

Public Workshop Draft Initiatives for the Fiscal Years 2018-2021 Triennial Strategic Research Plan

JANUARY 26, 2018

SACRAMENTO, CALIFORNIA



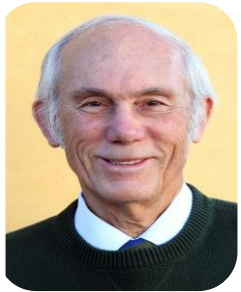
Outline

- Research program background
- Changes to the planning process
- Objectives of the Triennial Strategic Research Plan
- Schedule for plan development
- Past research and draft initiatives for FY 2018-2021
 - Health & environmental justice
 - Air quality
 - Climate
 - Cross-cutting topics
- Contact information

Background

- CARB research program created by the Legislature in 1971
- External contracts and in-house research
- Budget for external contracts \$4-8 M annually
- Multiple coordination mechanisms
 - ARB leverages \$5 from collaborators for every \$1 of ARB research funds spent

Research Screening Committee



Harold Cota, Ph.D.
Cal Poly, San Luis Obispo
(Chairman)



Philip Fine, Ph.D.
SCAQMD



Alan Vette, Ph.D.
U.S. EPA



Rashid Shaikh, Ph.D.
Health Effects Institute



Tim Wallington, Ph.D.
Ford Motor Company



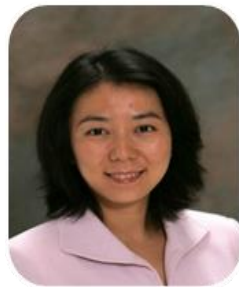
Suzanne Paulson,
Ph.D. UCLA



William Eisenstein,
Ph.D. U.C. Berkeley



Forman Williams,
Ph.D. U.C. San Diego



Yifang Zhu, Ph.D.
UCLA

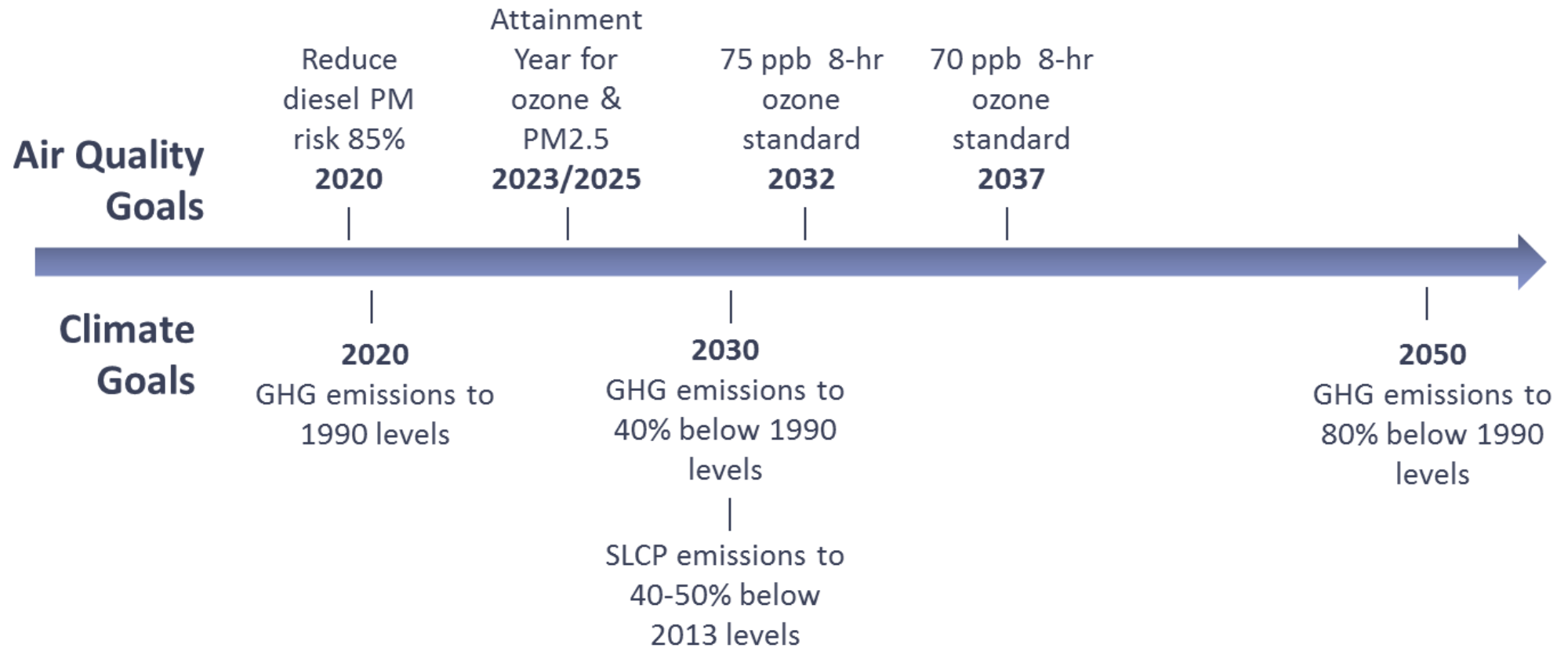


Rachel Morello-
Frosch, Ph.D., M.P.H.
U.C. Berkeley

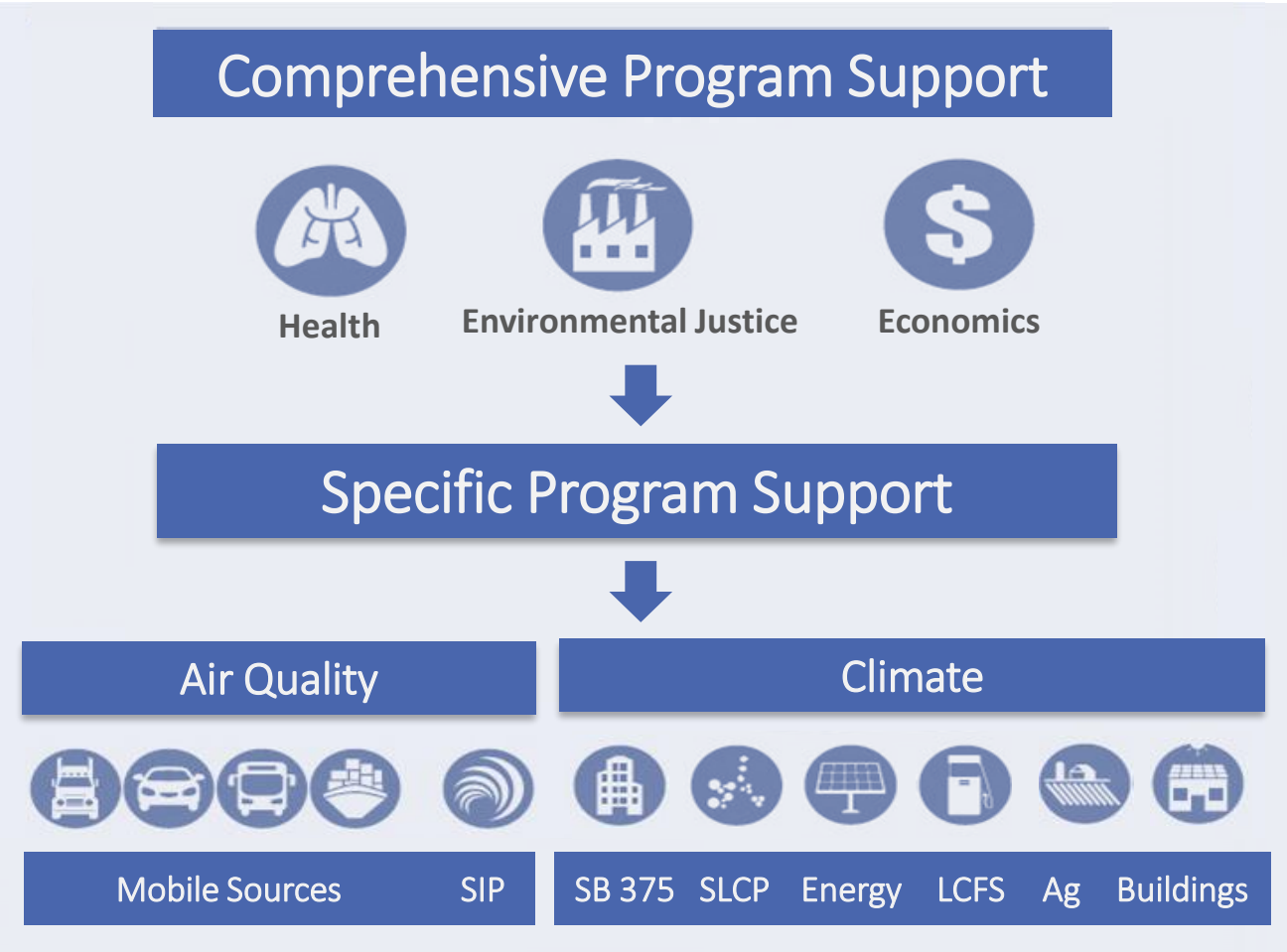


J.R. DeShazo, Ph.D.
UCLA

Planning Considerations



Research to Inform Policy



Triennial Research Planning

- The Triennial Plan will be released every three years
- The Triennial Plans will outline broad research initiatives that represent the agencies' anticipated research needs over the next three fiscal years
- The Triennial Plan will be used to identify projects to be funded each year
- Staff will continue to bring lists of projects to the Board for approval every fiscal year

Objectives of Triennial Research Plan

- Guide research funding to produce timely and credible science to inform key decisions needed to meet air quality, climate goals, environmental justice, and public health goals
- Improve coordination and identify co-funding and leveraging opportunities with other research funding organizations
- Provide greater transparency and stakeholder involvement in the planning process
- Allow for more responsive research proposals from universities and other groups
- Provide increased flexibility to adjust to budget changes and opportunities

Schedule for Plan Development

November 2017 - January 2018– Develop draft research initiatives with CARB staff, Board Members, and the EJAC Data & Modeling Workgroup

January 26, 2018 – Public Workshop on the Draft Initiatives for the Triennial Research Plan

February to March – Coordinate

- Board Members
- CARB Executive Office
- EJAC Data & Modeling Work Group
- Research funding agencies (e.g., CRC, HEI)
- State and Federal agencies (e.g. DOE, EPA, CEC, CDFA, CalTrans, CDPH, OEHHA, SGC)
- Share slides at OCAP community meetings
- Other stakeholders as appropriate (Ag Tech, etc.)

April 26, 2018 - CARB Board Meeting

Present the draft Triennial Plan & proposed list of research projects for FY 2018-19

Future Research Planning

Present the proposed list of research projects to the Board annually
Develop Triennial Strategic Research Plan every three years

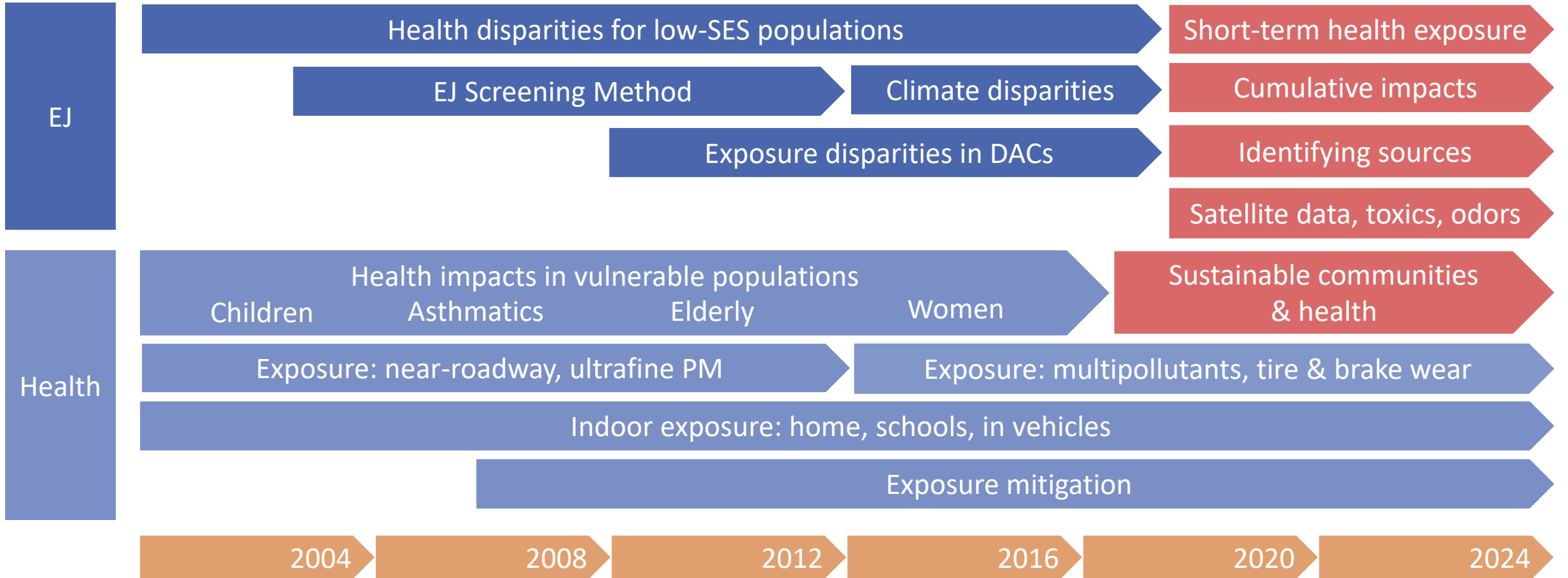
Purpose of the Workshop

- Present draft research initiatives for the Triennial Plan
- Receive feedback on:
 - Draft research initiatives for the Triennial Plan
 - Additional stakeholders to reach out to
 - Additional research partnerships to leverage
 - Opportunities for collaboration or synergies

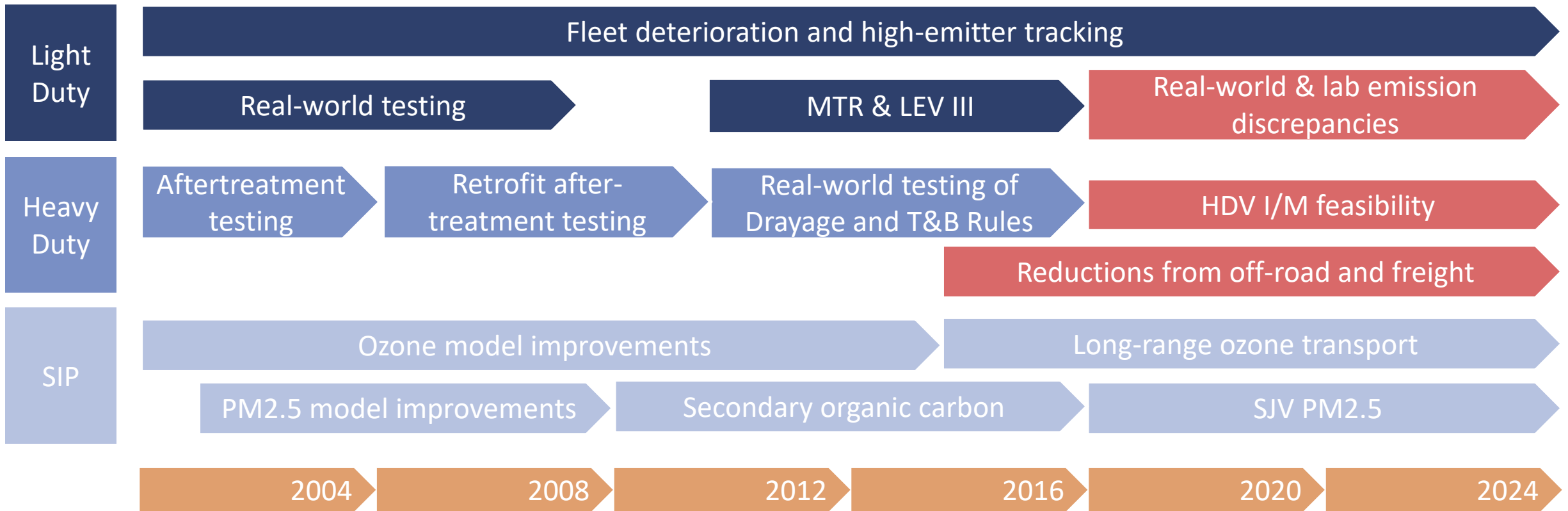
Research Categories

- Health & Environmental Justice
- Air Quality
- Climate
- Cross-cutting Topics

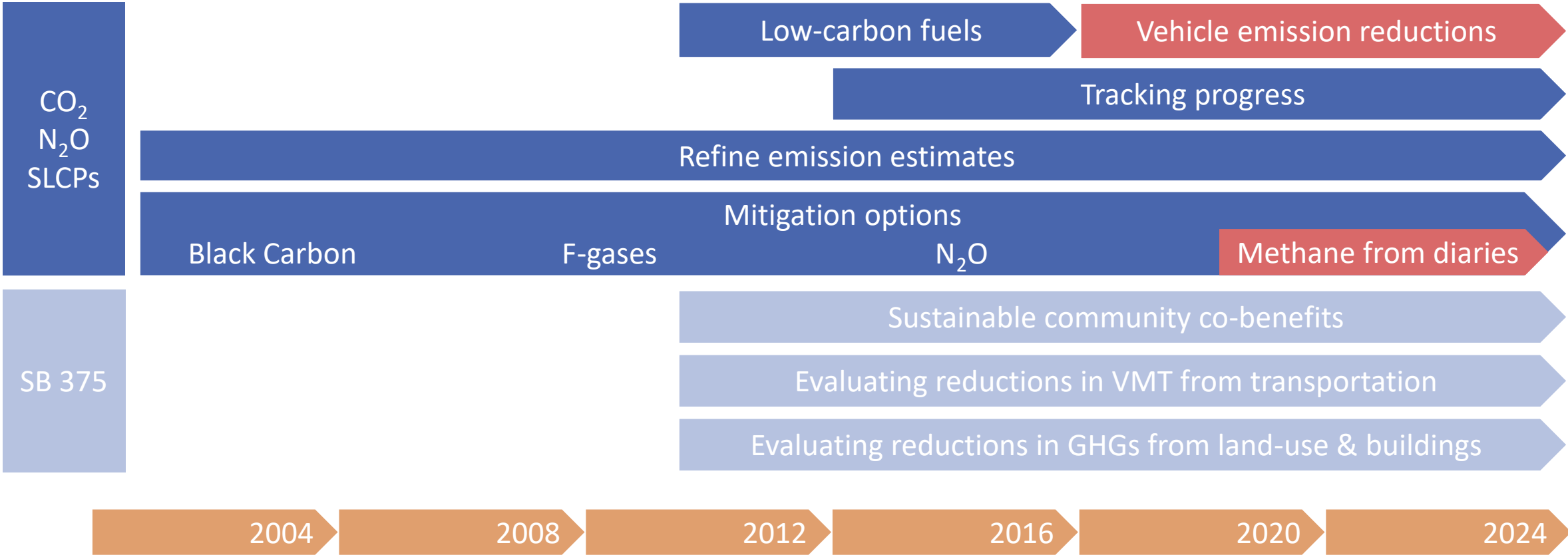
Health and Environmental Justice



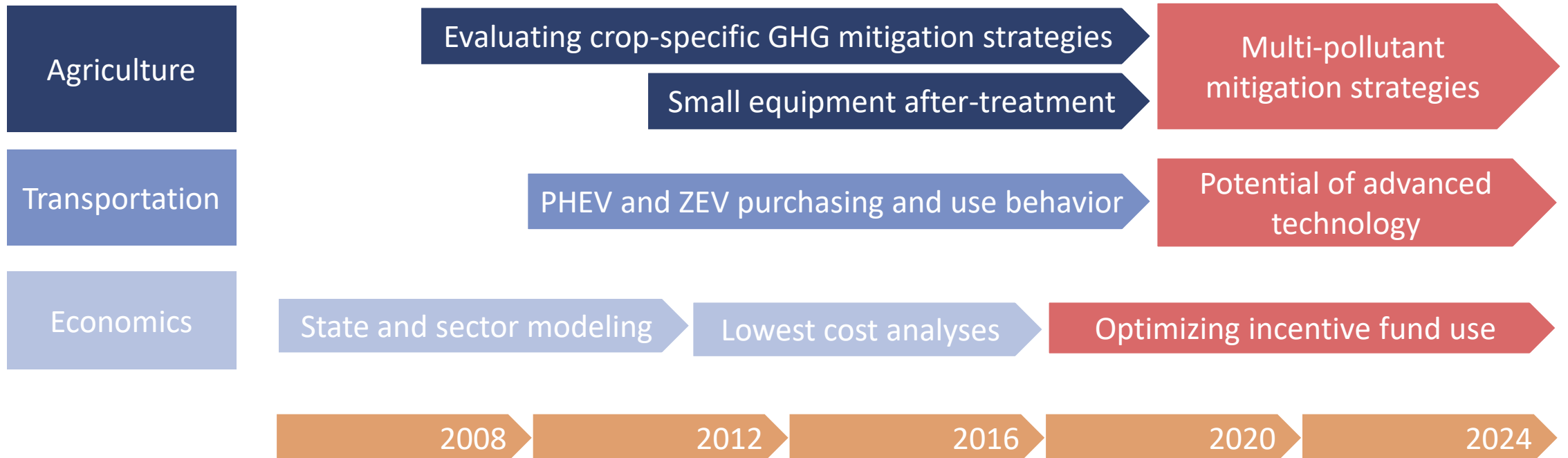
Air Quality



Climate



Cross-Cutting Topics



Annual Research Planning Process

Fiscal Year Research List Development

- Solicit research ideas from the public *
- Identify program-driven research needs
- Prioritize needs via internal & external coordination*
- Board approves proposed Research Plan

Contract Development

- Develop solicitations for proposed projects*
- Review committees identify winning proposals*
- Research Screening Committee reviews winning proposals
- Board approves funding for proposals

Project Oversight

- Staff manage projects and solicit input*
- Large projects include advisory panels*
- Research Screening Committee approves final reports

**Denotes opportunity for external coordination*

Find out more at <http://www.arb.ca.gov/research/research.htm>

CA.gov | Calendar | Help & FAQs | Contact | Careers | SEARCH CARB

CALIFORNIA AIR RESOURCES BOARD | ABOUT | OUR WORK | RESOURCES | BUSINESS ASSISTANCE | RULEMAKING | NEWS

Research

[< BACK TO ALL TOPICS](#)

Strong science is at the foundation of California's air quality and climate programs. The California Air Resources Board sponsors a comprehensive research program that investigates air pollution's causes, effects and solutions. The findings of this research support all the regulations on cars, trucks, fuels, power plants, and other pollution sources. The research, which results in 5 additional dollars for each dollar CARB invests, is done under the guidance of CARB's Research Screening Committee and in partnership with the campuses of the University of California system and other research institutions.

RESEARCH PROJECTS

Since the 1970s, CARB has sponsored research contracts covering a broad range of topics. Search our catalog to find reports, fact sheets, and more.

[FIND A PROJECT](#)

- Archived webinars
- Technical advisory papers
- Research syntheses
- Newsletters
- Join our research listserv
- Information on all research projects

Learn more about research planning

<https://ww2.arb.ca.gov/our-work/programs/research-planning>

Research Planning

[< BACK TO ALL PROGRAMS](#)

Research Planning

[About](#)

[Resources](#)

[Annual Research Plan Archives](#)

[Research Planning Process](#)

[Subscribe](#)

PRIMARY CONTACT

Email research@arb.ca.gov

Phone (916) 445-0753

CATEGORIES

Topics [Research](#)

Division [Research Division](#)

The Legislature created the Board's research program in 1971 and identified it as an integral part of an effective air pollution control program. With the mandate as its foundation, the program encompasses all aspects of air pollution. CARB's research program continues to play an important role in meeting the challenges of increasingly stringent federal air quality standards and long-term climate goals, and serves as the foundation for effective regulatory decisions. The program sponsors fundamental air pollution and climate studies, supports the development of new and innovative pollution-reduction strategies, and evaluates ongoing programs and regulatory efforts. To assist the Board in managing a technically sound research program, the Legislature created the Research Screening Committee to oversee the program. CARB's scientific technical staff serve as contract managers and closely monitor and manage the work performed by outside contractors.

[MORE ABOUT THIS PROGRAM >](#)

Research Ideas

You can help CARB set the research priorities for the next few years through our open solicitation portal. Anyone can submit ideas at any time. Learn more about what CARB is looking for on our ideas website.

[SUBMIT AN IDEA](#)

- Information on the research planning process
- Archived Annual Research Plans
- Submit a research concept



More about today's workshop

<https://ww2.arb.ca.gov/resources/documents/workshop-notice-triennial-research-plan>

- Public notice
- Archived presentation
- Archived webcast
- Electronically submitted comments - no later than 5:00 p.m., February 9, 2018

Workshop Notice - Triennial Research Plan

A public meeting to consider draft initiatives for the CARB 2018-2021 Triennial Strategic Research Plan



DOWNLOAD

PDF · 103 KB

DATE: January 26, 2018

TIME: 10:00 a.m.

LOCATION: California Environmental Protection Agency, Sierra Hearing Room, 2nd Floor, 1001 I Street, Sacramento, California 95814

WEBCAST: If you are unable to attend the workshop in-person, a live video/audio webcast will be available. The link for the webcast will be available the day of the workshop at the following link: <https://video.calepa.ca.gov/>

During the workshop, CARB staff will provide a summary of the draft research initiatives for the 2018-2021 Triennial Strategic Research Plan, followed by an open discussion for public comment and feedback. Staff's presentations and any associated documents will be posted in advance on CARB's website at: <https://ww2.arb.ca.gov/our-work/programs/research-planning>.

CATEGORIES

Topics [Research](#)

Programs [Research Planning](#)

Type [Notice](#)

CONTACT

Email research@arb.ca.gov

Phone (916) 445-0753

Contact

Written comments must be postmarked on or before February 9, 2018.

Postal mail: Sarah Pittiglio, Air Resources Board
1001 I Street, Sacramento, California 95814

For questions regarding the research planning process, please contact

Sarah Pittiglio

916.324.0627

sarah.pittiglio@arb.ca.gov

Public Comments and Questions

- Please state your name and affiliation
- Please limit your comments to 3 minutes to allow time for others
- Webcast attendees can submit questions for the panel to address via email: sierrarm@calepa.ca.gov