

Risk and Resiliency

SPU Risk & Quality Assurance Division

March 4, 2019

Tonight's Agenda

1. Resiliency Overview
2. What are we Doing?
3. Next Steps
4. Your Questions



Resilience is the ability to recover from setbacks, adapt to change, and keep going in the face of adversity.

At SPU, our goal is to evaluate and prepare for risks so that we can adapt and recover from impacts and continue to deliver essential services that protect public health, the environment, and Seattle's quality of life.

An Evolving and Vulnerable Region

Tremendous regional change

- Economic impacts
- Affordability concerns
- Disaster-vulnerable region
- Climate change impacts
- Changing markets
- Technological advancements





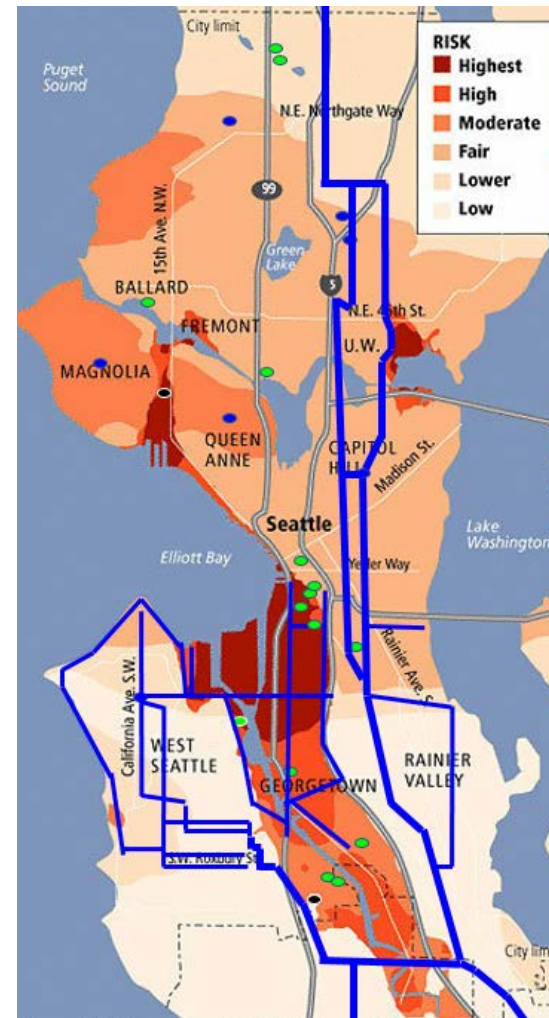
City Council Report

- Due June 30, 2019

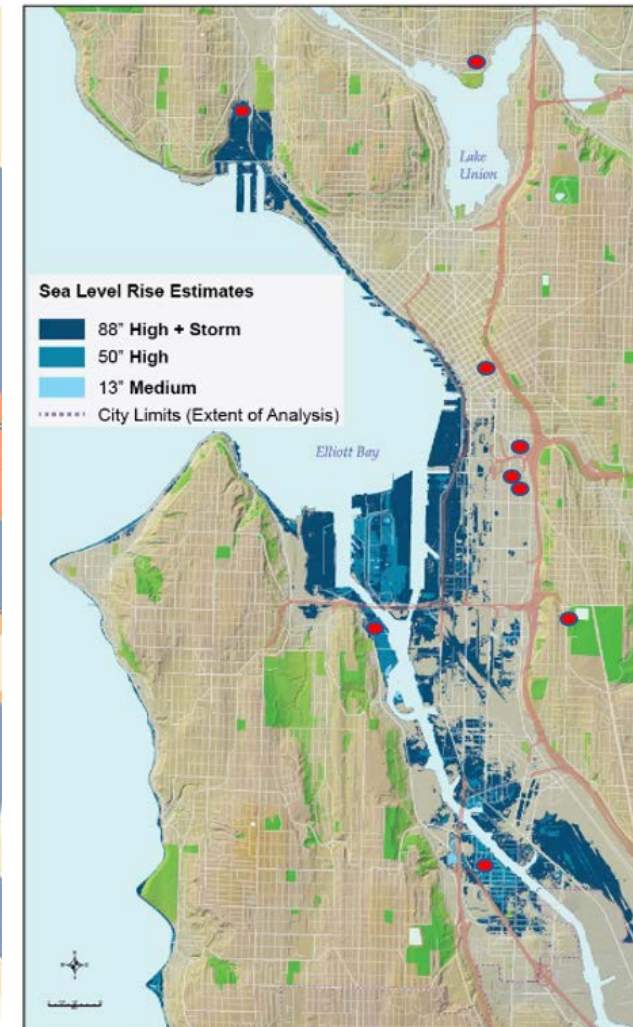
Goal is to Identify risks and Resiliency opportunities as well as progress made to-date

RSJ + Equity Toolkit

- Account for disparate impacts on Low Income, Communities of Color
- Consider how SPU's response to risk impacts communities differently



Seismic Ground Acceleration



2100 Sea Level Rise Projections

● ● SPU facilities

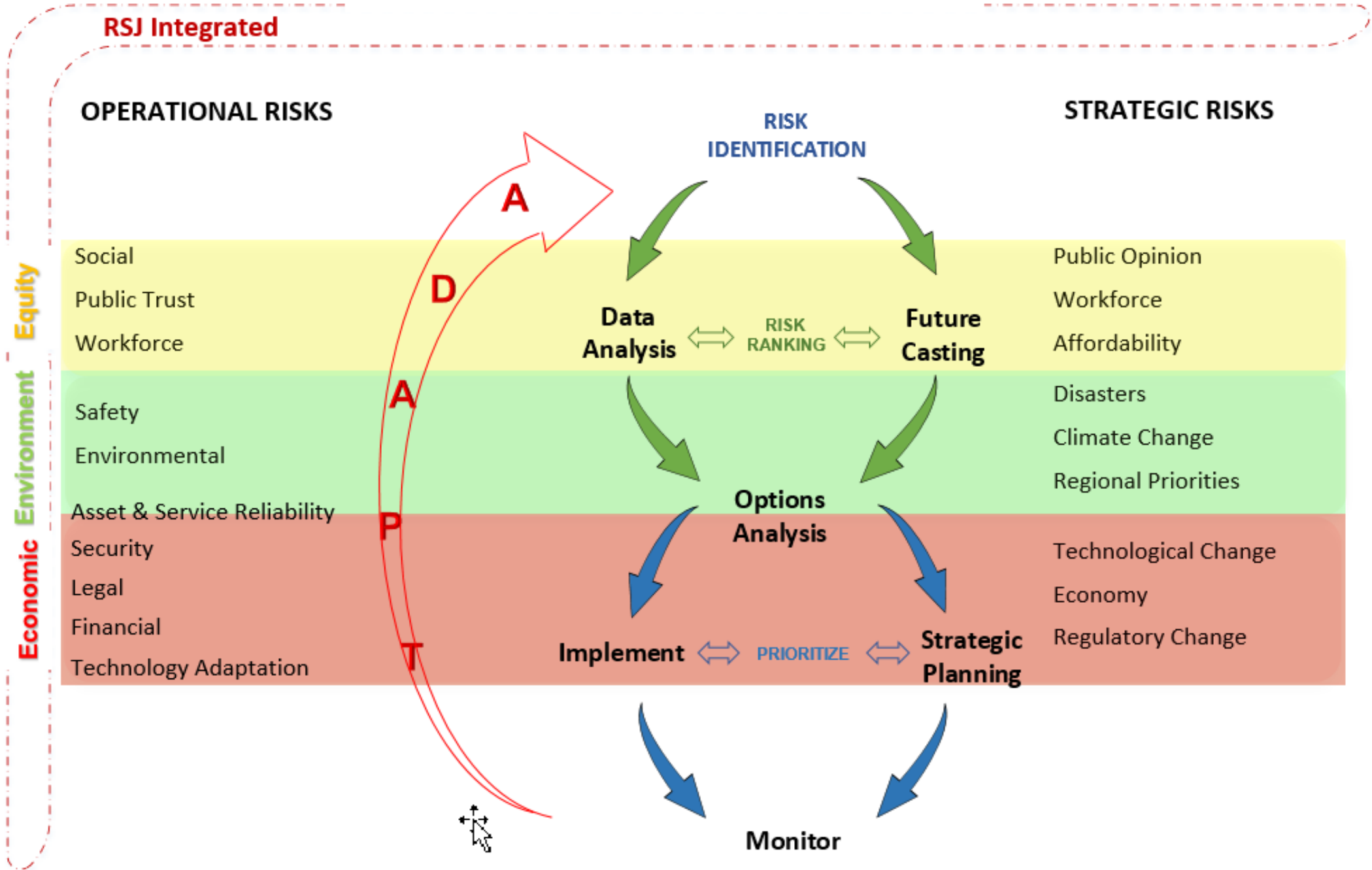
Toolkit Meeting # 1: 1/28

Toolkit Meeting # 2: 3/13

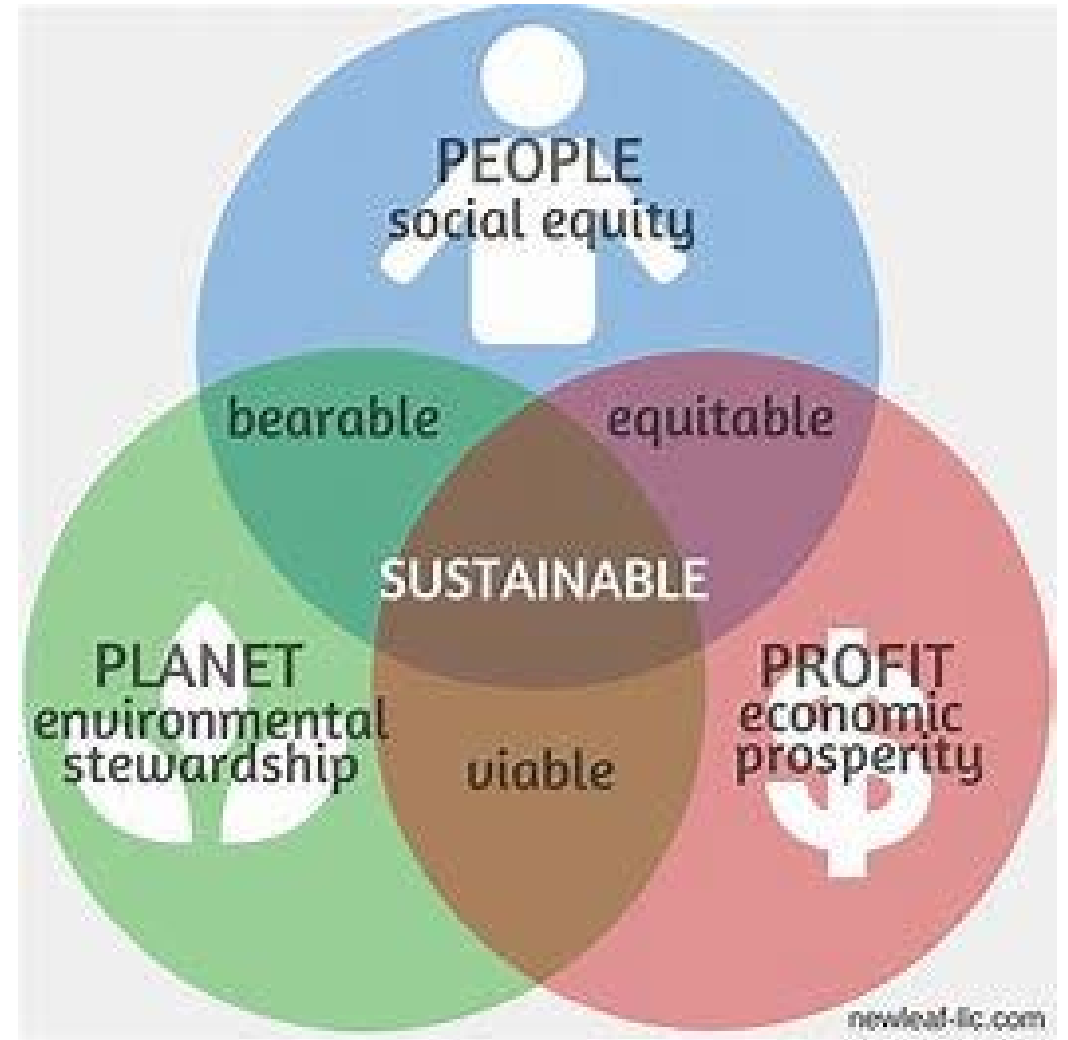
Toolkit Meeting # 3: late March

Climate Change	Disasters	Economy and Affordability	Marketplace	Regional & City Investment Priorities	Workforce	Technological Advancements
Drought	EARTHQUAKES	Population boom	Ability to site facilities	Voter-led initiatives	Skill availability	Advancements that drive obsolescence
Extreme downpours	Terrorism and vandalism	Bubble bust	Recycling markets (markets to accept goods)	Programs or projects initiated by other agencies	Loss of institutional knowledge	New H ₂ O treatment techniques
Sea level rise	Cyberattack	Loss of customers	Availability of raw materials for supplies	Regulatory mandate	Interest in govt sector	Advancements that drive independence
Wildfires	Volcanic eruption	Cost of Debt	Funds availability	Aging, substandard infrastructure and facilities	Speed of turnover	Speed of tech change driving costs & resource needs
Air quality degradation	Flooding	Affordability	Marketplace demand		Marketplace competition	Robotics and electronics that change operations
Temperature rise	High winds		Conservation impacts			
	Fires					

RISK & RESILIENCE FRAMEWORK



Options Analysis



Integrating Resiliency into SPU's work

Water System Seismic Plan

Water Supply Plan

Solid Waste Comprehensive Plan

Emergency Management Plans

Integrated DWW Plan

Facilities Master Plan

Solid Waste Comp Plan

- Currently working to integrate risk and resiliency into the Solid Waste Comprehensive Plan Amendment.
- Working with SPU departments to track interdependencies and how they are impacted by risks.

Next Steps

- Submit report to City Council
- Finalize Planning Manual
- Plan for the disparate impacts to communities
- Integrated resiliency in to various SPU plans and investments
- Work with individual SPU departments to improve resiliency efforts



Thank You

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