



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Measure Design Working Session #3

Bay Area Regional Climate Action Planning (BARCAP) Initiative
USEPA Climate Pollution Reduction Grant (CPRG) Program
San Francisco-Oakland-Berkeley MSA

November 30, 2023

Welcome!

Agenda

Together as One Group (10:00 – 10:15)

- Final Design Principles, Meeting Goals, Key Decisions and Timelines
- Overview of and Roles for PCAP Measure vs Implementation Proposal

Measure Breakout Groups (10:15 – 11:45)

- Recap of WS1 and WS2, Public Workshop Feedback, Analysis Updates
- Discuss and Agree on Draft Measure Description, including Geographic Focus
- Remaining Questions for Additional Research

Together as One Group (11:45 – 12:00)

- Sharing Back
- Working Session 4 and Next Steps

Group Agreements

- Commitment to integrative problem-solving (both/and)
- Seeking new potential within evolving dynamics
- Active, full, and respectful interaction
- Focused participation
- Meeting attendance

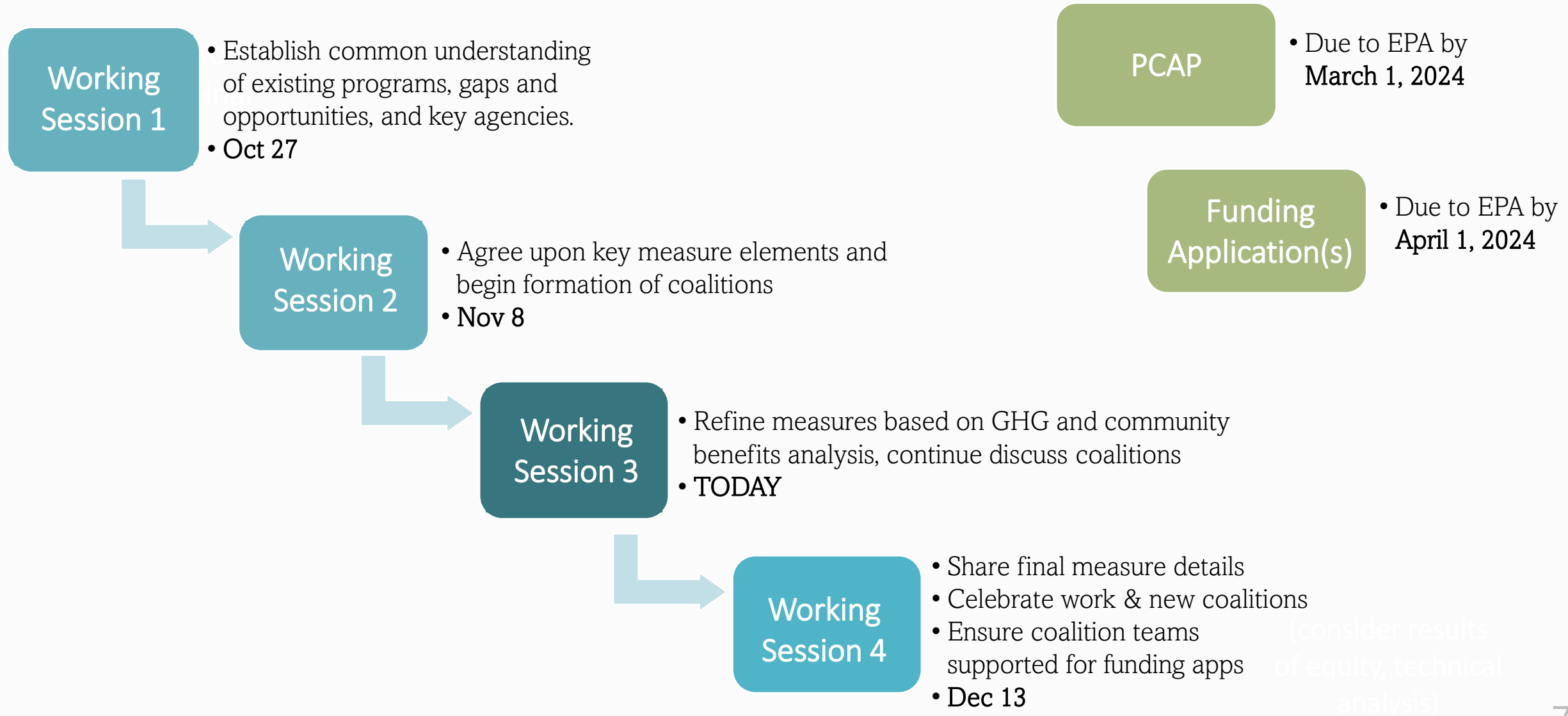
Final Design Principles (New)

- **Coordinated** – Builds cooperation & peer working relationships among local government and CBOs that builds community capacity and empowers community leadership
- **Resilience** – Builds resilience through changing climate conditions (near- and long-term), esp for frontline communities

Final Design Principles (Key Additions)

- **Cost => Genuine Affordability and Access** – Reduces – or at least does not increase – housing/transportation/energy costs and considers options to expand access and affordability. *Increases access to housing and transportation, especially for frontline communities. Improves affordability programs to increase eligibility and enrollment. Defines affordability as deeply affordable to low-income people*
- **Climate Equity** - Measures must provide direct, meaningful, desired and assured benefits to frontline communities, with a particular focus on Black, Indigenous, and People of Color (BIPOC) communities. *No community's well-being is sacrificed for another community*
- **Jobs** – much more detail

Orientation – Where We Are



Working Session 3 Goals

- Refined draft PCAP measure language
- You have the information you need to explore what role (if any) your organization or agency would like to play

Key Decisions and Timeline for PCAP

Key Decisions	Timeline
<ul style="list-style-type: none">• Measure description + core components (incl expected geographic location)• Lead implementing agencies (incl authority to implement)• Implementation schedule, milestones• Key frontline community benefits to analyze	<ul style="list-style-type: none">• <u>Mid-Jan 2024</u> – Post final measure language + core components online• <u>Mar 1, 2024</u> – Submit entire PCAP document (measure + supporting analyses) to EPA

Key Decisions and Timeline for Implementation Funding Proposal

Key Decisions	Timeline
<ul style="list-style-type: none">• Coalition (or not?)<ul style="list-style-type: none">• Coalition lead• Coalition members• MOA• Sub-awardees• Implementation project/program details (incl budget, timeline)	<ul style="list-style-type: none">• <u>Feb 1, 2024 (optional)</u> – Submit Notice of Intent to Apply• <u>April 1, 2024</u> – Submit application (with MOA) to EPA• <u>July 2024</u> – Anticipated notification of funding selection• <u>Oct 2024</u> – Anticipated award (funds expended within 5 years)

PCAP Measure vs. Implementation Proposal

PCAP MEASURE

- **High level with just enough detail to:**
 - 1) quantify GHG reductions,
 - 2) analyze benefits to frontline communities,
 - 3) determine authority to implement
 - 4) describe implementation milestones
 - 5) Identify funding sources to leverage
- Serves as an **umbrella for implementation proposal ideas**

IMPLEMENTATION PROPOSAL

- **Detail** of project/program design, implementation timeline, budget
- **Specific roles** of coalition members, sub-awardees
- More detailed information for **each NOFO scoring criteria** including:
 - GHG quantification
 - Frontline communities benefits and engagement during implementation
 - Demonstration of funding need
 - Transformative impact (scalable, replicable)
 - Job quality

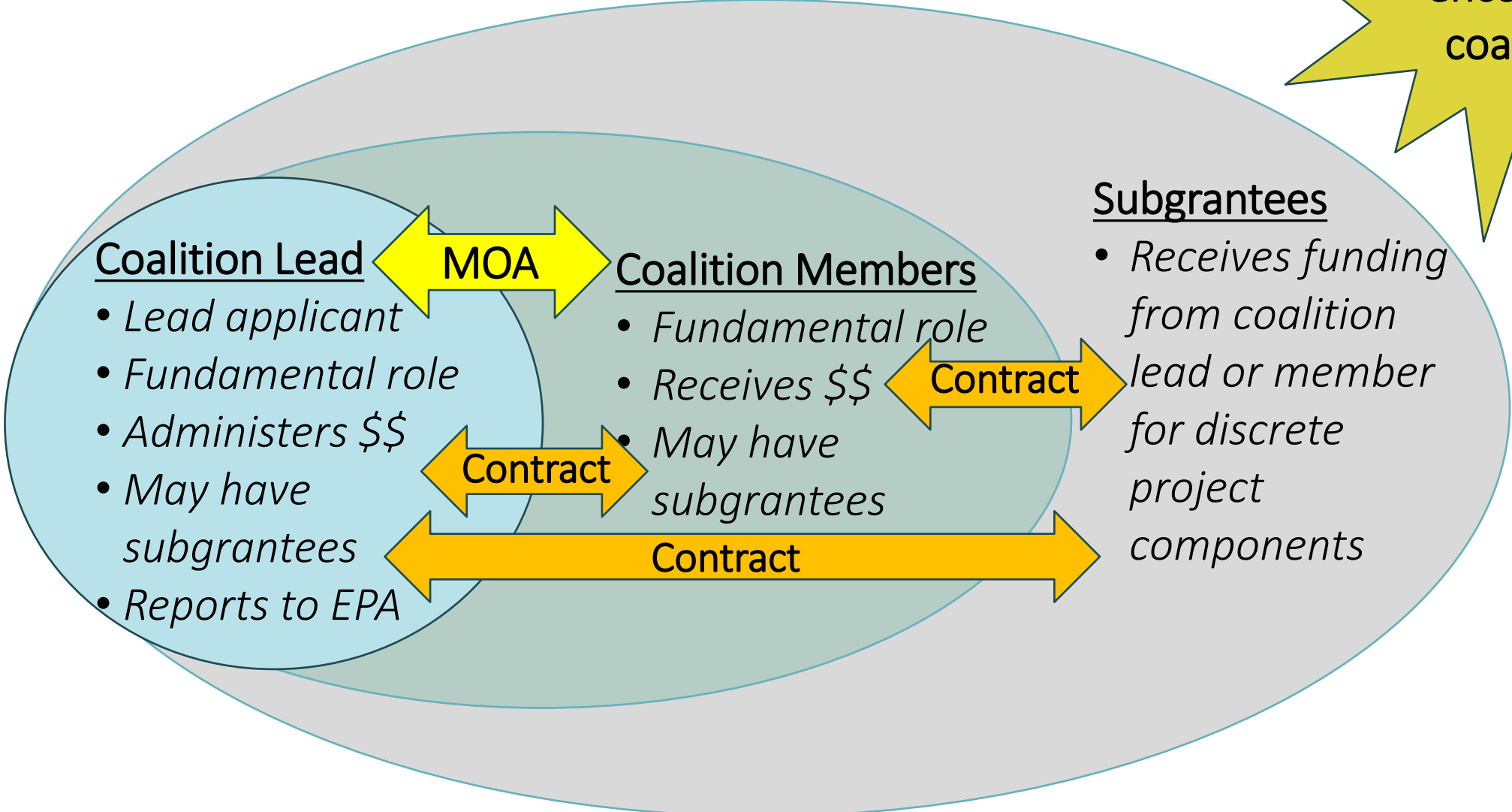
Sample PCAP Measures from NOFO

Programs to accelerate incorporation of efficient electric technologies and promote electrification and implementation of end-use energy efficiency measures in existing residential buildings

New/expanded transportation infrastructure projects to facilitate public transit, micro-mobility, car sharing, bicycle, and pedestrian modes

Implementation Roles

Implementation Proposal Roles – Coalition-Based



Eligible Entities for Each Role

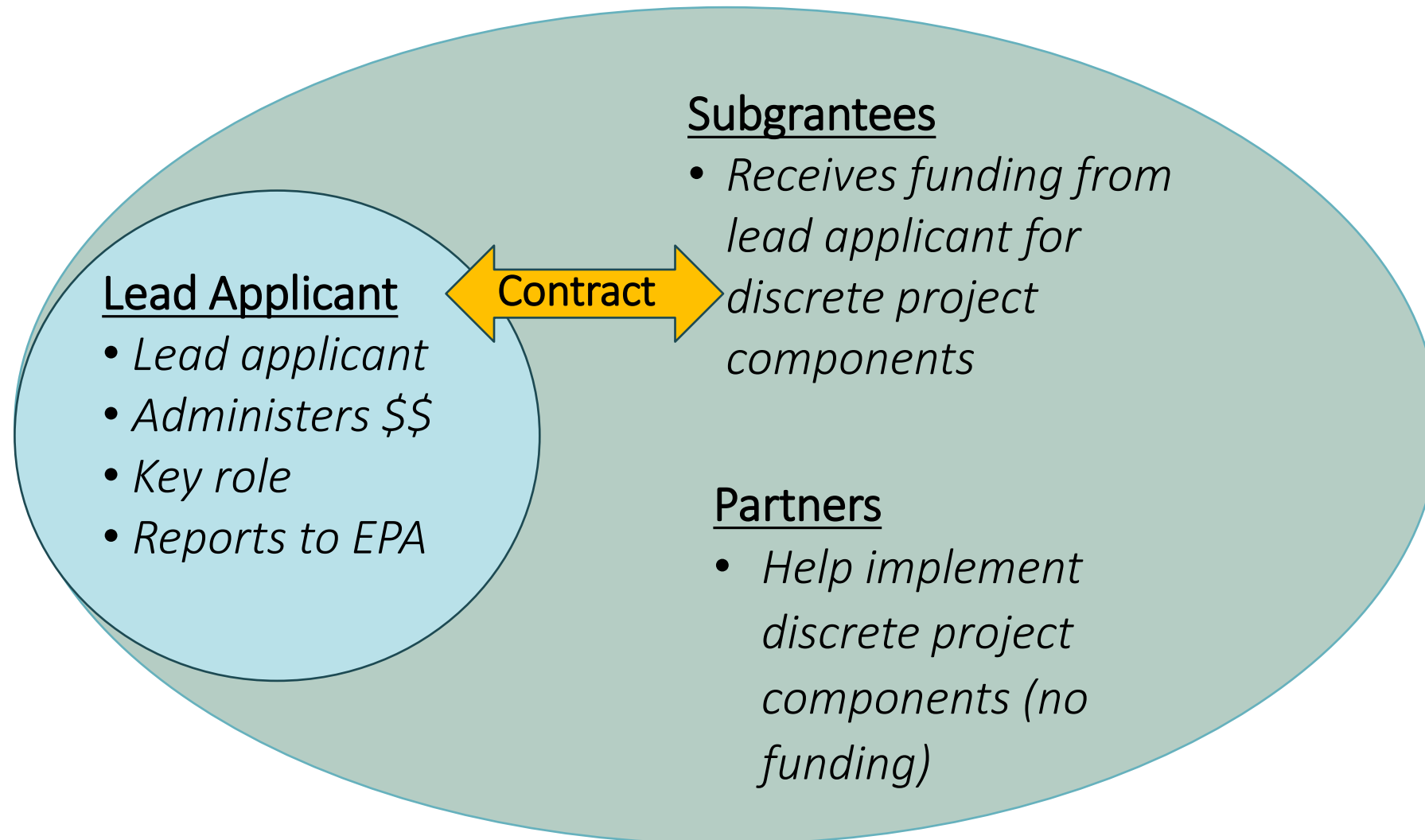
Coalition Lead/Member must be one of the following:

- Lead organization for MSA planning grants
- Municipalities, local air pollution control agencies
- COGs, MPOs, other regional organizations made of multiple municipalities, CCAs

Sub-grantees must be eligible per EPA guidelines and can include (but not limited to):

- CBOs (especially for engagement and outreach)
- Non-profits
- Businesses
- Local and regional agencies
- CCAs
- Academic institutions

Implementation Proposal Roles – Partnership-Based



Eligible Entities for Each Role

Lead Applicant must be one of the following:

- Lead organization for MSA planning grants
- Municipalities, local air pollution control agencies
- COGs, MPOs, other regional organizations made of multiple municipalities, CCAs

Subgrantees must be eligible per EPA guidelines and can include (but not limited to):

- CBOs (especially for engagement and outreach)
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Measure Discussion Breakouts

Measure Discussion

Existing Building Electrification

Recap of Working Sessions 1 & 2

- Vision
- Core concepts raised in Working Sessions 1 & 2
 - Multifamily focus
 - Zonal electrification vs decommissioning
 - Contractor support and consistency in requirements (community-driven retrofit accelerator)
 - Workforce development programs
 - Landlord engagement and renter protection
 - Whole homes retrofit (several approaches)
 - Policy support
 - Build on CEC Equitable Building Decarbonization Program, CCA existing home electrification programs

Feedback from Public Workshop

- Increase incentives for retrofitting/improving energy efficiency of older homes; paid for entire decarbonization
- Streamlined permitting/permit fee rebates
- Prohibit pass-through costs
- Mandatory electrification bids
- Tariff on-bill financing; financing options for items not covered by grants if people don't have access to conventional financing

Feedback from Public Workshop (continued)

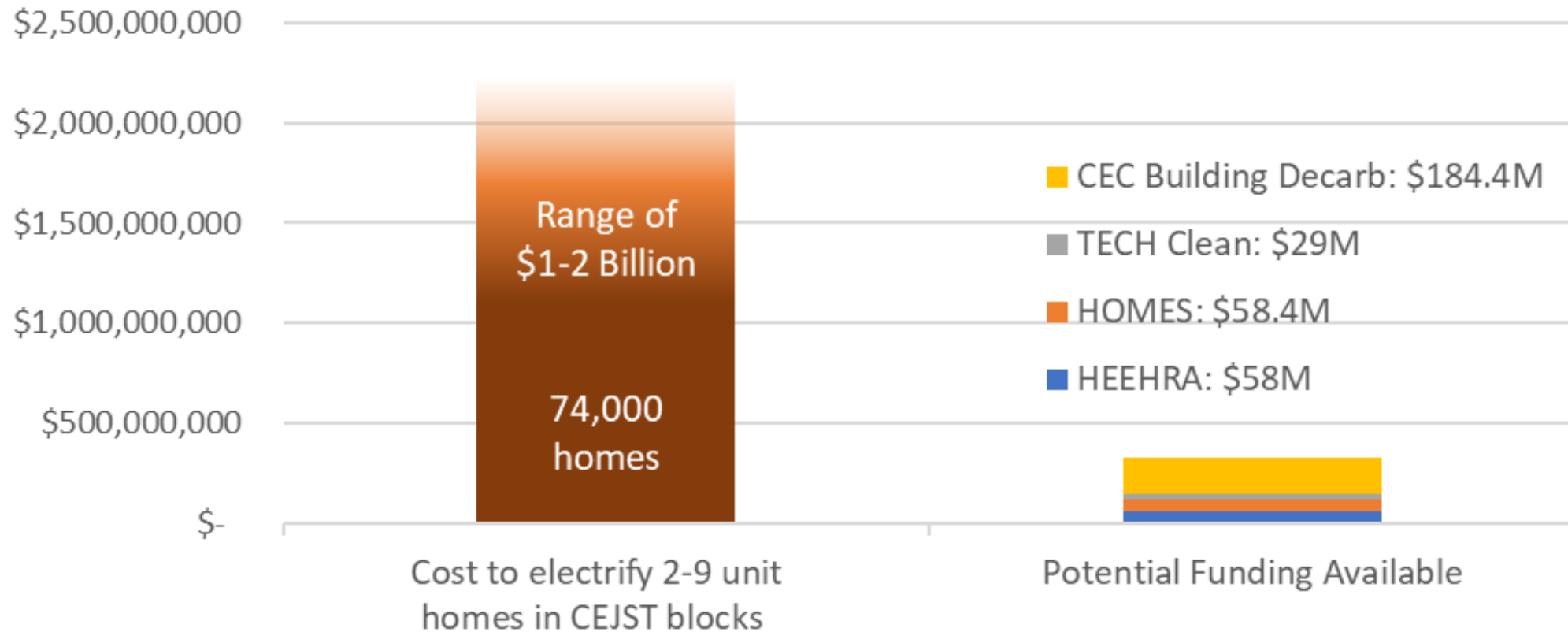
- Use emergency climate funds to upgrade transformers for higher grid demand
- Coordinate with PG&E to identify where gas infrastructure is at end of life
- EV charging for multi-family
- Concierge service to navigate entire process; community centers to access help with forms access vetted contractors
- Connection between TECH program and common standards across counties

PCAP Measure Components

(Enough detail to quantify GHG reductions, describe implementation milestones)

Measure Component	Working Session Focus
Measure description (<i>Rationale, strategies, existing efforts to leverage, barriers/gaps being addressed</i>)	WS2 (begin), WS3 (write)
Quantified GHG reductions (cumulative)	WS2, WS3 (inform),
Frontline communities benefits analysis	WS2, WS3 (inform)
Expected geographic location	WS2 (begin), WS3 (agree)
Key implementing agency(ies)	WS3 (begin), WS4 (agree)
Authority to implement	WS3 (begin), WS4 (agree)
Funding sources to leverage	WS4
Implementation schedule and milestones	WS4
Metrics for tracking progress	WS4

Magnitude of the Need & Funding Gap



Assumptions:

- Range of cost of full electrification: \$15K-30K per multifamily unit
- 20% of California's funding for IRA, CEC, and TECH Clean programs will go to Bay Area

Aligning with California Residential Building Electrification Goals (New & Existing)

- State of California's goal for residential buildings:
 - *3 million (2030) and 7 million (2035) all-electric and electric-ready homes*
 - *6 million heat pumps installed by 2030*
- Bay Area portion of the goal:
 - *~470,000 (2030) and ~1.1 million (2035) all-electric and electric-ready homes*
 - *~950,000 heat pumps installed by 2030*

For Measure Description, see PDF of
measure description shared ahead of
WS3 and/or Mural

Mural Discussion

Measure Discussion

Transportation Mode Shift

Recap of Working Sessions 1 & 2

- Vision:

In 2030, streets are designed for and safe for people to travel by foot, bike, and transit. Cars no longer dominate and aren't needed to access jobs and services. Transit is frequent and reliable. Local businesses are thriving. Families are spending less money on transportation

- Core concepts raised in Working Sessions 1 & 2

- Interested in a variety of components, bike/ped facilities, micro-mobility, first mile/last mile solutions, urban greening, EV charging, e-bikes
- Focus on transit-oriented communities for larger impact
- Reduce bike/ped injuries from car accidents
- Displacement protection
- In areas with potential for economic development

Feedback from Public Workshop

- More EV charging hubs
- Zero emission corridors in urban centers
- Bike-ped commute corridors; safe bike lanes including to schools
- First mile-last mile solutions
- Loaning e-bikes; secure e-bike/bike parking

Feedback from Public Workshop (continued)

- Frequency of service/increase in number of lines
- Fair pay for drivers
- Calming travel on major streets
- More opportunities to try mobility and then incentivize
- RNG from waste to run solid waste/recycling fleet

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Transportation: Mode Shift

Geographic Location

- MTC-designated Transit Oriented Community stations in frontline communities (especially EPA IRA Disadvantaged Communities).
- MTC TOC Policy requires:
 - Minimum residential and commercial office densities for new developments
 - Affordable housing production, preservation, and protection and stabilizing businesses to prevent displacement
 - Parking management
 - Transit station access (types of transit included: regional rail, commuter rail, light-rail transit, bus rapid transit, ferries)

Initial Results of Analyses

Summary of Annual Emissions Reductions (MT CO₂ Eq.)

Measure	2024
Bike Infrastructure	
Light Rail	40
Commuter Rail	511
BRT	1.9
Pedestrian Infrastructure	
Light Rail	16
Commuter Rail	243
BRT	0.7
E-Bike Share	729
E-Bike Incentive	307
EV Car Share	1,099
Transit Subsidy	27.3



Mural Discussion

Working Session #4 and Next Steps

- **Working Session 4 – Dec 13 at 1:30-3:30pm (hybrid)**
 - *Decide remaining PCAP measure details:*
 - Key implementing agencies, authority to implement
 - Implementation schedule and timelines
 - Funding sources to leverage
 - *Identify coalition partners*
- **Come prepared to discuss your potential role**
 - *Email us if you have questions*
- **Tell us your suggestions for improving next working session (Mural)**

Thank you!