



# **Equity Advisory Group**

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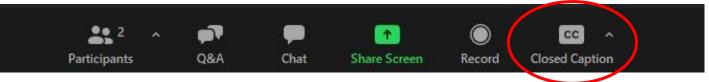
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### Reminders

- We encourage EAG members to turn on your video.
- Please say your name when you begin to speak.
- If you experience technical difficulties, please contact program staff

at: (360) 329-6744



## **Public Input Instructions**

There will be an opportunity to provide brief public input later in the meeting today.



- To submit input after the meeting:
  - Email comments to <u>info@interstatebridge.org</u>
     with "EAG Public Comment" in the subject line
  - Call 888-503-6735 and state "EAG Public
     Comment" in your message







## Today's agenda

- Program Administrator Update
- Update on Equity Framework Accountability Tool
- Transit Equity Analysis Disability Community
- Hayden Island/Marine Drive Technical Presentation
- Hayden Island/Marine Drive Breakout Session
- Public comment
- Close out



# **Program Update**

Greg Johnson, Program Administrator



# Update on Equity Framework Accountability Tool

Emilee Thomas-Peralta, Equity Team



# Transit equity benefits analysis, pt. 2 Access for people with disabilities

Jake Warr, Equity Lead



## **IBR Equity Objectives**

## Mobility & Accessibility

Improve mobility, accessibility, and connectivity, especially for lower income travelers, people with disabilities, and historically underserved communities who experience transportation barriers.

#### Physical Design

Integrate equity, area history, and culture into the physical design elements of the program, including bridge aesthetics, artwork, amenities, and impacts on adjacent land uses.

#### Community Benefits

Find opportunities for and implement local community improvements, in addition to required mitigations.

### Economic opportunity

Ensure that economic opportunities generated by the program benefit minority and women owned firms, BIPOC workers, workers with disabilities, and young people.

#### Decision-making processes

Prioritize access, influence, and decision-making power for underserved communities throughout the program in establishing objectives, design, implementation, and evaluation of success

#### Avoiding further harm

Actively seek out options with a harm-reduction priority, rather than simply mitigate disproportionate impacts on historically impacted and underserved communities and populations.

This analysis is primarily in support of the Mobility & Accessibility objective



## **Analysis Overview: Two Components**

#### 1. Population & demographics around stations

 Do certain transit investments serve people with disabilities better than others?

#### 2. Improvements in access to jobs

- To what degree would job access improve for people with disabilities?
  - Jobs are a proxy for the types of places people go (e.g., shopping, services, education, health care) in addition to employment



## Keep in mind...

#### What this is:

- An analysis of potential walking + rolling access and mobility benefits from high-capacity transit investments
- One component of the IBR equity commitment

#### What this is NOT:

- An analysis of biking and park-and-ride access to stations (forthcoming)
- Adequate to fully understand all benefits and burdens -- considerations such as mobility and access benefits from other non-transit program elements, property impacts analysis, etc. are forthcoming
- A comprehensive review of all transit investments and equity initiatives in the region
- Inclusive of the actions that need to be taken for communities to realize potential access and mobility benefits



# Analysis 1: Populations near stations



# Ten Representative Transit Investments\*

Light Rail (LRT)	Bus Rapid Transit (BRT)	Hybrid (LRT+BRT)
Expo to Turtle Place	Expo to Turtle Place	Expo to Turtle Place
2013 LPA	2013 LPA alignment	
Expo to Kiggins Bowl	Expo to Kiggins Bowl	
Expo to I-5/McLoughlin		
Expo to I-5/McLoughlin (incl. Vancouver Waterfront)		
Expo to Evergreen		

<sup>\*</sup>Bus On Shoulder is assumed to be included in any investment and is not shown here.





# Transit station "walksheds"

The area around a station that someone can reach by walking ½ mile or less

This map shows the "walksheds" around all stations included in the analysis of transit investments.





#### O Kiggins Bowl WW 41st St W 39th St E 39th St W 36th St 33rd Street W 32nd St E 20th St = Clark O College McLoughlin Blvd DOWNTOWN Near **VANCOUVER** Evergreen 1 **O**Evergreen Turtle Place FORT •Waterfront VANCOUVER SE Lewis Hayden Island (Hybrid BRT / LRT) N Expo Center LRT Station (Existing Tri-Met MAX Yellow Line) Planned or Existing C-Tran BRT Tri-Met Max Yellow Line (ex) Potential Station Location Potential Terminus Location

#### Residents with disabilities near stations

Transit investment	# of stations	Residents disabilities w/in half m	5
		Est. # of people	Est. % of pop.
E: BRT Expo to Kiggins Bowl	6	1,023	19%
J: LRT Expo to Kiggins Bowl	6	1,023	19%
B: 2013 LPA (LRT)	6	800	21%
F: BRT on 2013 LPA	6	800	21%
L: LRT Expo to McLoughlin (incl. Waterfront)	5	589	22%
I: LRT Expo to I-5/McLoughlin	4	459	19%
M: LRT Expo to Evergreen	4	435	22%
D: BRT Expo to Turtle Place	3	385	24%
G: Hybrid LRT/BRT Expo to Turtle Place	3	385	24%
H: LRT Expo to Turtle Place	3	385	24%

Note: BRT and LRT investments along the same alignments are assumed to have the same station locations.

Sources: 2020 US Census, 2015-2019 ACS

## **Takeaways: Populations near stations**

- ► Longer transit alignments and more stations = more residents within ½ mile walk, including residents with disabilities
- ▶ Investments appear to be similar in terms of percentage of populations within ½ mile walk that have a disability



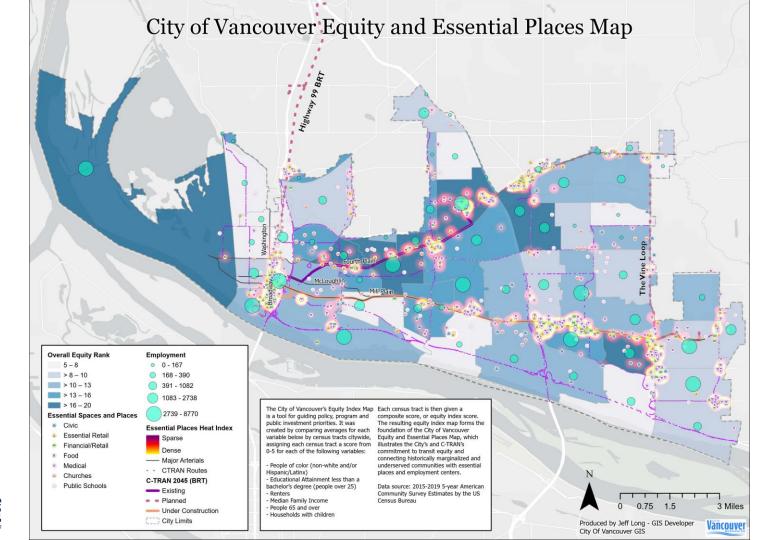
# Analysis 2: Improvements in access to jobs



## Methodology

- Combines projected jobs in 2045 with <u>current</u> demographics
- Baseline: projected 2045 transit network, without IBR HCT ("No Build")
  - Includes all planned service investments, e.g. all 3 C-Tran Vine BRT routes
- Travel time includes walking + riding transit
  - Includes transfers
- Analyzes access to jobs for residents of the IBR program area (Washington and Oregon sides)

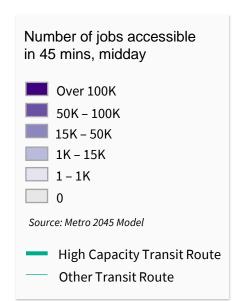


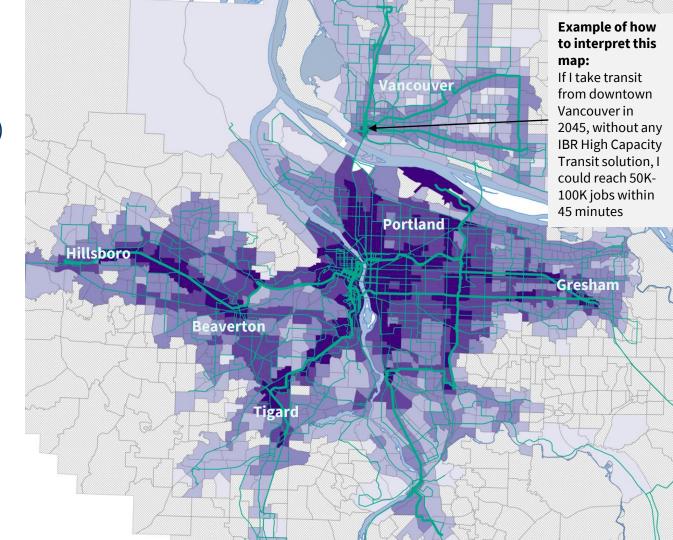




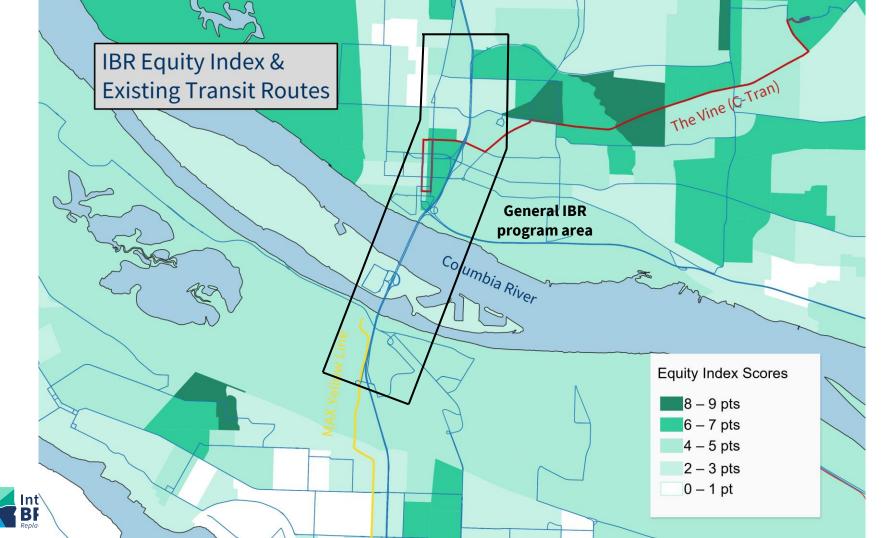
# From where can people reach the most jobs via transit?

(No Build Scenario, 2045)









#### Comparison

## People with Disabilities vs. Others

Increase in jobs reachable within a 45-minute midday transit trip

From the IBR program area

Sources: 2015-2019 ACS, Metro 2045 Model



	People w			
Transit investment	Disabiliti		No Disab	oility
No Build (baseline)	24,576	jobs	24,07	2 jobs
	Increase	Increase	Increase	Increase
	over No	over No	over No	over No
	Build	Build	Build	Build
	(#)	(%)	(#)	(%)
B: 2013 LPA	20,364	83%	17,946	75%
F: BRT on 2013 LPA	3,696	15%	3,530	15%
D: BRT Turtle Place to Expo	2,575	10%	2,468	10%
H: LRT Expo to Turtle Place	7,938	32%	6,452	27%
G: Hybrid LRT/BRT	2,193	9%	2,168	9%
E: BRT Kiggins Bowl to Expo	4,953	20%	4,917	20%
J: LRT Expo to Kiggins Bowl	24,826	101%	24,497	102%
I: LRT Expo to I-5/McLoughlin	13,746	56%	12,203	51%
L: LRT Expo to McLoughlin (incl.				
Vancouver Waterfront)	22,965	93%	18,693	78%
M: LRT Expo to Evergreen	17,392	71%	13,881	58%

## Comparison People with D

## **People with Disabilities** vs. Others

Increase in jobs reachable within a 60-minute midday transit trip

From the IBR program area

Sources: 2015-2019 ACS, Metro 2045 Model



Transit investment	People w Disabiliti		No Disal	oility
No Build (baseline)	77,099 jobs		75,093 jobs	
		Increase	Increase	
		over No		over No
	Build			
	(#)	(%)	(#)	(%)
B: 2013 LPA	57,959	75%	53,464	71%
F: BRT on 2013 LPA	14,967	19%	14,801	20%
			,	
D: BRT Turtle Place to Expo	12,404	16%	12,263	16%
H: LRT Expo to Turtle Place	27,844	36%	24,681	33%
G: Hybrid LRT/BRT	9,517	12%	9,423	13%
E: BRT Kiggins Bowl to Expo	19,407	25%	19,425	26%
LIDT For a to Window David	60.474	000/	50,200	020/
J: LRT Expo to Kiggins Bowl	69,171	90%	69,208	92%
I: LRT Expo to I-5/McLoughlin	40,463	52%	37,925	51%
L: LRT Expo to McLoughlin (incl.	62.740	020/	FF 0F0	7.004
Vancouver Waterfront)	63,748	83%	55,853	74%
M: LRT Expo to Evergreen	51,352	67%	44,662	59%

## Takeaways: Improvements to job access

- ► LRT investments appear to provide greater benefit than BRT in terms of increased job access
- ► All investments would increase job access for people with disabilities (on average)
  - Greatest increases for Investments B, J, & L
- All investments would increase job access for the program area residents with disabilities as much or more than residents without disabilities (on average)



## **Equity in IBR: Big Picture**

- Equitable access does not necessarily translate to equitable outcomes
- Striving for equity requires strategies and actions beyond building infrastructure
- Combating gentrification and displacement that may result from improved community amenities will take intentional policies, partnerships, and investments









# Hayden Island/Marine Drive

Recommendations overview

## Hayden Island/Marine Drive Design Options

#### Overview of design and screening process

- Identify changes since 2013
- Develop full, partial, and no interchange options to address changes
- Develop screening metrics and collect data to evaluate design options
- Identify design options (2013 LPA and Options 1 and 5) to move through screening

### Design Options

- 2013 Locally Preferred Alternative (LPA)
- Option 1: Full interchange
- Option 2: Partial interchange
- Option 3: Partial interchange
- Option 4: No interchange
- Option 5: Partial interchange



## Hayden Island/Marine Drive Solution

#### ► Changes since 2013

- Increased off-ramp traffic volumes for southbound Marine Drive exit
- Changes in business development
- Port of Portland marine terminal no longer planned for Hayden Island
- Increased need to replace aging North Portland Harbor bridge
- Proposed levee system improvements

#### Design Assumptions

- North Portland Harbor bridge replacement
- Local auto access bridge between North Portland and Hayden Island
- Local pedestrian/bicycle connections with shared use path
- HCT station on Hayden Island





## Hayden Island/Marine Drive Partial Interchanges

- ▶ Option 5 was developed to address design and traffic issues identified in Partial Interchange Options 2 and 3. It:
  - Solves the Marine Drive traffic and design issues identified with Options 2 and
     3 by maintaining the separation of Hayden Island vehicles from Marine Drive.
  - Includes an efficient Marine Drive interchange
- Options 2 and 3:
  - Include design and operational flaws on the I-5 SB Marine Drive loop off-ramp
  - Do not meet Freight Purpose & Need
  - Create safety issues due to speed differentials



## **Draft Findings: No interchange Option 4**

- Screening preliminary traffic data revealed that Option 4 has the same issues as Options 2 and 3, but the issues are much greater because all Hayden Island traffic must use the Marine Drive interchange. These impacts include:
  - Substantial traffic/freight impacts on Marine Drive and ramp terminal intersections
  - Ramp queuing from Marine Dr. onto I-5 would create unsafe conditions due to speed differential with I-5 through traffic
- ► These findings are consistent with previous planning studies that investigated combining the Hayden Island and Marine Drive interchanges into one interchange



## **Option 1 Full Interchange**







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### **Option 5 Partial Interchange**

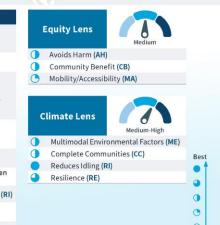




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	- Larger construction footprint (comparison is not based on expected user emissions)
Climate Impacts/Adaptation	Addresses future river elevation and integrates with new Levee Ready Columbia flood protection improvements (RE)
Natural Environment	- Larger footprint over aquatic habitat
Natural Environment	- Larger footprint over terrestrial habitat
	- Most non-residential building impacts (AH)
	- More floating home displacements (AH)
Built Environment	<ul> <li>Large scale and complexity of I-5 structures over Hayden Island challenge for local placemaking opportunities (AH, CB, CC)</li> </ul>
	- Does not includes Tomahawk Island Drive crossing (CC)
	- Less direct north-south shared use path (MA, ME)
Active Transportation	<ul> <li>Lower quality of active transportation experience on east-west streets (MA, ME)</li> </ul>
,	<ul> <li>Higher number of shared use path road/transit crossings (MA)</li> </ul>
Fransit Access	- Less east-west island connectivity because it does not include Tomahawk Island Drive (MA, ME)
Transit Access	- Wider highway footprint (ME)
Vehicles	<ul> <li>Intersection traffic operations meet ODOT and City of Portland performance standards at Hayden Island and Marine Drive study area intersections (RI)</li> </ul>
Freight	- Freight to/from Marine Drive area operates acceptably with minimal delay through the interchange (R
Cost	- Lower construction cost





Cost

Seismic

Good

- Seismic retrofits North Portland Harbor Bridge; does not replace

- Higher estimated O&M cost



Design Option 1: Full Int	2.010	
Climate Impacts/Adaptation	<ul> <li>Larger construction footprint (comparison is not based on expected user emissions)</li> <li>Addresses future river elevation and integrates with new Levee Ready Columbia flood protection improvements (RE)</li> </ul>	Equity Lens Medium
Natural Environment	- Larger footprint over aquatic habitat - Larger footprint over terrestrial habitat	Avoids Harm (AH) Community Benefit (CB)
Built Environment	- Fewer non-residential building impacts (AH) - Most floating home displacements (AH) - Large scale and complexity of 1-5 structures over Hayden Island challenge for local placemaking opportunities (AH, CB, CC) - Includes Tomahawk Island Drive crossing (CC)	Mobility/Accessibility (MA)
Active Transportation	- More direct north-south shared use path (MA, ME)  - Lower quality of active transportation experience on east-west streets (MA, ME)  - Higher number of shared use path road/transit crossings (MA)	Medium-High  Multimodal Environmental Factors (MI
Transit Access	Inclusion of Tomahawk Island Drive improves east-west island connectivity (MA, ME)     Wider highway footprint (ME)	Complete Communities (CC)  Reduces Idling (RI)
Vehicles	Intersection traffic operations meet ODOT and City of Portland performance standards at Hayden     Island and Marine Drive study area intersections (RI)	Resilience (RE)
Freight	- Freight to/from Marine Drive area operates acceptably with minimal delay through the interchange (RI)	
Cost	Higher construction cost	
Seismic	Replaces North Portland Harbor Bridge	





Best

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Good



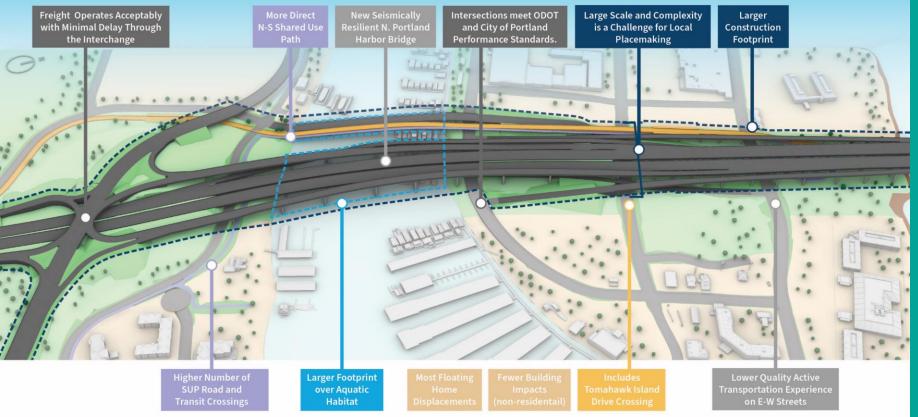
Design Option 5: Partial	Interchange	
Climate Impacts/Adaptation	- Smaller construction footprint (comparison is not based on expected user emissions) - Addresses future river elevation and integrates with new Levee Ready Columbia flood protection improvements (RE)	Equity Lens
Natural Environment	<ul> <li>Smaller footprint over aquatic habitat</li> <li>Smaller footprint over terrestrial habitat</li> <li>Levee closure structure part of freeway interchange ramps</li> </ul>	<ul> <li>Avoids Harm (AH)</li> <li>Community Benefit (CB)</li> <li>Mobility/Accessibility (MA)</li> </ul>
Built Environment	- Fewer non-residential building impacts (AH) - Least floating home displacements (AH) - Smaller scale and complexity of 1-5 structures over Hayden Island is less challenging for local placemaking opportunities (AH, CB, CC) - Includes Tomahawk Island Drive crossing (CC)	Climate Lens
Active Transportation	<ul> <li>More direct north-south shared use path (MA, ME)</li> <li>Higher quality of active transportation experience on east-west streets (MA, ME)</li> <li>Lower number of shared use path road/transit crossings (MA)</li> </ul>	High  Multimodal Environmental Factors (ME)  Complete Communities (CC)
Fransit Access	Inclusion of Tomahawk Island Drive improves east-west island connectivity (MA, ME)     Narrower highway footprint (ME)	Reduces Idling (RI)
/ehicles	Intersection traffic operations meet ODOT and City of Portland performance standards at Hayden Island and Marine Drive study area intersections (RI)  Longer routing and more challenging wayfinding for Hayden Island traffic to/from Portland via I-5 and/or Interstate Ave	Resilience (RE)
Freight	- Freight to/from Marine Drive area operates acceptably with minimal delay through the interchange (RI)	
Cost	Higher construction cost	
Seismic	Replaces North Portland Harbor Bridge	Go



#### **Hayden Island/Marine Drive**

**Design Option 1: Full Interchange** 



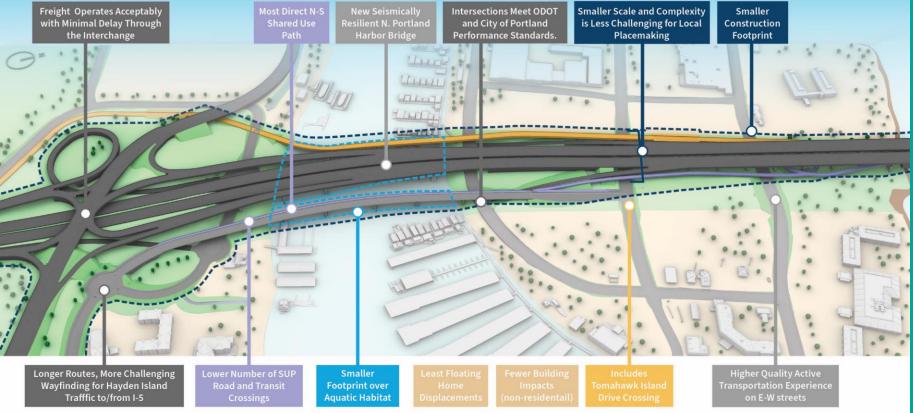




#### **Hayden Island/Marine Drive**

**Design Option 5: Partial Interchange** 







#### **Hayden Island/Marine Drive** | Relative Design Option Comparison

#### 2013 Design Climate Impacts/Adaptation Natural Environment **Built Environment** Active Transportation Transit Access Vehicles Freight Cost Seismic **Equity Lens**





Resilience



















No Interchange

Does not meet Purpose and Need.





# Hayden Island/Marine Drive Breakout Discussion



# Hayden Island/Marine Drive Breakout Discussion

1. Do the screening results align with your understanding of the ties between the Hayden Island/Marine Drive decision and our equity objectives?

2. What strategies should the IBR Program explore to complement the design and construction of these interchanges?



## **Public comment**



### **Comment Instructions**

#### To make a verbal comment:

- ► To make a live comment via phone, dial: 253-215-8782
- Meeting ID: 986 0940 5983
  - Passcode: 701376
- Dial \*9 to raise your hand
- ► The facilitator will call on participants to provide comment
- Dial \*6 to unmute yourself
- Please provide your name and affiliation.
- Commenters will be given 2 minutes to speak.

If we run out of time and you have not had a chance to speak, you can still provide comments after the meeting.









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► Fill out the comment form on the program website or email your comments to **info@interstatebridge.org** with "EAG Public Comment" in the subject line.



- Call 888-503-6735 and state "EAG Public Comment" in your message.
- Written comments need to explicitly say "EAG Public Comment" in the subject line or in the body of the message for them to be identified and distributed to EAG members.
- All written comments must be received prior to 48 hours in advance of each upcoming meeting in order to be distributed to advisory group members. Comments received after that point will be distributed to members in advance of their next meeting.



# Wrap up

- Takeaways
- Meeting evaluation
- Next meeting: Monday April 4 (Proposed), 5:30 7:30 p.m.







# Thank you!