



 **King County**  
Department of  
Natural Resources and Parks  
Solid Waste Division

Waste Prevention | Resource Recovery | Waste Disposal

# Northeast Recycling and Transfer Station

Siting Advisory Group Meeting 3, Dec. 16, 2020

# Welcome!

- Zoom orientation
- Staff introductions



# Land Acknowledgment

*We would like to take a moment to acknowledge that the land we live, learn, work and gather on is the traditional territory of the Coast Salish people including the Duwamish People both past and present.*

*These stewards of this land, their enduring relationship that exists between the indigenous peoples and their traditional lands, who called and still call this land home before we were here and after we have gone, deserve much more than our acknowledgement. However, acknowledgement of the land and people are a great place to start.*

*We have much gratitude and appreciation for those who have come before us, and who will be here after us and realize the importance of the longstanding history that has brought us here to this point, today. We should constantly reflect as we occupy this space on these indigenous lands and its people, our history our ancestors. Thank you.*

# Agenda

- Welcome and introductions
- Finalize community criteria
- Criteria weighting approach overview and example
- January 2021 community outreach strategies
- Public comment

# SAG Member Introductions

- Name and pronouns (she/her, he/him, they/them)
- What are you hearing about the siting process? Any insights to share? (Susan, Andreas, William)

# Siting Advisory Group (SAG) Business

- Summary from 11/18 Meeting
- Disclosure forms

# Ground Rules Reminder

- Foster safe and inclusive conversations by acknowledging and centering historically underrepresented and underserved communities
- Apply creative thinking grounded in equity
- Make space for differing concerns, perspectives and opinions
- When making comments, consider time needed for others to share their thoughts and perspectives (step up / step back)
- Make effort to come to meetings prepared to participate actively

# Community Criteria Process

Step	Description	When
P Community values	Gather input on community values from SAG and community	Oct 5 – Nov 20 (SAG kickoff & survey)
Community criteria	Turn values into community criteria	SAG 2 and 3
Weight criteria	Validate, prioritize & weight community criteria	SAG 3 and 4
Scoring sites	Apply community criteria to top 5 sites using measurement scales	Between SAG 3 and 4
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Environmental review	Up to 3 top-ranked sites go into environmental review	Spring 2021

# Finalize Community Criteria and Scoring Measures

# Draft Community Criteria

## We heard...

- Find a site that is centrally located and easily accessible to the public
- Conveniently located

## *Criteria*

- *Location has best travel times at most times of the day from within the service area*
- *Location is within xx miles from any point in the service area*

# Draft Community Criteria

## We heard...

- Make decisions equitably
- Consider how underserved and underrepresented communities are affected by the decision
- Make sure minority communities are not impacted
- Recognition of indigenous lands and their traditional use

## *Criteria*

- *Are there disproportionate impacts to historically and currently underserved and underrepresented communities? (includes people of color, immigrants, refugees, and low-income)*
- *Site has lowest traditional/current use by indigenous peoples*

# Draft Community Criteria

## We heard...

- Incorporate more sustainable and innovative practices in the design
- Minimize impacts to surrounding community
- Consider traffic impacts to nearby neighbors
- Consider impacts to property values
- Maintain safe, reliable drinking water
- Minimize water, air, noise impacts

## *Criteria*

- *Site has fewest impacts to sensitive areas and avoids environmental red flags (e.g., landslide potential, wetlands, earthquake faults, etc.)*
- *Site has fewest potential local community impacts (e.g., traffic, noise, odor)*
- *Site is not a barrier to sustainable and innovative design*

# Draft Community Criteria

## We heard...

- Consider financial impacts to rate payers

## *Criteria*

- *Site has most reasonable cost*

# Draft Community Criteria

We heard...

## *Criteria*

- *Site has least impact to residential or commercial land use*

# Draft Community Criteria

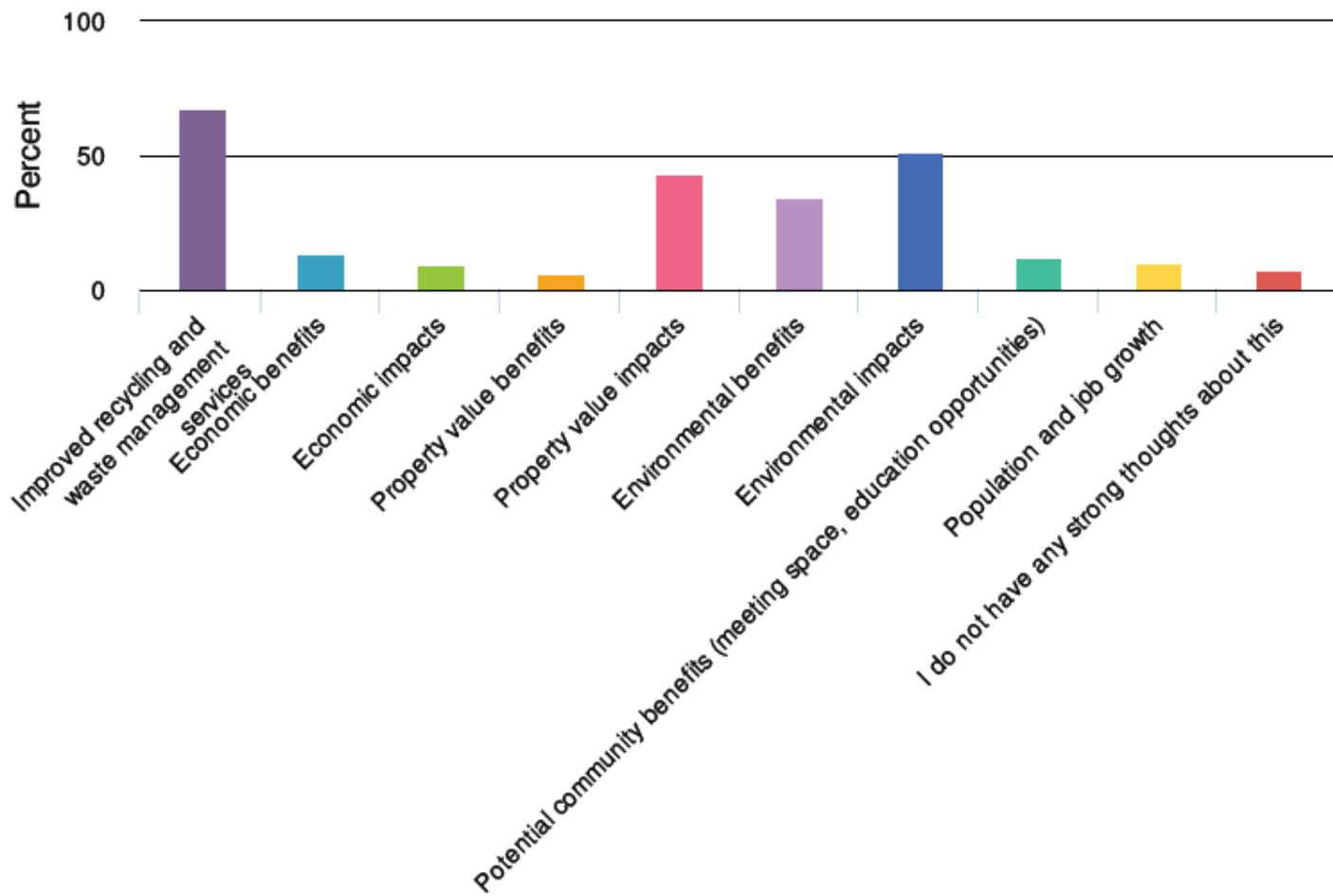
Gut check against community survey results



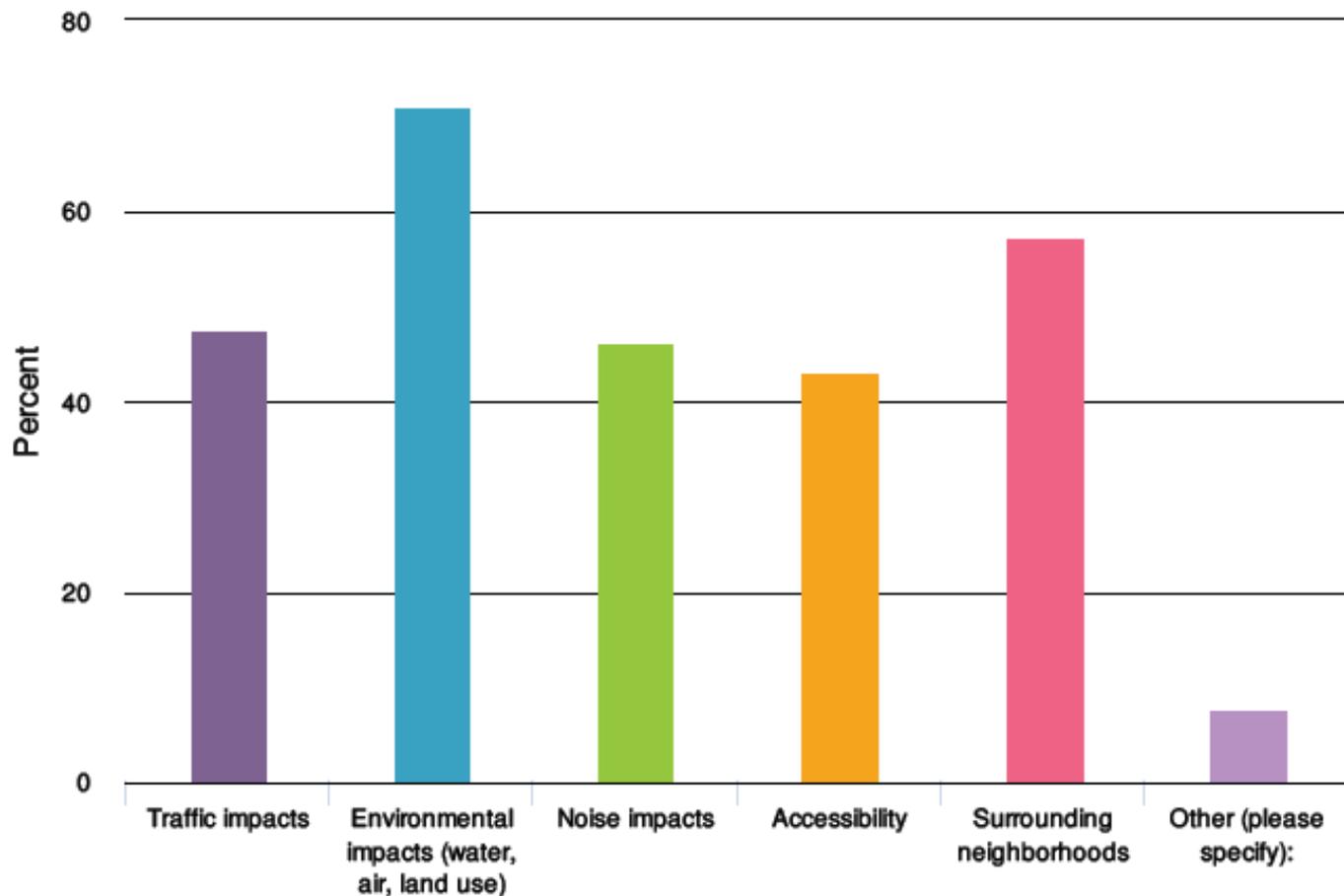
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6. When I think about a new Recycling and Transfer Station, I think of (select all that apply):



5. The most important things to consider when selecting a location for a new recycling and transfer station are: (select all that apply)



# Draft Scoring Measures

Criteria	Possible Scoring Measures
<i>Location has best travel times at most times of the day from within the service area</i>	<ul style="list-style-type: none"><li>Travel time at morning, noon, and evening</li></ul>
<i>Location is within xx miles from any point in the service area</i>	<ul style="list-style-type: none"><li>Distance from site to radius of service area</li></ul>
<i>Are there disproportionate impacts to historically and currently underserved and underrepresented communities? (includes people of color, immigrants, refugees, and low-income)</i>	<ul style="list-style-type: none"><li>Presence of underserved and underrepresented communities within xx miles of site using demographic data</li></ul>
<i>Site has lowest traditional/current use by indigenous peoples</i>	

# Draft Scoring Measures

Criteria	Possible Scoring Measures
<i>Site has fewest impacts to sensitive areas and avoids environmental red flags (e.g., landslide potential, wetlands, earthquake faults, etc.)</i>	
<i>Site has fewest potential local community impacts (e.g., traffic, noise, odor)</i>	<ul style="list-style-type: none"><li>• Proximity to neighbors</li></ul>
<i>Site is not a barrier to sustainable and innovative design</i>	<ul style="list-style-type: none"><li>• Site has space for additional functions/facilities</li><li>• Site has fewest on-site limitations (slope, wetlands, etc.)</li></ul>
<i>Site has most reasonable cost</i>	<ul style="list-style-type: none"><li>• Estimated acquisition and site development costs</li><li>• Willing seller</li></ul>

# Draft Scoring Measures

Are you ready to finalize the scoring measures?

# Draft Community Criteria

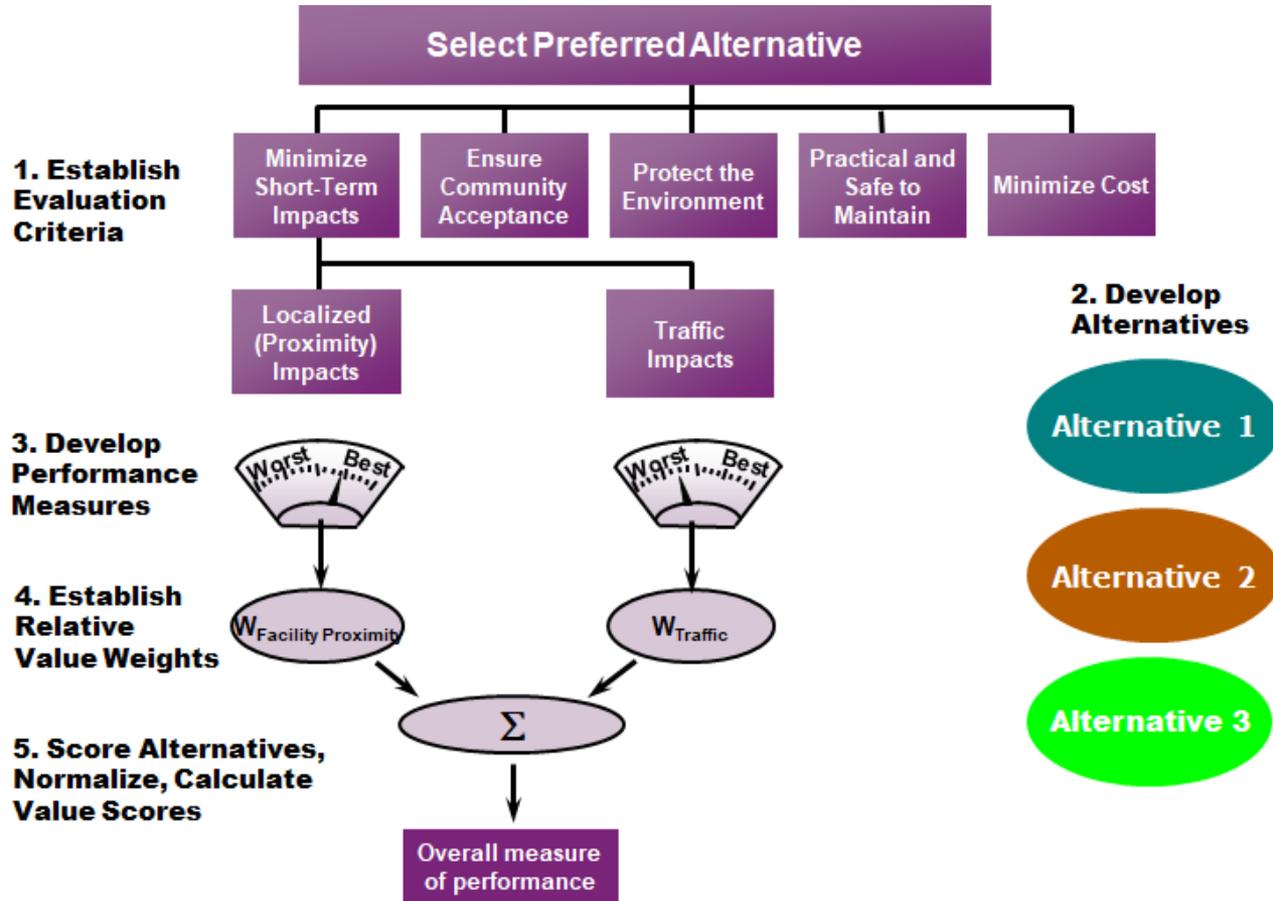
Are you ready to finalize the community criteria and scoring measures?

# Community Criteria Process

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# Introduction to Weighting

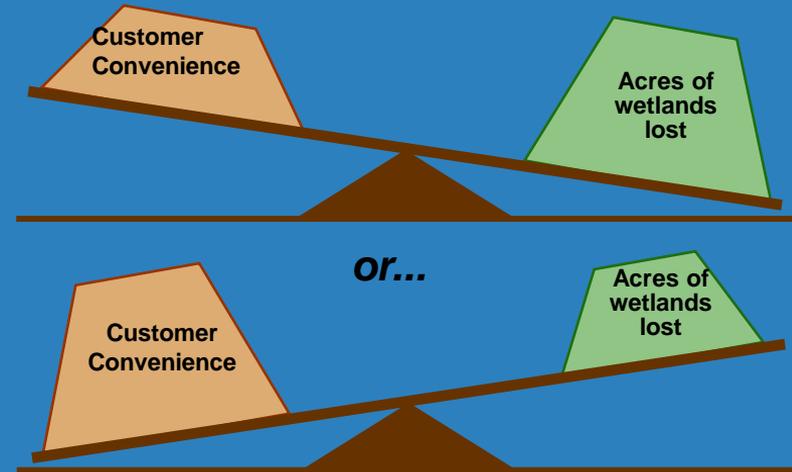
# Weighting and Multi-Objective Decision Analysis



# Establish Relative Value Weights

## Swing Weighting Approach

- Criteria are typically not of equal importance for selecting among alternatives
- Various methods can be used to assign weights
- The relative importance of objectives is a function both of the inherent importance of the objective and the variability between the endpoints of the performance scale
  - For example, if air quality is important but you don't expect much difference between the alternatives, assign a SMALL weight to that objective



# Swing Weighting

Weights depend on context (importance AND variability)

Weight:

x%  
Color

y%  
Price



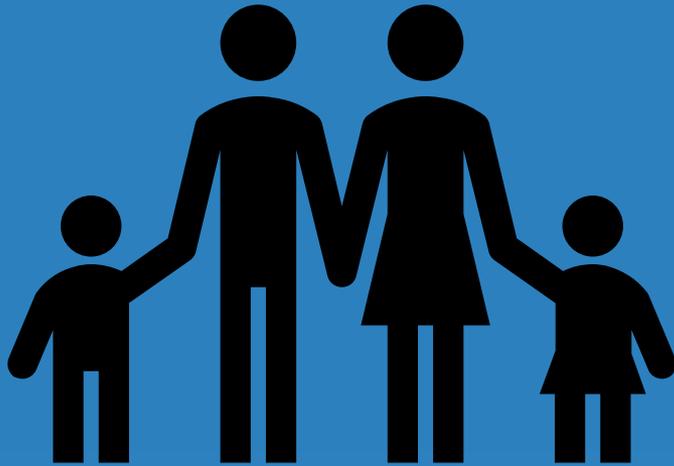
\$17,000



\$17,100

# Swing Weighting Example

## Vehicle Purchase Decision



**1. Corvette**



**2. Honda Accord**



**3. Toyota Prius**



**4. Ford F150 Pickup**



# Swing Weighting Example

## Weighting Form

Criteria	Measurement Scale	Worst Feasible Outcome	Best Feasible Outcome	Weight Sub-Criteria	Weight Main Criteria
1. Minimize air and GHG emissions	mpg	16	50		
2. Minimize cost					
2A. Purchase price	Dollars	\$75,000	\$25,000		
2B. Cost per mile (life cycle)	Dollars	\$1.10	\$0.49		
3. Maximize safety	1-3 scale	1	3		
4. Maximize features					
4A. Maximize exterior styling	1-3 scale	1	3		
4B. Maximize "fun" to drive	1-3 scale	1	3		
4C. Maximize interior comfort	1-3 scale	2	3		
4D. Maximize cargo capacity	cubic ft	22	55		

# Swing Weighting Example

## Weight Sub-Criteria

Criteria	Measurement Scale	Worst Feasible Outcome	Best Feasible Outcome	Weight Sub-Criteria	Weight Main Criteria
1. Minimize air and GHG emissions	mpg	16	50		
2. Minimize cost					
2A. Purchase price	Dollars	\$75,000	\$25,000		
2B. Cost per mile (life cycle)	Dollars	\$1.10	\$0.49		
3. Maximize safety	1-3 scale	1	3		
4. Maximize features					
4A. Maximize exterior styling	1-3 scale	1	3	70	
4B. Maximize "fun" to drive	1-3 scale	1	3	100	
4C. Maximize interior comfort	1-3 scale	2	3	80	
4D. Maximize cargo capacity	cubic ft	22	55	40	

# Swing Weighting Example

## Weight Sub-Criteria

Criteria	Measurement Scale	Worst Feasible Outcome	Best Feasible Outcome	Weight Sub-Criteria	Weight Main Criteria
1. Minimize air and GHG emissions	mpg	16	50		
2. Minimize cost					
2A. Purchase price	Dollars	\$75,000	\$25,000	100	
2B. Cost per mile (life cycle)	Dollars	\$1.10	\$0.49	50	
3. Maximize safety	1-3 scale	1	3		
4. Maximize features					
4A. Maximize exterior styling	1-3 scale	1	3	70	
4B. Maximize "fun" to drive	1-3 scale	1	3	100	
4C. Maximize interior comfort	1-3 scale	2	3	80	
4D. Maximize cargo capacity	cubic ft	22	55	40	

# Swing Weighting Example

## Weight Main Criteria

Criteria	Measurement Scale	Worst Feasible Outcome	Best Feasible Outcome	Weight Sub-Criteria	Weight Main Criteria
1. Minimize air and GHG emissions	mpg	16	50		70
2. Minimize cost					100
2A. Purchase price	Dollars	\$75,000	\$25,000	100	
2B. Cost per mile (life cycle)	Dollars	\$1.10	\$0.49	50	
3. Maximize safety	1-3 scale	1	3		40
4. Maximize features					90
4A. Maximize exterior styling	1-3 scale	1	3	70	
4B. Maximize "fun" to drive	1-3 scale	1	3	100	
4C. Maximize interior comfort	1-3 scale	2	3	80	
4D. Maximize cargo capacity	cubic ft	22	55	40	

# Swing Weighting Example

## Explore Weights in Percent and Adjust

Criteria	Measurement Scale	Worst Feasible Outcome	Best Feasible Outcome	Weight Sub-Criteria	Weight Main Criteria	Weights In Percent
1. Minimize air and GHG emissions	mpg	16	50		70	23%
2. Minimize cost					100	33%
2A. Purchase price	Dollars	\$75,000	\$25,000	100		22%
2B. Cost per mile (life cycle)	Dollars	\$1.10	\$0.49	50		11%
3. Maximize safety	1-3 scale	1	3		40	13%
4. Maximize features					90	30%
4A. Maximize exterior styling	1-3 scale	1	3	70		7%
4B. Maximize "fun" to drive	1-3 scale	1	3	100		10%
4C. Maximize interior comfort	1-3 scale	2	3	80		8%
4D. Maximize cargo capacity	cubic ft	22	55	40		4%
<b>Total</b>					<b>300</b>	<b>100%</b>

# Scoring Process

For each site:



# Community Criteria Process

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# Public Comment



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# Public Comment

- Opportunities for observers to make comments to the SAG
- Please raise your virtual hand to indicate a desire to comment
- The committee will listen; not respond
- Time limit will be determined based on number of observers desiring to make comments
- Comments can also be submitted via email, phone or the website
  - [www.kingcounty.gov/northeast](http://www.kingcounty.gov/northeast)
  - 206-477-4466
  - [Email us](#)

# Next Steps

- Top 5 sites to be sent over email
- Top 5 sites interactive tour
- Small group to score top 5 sites
- Committee members do individual weighting of criteria
- Community outreach in January
- Next meeting: January 27, 2021



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