6.6 Sustainability and Climate Action



Goals (What/Who)

Minimize transportation's negative role in climate change by reducing GHG emissions for all sectors of transportation, while also reducing air toxics, noise and light pollution, water toxics, and habitat loss.



Policy SC.1.4

Meaningfully incorporate GHG emissions reduction in transportation decision making on a regular basis.

Strategy SC.1.4.3: Transition to low-carbon materials and fuels in project construction and maintenance.

Strategy SC.1.5.2: Identify and implement energy-efficient construction and maintenance practices.

Strategy SC.2.1.2: Reduce the consumption of nonrenewable materials in the construction and maintenance of transportation infrastructure and facilities.

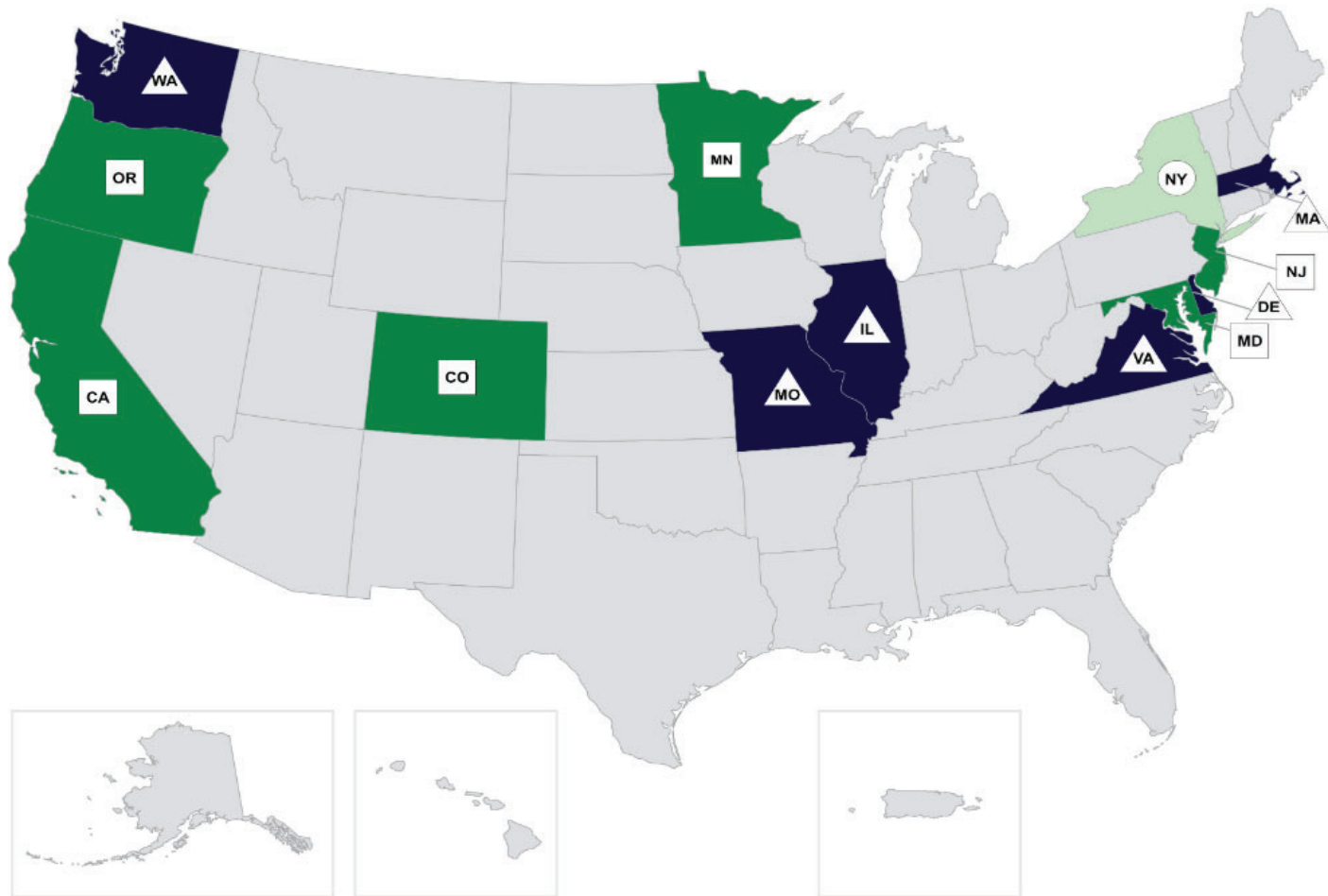
Strategy SC.2.1.3: Identify and implement water- and energy-efficient construction and maintenance practices.

HB 4139 – Implementation

1. Hire sustainability engineer
2. Set up advisory cmte
3. Establish program rules / update specs
4. Collect EPDs
5. Report to legislature and OTC
6. Incorporate best known practices

Technical Advisory Committee

- Membership requirements listed in legislation:
 - DOT
 - DEQ
 - Construction Firms
 - Material Suppliers
 - Industry Associations of Workers in Construction or Manufacturing Industries
 - Environmental Organizations
 - Academia
- Committee (not incl. DOT & DEQ):
 - OCAPA- CalPortland, CRH
 - APAO
 - AGC- HP Civil
 - NAMC- GeoGrade Constructors
 - ACEC- Jacobs
 - Cascade Steel Rolling Mill
 - Local Iron Workers 29
 - United Steelworkers District 12
 - BlueGreen Alliance
 - Good Company (Parametrix)
 - Carbon Leadership Forum
 - Oregon State University



- States with green public purchasing legislation for transportation materials that use EPDs.
- States with green public purchasing legislation, requirements to be determined.
- States that have considered green public purchasing legislation for transportation materials that use EPDs.

Image Source:
FHWA (updated 5-9-24)

	California	Colorado	Minnesota	New York	Oregon
Asphalt Paving Mixtures	✓	✓	✓	✓	✓
Cement		✓			
Concrete	✓	✓	✓	✓	✓
Rebar	✓	✓	✓	✓	✓
Structural Steel	✓	✓	✓	✓	✓
Flat Glass	✓			✓	
Mineral Wool Insulation	✓				