



# **EAP: 2017 Progress Report**

City of Tacoma | ES, Office of Environmental Policy and Sustainability

**Infrastructure, Planning and Sustainability Committee**

**April 25, 2018**

**ITEM #1**

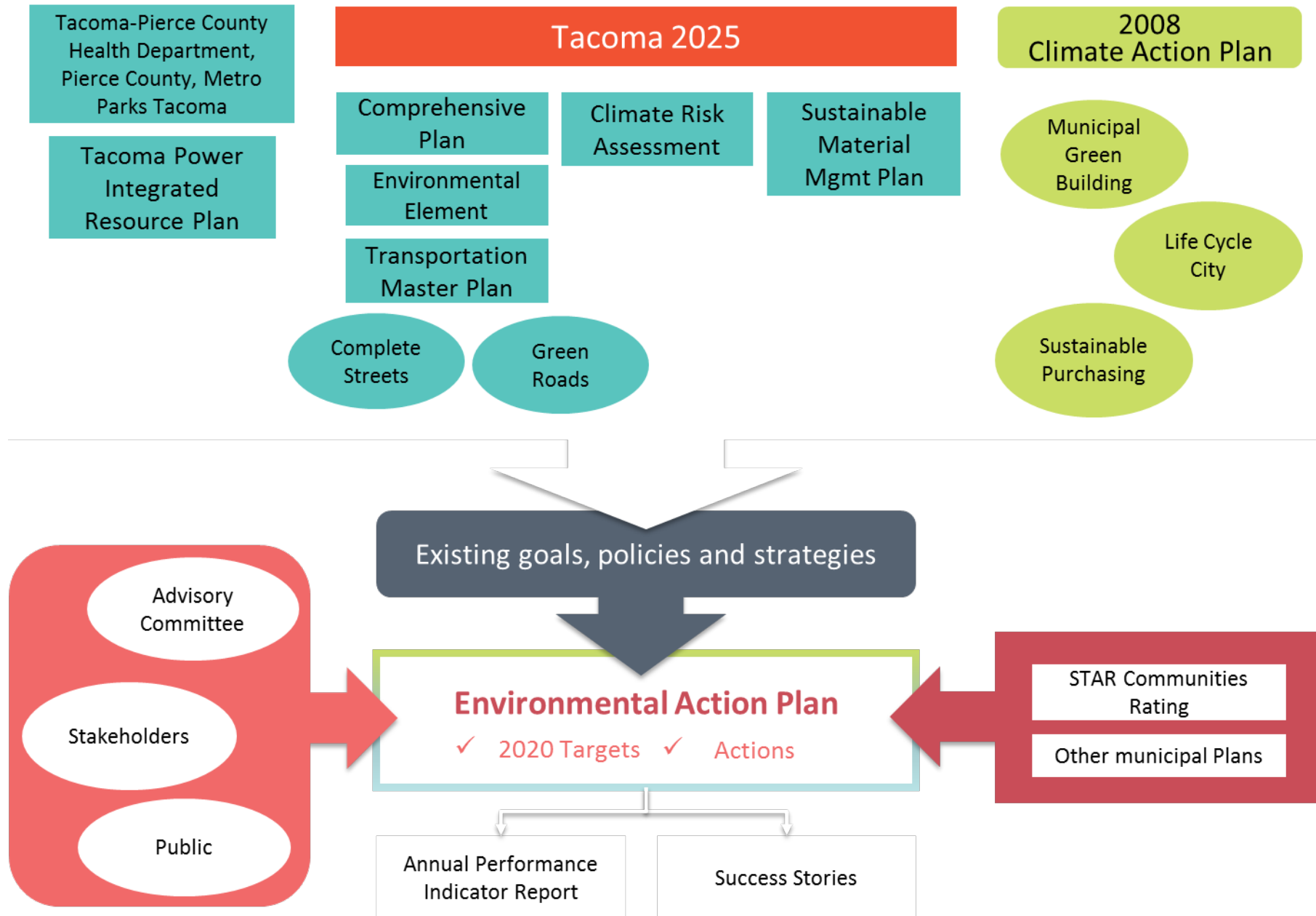




# OVERVIEW



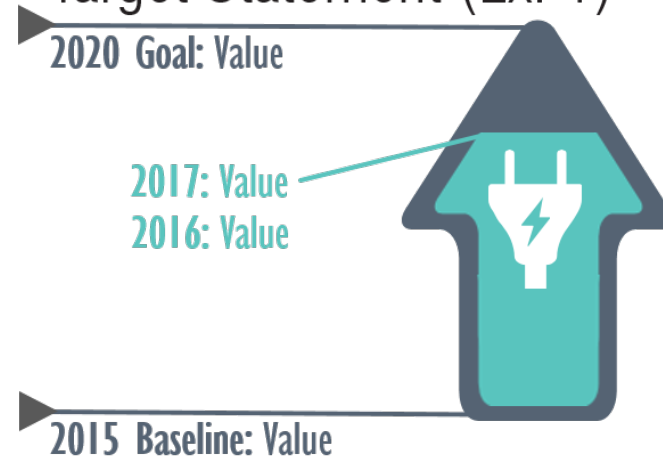
- Resolution 39437 adopted the EAP on April 19, 2016
- Second annual progress report for City's Environmental Action Plan (EAP)
- Requirement of EAP to produce an annual report on the EAP's Performance Indicators
  - Five-year targets and actions



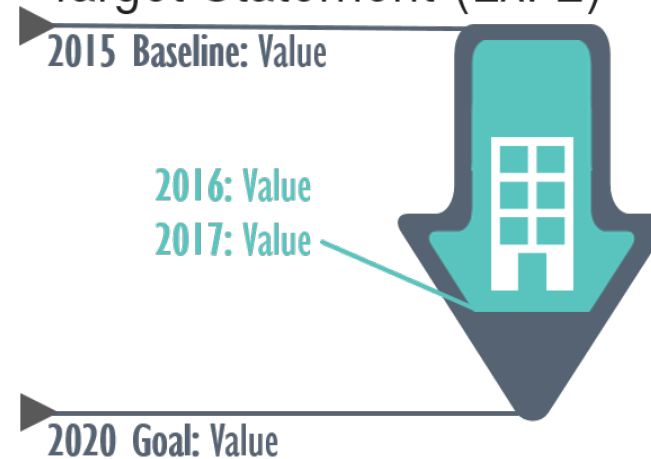


# Understanding Target Graphics

Target Statement (Ex. 1)



Target Statement (Ex. 2)





## Buildings and Energy

## TARGETS



Achieve all cost effective electricity community conservation savings.

**2017 Goal:** 239 mil kWh conserved

**2017:** 252 mil kWh  
**2016:** 222 mil kWh



**2010-2015 Baseline:** 196 mil kWh conserved

Reduce energy use in City & TPU buildings by 10%.

**2013-15 Baseline:** 213 mil kBTU

**2016:** 199 mil kBTU  
**2017:** 216 mil kBTU



**2020 Goal:** 192 mil kBTU

Reduce electricity use in City & TPU operations by 10%.

**2013-15 Baseline:** 274 mil kBTU

**2016:** 258 mil kBTU  
**2017:** 265 mil kBTU



**2020 Goal:** 247 mil kBTU

Reduce water use at City & TPU facilities by 10%.

**2013-15 Baseline:** 105,759 CCF

**2016:** 98,573 CCF  
**2017:** 104,393 CCF



**2020 Goal:** 95,183 CCF

Fund all cost-effective low income residential conservation spending.

**2017 Goal:** \$16.8 million

**2017:** \$15.4 million  
**2016:** \$14.6 million



**2010-2015 Baseline:** \$13.4 million

Increase solar power by 26%.

**2020 Goal:** 1,012 kW

**2017:** 1,767 kW  
**2016:** 1,600 kW



**2015 Baseline:** 803 kW

Increase community water conservation.

**2017 Goal:** 273 mil gal conserved

**2017:** 198 mil gal conserved  
**2016:** 171 mil gal conserved



**2011-2015 Baseline:** 228 mil gal conserved

Certify 20% more buildings as LEED.

**2020 Goal:** 49 buildings certified

**2017:** 44 buildings certified  
**2016:** 44 buildings certified



**2015 Baseline:** 41 buildings certified

Certify 100% more buildings as Energy Star.

**2020 Goal:** 28 buildings certified

**2017:** 18 buildings certified  
**2016:** 14 buildings certified




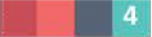
**2015 Baseline:** 14 buildings certified



## Buildings and Energy

### ACTIONS



	Action	Progress Rating (1-5)	2017 Status
<b>B4</b>	Hire a green building advocate for the City's Permit Office to identify incentives, remove barriers, and encourage green building practices.	 2	Internal Green Building Stakeholder Group began meeting. Hired an AmeriCorps member to coordinate creation of a Green Building Roadmap (anticipated completion in 2018).
<b>B10</b>	Upgrade all streetlights to LED where cost effective and use best practices when possible to reduce light pollution.	 4	General Government and Tacoma Power are upgrading three-quarters of Public Works' streetlights to LED. About 25% were upgraded (remaining should be completed in 2018).

1: None 2: Little Progress 3: Some Progress 4: Good Progress 5: Completed



## Transportation

Decrease community single occupancy vehicle trips by 7% of 2014 levels.

**2014 Baseline:** 77%

**2016:** 84%  
**2017:** No new data



**2020 Goal:** 70%

Decrease City & TPU employee single occupancy vehicle trips by 5% of 2014 levels.

**2014 Baseline:** 75%

**2016:** 75%  
**2017:** No new data



**2020 Goal:** 70%

Decrease City & TPU fossil fuel use by 15% of 2014 levels.

**2014 Baseline:** 1.96 mil gal

**2016:** 1.99 mil gal  
**2017:** 1.91 mil gal



**2020 Goal:** 1.67 mil gal

Register 2,000 electric vehicles by 2020.

**2020 Goal:** 2,000 registered

**2017:** 583 registered  
**2016:** Data not available



**2015 Baseline:** 383 registered

Increase miles of bicycle infrastructure by 35% of 2015 miles.

**2020 Goal:** 83 miles

**2017:** 64.4 miles  
**2016:** 62.1 miles



**2015 Baseline:** 61 miles

## TARGETS



Reduce bicycle and pedestrian collisions in low income neighborhoods and communities of color by 50% of 2015 collisions.

**2015 Baseline:** 276 collisions

**2016:** 163 collisions  
**2017:** 102 collisions



**2020 Goal:** 138 collisions

Increase pedestrian counts by 15% of 2015 counts (as measured during annual Bicycle/Pedestrian Count Week).

**2020 Goal:** 4,188 pedestrians

**2017:** 2,650 pedestrians  
**2016:** 2,858 pedestrians



**2015:** 3,642 pedestrians





## Transportation

## ACTIONS



	Action	Progress Rating (1-5)	2017 Status
T5	Support 4 multi-year Safe Routes to School (SRTS) Programs and infrastructure improvements.		Completed SRTS Action Plan. City received grant funding for engineering, education, and enforcement improvements at Lister Elementary and First Creek Middle School. City allocated \$500k to engineering improvements at Blix Elementary and Stanley Elementary. School zone beacons were installed at 14 schools with City funding (approx. \$1.1M).
T12	Develop, implement, and monitor a Fuel Reduction Policy and associated education and awareness campaigns for both employee commuting and city trips.		City Council approved new Resource Conservation Manager (RCM) who will work with other departments, including Fleet, to develop a Policy and Program.

1: None 2: Little Progress 3: Some Progress 4: Good Progress 5: Completed





## Materials Management

## TARGETS

Decrease waste generation by 11% per capita per day.

**2014 Baseline:** 4.4 lbs.

**2016:** 4.8 lbs.

**2017:** 4.9 lbs.

**2020 Goal:** 3.9 lbs.



Double commercial composting accounts.

**2020 Goal:** 220 accounts

**2017:** 277 accounts

**2016:** 270 accounts

**2015 Baseline:** 110 accounts



Increase amount of waste diverted from the landfill by 5%.

**2020 Goal:** 60%

**2017:** No new data

**2016:** 55%

**2015 Baseline:** 55%



Increase multi-family recycling accounts.

**2020 Goal:** 1,160 accounts

**2017:** 1,143 accounts

**2016:** 1,026 accounts

**2015 Baseline:** 1,105 accounts





## Materials Management

### ACTIONS

	Action	Progress Rating (1-5)	2017 Status
M2	Support and advocate for strong product stewardship policies at the state and national levels, minimizing environmental impacts of product and packaging throughout all lifecycle stages, especially manufacturing.	<div><div></div><div></div><div></div><div></div><div>4</div></div>	City staff sits on the NW Product Stewardship Steering Committee. The City funds its efforts through the Solid Waste Division. Several WA bills were tracked this year, including Paint Recycling, Medicine Return, Responsible Management of Postconsumer Waste, and implementation of the Solar Module Stewardship Law. The statewide Medicine Return bill did pass after reductions in the convenience standard.
M7	Require new buildings to provide adequate space and receptacles for recycling and organics storage and collection.	<div><div></div><div>2</div><div></div><div></div><div></div></div>	Per WA State 2015 codes, adopted 2016, Planning and Development Services requires all new buildings to identify adequate space and access for garbage and recycling. Part of the plan review and inspection for new buildings, this is required to obtain certificate of occupancy. SWM wrote draft language for municipal code updates to go before Council in 2018 that will define adequate space and receptacles.

1: None 2: Little Progress 3: Some Progress 4: Good Progress 5: Completed



## Natural Systems

## TARGETS



Increase acres managed by Green Stormwater Infrastructure.

**2020 Goal:** 870 acres

**2017:** 866 acres  
**2016:** 860 acres



**2014 Baseline:** 290 acres

Increase acres of actively managed open space ecosystem habitat by 52%.

**2020 Goal:** 87.5 acres

**2017:** 62.5 acres  
**2016:** 60.4 acres



**2014 Baseline:** 57.5 acres

Increase blocks of new permeable residential streets.

**2020 Goal:** 53 blocks

**2017:** 37.5 blocks  
**2016:** 30 blocks



**2015 Baseline:** 28 blocks

Increase volunteers engaged in stewardship activities and programs by 20%.

**2020 Goal:** 4,105 volunteers

**2017:** 3,888 volunteers  
**2016:** 3,535 volunteers



**2015 Baseline:** 3,421 volunteers

Increase tree canopy, focusing on low income neighborhoods and communities of color most susceptible to heat island effect.






**2020 Goal:** 212,500 trees

**2017:** 212,371 trees  
**2016:** 212,115 trees



**2009 Baseline:** 212,000 trees



 Natural Systems		ACTIONS 	
Action		Progress Rating (1-5)	2017 Status
N3	Develop Urban Forestry Implementation Strategy for strategic and equitable planting locations, incentives, public engagement, retention strategies and maintenance. Create stable funding for implementation.	 2	The Urban Forest Management Plan budget was allocated in the 2017/18 biennium and is in the contract award process. The Urban Forestry program grew new partnerships and programs around strategic, equitable planting, resulting in 256 new trees in target neighborhoods in 2017.
N5	Develop and manage an Open Space program based on watershed planning that seeks to own most valuable properties and effectively	 4	The City added another management plan - Salmon Beach Slope (currently in permitting) and implemented a passive open space volunteer program.
			



## Air and Local Food

## TARGETS



Meet healthy fine particle pollution levels 365 days a year (in 2015, 9 days were above healthy particle levels).

**2020 Goal:** 365 days

**2017:** 341 days  
**2016:** 358 days

**2015 Baseline:** 356 days



Increase number of low income neighborhoods and communities of color with community gardens by 14%.

**2020 Goal:** 16 gardens






**2017:** 12 gardens  
**2016:** 14 gardens

**2015 Baseline:** 14 gardens



Senior Farm Share at Tacoma's Farmers Market



 Air and Local Food		ACTIONS 	
	Action	Progress Rating (1-5)	2017 Status
A3	Create and fund a reporting system and feedback forum for the city to hear from those suffering from food insecurity.	 3	The City co-wrote a grant successfully awarded to the Puyallup Watershed Initiative's Just and Healthy Food System Community of Interest to support and listen to those suffering from food insecurity.
A8	Implement community supported agriculture (CSA) pick-up at 4 city facilities for employees.	 1	No existing staff resources available to develop program.
			





## Climate Resiliency

## ACTIONS

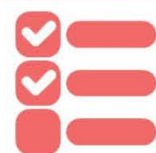


Complete sea level and flooding studies.



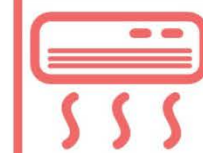
2020 = 2 studies

Incorporate climate risks into formal asset management, Capital Improvement Plans and implementation, and emergency management plans.



2020 = Planning and implementation

Have adequate and accessible cooling stations to address heat waves.



2020 = cooling stations

Use information from completed studies to modify development codes, ensuring safety and resiliency.



2020 = Improved safety and resiliency

Educate the public on risks of climate change and opportunities for climate resilience and adaptation.



2020 = Public education on climate





Identify which public infrastructures and facilities are at unacceptable risk from climate change; prioritize adaptations for these elements.



2020 = Assess infrastructure needs

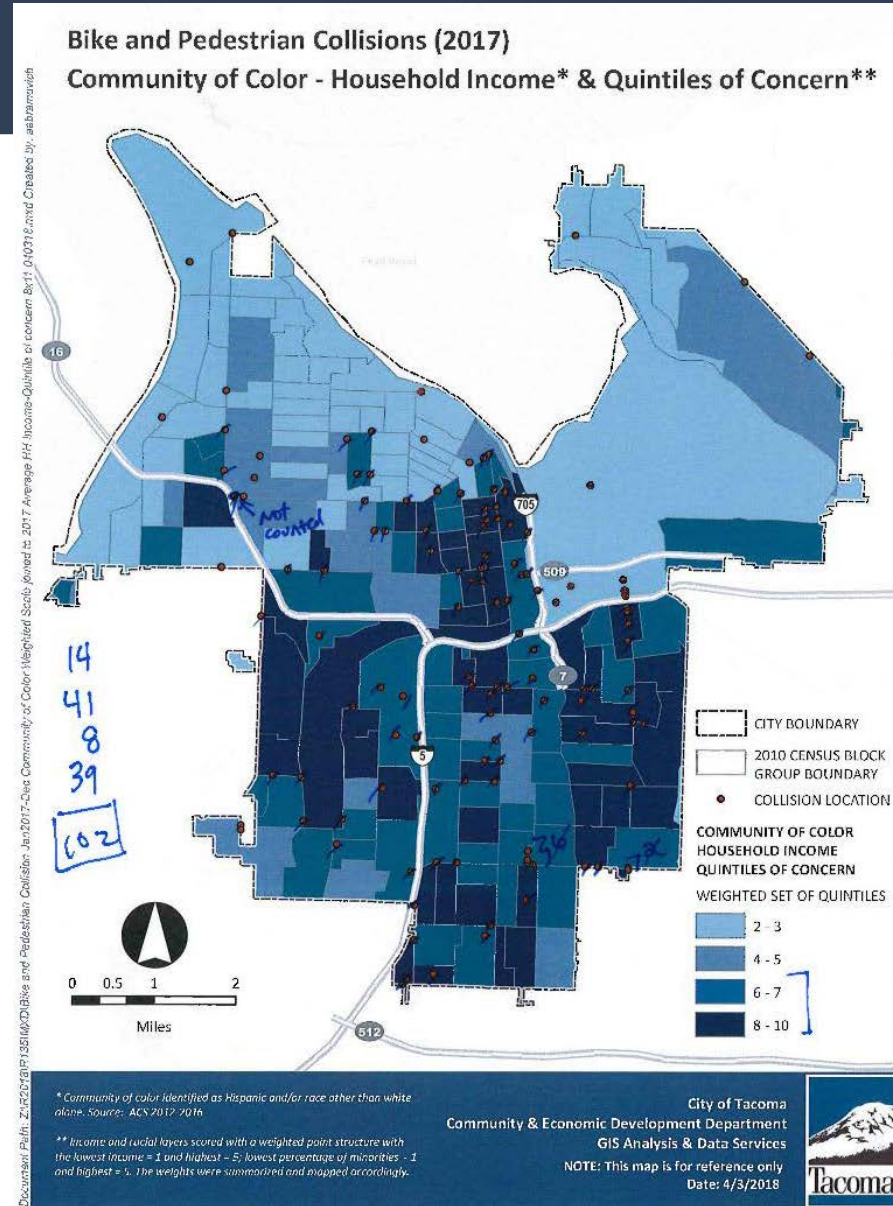




 Climate Resiliency		ACTIONS 	
	Action	Progress Rating (1-5)	2017 Status
C6	Ensure that near-term capital improvement projects consider climate change risks.	 3	Two areas of study for the WCRP grant (Tideflats and Ruston Way) will have capital projects. The teams are focused on potential associated impacts of sea level rise.
C10	Evaluate the development code related to landslide and flooding hazards.	 2	Postponed land use code updates due to numerous other high priority regulatory commitments by Council.

1: None 2: Little Progress 3: Some Progress 4: Good Progress 5: Completed

# Equity

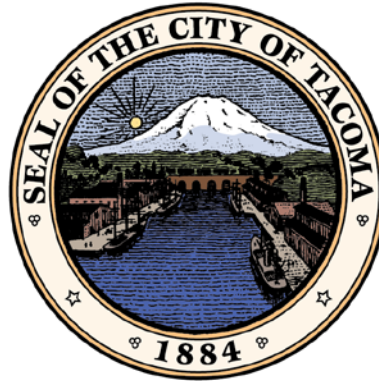




# NEXT STEPS



- Resource Conservation Manager hired this month
- Continue to implement actions
- Request funding and/or policies to advance actions



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