





	ioipate ioualy
File View Help ISX Audio Audio Mode: Use Telephone © Use Mic & Speakers MUTED 40 00000000 Audio Setup Questions Log	<ul> <li>Audio Modes</li> <li>Listen using Mic &amp; Speakers</li> <li>Or, select "Use Telephone" and dial the conference (please remember long distance phone charges apply).</li> </ul>
[Enter a question for staff]         Send         Webinar Now         Webinar Di: 429-384-699         GotoWebinar™	<ul> <li>Submit your questions using the Questions pane.</li> <li>A recording will be available for replay shortly after this webcast.</li> </ul>













# Geographically Driven Infrastructure Sustainability Concerns



Storm Surge / Sea Level Rise



Extreme Weather Events



Aging Workforce / "Brain Drain"





Economy and Population Dynamics

Hazen



Engagement



Infrastructure Age / Reliability



Water Resource Availability

Water Environ











# Category: Quality of Life



#### Wellbeing

- QL1.1 Improve Community Quality of Life
- QL1.2 Enhance Public Health and Safety
- New QL1.3 Improve Construction Safety
  - QL1.4 Minimize Noise & Vibration
  - QL1.5 Minimize Light Pollution
- New QL1.6 Minimize Construction Impacts

#### Mobility

QL2.1 Improve Community Mobility & Access QL2.2 Encourage Sustainable Transportation QL2.3 Improve Access & Wayfinding

#### Community

- QL3.1 Advance Equity & Social Justice
- QL3.2 Preserve Historic & Cultural Resources

Water Envir

- QL3.3 Enhance Views & Local Character
- QL3.4 Enhance Public Space & Amenities











Infra	struct	ure Sec	ctor Ap	plicab	ility
Water	Energy	Waste	Landscape	Transportation	Information
Treatment	Distribution	Solid Waste	Public Realm	Airports	Telecom
Distribution	Hydroelectric	Recycling	Parks	Roads / Highways	Cables
Storage	Coal	Hazardous Waste	Ecosystem	Bikes /	Internet
Stormwater	Natural Gas	Waste	501 11005	Pedestrians	Phones
Flood Control	Wind	Collection & Transfer	Natural Infrastructure	Railways	Data Centers
Nutrient	Solar		Environmental	Transit	Sensors
Management	Biomass		Remediation	Ports	
	Diolitidad			Waterways	Source: ISI
Hazen				•	Water Environment Federation the water quality people*



## Alignment with Other Frameworks



EPA's "Moving Toward Sustainability: Sustainable and Effective Practices for Creating Your Water Utility Roadmap"

Ten Core Management Areas

- 1. Utility Business Planning
- 2. Product Quality and Operational Optimization
- 3. Customer Satisfaction and Stakeholder Understanding & Support
- 4. Employee & Leadership Development
- 5. Financial Viability
- 6. Infrastructure Stability
- 7. Operational Resiliency
- 8. Water Resource Adequacy
- 9. Community Stability
- 10. Performance Measurement and Continual Improvement

Water Environ











ltem	Envision v2	Envision v3
Number of Credits	60	64
Maximum Total Points	809	1,000
Categories	5 Categories • Quality of Life • Leadership • Resource Allocation • Natural World • Climate and Risk	5 Categories • Quality of Life • Leadership • Resource Allocation • Natural World • Climate and Resilience
Envision Award Levels (based on % of applicable points earned)	20% - Bronze 30% - Silver 40% - Gold 50% - Platinum	20% - Verified 30% - Silver 40% - Gold 50% - Platinum



What's n	ew in En	visic	on Ve	ersio	n 3?
Project Size	Project Registration Fee	Project Veri Pathway A: Design + Post Construction		fication Fee Pathway B: Post- Construction	
		ISI Member	ISI Non- Member	ISI Member	ISI Non- Member
< \$5m	\$2,000	\$12,000	\$14,000	\$9,000	\$11,000
\$5m - \$25m	\$2,000	\$17,000	\$20,000	\$14,000	\$17,000
\$25m - \$100m	\$2,000	\$26,000	\$30,000	\$21,000	\$25,000
\$100m - \$250m	\$2,000	\$33,000	\$39,000	\$28,000	\$34,000
\$250m - \$500m	\$2,000	\$41,000	\$48,000	\$35,000	\$42,000
\$500m - \$1,000m	\$2,000	\$48,000	\$56,000	\$42,000	\$50,000
> \$1,000m	\$2,000		Contact IS	I for quote	e
Hazen				$\sim$	Water Environmer Federation

## What's new in Envision Version 3?

Item	ENV SPs That Received Their Credential Before 10/1/2017	ENV SPs That Received Their Credential After 10/1/2017
Action Required for Enrollment into Credential Maintenance Program	Must enroll prior to 10/1/2018	Enrolled automatically
Annual Cost for Credential Maintenance Program	\$80/year (paid by 10/1/2018) (\$50/year for ISI Members)	\$80/year (paid by 10/1/2019) (\$50/year for ISI Members)
Annual Education Requirements	7 hours/year • 2 hours prescribed by ISI • 5 hours users choice (ISI courses or activities and qualifying content provided by other industry entities)	7 hours/year • 2 hours prescribed by ISI • 5 hours users choice (ISI courses or activities and qualifying content provided by other industry entities)
When Access is Granted for Envision v3 Overview Webinar	After \$80 payment	Immediately
One-time 2-hour Online Envision v3 Overview Webinar	Viewing is required	Viewing is required









#### 2017 Public Works Strategic Plan Invest in Community Strategic Plan Framework Sustainability Vision Preserve the long-term well-being and the resiliency of our communities and the environment by investing in infrastructure, promoting, economically sound, socially, desirable, and environmentally healthy projects, programs, and $\odot$ G services. Hazen Water Environ

## Public Works' History with ENVISION

- Rating projects since 2011
- Over 100 projects rated

Hazen



er Envir

- 60% of projects qualified for an award level
  - 70% of qualified projects rated bronze or silver
  - 30% of qualified projects rated gold or platinum







		te - Envision Rating Ex	ercise*	POINT
1		PURPOSE	QL1.1 Improve Community Quality of Life QL1.2 Stimulate Sustainable Growth and Development	2
	3		QL1.3 Develop Local Skills and Capabilities	2
4 5 7	4 QUALITY OF LIFE	COMMUNITY	QL2.1 Enhance Public Health and Safety	2
	5		QL2.4 Improve Community Mobility and Access	4
	7	WELLBEING	QL3.3 Enhance Public Space	3
			TOTAL	14
		1		
8 9 10	8	COLLABORATION	LD1.1 Provide Effective Leadership and Commitment	17
	9		LD1.2 Establish a Sustainability Management System	7
	0		LD1.3 Foster Collaboration and Teamwork	15
	1		LD1.4 Provide for Stakeholder Involvement	5
rogrammatic	2 LEADERSHIP	MANAGEMENT	LD2.1 Pursue By-product Synergy Opportunities	6
Rating of Public	3		LD2.2 Improve Infrastructure Integration	1
	4	PLANNING	LD3.1 Plan for Long-term Monitoring and Maintenance	10
	5		LD3.3 Extend Useful Life	3
			TOTAL	64
Preservation <sup>16</sup> Program <sup>18</sup>	RESOURCE	MATERIALS	RA1.1 Reduce Net Embodied Energy	18
			RA1.3 Use Recycled Materials	14
			RA1.4 Use Regional Materials	10
			RA1.5 Divert Waste from Landfills	11
2	0 ALLOCATION		RA1.6 Reduce Excavated Materials Taken off Site	6
2	1		RA1.7 Provide for Deconstruction and Recycling	12
22 23 23 24		ENERGY	RA2.1 Reduce Energy Consumption	18
			TOTAL	89
		EMISSION	CR1.1 Reduce Greenhouse Gas Emissions	13
	4		CR1.2 Reduce Air Pollutant Emissions	2
			TOTAL	15
		Crond	total pointe	192
		Grand		102







# **Additional Uses of ENVISION**

- Planning Level Discussions (Specific Plans, Community Plans)
  - Incorporate sustainable principals into planning documents
- Evaluating existing County sustainability programs and policies
- Developing funding or grant proposals to regional, State, and Federal agencies
- Assisting with California Environmental Quality Act compliance







#### Hazen

#### Sun Valley Watershed Multi-Benefit Project

- 8 Components
- Sun Valley Park Drain and Infiltration System

Water Environ Federation

- Rory M. Shaw Wetlands
- Tuxford Green
- Elmer Avenue Neighborhood Retrofit
- Elmer Avenue Paseo
- Future Valley Steam Plant
- Whitnall Powerline Easement
- Sun Valley Recycled Water Line



#### SUN VALLEY PARK DRAIN AND INFILTRATION SYSTEM

# <section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>





























### Strengthening New York City DEP's Sustainability Through Programmatic Application of Envision

Erika Jozwiak, LEED GA, ENV SP NYC Department of Environmental Protection

> WEF Webcast May 31<sup>st</sup>, 2018

> > Water Er Federa



































































































