2022 Emissions Modeling Platform Collaborative Development:

Communication Outreach for
NACAA Emissions & Modeling Committee Meeting

December 5, 2023
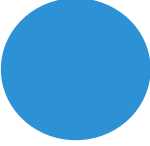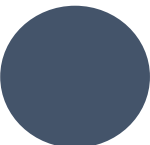
Tom Moore, Denver Metro /
North Front Range RAQC
Tom Richardson, OK DEQ
Rhonda Payne, WESTAR/WRAP

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Key points to be covered today

- Communication Goals

- Uses and relevance of the EMP

- Opportunities for input

- Timeline, key milestones

- Upcoming process for SLT emissions:
  - Review and verify 2022 data
  - Review and endorse projected 2026/32/38 data

Communication Goals for Achieving Understandable Results

- Enhance the existing EMP work – be more effective and intentional with communications

- Leverage past experience / learn from previous efforts

- Data Transparency and Usability

- Design helpful tools for review of data (ex. EPA's Online 2020 NEI Data Retrieval Tool)

Audiences

State and Local Air Quality Management Programs

Multi-Jurisdictional Organizations

Tribal Agencies

Agencies with different primary missions

Academics, Contractors

Very Familiar — Agencies with sufficient staff and other resources for significant participation in EMP development efforts.

Somewhat Familiar — Agencies not participating as extensively but with sufficient resources for detailed review and feedback.

Less Familiar — Less well-resourced agencies that need assistance to find value-added opportunities for limited participation. (Many states have never done nonattainment planning.)
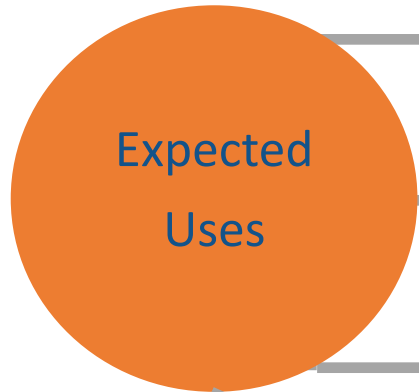
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Responsibilities in Creating-Reviewing-Editing EMP Data and Metadata

Decision-Making by SLTs

Engage in deciding which sectors and components to review (e.g., activity, emission factors, existing controls, other data elements used to generate emissions from activity data, and projection approaches)

Consequences of Non-Review

Complete national data for all sectors will be created for modeling - potential impact of not reviewing key components

Tracking and Reporting Commitments

Develop a system to track and report state and local commitments and progress on categories reviewed and data provided

Open Data Sharing, Feedback, and Transparency

Key Data Sharing Groups
Utilize the [Intermountain West Data Warehouse](#) for project materials and data sharing
[2022 Emissions Modeling Platform Wiki (colostate.edu)](#) - planning & documentation
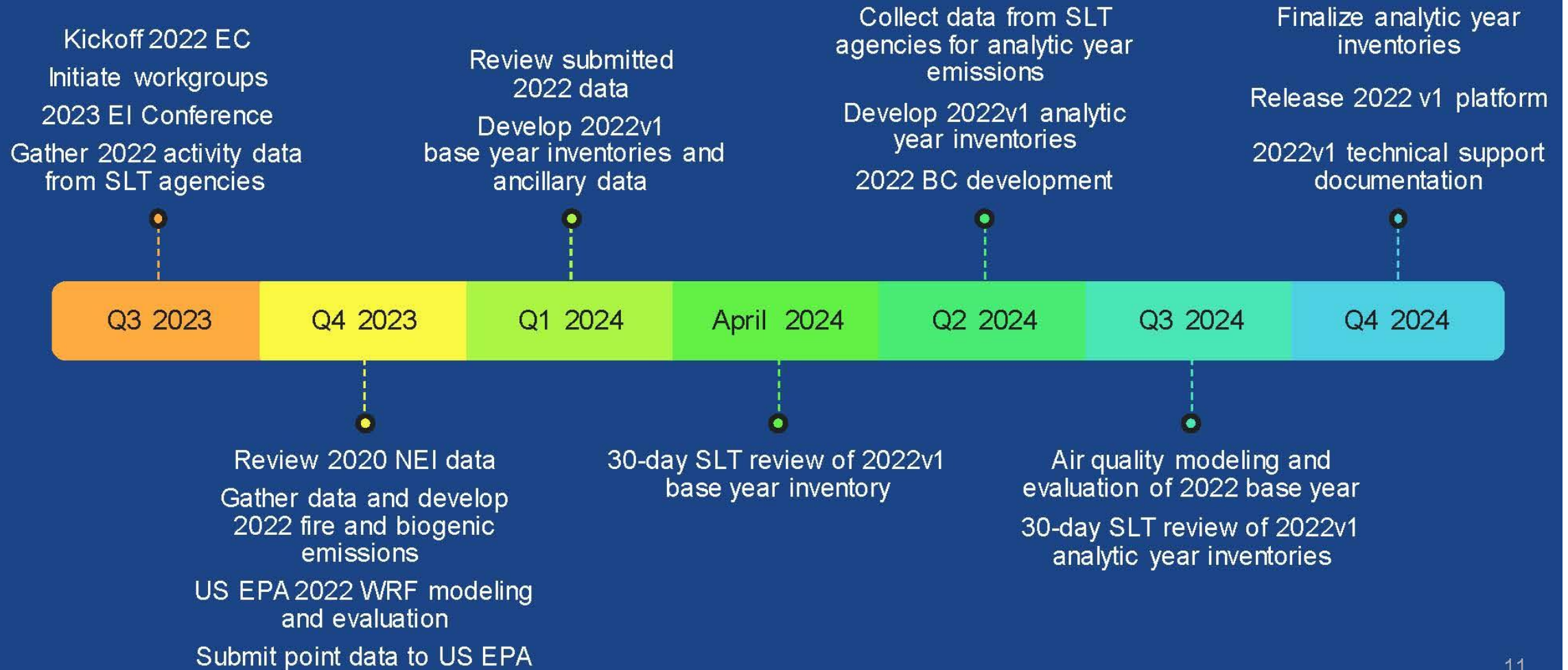
Use the EPA-funded UNC website
Utilize the [CMAS Data Warehouse](#) for data sharing

Supplementing Data and Metadata Delivery

Soliciting Feedback

Timeline for 2022v1 Platform Development

Kickoff 2022 EC

Initiate workgroups

2023 EI Conference

Gather 2022 activity data from SLT agencies

Review submitted 2022 data

Develop 2022v1 base year inventories and ancillary data

Collect data from SLT agencies for analytic year emissions

Develop 2022v1 analytic year inventories

2022 BC development

Finalize analytic year inventories

Release 2022 v1 platform

2022v1 technical support documentation

| Q3 2023 | Q4 2023 | Q1 2024 | April 2024 | Q2 2024 | Q3 2024 | Q4 2024 |

Review 2020 NEI data

Gather data and develop 2022 fire and biogenic emissions

US EPA 2022 WRF modeling and evaluation

Submit point data to US EPA

30-day SLT review of 2022v1 base year inventory

Air quality modeling and evaluation of 2022 base year

30-day SLT review of 2022v1 analytic year inventories

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Next Steps for NACAA Emissions & Modeling Committee Community

Discuss progress on EMP at your meetings

Schedule check on upcoming EMP milestones
- We'd like to come back in Feb./March for a Spring update

Talk about sources of interest to NACAA members
- How they are to be treated in the 2022 EMP?
- What should be assumed for projecting to 2026/32/38 for air quality planning

Bring up questions about data sharing/consistency

Arrange off-line collaborations with other SLTs and EPA

Thanks for your attention – questions?