Developing a “Best Practices” Policy Summary Document

Washington State Autonomous Vehicle Work group

Infrastructure and Systems Subcommittee

August 12th, 2019

1:00 – 4:00pm

Activity #1 Lead: Francesca Maier

Topics

- Team
- Methodology
- Progress
- Discuss Policy Goal Statements
- Next Steps

Team of Volunteers

- Azmeena Hasham
- Cecile Malik
- Chris Grgich
- Dan McReynolds
- Francesca Maier
- Jason Campos
- Jeff Peterson
- Joey Yang
- Les Jacobson
- Loreana Marciante
- Marc Daily
- Mariya Frost
- Robert Acevedo
- Sam Yaghmaie
- Scott Shogan
- Simone Montez

Objective

Washington State Department
of Transportation

Cooperative Automated
Transportation (CAT)
Draft Policy Framework

DRAFT

Working Document
November 26, 2018

For questions or
suggestions, please contact
WSDOT's CAT Working
Group Members or
WSDOT's CAT Program

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360-705-7286

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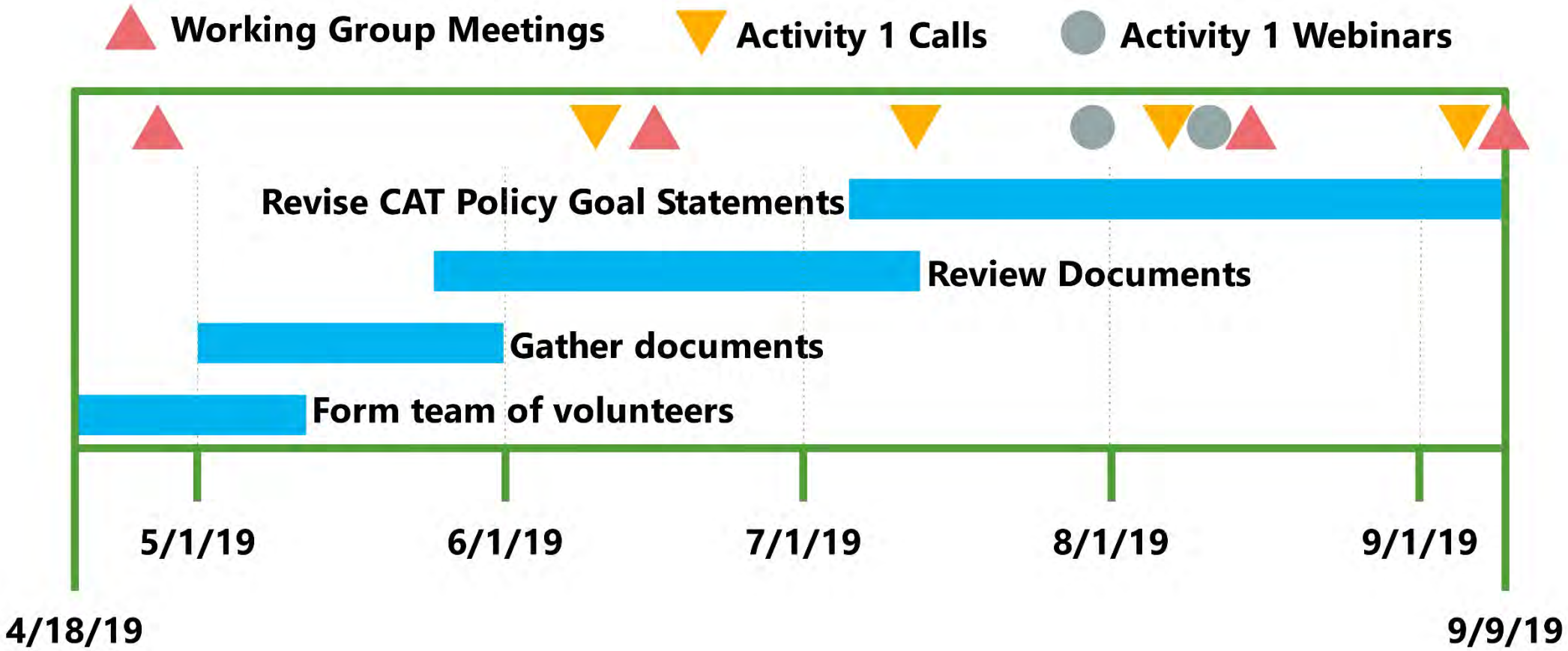
360-705-7953

Page 1 of 16

WSDOT Draft CAT Policy Framework- 11-26-18.

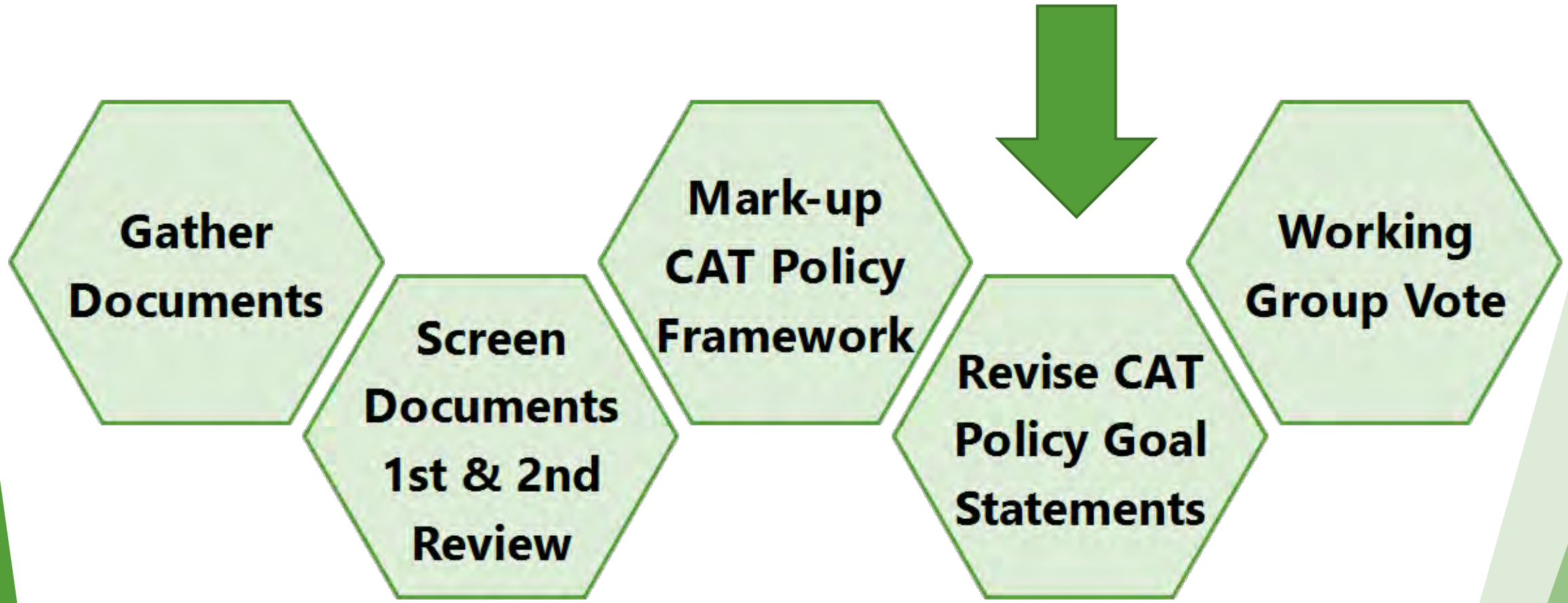
Washington State
CAT Policy Framework

Timeline


Working Group Meetings
Activity 1 Calls
Activity 1 Webinars
Revise CAT Policy Goal Statements
Review Documents
Gather documents
Form team of volunteers
5/1/19
6/1/19
7/1/19
8/1/19
9/1/19
4/18/19
9/9/19

Tasks

We are here



Progress… by the numbers

16
Volunteers
(11 Active)

41
Documents
(25 Reviewed)

2,104
Pages
(1,013 Reviewed)

4
Months
(3 Down)

8 Policy Goal Statements Revised

Organization

My Drive > CAT Infra & Sys Activity 1

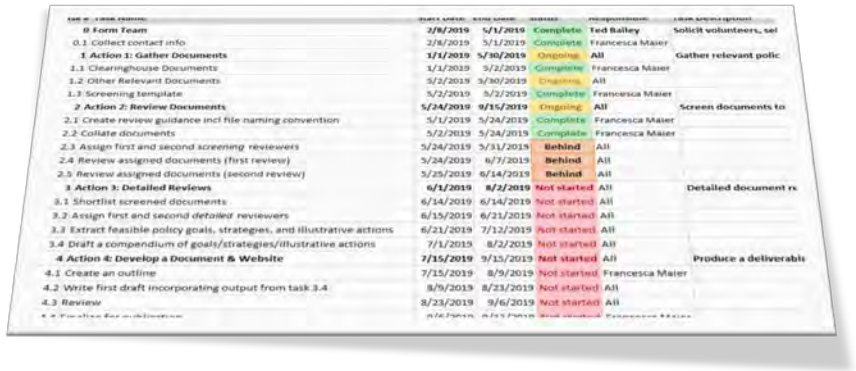
Name

- Examples
- Screening Reviews
- Documents
- Task Management.xlsx
- Review Template.docx

Roster Tab

Name	email	phone	Role
Ted Bailey	baileyte@wsdot.wa.gov	O: 360-705-7286 | C: 360-870-1574	Oversight
Daniela Bremmer	BremmeD@wsdot.wa.gov	O: 360-705-7953 | C: 360-791-8389	Oversight
Francesca Maier	ches@consultfaircape.com	4432088386	Lead

Schedule Tab



0 Form Team	2/8/2019	5/1/2019	Complete	Ted Bailey	Solicit volunteers, sel
0.1 Collect contact info	2/8/2019	5/1/2019	Complete	Francesca Maier	
1 Action 1: Gather Documents	1/1/2019	5/30/2019	Ongoing	All	Gather relevant polic
1.1 Clearinghouse Documents	1/1/2019	5/2/2019	Complete	Francesca Maier	
1.2 Other Relevant Documents	5/2/2019	5/30/2019	Ongoing	All	
1.3 Screening template	5/2/2019	5/2/2019	Complete	Francesca Maier	
2 Action 2: Review Documents	5/24/2019	9/15/2019	Ongoing	All	Screen documents to
2.1 Create review guidance incl file naming convention	5/1/2019	5/24/2019	Complete	Francesca Maier	
2.2 Collate documents	5/2/2019	5/24/2019	Complete	Francesca Maier	
2.3 Assign first and second screening reviewers	5/24/2019	5/31/2019	Behind	All	
2.4 Review assigned documents (first review)	5/24/2019	6/7/2019	Behind	All	
2.5 Review assigned documents (second review)	5/25/2019	6/14/2019	Behind	All	
3 Action 3: Detailed Reviews	6/1/2019	8/2/2019	Not started	All	Detailed document re
3.1 Shortlist screened documents	6/14/2019	6/14/2019	Not started	All	
3.2 Assign first and second detailed reviewers	6/15/2019	6/21/2019	Not started	All	
3.3 Extract feasible policy goals, strategies, and illustrative actions	6/21/2019	7/12/2019	Not started	All	
3.4 Draft a compendium of goals/strategies/illustrative actions	7/1/2019	8/2/2019	Not started	All	
4 Action 4: Develop a Document & Website	7/15/2019	9/15/2019	Not started	All	Produce a deliverable
4.1 Create an outline	7/15/2019	8/9/2019	Not started	Francesca Maier	
4.2 Write first draft incorporating output from task 3.4	8/9/2019	8/23/2019	Not started	All	
4.3 Review	8/23/2019	9/6/2019	Not started	All	

Document Index Tab

Document Index

Screening File Name	Agency / Organization	Document	First Reviewer	First Review Status	Second Reviewer	Notes	Summary of Content
n/a	Washington State DOT (WSDOT)	Cooperative Automated Transportation (CAT) Policy Framework	**Everyone to review Template not required**	N/A	N/A	16 pages, mostly text	To achieve this vision, this policy framework sets shared expectations to guide and monitor technology implementation. The framework is intended to spur innovation and investment while improving safety, mobility, and transportation
Ind-AASH-01	AASHTO	Policy Resolutions (2013-2018)	Dan McReynolds			9 pages, text only	Establishes AASHTO policies on certain aspects of CAT technology & policy
LocAuth-Chi-01	City of Chicago	Roadmap for the Future of Transportation and Mobility in Chicago	Marc Daily	Complete	Loreana Marciante	48 pages, text and images	Recommendations from a task force that lays out policy changes, action items, and studies that the City of Chicago should conduct to plan for the future mobility of the city.

File Naming Convention

Source Agency

Hyperlink to Document

First Reviewer

First Review Status

Second Reviewer

Info about document length

Info about content

Self-assign documents, notify next in chain when done.

Reviews

My Drive > CAT Infra & Sys Activity 1

Name

- Examples
- Screening Reviews
- Documents
- Task Management.xlsx
- Review Template.docx

RESULTS

The following pages present the results from each of the 8 groups. These policies represent the ideas that participants developed in the workshop setting. Some are consistent with one another, while some contradict one another. **The identified policies should be viewed as concepts for further discussion, rather than actual policies are moving towards implementation. They do not represent the views of the agencies or organizations whose representatives participated.**

Each of the breakout groups aimed to develop policies that are intended to meet the following goals.

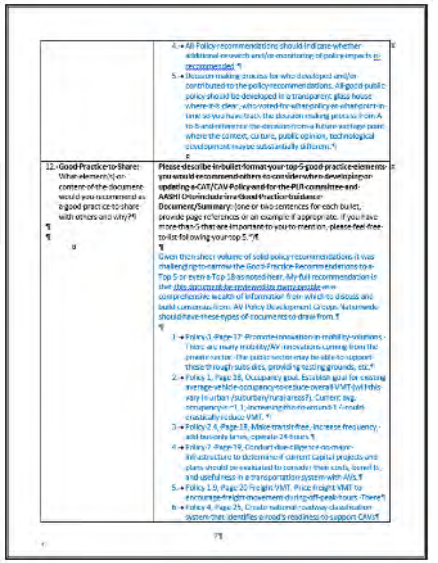
GOALS*

1. To reduce traffic crashes, injuries and fatalities
2. To improve access for everyone, including all income levels, as well as people of all ages and physical abilities
3. To ensure an equitable transportation system
4. To foster healthy communities
5. To create an environmentally sustainable transportation system
6. To mitigate job loss and to create new well-paying jobs for those displaced
7. To foster sustainable land use development patterns
8. To reduce traffic congestion
9. To enable sharing of rides as a viable and appealing option with a high level of service

Public policy should, where necessary, align the reality of automation technology with achieving these goals.

These goals were developed by the AV Summit Organizing Committee and borrowed on concepts developed in the Shared Mobility Principles for Livable Cities and the NACTO Blueprint for Autonomous Urbanism.

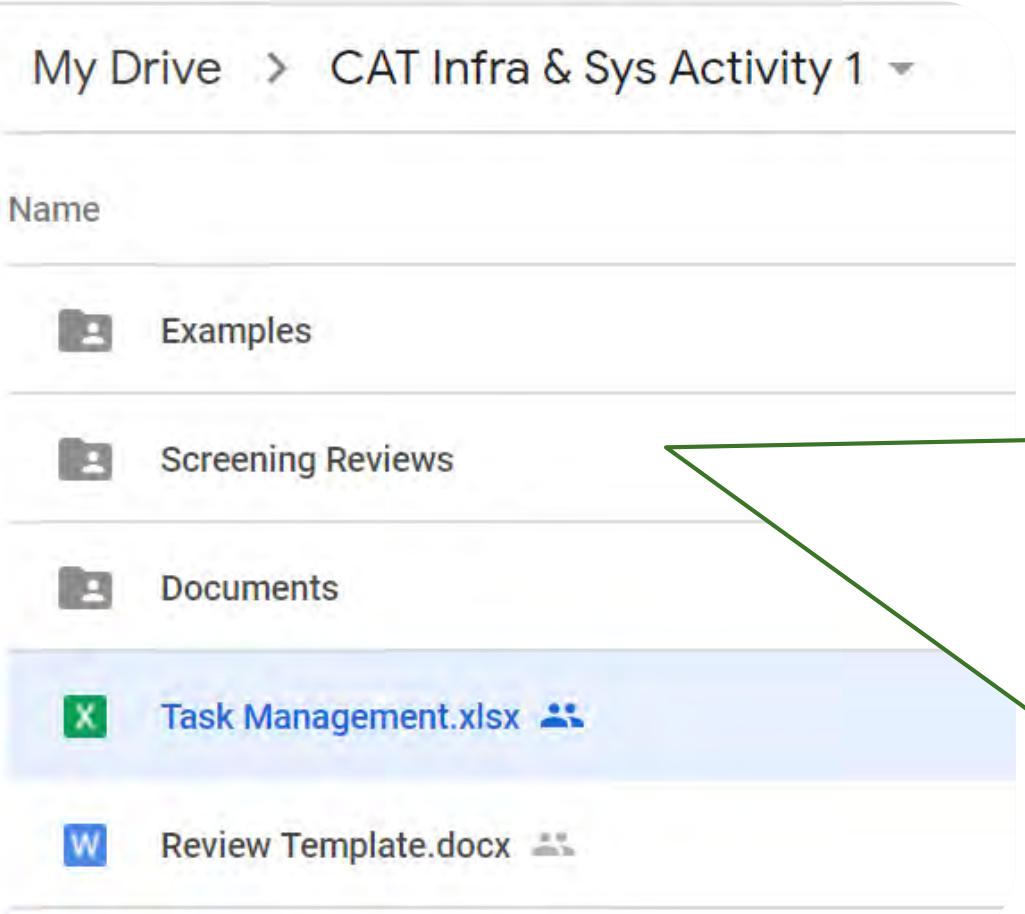
The excel tables from the Summit may also be downloaded for use of anyone who wants to modify them as a basis for their own policy forming efforts. They are in the folder "Final Product" at www.transportxgroup.com/av/policy/summit.html



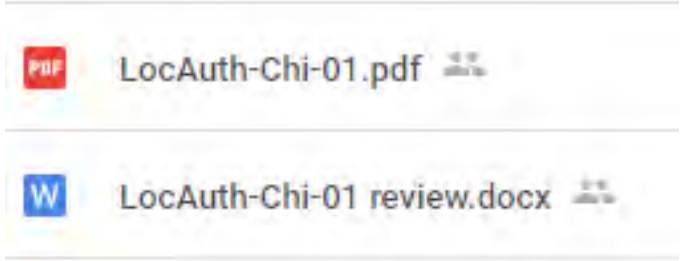
Items in yellow considered for omitting/skipping for this review

11. **Noteworthy-Food for Thought**: What element of the document did you particularly like; was noteworthy; you were surprised by; gave you pause; interested you to learn more about, or to replicate; etc.?	**Please describe in bullet format your top 5 elements (one sentence for each bullet):** This section is important as it may provide us with critical insights that could be reflected in the "Good Practice Guidance Document" product. Please provide page number(s) for the referenced section(s)/text.
12. **Good Practice to Share:** What element(s) or content of the document would you recommend as a good practice to share with others and why?	**Please describe in bullet format your top 5 good practice elements you would recommend others to consider when developing or updating a CAT/CAV Policy and for the PLR committee and AASHTO to include in a Good Practice Guidance Document/Summary:** (one or two sentences for each bullet, provide page references or an example if appropriate. If you have more than 5 that are important to you to mention, please feel free to list following your top 5.")

1st Reviews



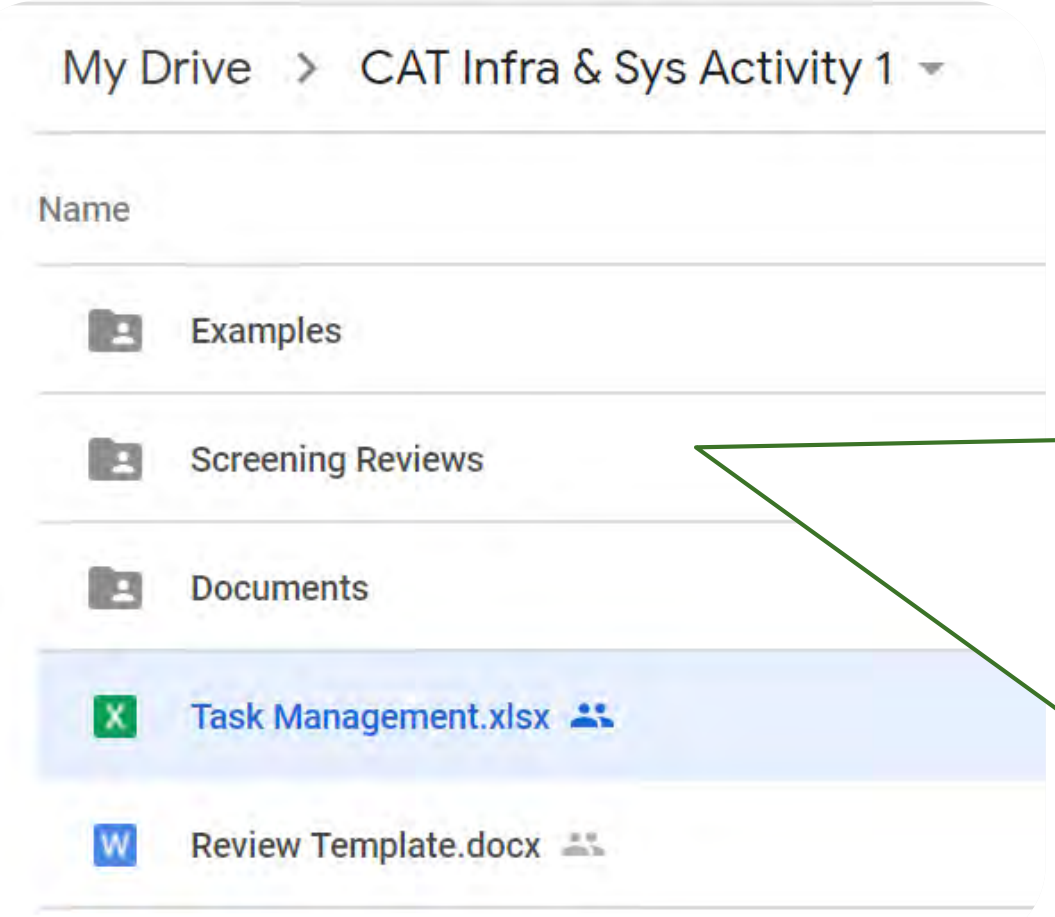
Marked-up PDF



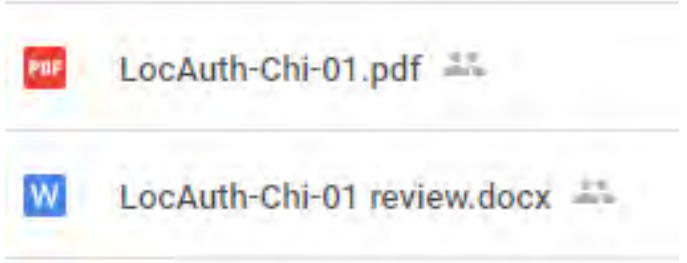
Completed Template

Please use file naming convention from the Document Index to aid the second reviewer!

2nd Reviews



Marked-up PDF



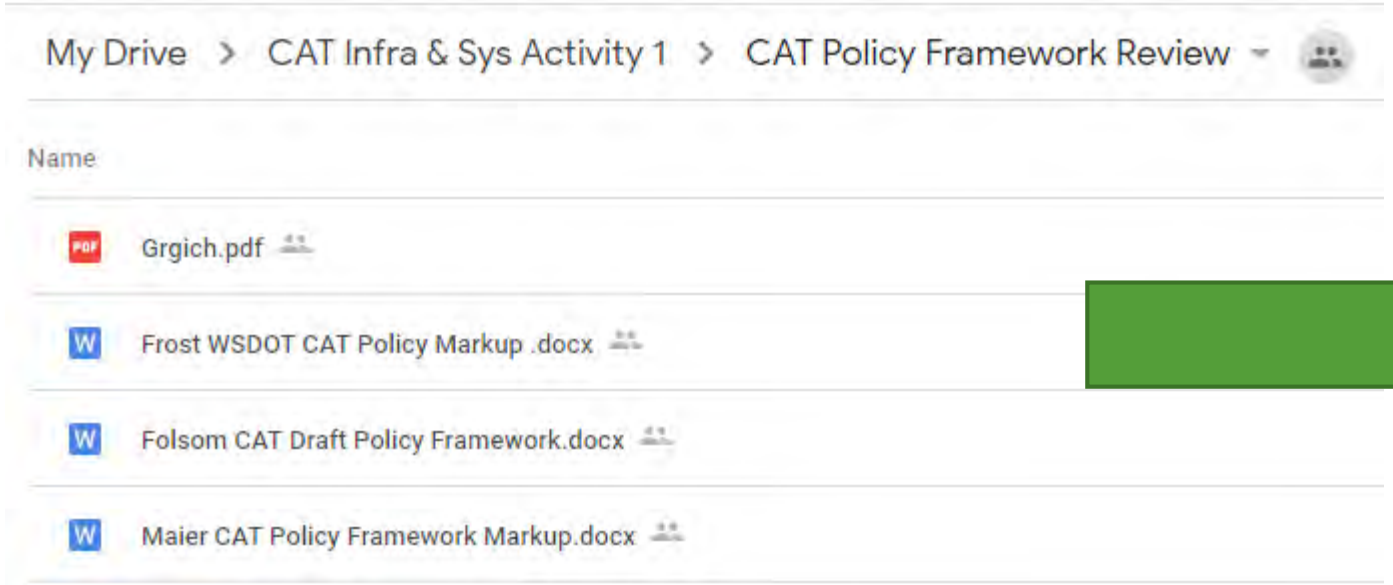
Completed Template

Please work within the original Screening Template from the 1st Review!

WSDOT Draft CAT Policy Framework

- Review
- Discussed at July call
- Mark-up
  - Policy Goal Statements
  - Strategies
  - Example Actions

CAT Policy Framework Revision Process



Aggregated for webinar discussion

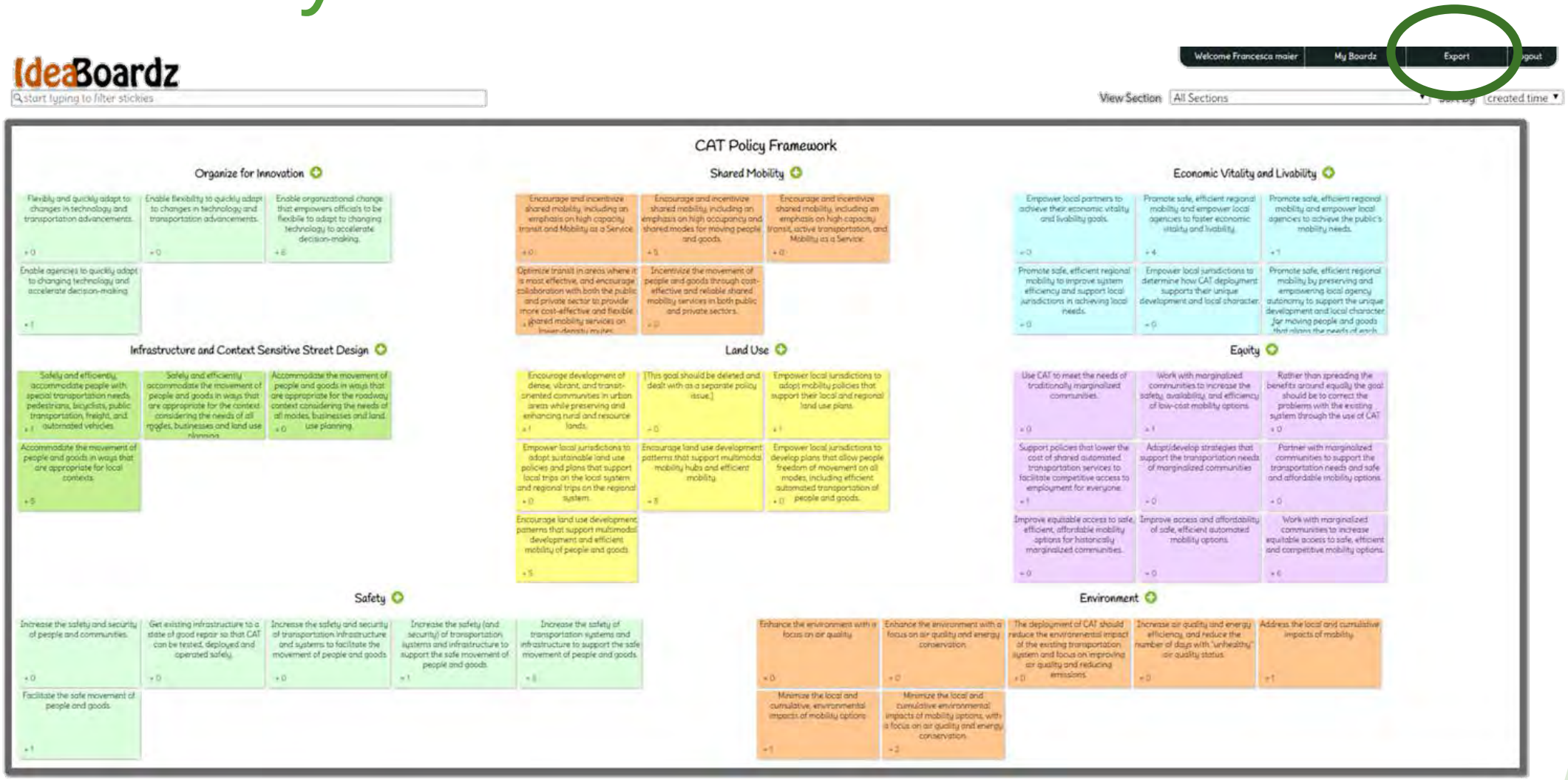
Original Draft WSDOT CAT Policy Framework

Suggested edits from volunteer group

Online Discussion and active collaboration

Revised Policy Goal Statements

Activity 1 Webinars



https://ideaboardz.com/for/CAT%20Policy%20Framework/2904084

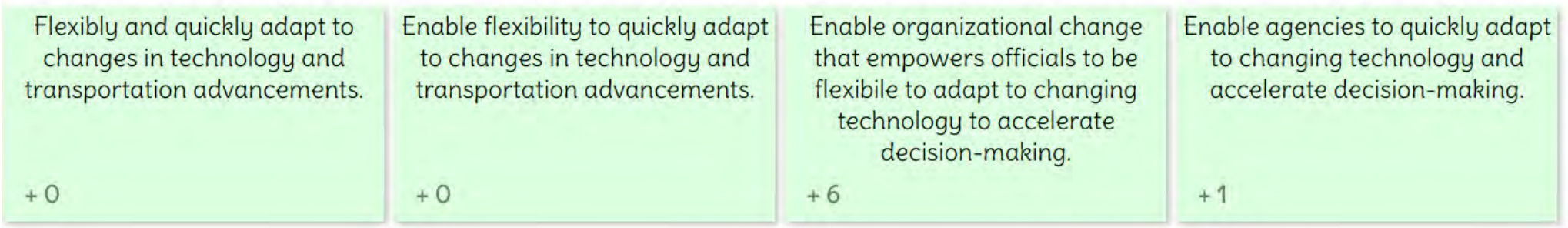
Goal 1: Organize for Innovation

WSDOT CAT Draft Policy Framework

Flexibly and quickly adapt to changes in technology and transportation advancements.

Revised: WA State CAT Policy Framework

Enable organizational change that empowers officials to be flexible to adapt to changing technology to accelerate decision-making.



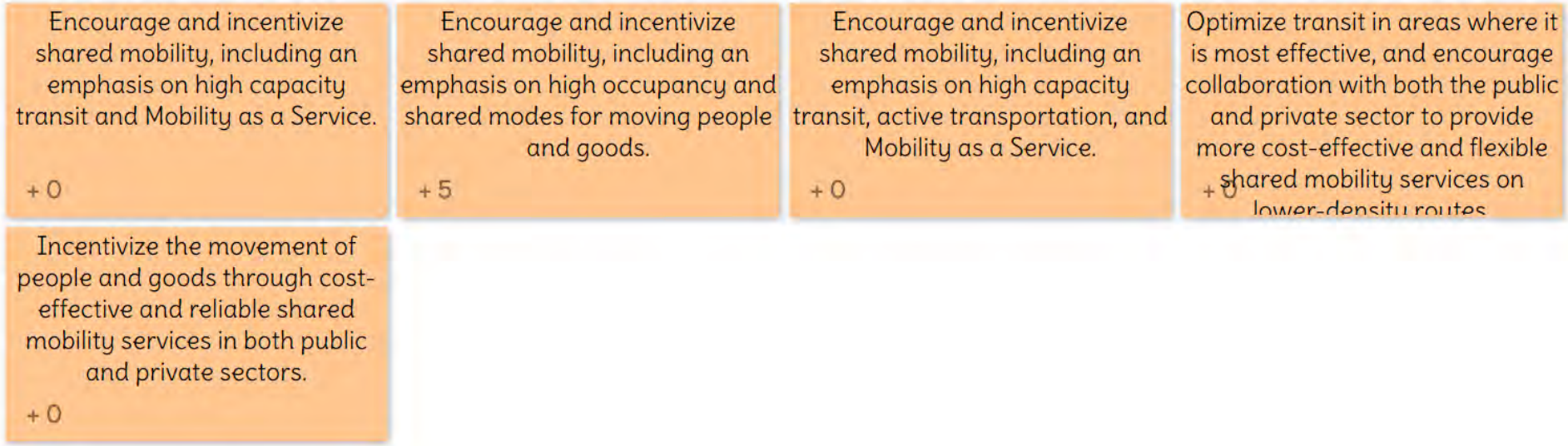
Goal 2: Shared Mobility

WSDOT CAT Draft Policy Framework

Encourage and incentivize shared mobility, including an emphasis on high capacity transit.

Revised: WA State CAT Policy Framework

Encourage and incentivize shared mobility, including an emphasis on high occupancy and shared modes for moving people and goods.



Goal 3: Economic Vitality and Livability

WSDOT CAT Draft Policy Framework

Empower local partners to achieve their economic vitality and livability goals.

Revised: WA State CAT Policy Framework

Promote safe, efficient regional mobility and empower local agencies to foster economic vitality and livability.

Empower local partners to achieve their economic vitality and livability goals. +0	Promote safe, efficient regional mobility and empower local agencies to foster economic vitality and livability. +4	Promote safe, efficient regional mobility and empower local agencies to achieve the public's mobility needs. +1	Promote safe, efficient regional mobility to improve system efficiency and support local jurisdictions in achieving local needs. +0
Empower local jurisdictions to determine how CAT deployment supports their unique development and local character. +0	Promote safe, efficient regional mobility by preserving and empowering local agency autonomy to support the unique development and local character for moving people and goods that aligns the needs of each +1		

Goal 4: Infrastructure and Context Sensitive Street Design

WSDOT CAT Draft Policy Framework

Safely and efficiently, accommodate people with special transportation needs, pedestrians, bicyclists, public transportation, freight, and automated vehicles.

Revised: WA State CAT Policy Framework

Accommodate the movement of people and goods in ways that are appropriate for the context.

Safely and efficiently, accommodate people with special transportation needs, pedestrians, bicyclists, public transportation, freight, and automated vehicles. +1	Safely and efficiently accommodate the movement of people and goods in ways that are appropriate for the context considering the needs of all modes, businesses and land use planning +0	Accommodate the movement of people and goods in ways that are appropriate for the roadway context considering the needs of all modes, businesses and land use planning. +0	Accommodate the movement of people and goods in ways that are appropriate for local contexts. +5

Goal 5: Land Use

WSDOT CAT Draft Policy Framework

Encourage development of dense, vibrant, and transit-oriented communities in urban areas while preserving and enhancing rural and resource lands.

Revised: WA State CAT Policy Framework

Encourage land use development patterns that support multimodal development and efficient mobility of people and goods.

Encourage development of dense, vibrant, and transit-oriented communities in urban areas while preserving and enhancing rural and resource lands. +1	[This goal should be deleted and dealt with as a separate policy issue.] +0	Empower local jurisdictions to adopt mobility policies that support their local and regional land use plans. +1	Empower local jurisdictions to adopt sustainable land use policies and plans that support local trips on the local system and regional trips on the regional system. +0
Encourage land use development patterns that support multimodal mobility hubs and efficient mobility. +3	Empower local jurisdictions to develop plans that allow people freedom of movement on all modes, including efficient automated transportation of people and goods. +0	Encourage land use development patterns that support multimodal development and efficient mobility of people and goods +5	

Goal 6: Equity

WSDOT CAT Draft Policy Framework

Use CAT to meet the needs of traditionally marginalized communities.

Revised: WA State CAT Policy Framework

Work with marginalized communities to increase equitable access to safe, efficient and competitive mobility options.

Use CAT to meet the needs of traditionally marginalized communities. +0	Work with marginalized communities to increase the safety, availability, and efficiency of low-cost mobility options. +1	Rather than spreading the benefits around equally the goal should be to correct the problems with the existing system through the use of CAT +0	Support policies that lower the cost of shared automated transportation services to facilitate competitive access to employment for everyone. +1	
Adopt/develop strategies that support the transportation needs of marginalized communities +0	Partner with marginalized communities to support the transportation needs and safe and affordable mobility options. +0	Improve equitable access to safe, efficient, affordable mobility options for historically marginalized communities. +0	Improve access and affordability of safe, efficient automated mobility options. +0	Work with marginalized communities to increase equitable access to safe, efficient and competitive mobility options. +6

Goal 7: Safety

WSDOT CAT Draft Policy Framework

Increase the safety and security of people and communities.

Revised: WA State CAT Policy Framework

Increase the safety of transportation systems and infrastructure to support the safe movement of people and goods.

Increase the safety and security of people and communities. + 0	Get existing infrastructure to a state of good repair so that CAT can be tested, deployed and operated safely. + 0	Increase the safety and security of transportation infrastructure and systems to facilitate the movement of people and goods + 0	Increase the safety (and security) of transportation systems and infrastructure to support the safe movement of people and goods + 1
Increase the safety of transportation systems and infrastructure to support the safe movement of people and goods. + 6	Facilitate the safe movement of people and goods. + 1		

Goal 8: Environment

WSDOT CAT Draft Policy Framework

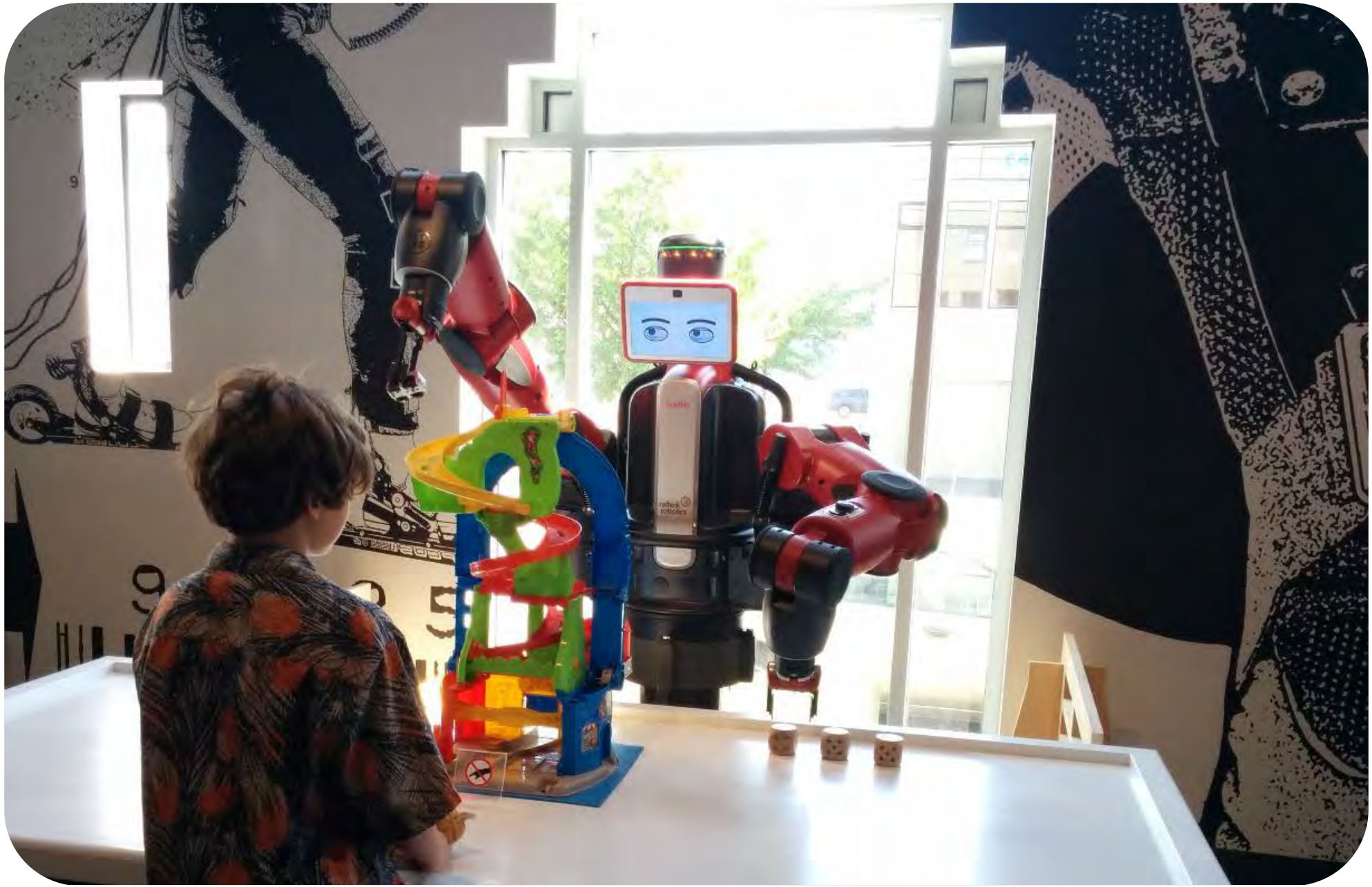
Enhance the environment with a focus on air quality.

Revised: WA State CAT Policy Framework

Minimize the local and cumulative environmental impacts of mobility options, with a focus on air quality and energy conservation.

Enhance the environment with a focus on air quality. +0	Enhance the environment with a focus on air quality and energy conservation. +0	The deployment of CAT should reduce the environmental impact of the existing transportation system and focus on improving air quality and reducing emissions. +0	Increase air quality and energy efficiency, and reduce the number of days with "unhealthy" air quality status. +0
Address the local and cumulative impacts of mobility. +1	Minimize the local and cumulative, environmental impacts of mobility options +1	Minimize the local and cumulative environmental impacts of mobility options, with a focus on air quality and energy conservation. +2	

Next Steps

1. **Align/develop** "Best Practice" **strategies** from the policy review process in reference to the Revised: WA State CAT Policy Goals
2. **Align/develop** One (1) "**Illustrative Action**" for each strategy
3. **Mark up the Draft WSDOT CAT Policy Framework** to incorporate the Revised Goal statements and the strategies and illustrative actions from Steps 1 and 2 **to produce a Draft WA State CAT Policy Framework**
4. Present the Draft WA State CAT Policy Framework to the Infrastructure & Systems Subcommittee on **Sept. 9th** for discussion / vote on revisions.
5. Package the "results of the Sept. 9th discussion/vote", including a minority report, for presentation at the **Sept. 26th** AV Work Group Executive Committee
6. Receive and incorporate input from the AV Work Group Executive Committee
7. **Continue revising / adding** strategies & illustrative actions as needed **through 2019 & 2020**
8. Continue working towards a final Proposed WA State CAT Policy Framework

Your feedback