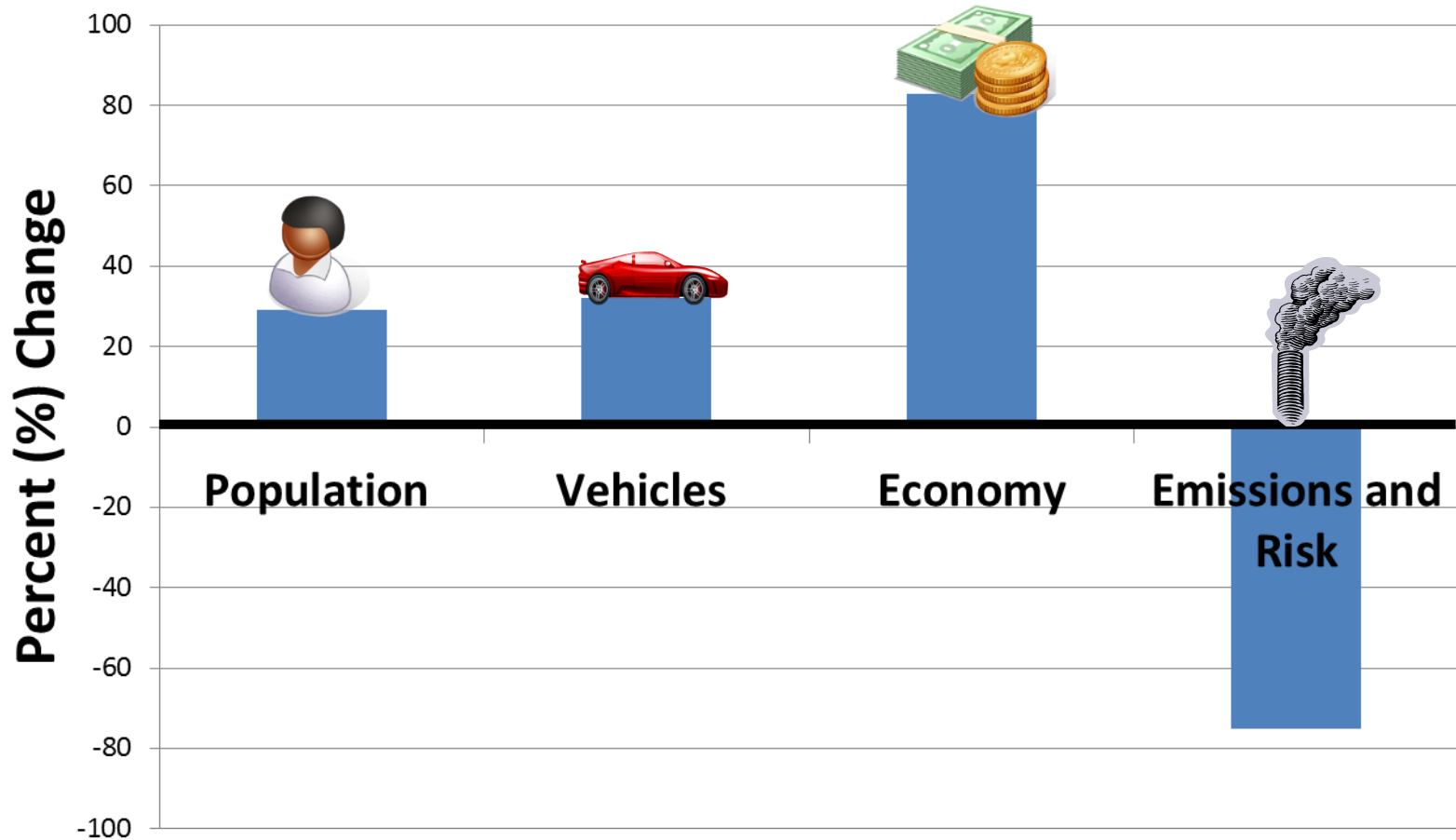


Proposed Risk Management Guidance for Stationary Sources of Air Toxics

Air Resources Board Meeting
July 23, 2015



75% reduction in air toxics statewide since 1990



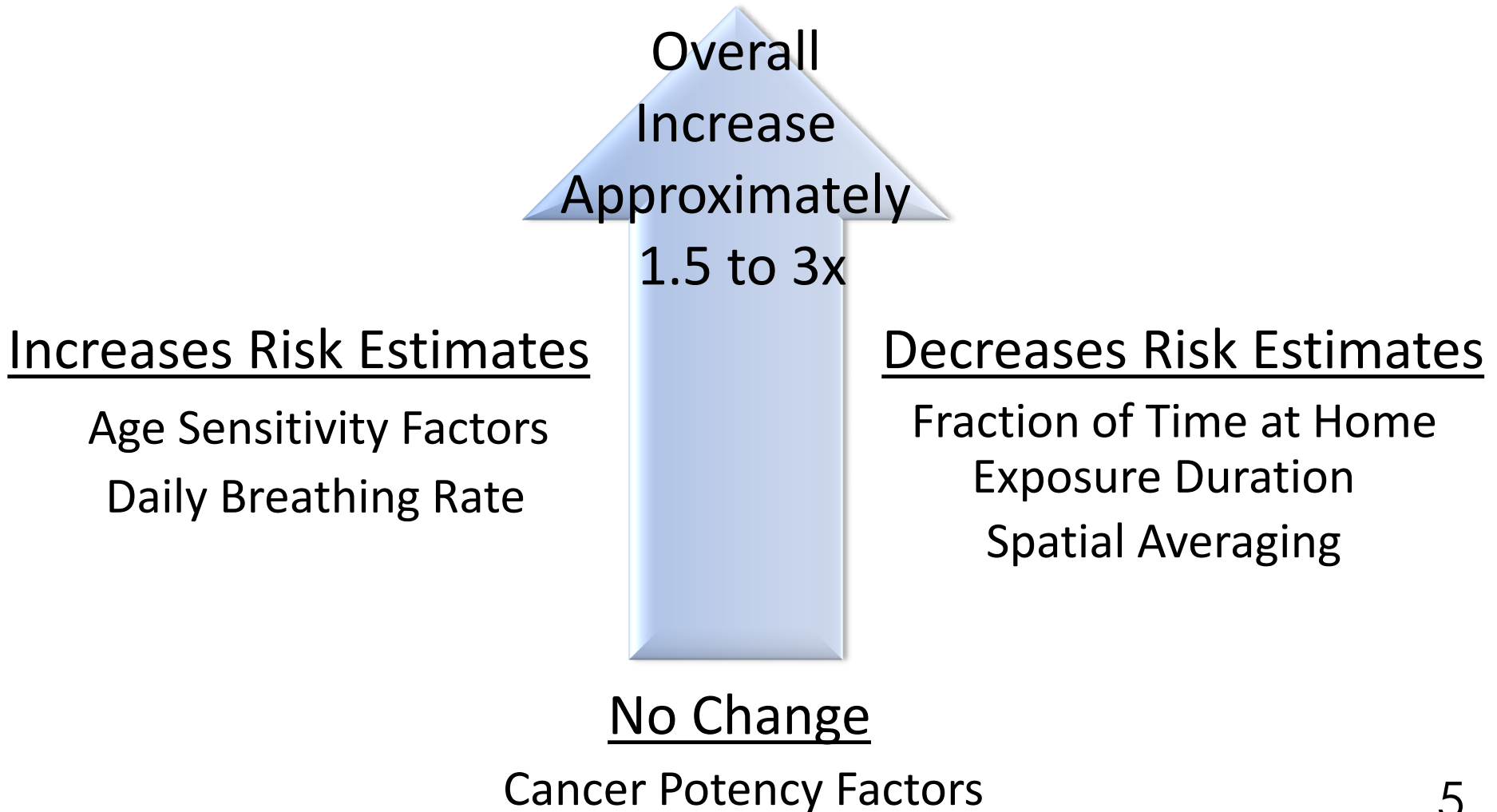
Risk assessment and risk management

- Risk Assessment
 - Characterize potential cancer and noncancer health impacts of air toxics
- Risk Management
 - Evaluate and implement control strategies to reduce exposure to air toxics
- Risk assessment provides the potential health impacts used in risk management decisions

Office of Environmental Health Hazard Assessment actions

- Updated risk assessment guidance
 - New studies on childhood sensitivity
 - New data on exposure
- Impacts of the updates
 - Cancer risk estimates are likely to increase for most sources
 - Greater responsibilities for facilities and agencies to notify public and reduce risk
 - Districts/ARB will re-evaluate toxics programs

Key factors affecting new inhalation risk estimates



Programs affected by OEHHA Risk Assessment Guidelines

District Permitting

Hot Spots

- Health Risk Assessment, Public Noticing, and Risk Reduction Audits & Plans

OEHHA Risk Assessment Guidelines

Identification & Control Program

- Toxics Best Available Control Technology (TBACT)

CEQA

- Air Toxics Analysis for Construction and Operational Phases

Risk Management Guidance - elements

- Risk communication
- Recommendations for District permitting, Hot Spots program, and breathing rate inputs
- ARB and District work plans for mobile and stationary sources

Risk Management Guidance - public process

- Weekly meetings with Districts
- Public workshops
 - Sacramento
 - Diamond Bar
- Three CAPCOA/ARB/Industry/Environmental Task Force meetings
- Additional stakeholder meetings

Recommendations for permitting

New and modified stationary sources

Action	Cancer Risk Action Level (chances per million)	Noncancer Risk Action Level (Hazard Index)
TBACT Required	>1	>1
Permit Approval	10 to 25	≤1
Source- Specific Approval/ Denial	Less than or greater than permit approval levels based on source-specific considerations	Less than or greater than permit approval levels based on source-specific considerations

Recommendations for Hot Spots

Prioritization, public notification, audit & plan

Requirement	Cancer Risk Action Level (chances per million)	Noncancer Risk Action Level (Hazard Index)
Prioritization	Update CAPCOA Prioritization Score Procedure/Guideline	
Notification	Update CAPCOA Guideline; TBD by Districts	
Risk Reduction Audit & Plan	TBD by Districts; Level not to exceed 100	TBD by Districts; Level not to exceed 10

Recommended breathing rate policy

Inputs on health risk assessments

- Uses new science on childhood sensitivity
- Recommends use of combination of 95th and 80th percentile breathing rates
 - 95th percentile (high-end) breathing rate for last trimester to age 2
 - 80th percentile breathing rate for other age groups

District risk management activities

- CAPCOA updating Hot Spots prioritization and notification guidelines
- Individual districts
 - Evaluating risk management methodologies and potential impacts
 - Considering current programs, rules guidelines, and policies
- Work with stakeholders through a public process if changes are needed

ARB tools to reduce risk

- Air Toxic Control Measures (ATCMs) & rules
- Partnerships with ports, rail, and industry
- Incentives
- Enforcement

ARB risk management work plan

- Release Hotspots Analysis and Reporting Program (HARP) software (March 2015)
- Update existing Risk Management Guidance w/CAPCOA (Today)
- Update the Hot Spots Emission Inventory Criteria and Guidelines/Fee Rule
- Develop Industrywide Guidelines w/CAPCOA
 - gasoline dispensing facilities, emergency standby diesel engines

ARB work plan, continued

- Screen and assess existing ARB air toxics-related regulations
- If needed, reevaluate existing regulations
 - Focus on those with risk-based provisions to ensure they remain health protective (e.g., chrome plating)
- Develop further controls for mobile sources via Sustainable Freight Strategy, State Implementation Plan, and Scoping Plan
- Update the Land Use Handbook

ARB milestones

Timeframe	Milestone
2015	<ul style="list-style-type: none">• HARP software release and training• ARB/CAPCOA Risk Management Guidance• Short Lived Climate Pollutant Plan
2016	<ul style="list-style-type: none">• Chrome ATCM Amendments• Portable Diesel Engine ATCM Amendments• Industrywide Guidelines (gas stations; emergency standby engines)• Hot Spots Emission/Fee Amendments• Land Use Handbook Update• State Implementation Plan• Sustainable Freight Strategy
2017	<ul style="list-style-type: none">• Report on screening of other existing ATCMs

Issues raised in public comments

- Expand risk communication
- Increase health protection
- Clarify CAPCOA Hot Spots prioritization and notification activities
- Consider diesel exhaust progress
- Provide opportunities for public involvement

Staff recommendations

- Adopt Resolution 15-4 approving the ARB/CAPCOA Risk Management Guidance for Stationary Sources of Air Toxics
- Continue engagement with Districts and stakeholders on action items