AB 617 SOUTH LOS ANGELES COMMUNITY STEERING COMMITTEE

December 2, 2021









Language Justice Announcement

During the Event

SLOW DOWN

Facilitators, presenters, trainers, participants... anyone speaking during the event, **speak at a moderate pace**. **Take a breath** after each sentence, **take a pause** after switching speakers and asking questions. Slowing down supports **EVERYONE**, not just interpreters.





SPEAK-UP

Speak loud and clear! Ideally, **using headphones with a mic.** Interpreters need to
be able to hear the speaker over the sound of
their own voice when doing simultaneous
interpretation.



Folks listening to the interpretation might only hear the interpreters voice, so they will not notice when a new person is speaking.



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ONE PERSON AT A

Interpreters can only interpret for **one person at a time**, and they don't want to be put in the position of having to decide which voice to privilege over another.

LANGUAGE IS NOT A BARRIER

To the contrary, when we have multiple languages in a space, we have multiple cosmovisions, and multiple ways of understanding the world. We have the opportunity to expand and deepen our perspective, our imaginations, the possible strategies, tactics, and visions for what is possible.



Created by: catalina.nieto.interpretation@gmail.com With the advice, expertise and support of many people in the Language Justice Community

Today's Agenda

- PART 1: Oil and Gas / Mobile Sources Recap / Next Steps
- PART 2: Defining Air Quality Priorities Auto Body Shops / Metal Facilities
- PART 3: BACT / BARCT / Alternatives: Auto Body Shops / Metal Facilities
- PART 4: Diving into Solutions for Auto Body Shops / Metal Facilities
- **PART 5: Defining Next Steps**
- **PART 6: Public Comments**

PART 1: Oil and Gas / Mobile Sources Recap / Next Steps





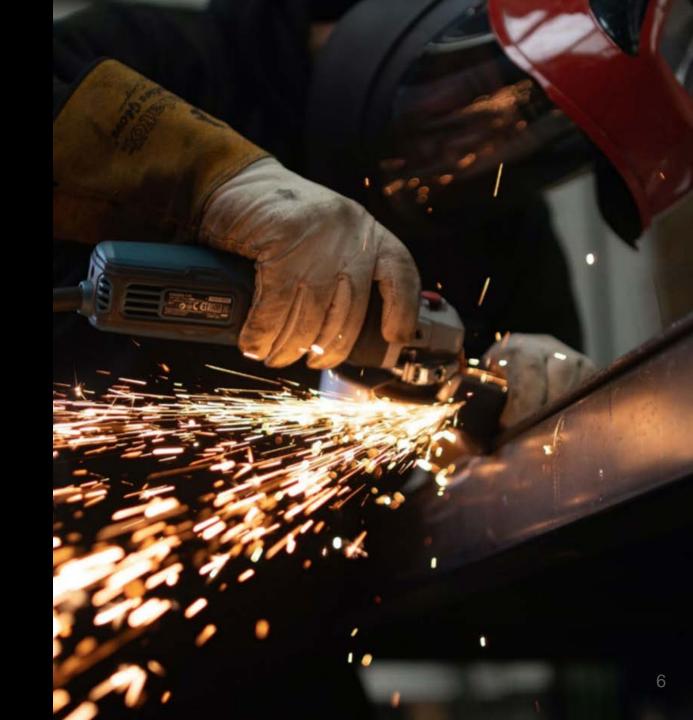


PART 2: Defining Air Quality Priorities Auto Body Shops / Metal Facilities

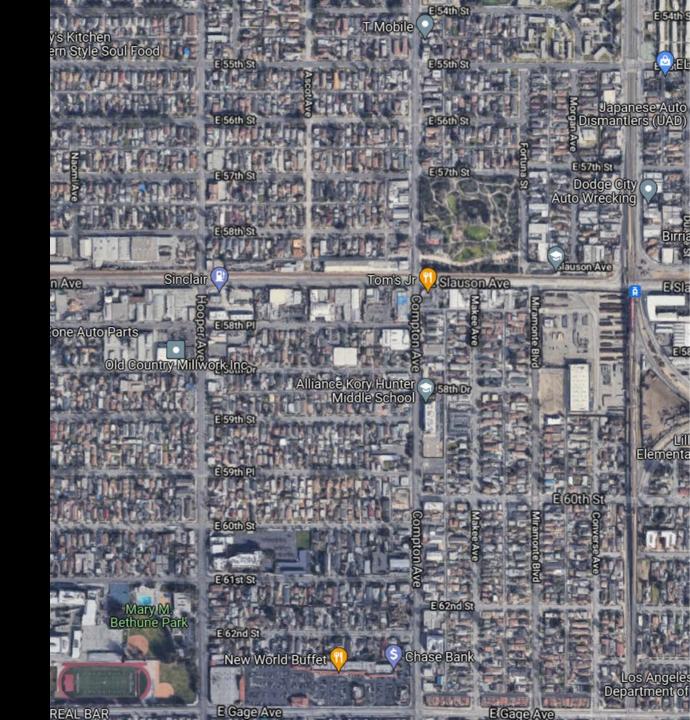




METAL
MANUFACTURING
CASE STUDY



California Metal X
Lead-Free Metal Brass
Alloys For Water
Supply Systems



CONTEXT & BACKGROUND:



For the purpose of this case study, we focused on a specific metal manufacturing facility—California Metal X. CMX is a metals processing facility that supplies metal alloys to potable water systems.

CMX operations and equipment are continuously modified to reduce pollution burden.

THE PROBLEM



Copper-based brass alloys have long been used for potable water supply components due to the durability and corrosion resistance of copper.

In the United States, the 1974 Safe Drinking Water Act (SDWA) was enacted to ensure safe drinking water in every community by setting maximum concentration limits for chemicals that adversely impact water quality, including copper and lead.

POLLUTION BURDEN & HEALTH IMPACTS:



Lead is:

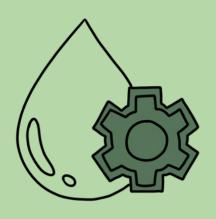
- Considered an extremely toxic element with no known safety threshold.
- A potent developmental toxic and increased evidence has shown that health impacts can arise even at very low concentrations impacting cognitive ability, particularly in children.
- Lead-bearing brass alloys in water supply systems have contributed to increased exposure to lead

REGRETTABLE SUBSTITUTIONS:



- In 2011, the SDWA dictated a phase out of leaded brass potable water supply components.
- This law enabled metal industries to switch to bismuth brass alloys which was recommended as a safer alternative. However, bismuth when extracted contains toxic lead.
- By enforcing this law, California proliferated a switch to a regrettable substitution—bismuth brass—without considering the impacts of bismuth's extraction, production, and disposal which enable the continued led-contamination in water and air pollution burden in frontline communities.

BEST PRACTICES& CONTROL TECHNOLOGIES:



- CMX implementation of best practices and control technologies has created positive environmental health benefits and reduced air pollution.
- Some of the best practices include using a water filtration system to prevent toxic metals from entering the environment and using wet sweeping to wash metal particulates into the filtration system to minimize air emissions.

NON-TOXIC SUSTAINABLE ALTERNATIVES:



- Silicon brass is a less toxic, more sustainable, leadfree substitute to lead-bearing and bismuth-bearing brass alloys for potable water supply applications.
- Reducing lead concentration of silicon brass to the lowest achievable level of 0.02% would further reduce adverse impacts.

JUST TRANSITION & CLEAN PRODUCTION:



By switching to a clean production approach, safer alternative silicon brass, and best available control technologies, metal facilities can reduce frontline community's exposure to lead in water and air pollution impacts related to manufacturing brass alloys

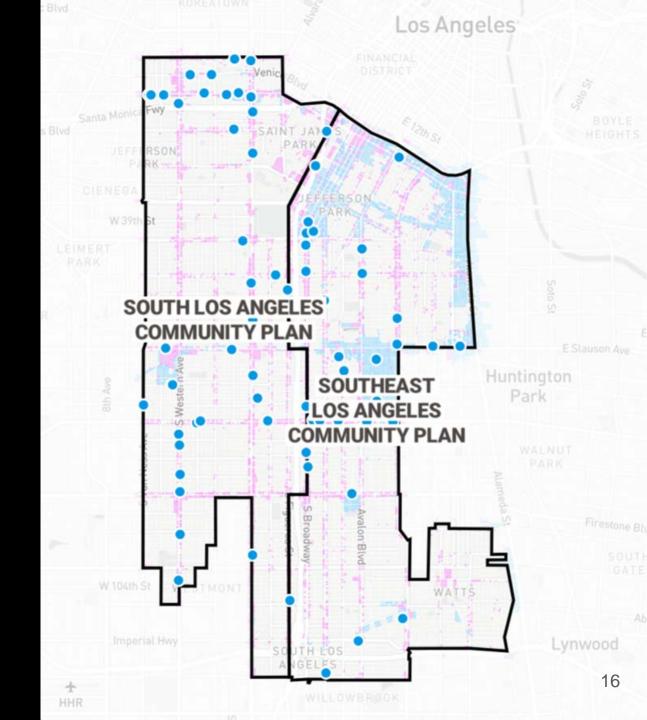
AUTO BODY SHOPS CASE STUDY



THE PROBLEM:

There are approximately more than 55 auto body shops located in South Central Los Angeles.

In addition, there are countless auto body shops located in South LA that are missing or misclassified by regulatory agencies which leads to inaccurate data on air pollution emissions and its impacts on public health.



POLLUTION BURDEN & HEALTH IMPACTS:



- The paints or coatings used at auto body shops may cause odors and emit air pollutants, including volatile organic compounds (VOCs) or toxic air contaminants, such as metals.
- Other operations can result in emissions of fine dust from metal compounds (e.g., chromium and nickel).
- These pollutants can contribute to health problems including a number of respiratory effects and are the leading cause of occupational asthma.

BEST PRACTICES& CONTROL TECHNOLOGIES:



TABLE 4: TOP 6 EPA BEST PRACTICES FOR AUTO BODY SHOPS

Category	Benefits		
Requirements:			
Ventilated spray booths with filters that are at least 98% efficient Prohibit clean spray guns by spraying solvent through the gun, creating an atomized mist	 Removes paint overspray from the air Less contact with hazardous coating materials Minimizes contact with hazardous solvents Minimizes emissions of hazardous chemicals into the air 		
Best Practices:			
Use low VOC or water-based cleaners, primers, and base coats	 Reduces or eliminates VOC emissions 		
Keep all containers shut when not in use	 Reduces emissions and occupational exposure 		
Make Material Safety Data Sheets available to shop workers	 Increases worker awareness of toxicity of chemicals leading to greater care in chemical use 		

Defining Air Quality Priorities for Auto Body Shops / Metal Facilities

Jamboard Activity Steps:

- 1. Walking through the community
 - 2. The facility Itself
- 3. What else we need to account for



PART 3: BACT/BARCT/Alternatives: Auto Body Shops/Metal Facilities



Michael Morris, Planning and Rules Manager



Pippin Mader, Staff Air Pollution Specialist

Auto Body and Metal Processing Requirements

Background – Autobody Requirements

- At last CSC meeting, discussed U.S. EPA best practices for autobody shops
- South Coast AQMD rules go beyond U.S. EPA's best practices for autobody shops
- Two primary rules that regulate autobody spraying operations
 - Rule 1151 Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations
 - Rule 1171 Solvent Cleaning Operations
- Operators conducting autobody spraying operations must meet requirements in South Coast AQMD rules

TABLE 4: TOP 6 EPA BEST PRACTICES FOR AUTO BODY SHOPS

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Keep all containers shut when not in use	 Reduces emissions and occupational exposure
Make Material Safety Data Sheets available to shop workers	 Increases worker awareness of toxicity of chemicals leading to greater care in chemical use

Requirements for Autobody Spraying Operations

of Coatings and Solvents



Rules limit the VOC content limits for coatings and solvents and reflect Reasonably Available Control Technology

Prohibits Materials with Toxic Air Contaminants

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Rules prohibit use of coatings and solvents with specific toxic air contaminants

Requires Methods to Maximize Transfer Efficiency



Rules specify
minimum transfer
efficiency to reduce
overspray and
waste

Requires Use of Spray Enclosure



Permitted spray enclosure required if >1 gallon per day sprayed

Requirements for Autobody Spraying Operations (Continued)

Implement Best
Management
Practices



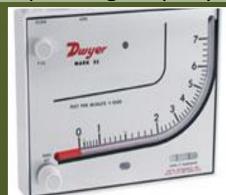
Keep solvents and solvent-laden waste in closed containers

Require Filters to Reduce Particulate



Filters limit particulate emissions and reduce overspray

Monitor Control
Equipment
Operating Properly



Manometer to ensure that spray booth operating properly

Prohibit solvent atomization



Solvent cleaning conducted in equipment that is closed during cleaning

South Coast AQMD Metal Processing Rules



- Rule 1407
- Rule 1407.1
- Rule 1420
- Rule 1420.1
- Rule 1420.2



Metal Heating Rules

• Proposed Rule 1435



Metal Processing Rules

- Rule 1426
- Rule 1430
- Rule 1469
- Rule 1469.1
- Proposed Rule 1426.1
- Proposed Rule 1445



• Rule 1480

General Approach: Metal Processing



Point Source Controls

- Vent exhaust to air pollution control equipment to capture and control toxic metal particulates
- Air pollution equipment includes:
 - Baghouse
 - Scrubber
 - Electrostatic precipitator
 - High efficiency particulate air (HEPA) filter
 - Ultra-low particulate air (ULPA) filter



Building Enclosures

- Conduct metal processing in buildings that are completely enclosed or minimize cross-draft conditions
- Building improvements include:
 - Automated doors
 - Overlapping plastic strip curtains
 - Vestibules
 - Barrier
 - Airlock system



Housekeeping

- Enhanced measures to collect potential fugitive metal dust and prevent re-entrainment from foot traffic, vehicular traffic, wind, etc.
- Housekeeping measures include:
 - Routine cleaning of areas near melting operations
 - Prohibit dry sweeping and use of compressed air
 - Additional periodic cleaning of area where dust may accumulate
 - Requirements for material storage and transport material



Permitting for New Auto Body and Metal Processing Equipment

- Operators must have a South Coast AQMD Permit for equipment that emits air contaminants
- Permits are issued only if the following rules and regulations are met:
 - Regulation XIII New Source Review requirements
 - Rule 1401 New Source Review of Toxic Air Contaminants
 - Equipment can meet the requirements in existing rules and regulations
- Regulation XIII and Rule 1401 ensures new, modified, or relocated equipment with an emission increase meets:
 - State of the art pollution controls are installed referred to as Best Available Control Technology
 - Permits have emission limits to ensure health risks are below health risk thresholds in Rule 1401

CARB Technology Clearinghouse – Modules and Tools

BACT Module

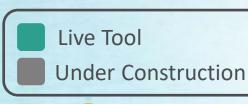




BACT Guidelines

BACT Determinations

BACT References (Outof-State)



Rules Module





District Rules (Current)

District Rules (Historical)

CARB Rules (ATCMs)

CARB Rules (Other)

Next Gen Module





Residential Backup
Power

Commercial Backup
Power

Appliances

Support





Non-Attainment Tool

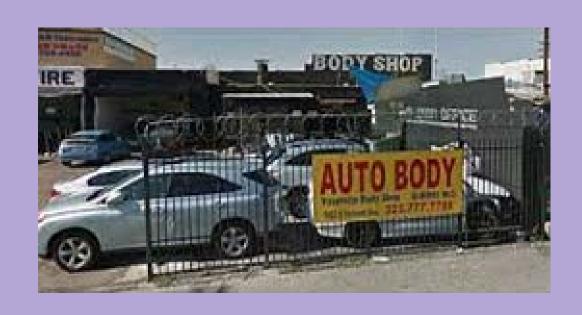
Training Videos

Supporting Webpages

Stationary Source Q&A



PART 4: Diving into Solutions for Auto Body Shops / Metal Facilities





Diving into Solutions/Actions Identified for Auto Body Shops / Metal Facilities

World Cafe Groups Activity Instructions

Understanding

Air pollution solutions effectiveness in terms of individual and community protection

Ground Truthing

Solutions and actions to reduce air pollution and identify gaps and other potential needed solutions

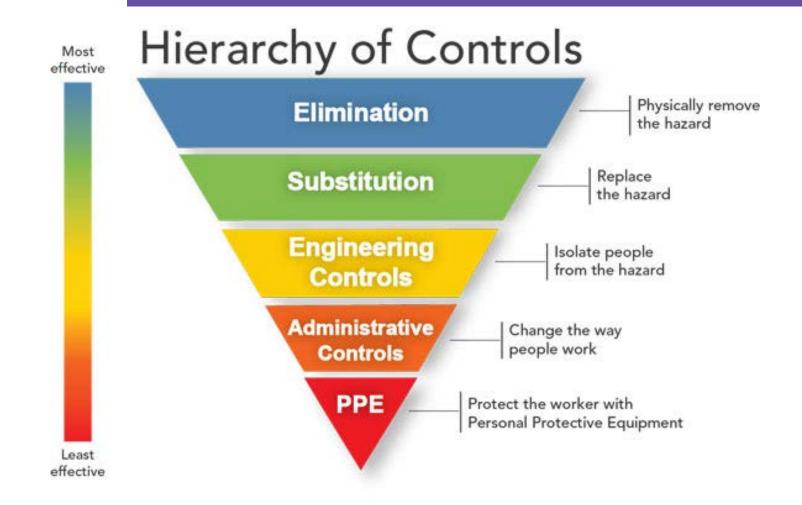
Discussing

And envision other potential solutions and how we can go above and beyond

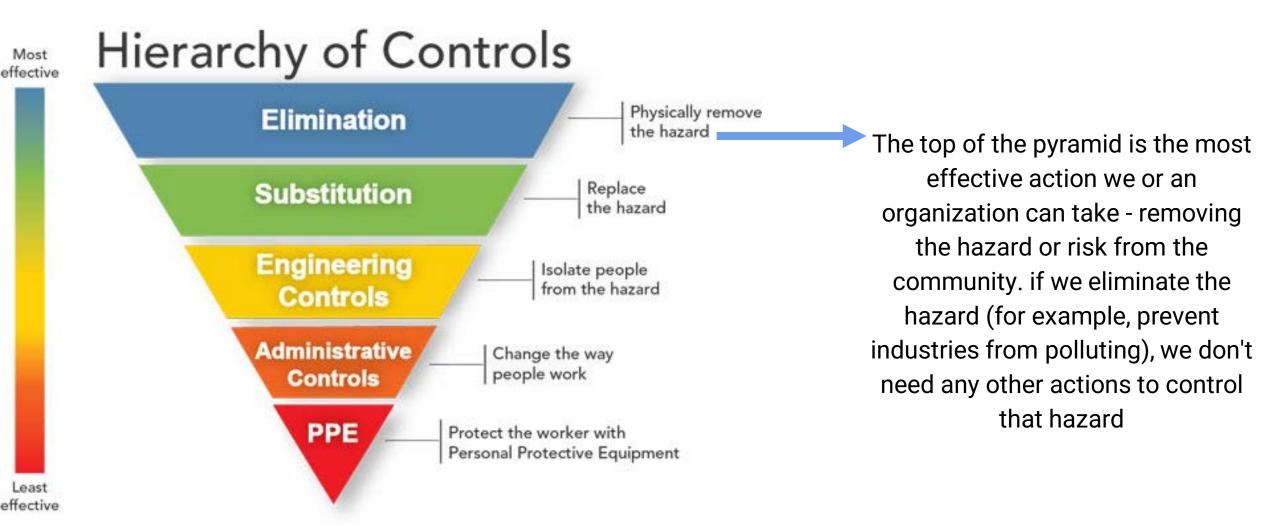
World Cafe Groups Activity Instructions

Understanding

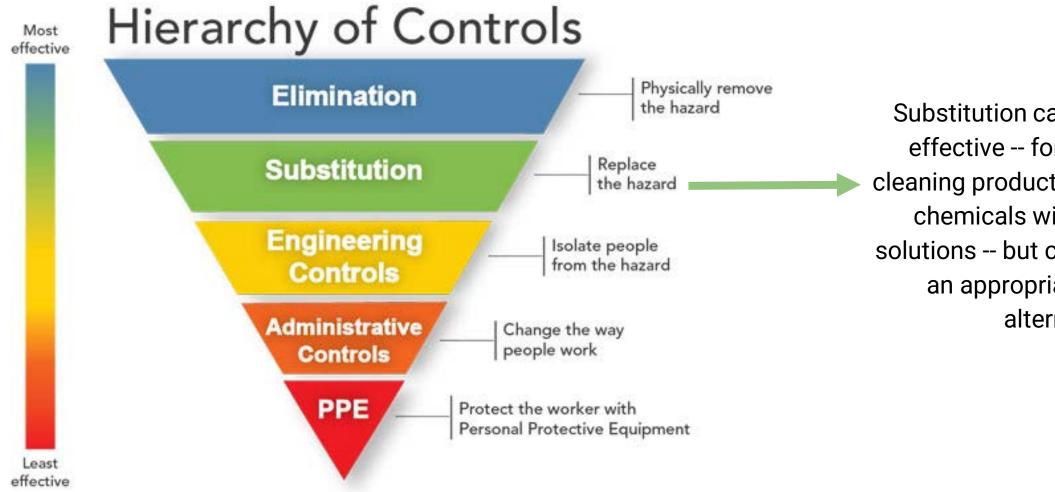
Air pollution solutions effectiveness in terms of individual and community protection



Hierarchy of Controls: Elimination

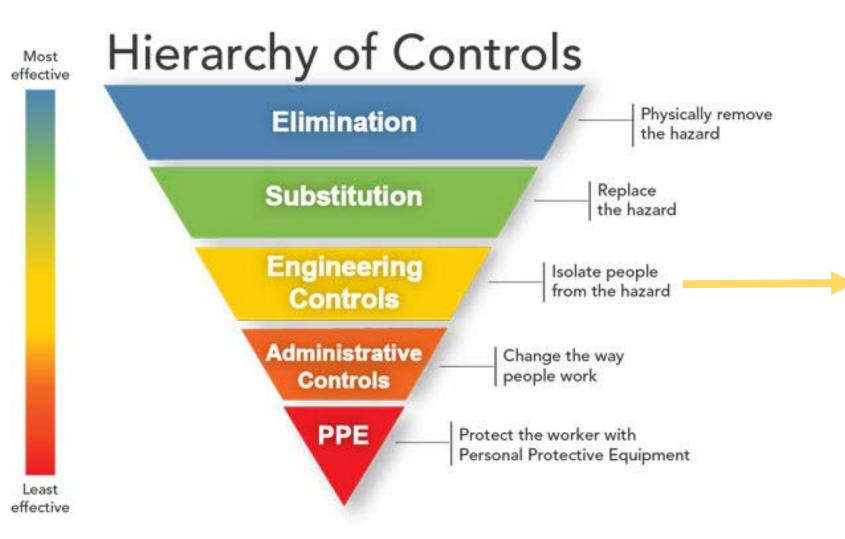


Hierarchy of Controls: Substitution



Substitution can also be highly effective -- for example with cleaning products, replacing harsh chemicals with homemade solutions -- but challenging to find an appropriate and safer alternative

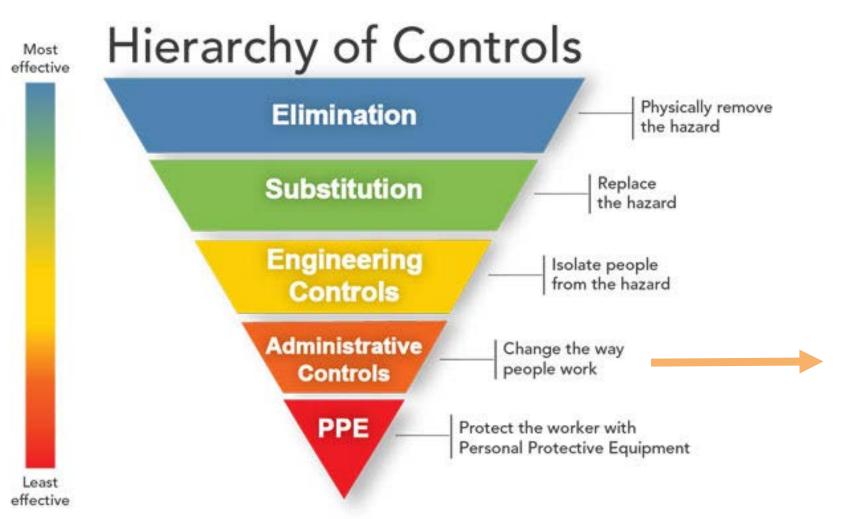
Hierarchy of Controls: Engineering Controls



As we go down the pyramid, the actions are less effective at controlling the hazard and preventing harm

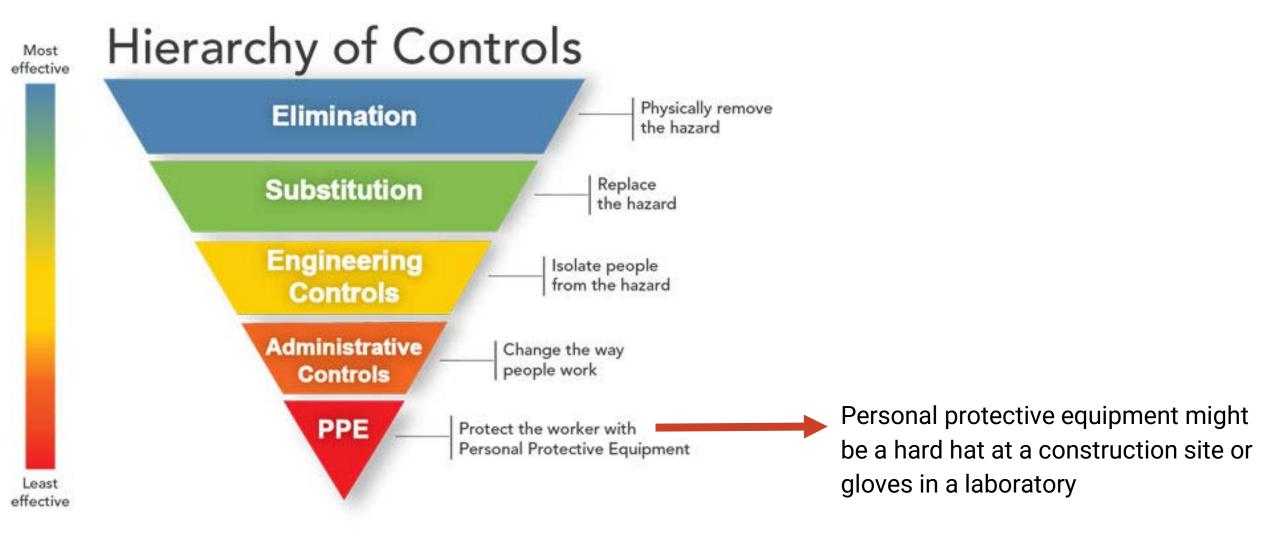
engineering controls are usually mechanical solutions to prevent the hazard or toxin from reaching people - in a workplace, this might be a physical barrier to keep chemicals away from workers. In a community setting, it could be a fence around a construction site or land use restrictions.

Hierarchy of Controls: Administrative Controls



The controls at the bottom of our pyramid are both the least effective actions and also put the most burden on the individual instead of the organization

Hierarchy of Controls: Protective Personal Equipment



World Cafe Groups Activity Instructions

Ground Truthing

Solutions and actions to reduce air pollution and identify gaps and other potential needed solutions

Discussing

And envision other potential solutions and how we can go above and beyond

- 1. Where do you think "this CERP action/ solution" falls within the hierarchy of controls? Does it get at protecting individuals or does it move us toward elimination of air pollution coming from this source?
 - a. If it falls within substitution or elimination (most effective)
- 2. Do you think "this CERP action/solution" could be strengthened to make it more effective? If so How?
 - a. If it falls within the protecting the individual (least effective)
 - b. If it doesn't get us to elimination of air pollution from this source, does it help us regulate it while we move toward a green alternative solution? (e.g. renewable energy)
- 3. What are other actions do you think need to be taken to reduce emissions in this industry?

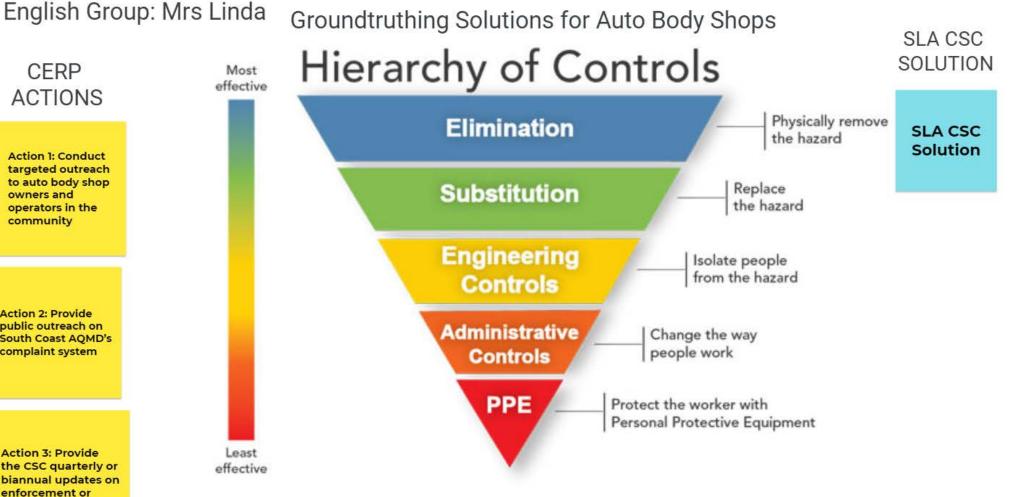
World Cafe Groups: Jamboard Activity



Action 1: Conduct targeted outreach to auto body shop owners and operators in the community

Action 2: Provide public outreach on South Coast AOMD's complaint system

Action 3: Provide the CSC quarterly or biannual updates on enforcement or outreach activities



Where do you think "this CERP action/ solution" falls within the hierarchy of controls? Does it get at protecting individuals or does it move us toward elimination of air pollution coming from this source? Do you think "this CERP action/solution" could be strengthened to make it more effective? If so How? What are other actions do you think need to be taken to reduce emissions in this industry?

PART 5: Defining Next Steps



Kathryn Higgins,
Acting Director of Community Air
Programs - AB 617

CSC MEETING TIMELINE

August 5, 2021 • CSC Mtg. • Finalized AQ Priorities September 2, 2021 • CSC Mtg. • CERP & CAMP Development Overview **September 14, 2021** • Subcommittee Mtg. Mobile Sources **September 30, 2021** • Subcommittee Mtg. • Oil and Gas October 7, 2021

• CSC Mtg.

Emissions Inventory

General Industrial

October 19, 2021

Canceled for program pause

November 16, 2021

- CSC Mtg.
- Metals and Auto Body Shops
- Draft CERP Actions

December 2, 2021

- CSC Mtg.
 - Metals and Auto Body Shops Continued

January 13, 2021*

- CSC Mtg.
- Oil and Gas Continued

February 3, 2021*

- CSC Mtg.
 - Mobile Sources Continued

June 3, 2022

• Governing Board meeting for CERP consideration

