



DISTRICT

# 2021-2023 Work of the Advisory Council and Letter of Endorsement

Board of Directors Meeting September 20, 2023

Dr. Gina Solomon, Chair Air District Advisory Council

## 2019–2020 PM Symposium Series



#### TIMELINE

October 2019

State of the Science: Health Impacts and Exposure and Risk



February 2020

Community PM Discussion



**July 2020** 

Industry presentations and Air District modelingbased assessment presentation

Beginning of deliberations



December 2020

Joint meeting of the Board of Directors and Advisory Council

Air District update on PM activities and Advisory Council Deliberation

December 2019

Community presentations and Technical/Policy Discussion

**May 2020** 

Deliberations and discussion of final report



Oct - Dec 2020

## 2021–2023 Work of the Advisory Council



#### TIMELINE



2021

Advisory Council onboards and receives background on the Air District and Air District priorities



**July 2022** 

Air District seeks guidance on factors to address sensitive groups; methodology focuses on long-term risk & maximally exposed receptors



October 2022

Air District releases white paper (version 1.1) for public comment; public comment period is extended and closes November 30



**June 2023** 

Advisory Council receives presentation from OEHHA, endorsing the approach as scientifically sound

Air District presents early draft of methodology; explains intent to fill key regulatory gap; poses key questions about simplicity vs complexity



**April 2022** 

Air District presents conceptual links with existing linear-risk HRA approach, considering exposure and dose, plus 3x factor for sensitive groups



Advisory Council receives presentations from organizations that provided public comment on v1.1

January 2023

Version 2.0 released; Advisory Council votes to formally endorse approach with letter of support

Aug-Sep 2023

## What does the methodology do?



- Estimates local health risks from PM<sub>2.5</sub> exposure
  - PM<sub>2.5</sub> has broad impacts on human health
  - Version 2.0 covers adult mortality and pediatric asthma onset
- Patterned on long-standing methods used for addressing potential health risks posed by toxic air contaminants (TACs)
  - Protective of most exposed and sensitive groups
  - No safe threshold within expected PM<sub>2.5</sub> levels

## How can the methodology support Air District work?



- This methodology can:
  - Fill an important gap in the Air District's toolbox
    - Impacts from toxic air contaminants (TACs) are regulated by the Air District at a local level, from individual sources, on the basis of health risk
    - $_{\circ}$  Currently, there is no comparable tool for  $PM_{2.5}$ , the most important health risk driver in Bay Area air quality
  - Support risk-based assessment, regulation, and/or guidance for local PM<sub>2.5</sub> impacts

## Acknowledgements



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## Acknowledgements (cont.)



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