



Clean Air Construction Standard for public projects

Taking local action for cleaner air

Metro Council Work Session

July 16, 2019

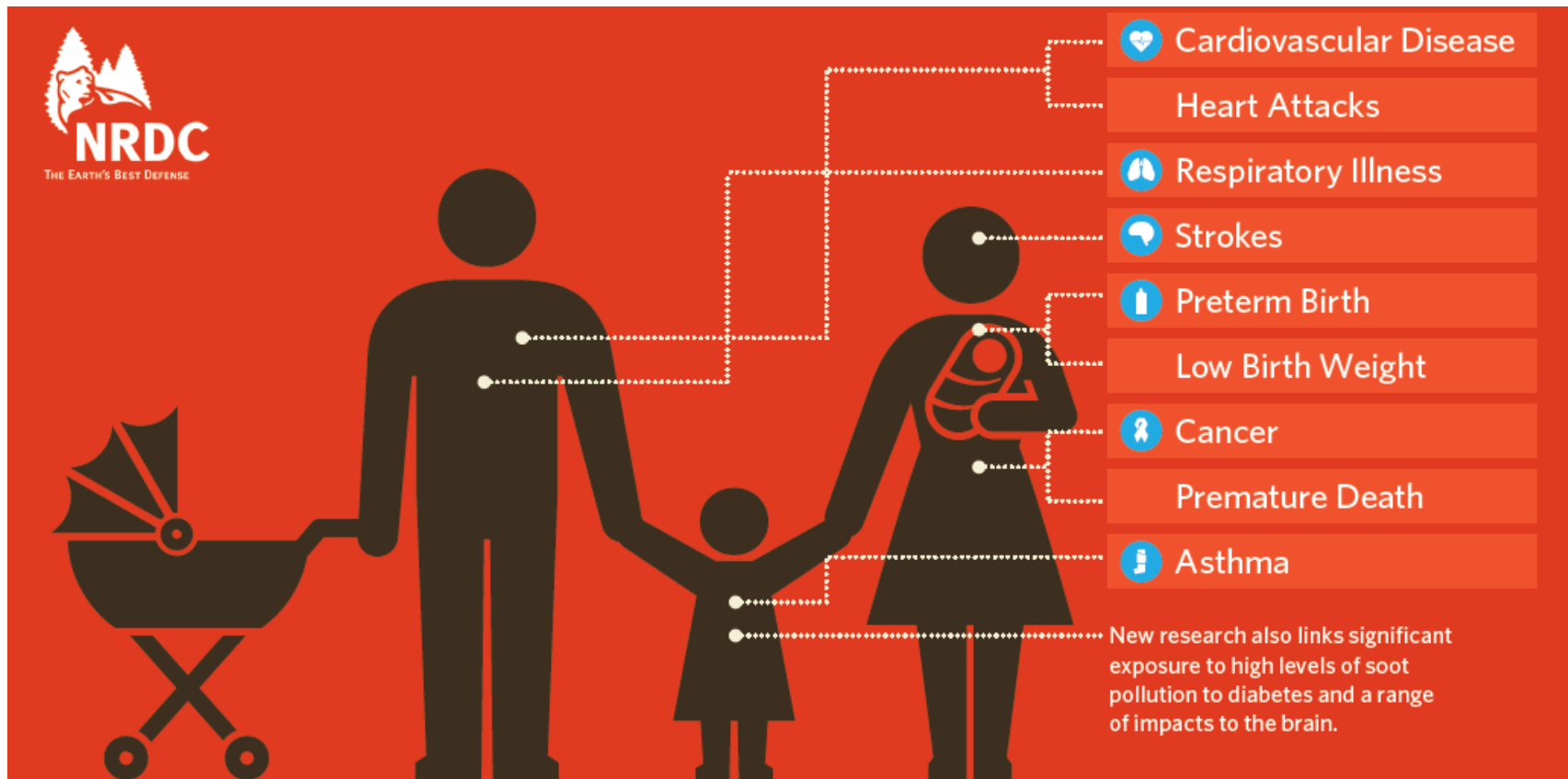
Council guidance requested

1. Direct staff to develop the Clean Air Construction Standard for Metro projects
2. Offer guidance on appropriate threshold to adopt for Metro projects
3. Suggest additional strategies to pursue to support COBID firms and racial equity

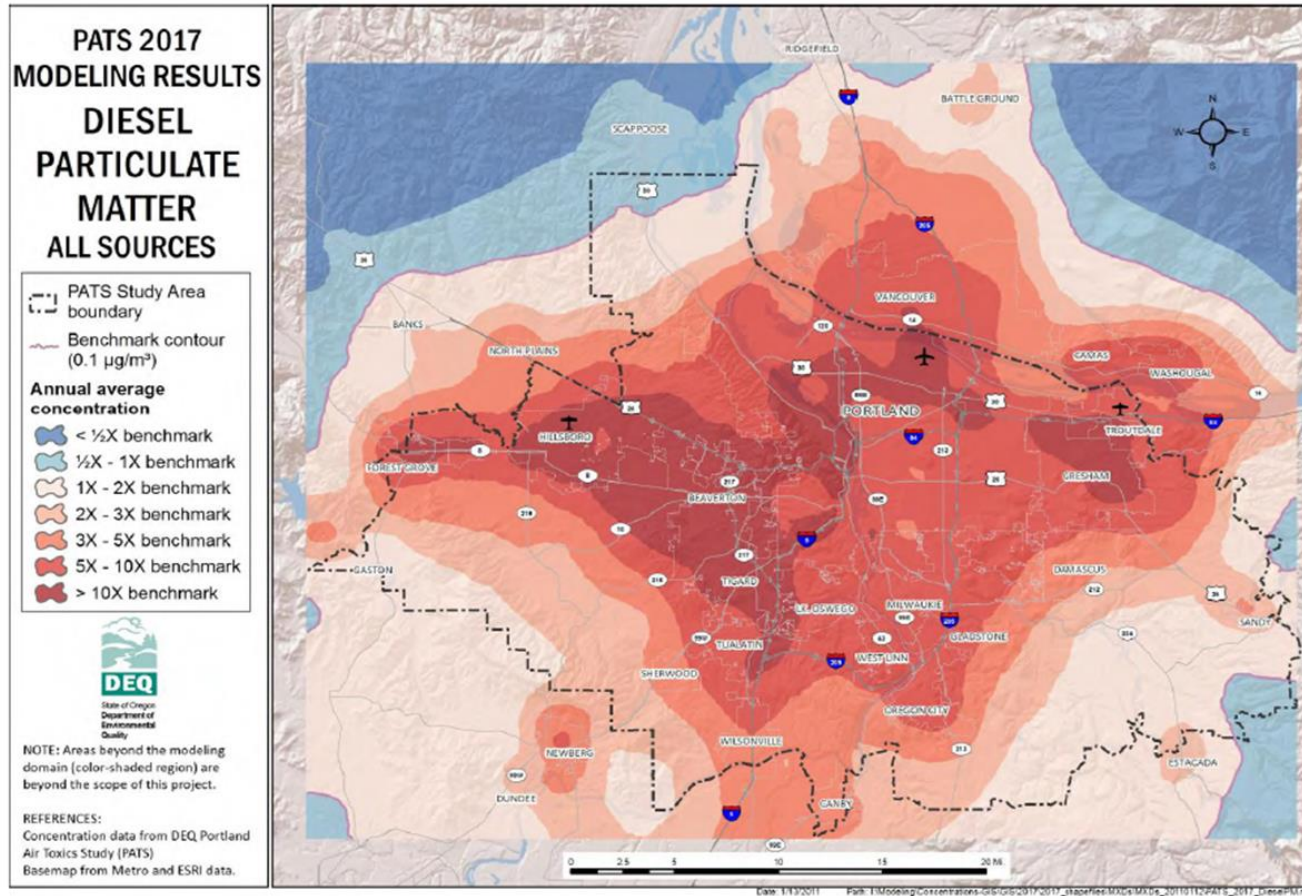
Regional approach



Why diesel exhaust?

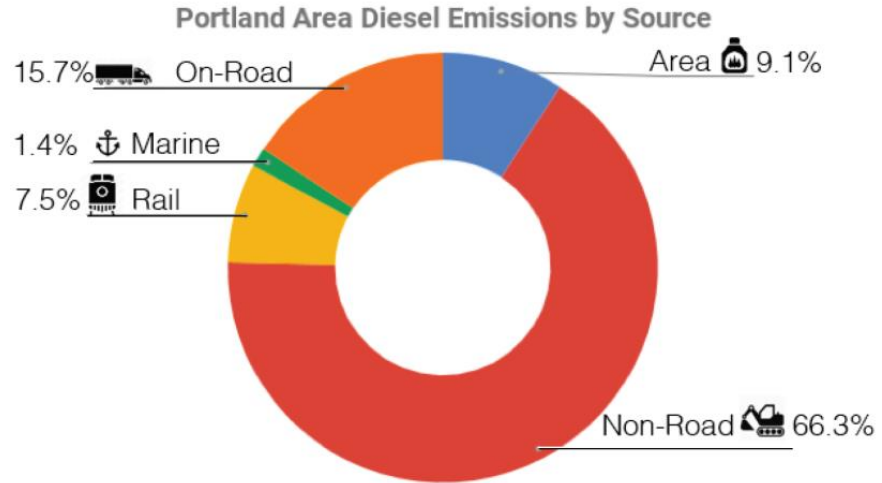


Regional diesel pollution



Why construction equipment?

Diesel
emissions
sources in
Portland
Metro area



Source: Oregon Department of Environmental Quality - Portland Air Toxics Solutions

Clean Air Construction goals

1. Reduce diesel particulate matter (PM) emissions on Metro construction sites
2. Support diverse contractor pool
3. Mitigate cost and administrative impacts
4. Foster regional adoption to further reduce diesel PM pollution

Stakeholder engagement

- Ongoing since 2010 (regionally)
- August 22, 2018 workshop
- Targeted engagement with neighborhood associations, environmental organizations, construction firms, equipment operators, industry associations
- Public comment period in November 2018

Clean Air Construction Standard

Engine requirements applicability:

- Non-road diesel equipment >25 horsepower
- On-road diesel cement mixers and dump trucks

Requirements phased in:

- Idle reduction begins 2020
- Engine requirements phase-in period: 2021-2026

Exemptions and COBID considerations included

Phased-in approach

Effective Date	Nonroad Diesel (over 25hp)	On-Road Diesel (cement mixers and dump trucks)	Retrofits allowed <i>diesel oxidation catalyst, diesel particulate filter</i>
2020	No Idling		
2021	No tier 0		Yes
2022	No tier 1		Yes
2023	No tier 2		Yes
2024	No tier 3	2007+	Some
2025	Tier 4 only	2007+	Some
2026	Tier 4 only	2007+	Some, more for COBID

Regional framework

Lead agency model

- City of Portland as lead agency

Core elements of the regional framework

- Administration
- Communications
- Registration and compliance
- COBID certified firms – specific support

Support for COBID firm compliance

- Extended compliance options
- Funding for retrofits
- Technical assistance



Financial implications

Per project costs:

- Retrofitting costs ranged from 0.06% to 0.57% of construction contract costs.

Regional administration costs:

- Metro's contribution would likely be 4-10% of annual costs, estimated at \$25K to \$63K

House Bill 2007

- **Directs remaining Volkswagen settlement funds to clean up diesel engines, with preference for COBID firms**
- Phases out old diesel on-road engines in Multnomah, Clackamas and Washington Counties
- Requires clean equipment for state-funded construction projects (\$20M or more)
- Creates task force to consider additional funding strategies

Metro threshold

Threshold examples	# of projects (past 3 FYs)	Pros	Cons
\$500,000	8 / year (average) Average value: \$1.5 million	<ul style="list-style-type: none">• Consistent with Multnomah Co.• Apply to fewer COBID firms• Allows Metro to ease into requirement	<ul style="list-style-type: none">• Reduced diesel pollution benefits• Not aligned with any other procurement thresholds
\$100,000; \$150,000 Formal Procurement thresholds	29 / year (average) Average value: \$600,000	<ul style="list-style-type: none">• Greater pollution reduction• Aligns with other procurement thresholds	<ul style="list-style-type: none">• Potentially higher costs for contractors• Might capture more COBID firms• Higher Metro regional costs• May require additional staffing



Potential next steps

- Continue work with regional partners on framework development
- Continue stakeholder engagement
- Identify funding resources to support COBID firms
- Bring to Council for adoption

Council guidance requested

1. Direct staff to develop the Clean Air Construction Standard for Metro projects
2. Offer guidance on appropriate threshold to adopt for Metro projects
3. Suggest additional strategies to pursue to support COBID firms and racial equity

oregonmetro.gov

