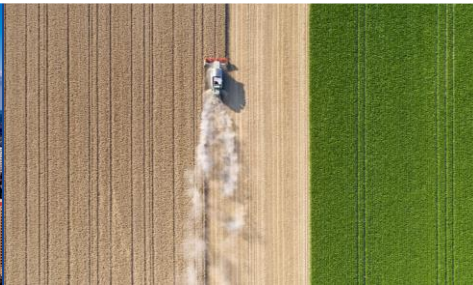


2022 Regulatory Emissions Modeling Platform Quarterly Update

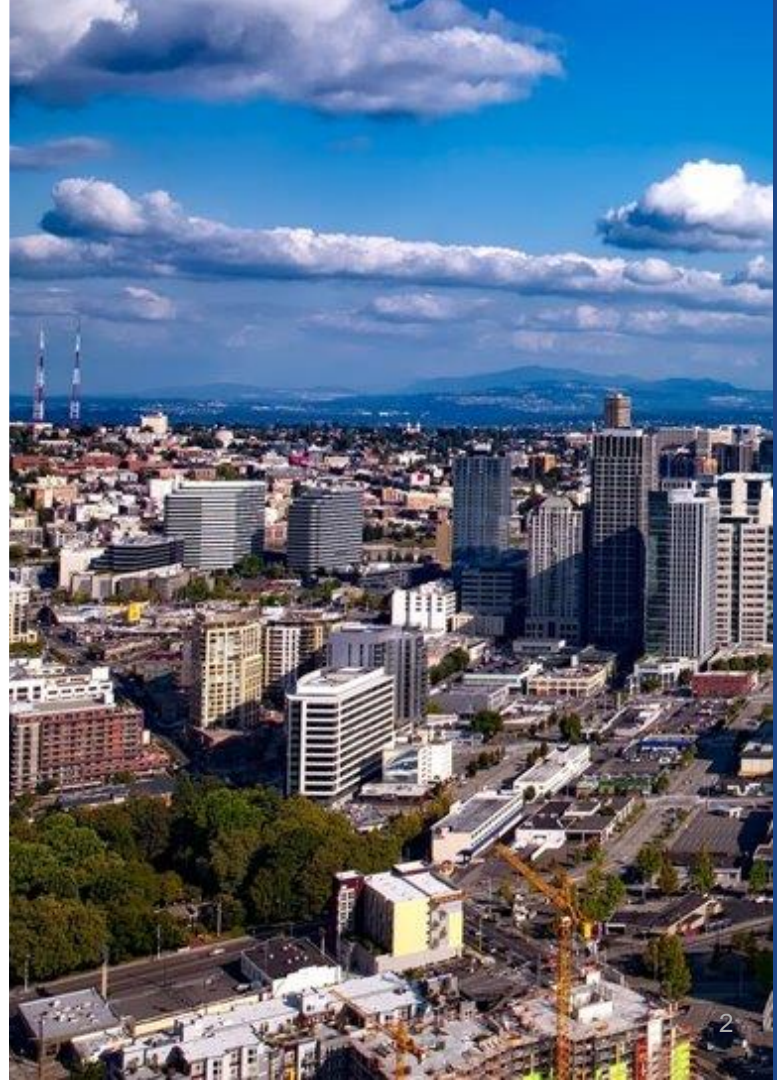
National Emissions Collaborative

November 1, 2023



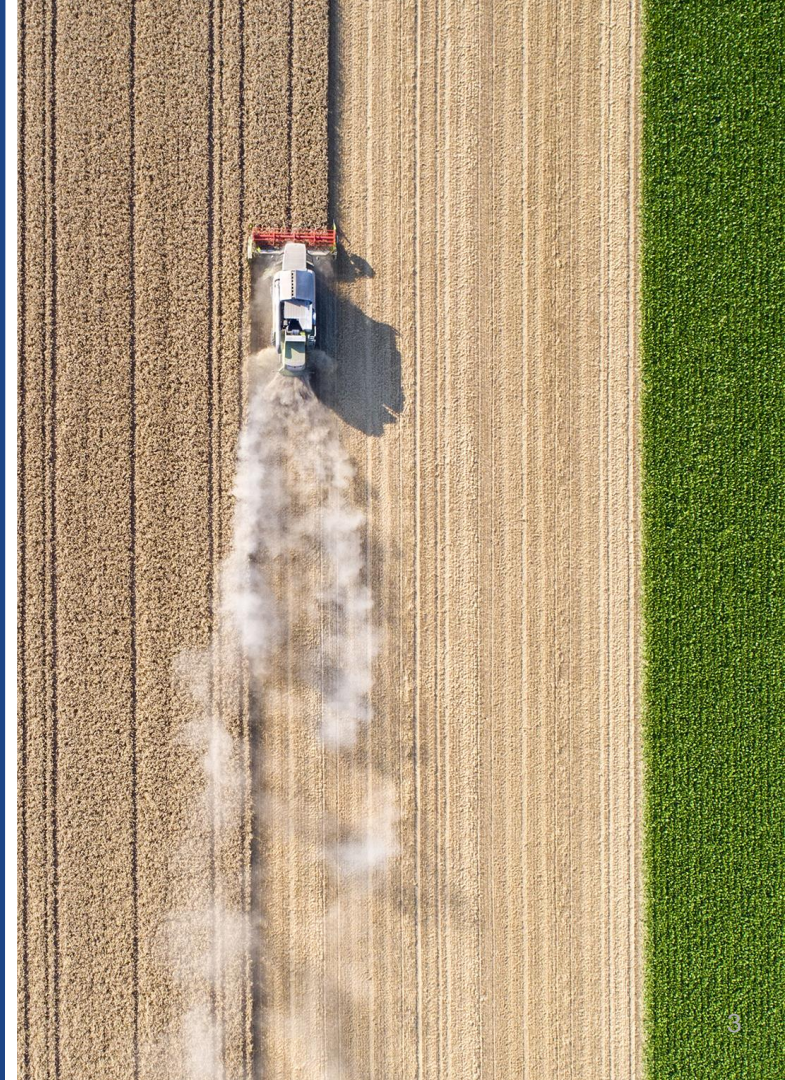
Agenda

- Highlights of the Development Plan
- Update on the Communications Plan
- 2020 NEI data review tool and planned updates for 2022 EMP
- Workgroup updates including activity data requests and data review plans
- Schedule reminders
- Next steps



2022 EMP Collaborative

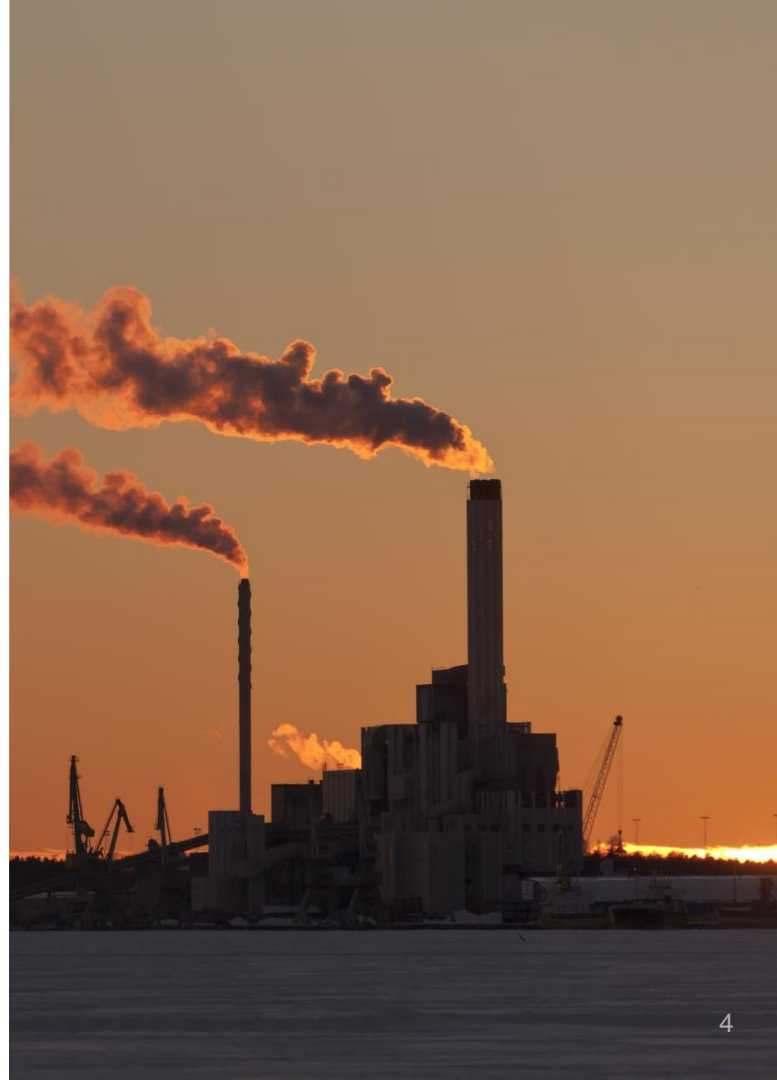
- Co-leads
 - Zac Adelman (LADCO), Mary Uhl (WESTAR), and Alison Eyth (EPA OAQPS)
- Communication support
 - Tom Richardson (OK DEQ), Tom Moore (Denver/NFR RAQC), Rhonda Payne (WESTAR/WRAP)
- Coordination Committee
 - 28 members from MJOs, state agencies, and US EPA staff from OAQPS, OTAQ, and CAMD
 - Monthly calls
 - Quarterly outreach webinars
- Workgroups
 - Leverage existing national emissions workgroups
 - Some 2022-specific workgroups will be needed, e.g., fires and projections



2022 EMP Development Plan

Purpose: Outline the principles and process, and to define metrics for successful collaboration by [air programs] and the U.S. EPA, to develop a national scale 2022 EMP that will provide a complete and transparent set of nationally consistent emission modeling files

Description of the 2022 Collaborative approach, organization, products, and timing



2022 EMP Development Plan

Contents

- Background and Purpose
- Collaborative Principles and Goals
- Timeline and Milestones
- Approach
- Communications
- Coordination Committee

[View the Development Plan](#)



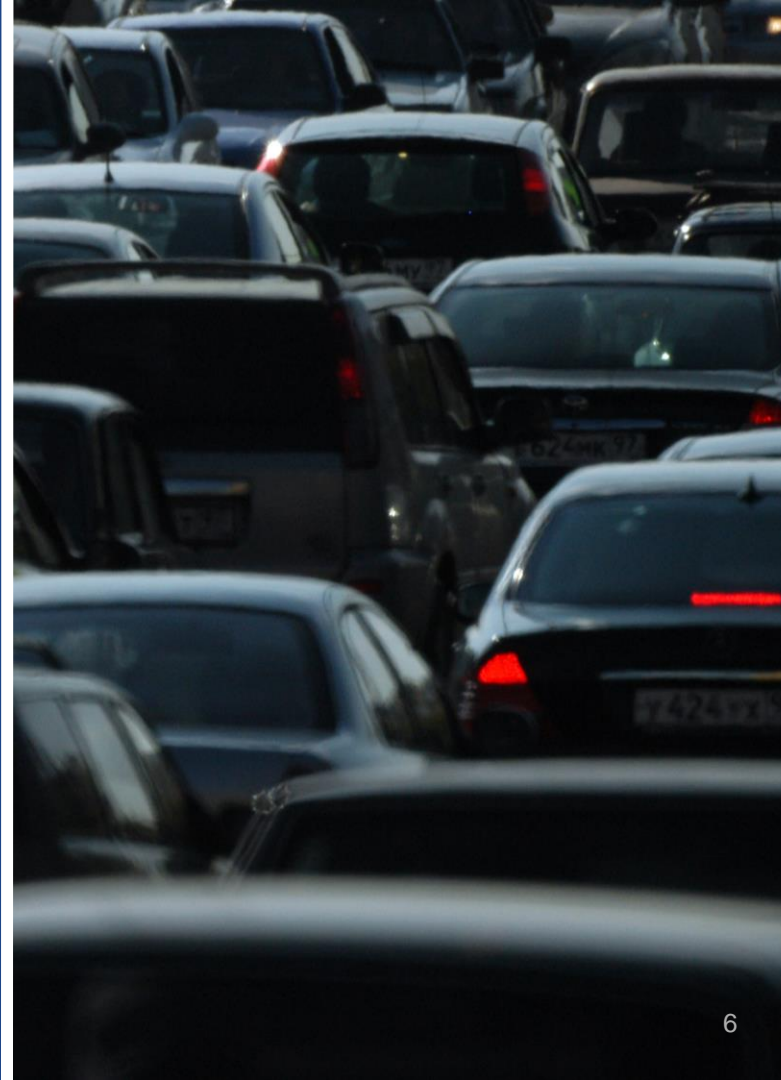
Feedback?

Reach out to Zac Adelman
(adelman@ladco.org)

2022 EMP Communications Plan

Goals of Outreach

- Broaden engagement via targeted outreach to national and regional committee and workgroup meetings throughout the project lifecycle
- Augment and reinforce mainstream EMP work as communication facilitators and advocates
- Identify the uses and lifespan of the EMP, and
- Emphasize the importance of involvement in deciding EMP data to represent your jurisdiction



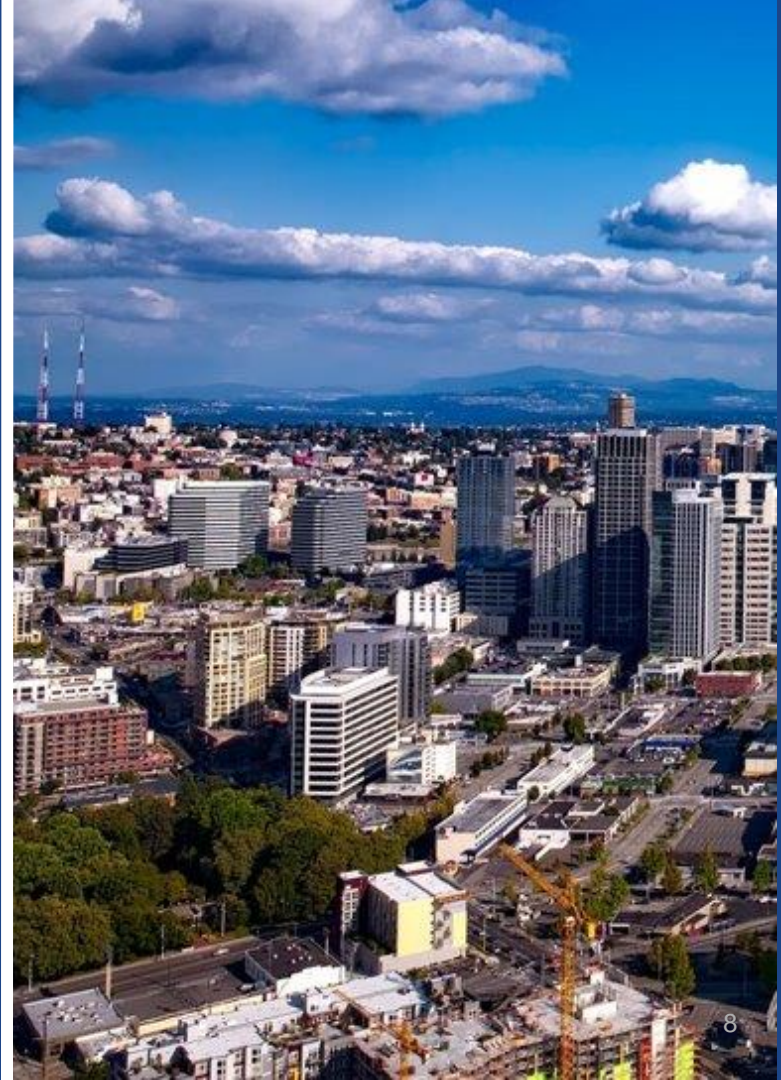
Emissions Topical Workgroups Outreach List

- National MOVES-Mobile Emissions Working Group
- National EGU Workgroup for both ERTAC and IPM data
- National Oil and Gas Emissions Committee (NOGEC)
- MARAMA CMV Working Group (Commercial Marine Vessels)
- National Woodheating Task Force
- NOMAD working group (Nonpoint Method Advisory)



Key Topics Covered in Initial Outreach

- Communication goals for achieving understandable results
- Uses and relevance of EMP
- Responsibilities in creating-reviewing-editing EMP data
- Opportunities for data evaluation and approval, including tools, websites, databases that will be implemented
- Timeline, key milestones
- Next steps (specific to each group)



Past and Upcoming Meetings for Communications Team

October 2023

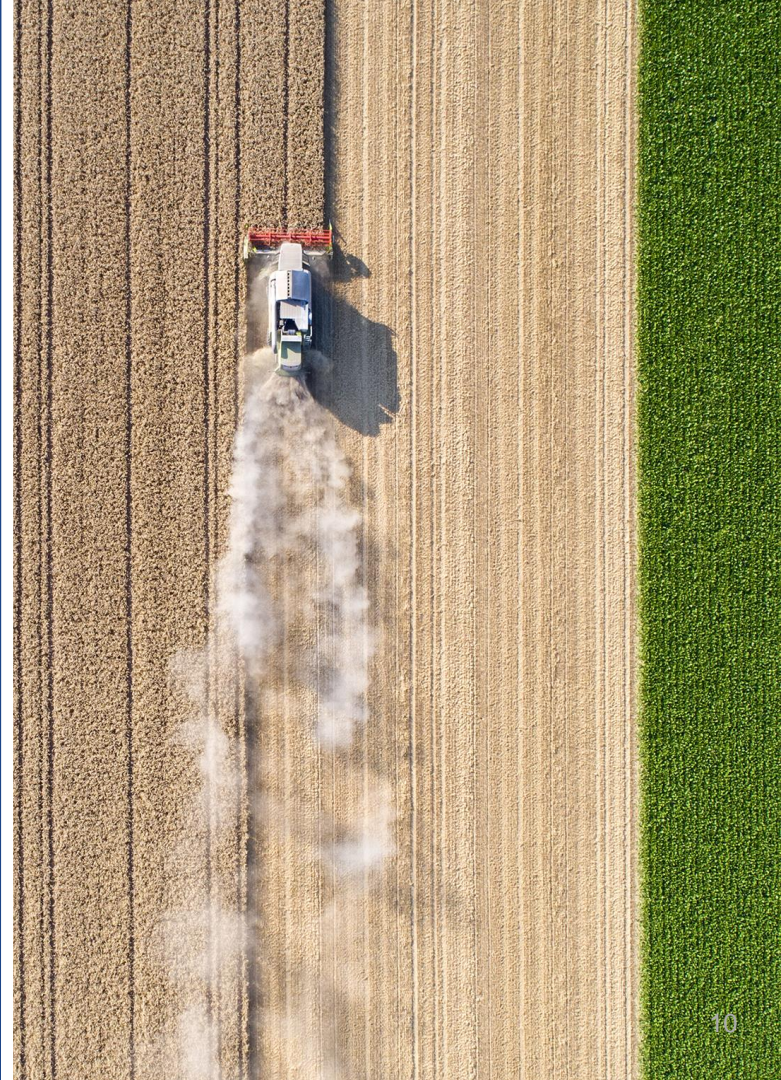
10/12/23	National Oil and Gas Emissions Workgroup	Contact: Jeff Vukovich
10/19/23	MJO MOVES Workgroup	Contact: Debbie Wilson
10/24/23	CenSARA Fall Business Meeting	Contact: Michael Vince
10/25/23	WRAP Technical Steering Committee	Contact: Rhonda Payne
10/26/23	EGU Workgroup	Contact: Serpil Kayin
10/26/23	AAPCA Emissions Inventory Committee	Contact: Morgan Dickie
10/31/23	MJO Regional Haze Collaboration Call	Contact: Mary Uhl

November 2023

11/1/23	OTC Special Topics Call	
11/6/23	Northeast EI Leads call	Contact: Susan McCusker
11/13/23	WRAP Fire and Smoke Workgroup	Contact: Rhonda Payne
11/13/23	CMV Committee	Contact: Debbie Wilson
11/15/23	NOMAD Committee	Contact: Jennifer Snyder

Communications Plan for Winter 2023-24 Outreach

- Build communications materials to be shared January-February 2024
- Summarize inputs EPA has received from SLTs by emission sector as of Dec. 31
- Status of tools for data sharing and review (wiki, evaluation & review tools)
- Purpose of April review window
- Key milestones for Feb-Mar-Apr 2024 timeframe
- Advertise date of next EMP quarterly full progress report meeting



Data review for 2020 and 2022

- The [2020 NEI Data Retrieval Tool](#) allows users to view and download data from the 2020 NEI at the SCC- and county-level for onroad, nonroad, and nonpoint sources, and at the facility-level for point sources.
- Data from the 2022v1 EMP will be ported into this tool, enabling targeted review of emissions for this effort.
- We are considering options for how to collect and track comments on the 2022 EMP.



Example use of the 2020 NEI Data Retrieval Tool

Location				Pollutant			
Select one or more				Pollutant Type-Pollutant			
To download data selection, right click on table and select Export data							
Overview		County Level Data		Facility Data			
2020 County-Level Process Data for Mobile and Nonpoint Emissions							
State	State-County	POLLUTANT	Emissions (To...	POLL...	SCC Code	EIS Sector	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	204.22710	CAP	2104009000	Fuel Comb - Residential - Wood	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	374.77710	CAP	2104008100	Fuel Comb - Residential - Wood	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	418.12060	CAP	2104008700	Fuel Comb - Residential - Wood	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	233.20000	CAP	2104008230	Fuel Comb - Residential - Wood	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	307.74590	CAP	2104008220	Fuel Comb - Residential - Wood	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	469.48080	CAP	2104008210	Fuel Comb - Residential - Wood	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	226.29040	CAP	2104008330	Fuel Comb - Residential - Wood	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	298.62750	CAP	2104008320	Fuel Comb - Residential - Wood	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	455.57030	CAP	2104008310	Fuel Comb - Residential - Wood	
Washington	WA - King	PM2.5 Primary (Filt + Cond)	23.77316	CAP	2104008400	Fuel Comb - Residential - Wood	
Totals			3,011.81286				

Example use of the 2020 NEI Data Retrieval Tool

Location

Select one or more

Pollutant

Pollutant Type-Pollutant

To download data selection, right click on table and select Export data

Overview
County Level Data
Facility Data

2020 County-Level Process Data for Mobile and Nonpoint Emissions

State	State-County	POLLUTANT	Emissions (To...	POLL...	SCC Code	EIS Sector
Washington	WA - King	PM2.5 Primary (Filt + Cond)			04009000	Fuel Comb - Residential - Wood
Washington	WA - King	PM2.5 Primary (Filt + Cond)			04008100	Fuel Comb - Residential - Wood
Washington	WA - King	PM2.5 Primary (Filt + Cond)			04008700	Fuel Comb - Residential - Wood
Washington	WA - King	PM2.5 Primary (Filt + Cond)			04008230	Fuel Comb - Residential - Wood
Washington	WA - King	PM2.5 Primary (Filt + Cond)			04008220	Fuel Comb - Residential - Wood
Washington	WA - King	PM2.5 Primary (Filt + Cond)			04008210	Fuel Comb - Residential - Wood
Washington	WA - King	PM2.5 Primary (Filt + Cond)			04008330	Fuel Comb - Residential - Wood
Washington	WA - King	PM2.5 Primary (Filt + Cond)	298.62750	CAP	2104008320	Fuel Comb - Residential - Wood
Washington	WA - King	PM2.5 Primary (Filt + Cond)	455.57030	CAP	2104008310	Fuel Comb - Residential - Wood
Washington	WA - King	PM2.5 Primary (Filt + Cond)	23.77316	CAP	2104008400	Fuel Comb - Residential - Wood
Totals			3,011.81286			

- View data
- Export as an image
- Export to PDF
- Export data

Live Demo of 2020 NEI Data Retrieval Tool

- Stay tuned for the demo...



Onroad and Nonroad Update

- Preparing onroad emissions requires activity data and MOVES emission factors
- 2022 Vehicle Miles Traveled (VMT) activity data
 - Data have been submitted by nine states
 - For any other agencies that wish to provide VMT, it is needed by the end of 2023
- Schedule
 - Activity data will be finalized and MOVES4 run in January
 - Onroad and nonroad emissions will be computed by February, 2024
 - Once available, data will be shared with MOVES MJO workgroup

Questions?

Contact Janice Godfrey
(godfrey.janice@epa.gov)

Other Mobile Sources Update

- **Commerical Marine Vessels**
 - EPA is requesting 2022 activity data
 - Once AIS data are available, hourly C1C2 and C3 emissions will be computed
- **Locomotives**
 - Work to begin soon
 - Will be based on 2020 NEI with updates from readily available data sources
- **Aircraft**
 - Inventories will be computed for approx. top 50 busiest airports
 - Other airport inventories will be adjusted from 2020 based on activity changes

Questions?

Contact Janice Godfrey
(godfrey.janice@epa.gov)

Collaborative Fires Workgroup

- Includes wildland, prescribed, and agricultural burn emissions
- Python SMARTFIRE2 used for daily acres burned
- Bluesky Pipeline (BSP) used for daily emissions
- Draft 2022 inventory created by EPA and shared with SLTs/MJOs/others (by Nov. 17, 2023)
- Fire activity data requested from SLTs/others (now through December 8, 2023)
- Workgroup kickoff meeting (early December)
- Feedback on draft inventory due early January
- Updated 2022 inventory generated and shared (by March 2024)
- 2022v1 fire inventory finalized (Spring 2024)

Interested in Participating?

Reach out to Jeff Vukovich
(vukovich.jeffrey@epa.gov)
or Rhonda Payne
(rpayne@westar.org)

2022 Oil and Gas Update

- Starting to prepare activity data (Nov-Dec 2023)
 - Contractor may contact SLTs individually with questions/requests
 - County activity will be made available for review (~Jan 2024)
- Oil and Gas Tool 2020NEI version with slight modifications to be used to compute emissions
- Draft emissions available (~Feb 2024)
- SLT/MJO/stakeholder review (Feb-April 2024)
- Oil and Gas point source information available (Jan-Feb 2024)
- Abandoned well emissions to be estimated outside of Tool (Feb 2024)
- Year 2022 inventory finalized (Spring 2024)

Regular updates to be provided on NOGEC calls

Questions about this sector?

Reach out to Jeff Vukovich
(vukovich.jeffrey@epa.gov)

Projections Workgroup Update

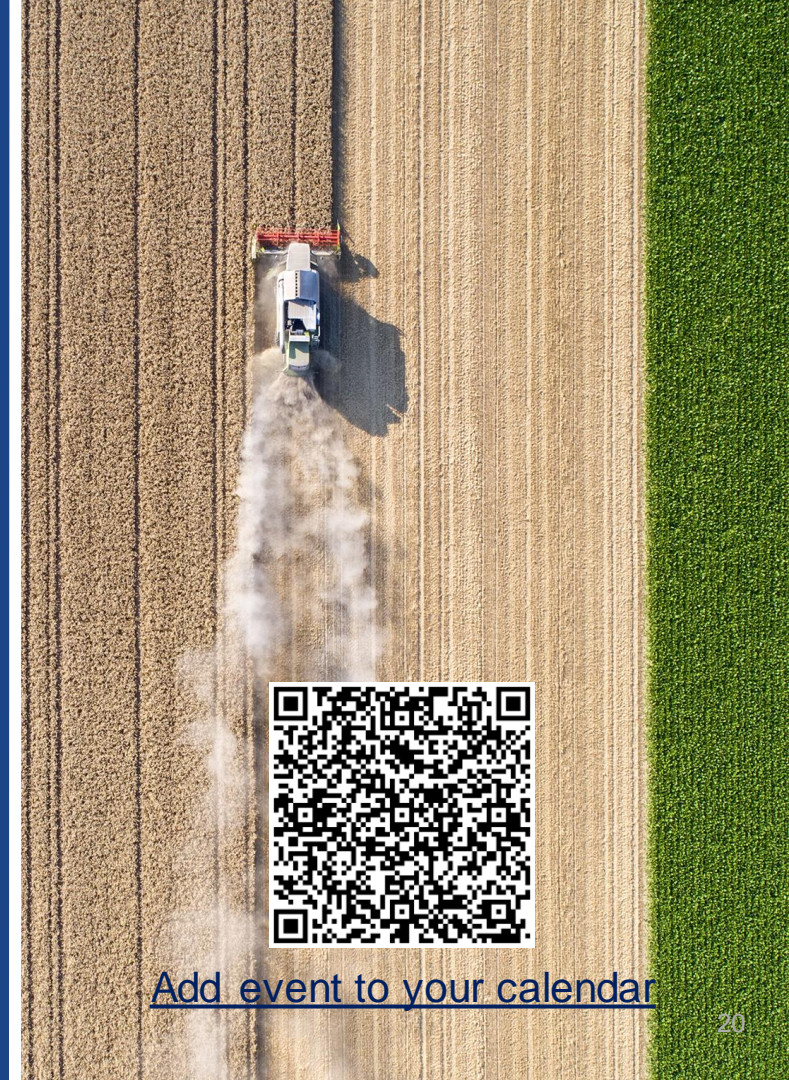
- Kickoff call on October 4
 - Next call: November 1 (today)
 - 40+ people in the workgroup
- Organizing into 5 Task Forces
 - EGUs, Other Point, Nonpoint, Mobile, Oil & Gas
- Collect projection information by source/sector
- Propose and decide on review methods
- Conduct reviews
- Identify alternative projection approaches
- Draft recommendations on projection approaches for 2022 EMP
- Timing: TBD

Interested in Participating?

Reach out to Zac Adelman
(adelman@ladco.org) or
Alison
Eyth (eyth.alison@epa.gov)

LADCO Inventory Review Webinar

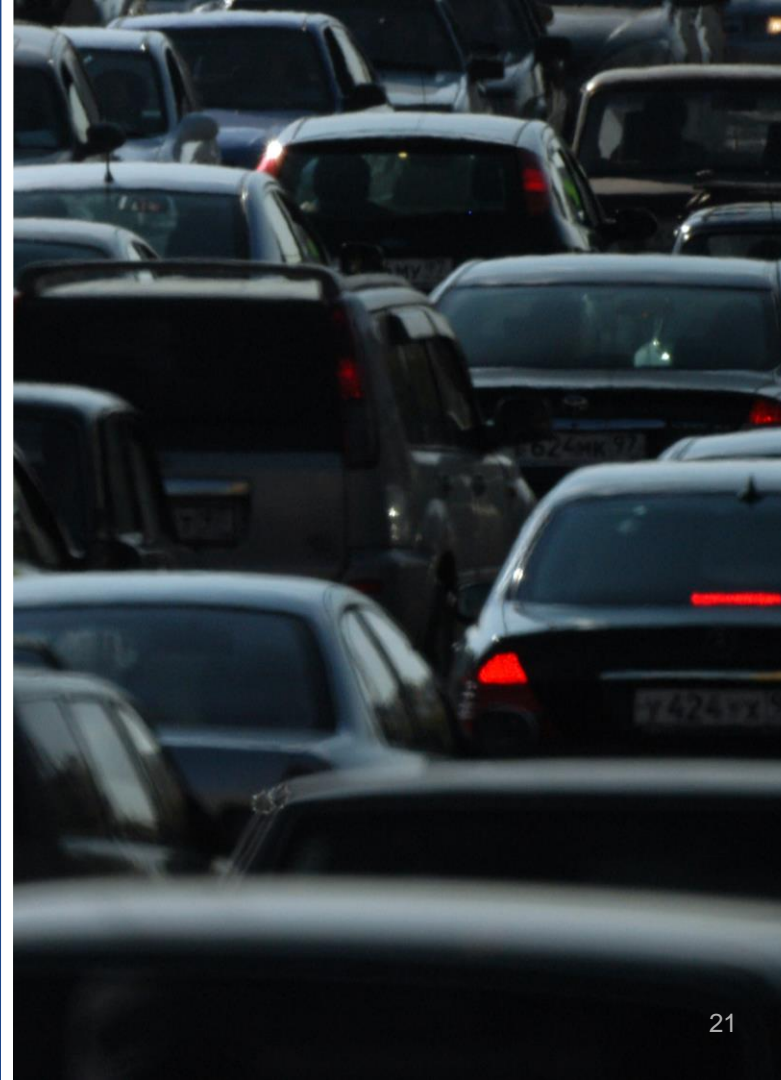
- When: Monday November 13 @ 2:00 Eastern
- Who: Mark Janssen (Emissions Director)
- What: Walk through how LADCO is working with member agencies to review the 2022 EMP
- Agenda:
 - How LADCO prioritized the emissions sectors and sources to review
 - Approach for engaging with member states in the review
 - Analysis products used for the review
 - Timeline of the review
 - Expected outcomes



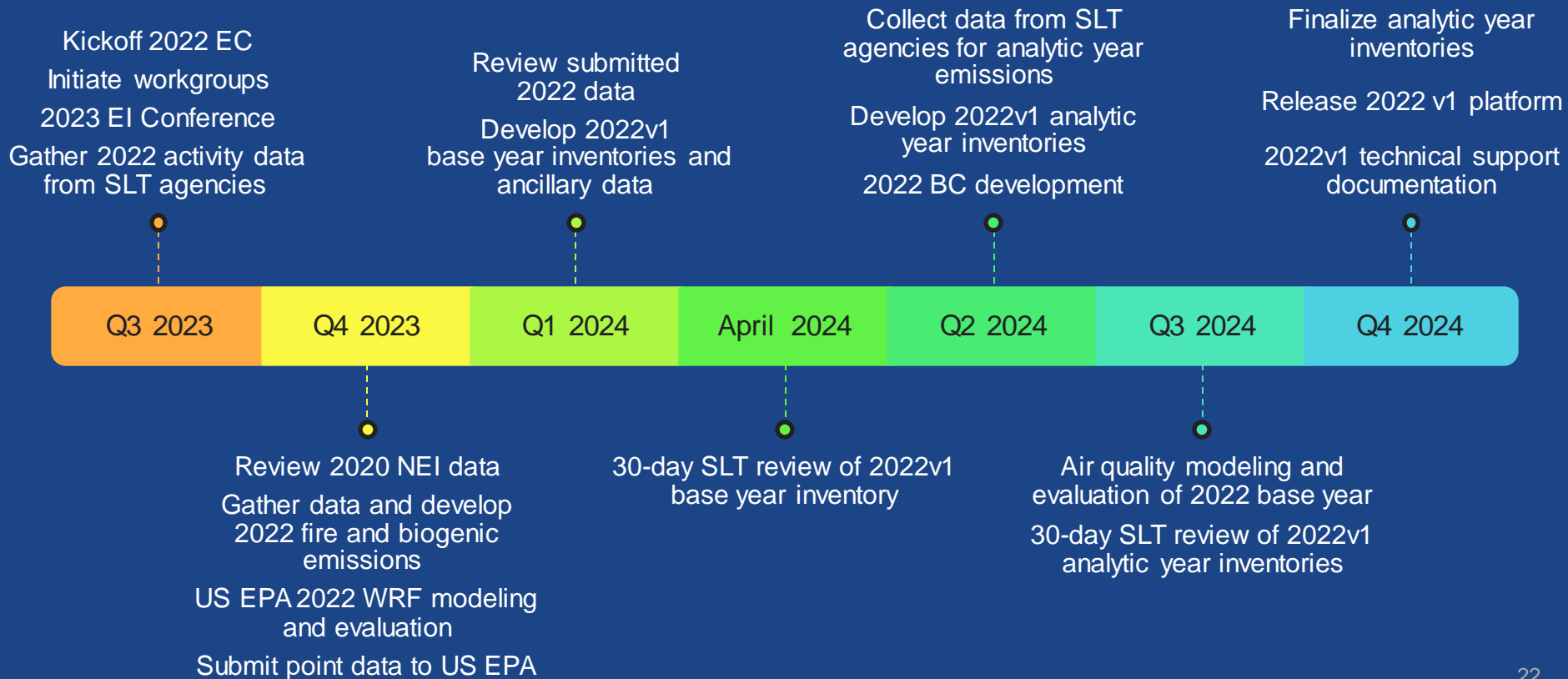
[Add event to your calendar](#)

2022 EMP Schedule Check-In

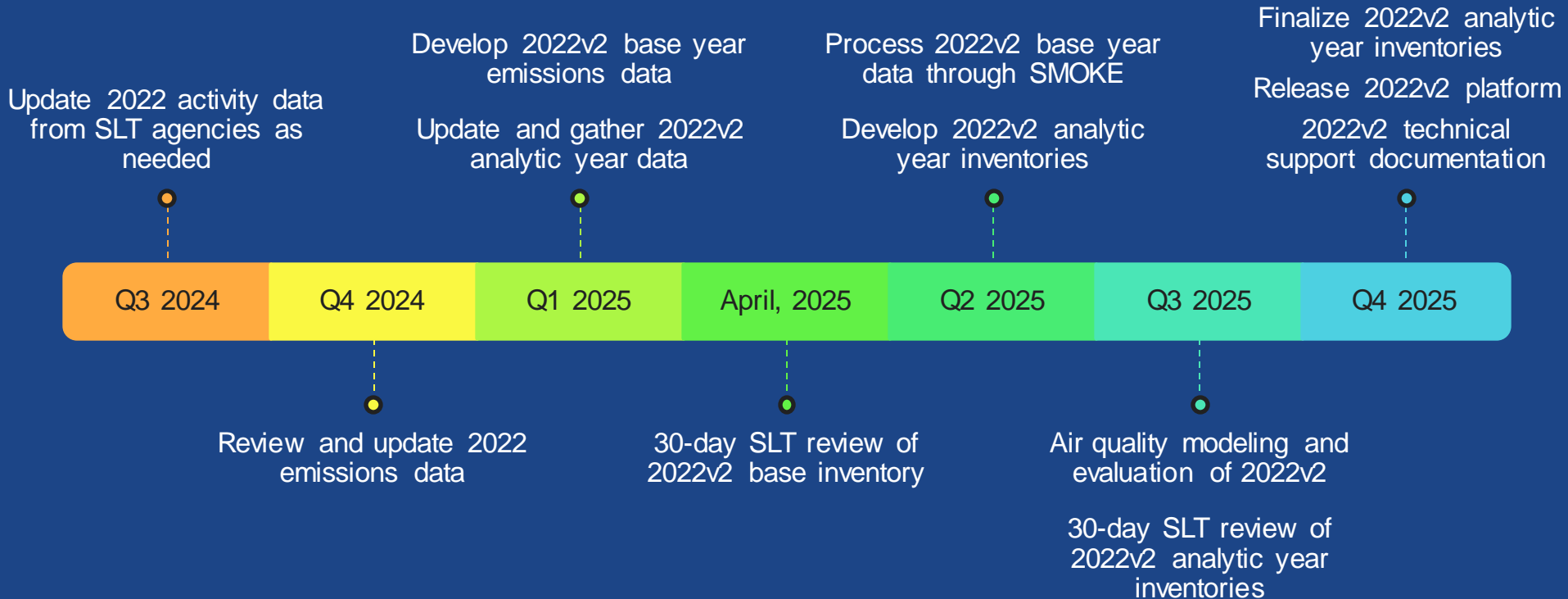
- Any data to be used in 2022v1 base year emissions are needed no later than mid-January 2024
 - Comments on 2020 nonpoint
 - 2022 point sources into EIS
 - 2022 VMT
 - 2022 fire activity data (by Dec. 8)
- Base year 2022 emissions review for all sectors will be in April 2024



Timeline for 2022v1 Platform Development



Timeline for 2022v2 Platform Development



2022 Platforms and Planning Timelines

Summer: 2022v1 base year inventories

August: 2015 O3 NAAQS moderate area attainment date

Fall: 2022v1 analytic year inventories

January: 2015 O3 NAAQS Serious NAA SIPs

Summer/Fall: Haze 3rd implementation period SIPs



Summer: 2022v2 base year inventories

Fall: 2022v2 analytic year inventories

August: 2015 O3 NAAQS serious area attainment date

Stay Informed

- 2022EMP Wiki at Intermountain West Data Warehouse (IWDW)
- Quarterly outreach calls
 - 1st Wednesday in August, November, February, and May at 2PM Eastern
- Attend workgroup meetings
 - MOVES MJO, EGU, NOMAD, NOGEC, projections, fires, ...
- Participate in data reviews



[2022 EMP Wiki](#)

Next Steps

- S/L/T agencies can:
 - Submit 2022 point source data
 - Provide activity data for fires and VMT
 - Participate in workgroup meetings
 - Work with other inventory contacts in your region to review the data
 - Look at 2020 NEI data for anomalies, especially for nonpoint sources
- Workgroups will proceed with reviewing data and compiling recommendations for U.S. EPA
- Next quarterly outreach call: February 7, 2023 @ 2:00 Eastern

