

My Journey

- 18+ years in the water/environment sector
- Lived in environmental justice communities
- Member of AWWA, Engineers Without Borders-USA, US Water Alliance, Water Environmental Federation, NACWA Environmental Justice Committee
- Co-founder and former member of a social justice design cooperative (JustDesign)
- Started and appointed to lead TYLin Equity
 Practice
- Co-founder and Chair of the NY Water Environment Association's (NYWEA)
 Diversity, Equity, & Inclusion Committee
- Avid explorer of cities





Definitions + Introduction to terms

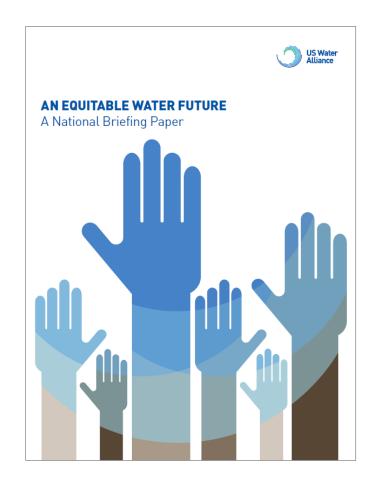
Defining Terminology

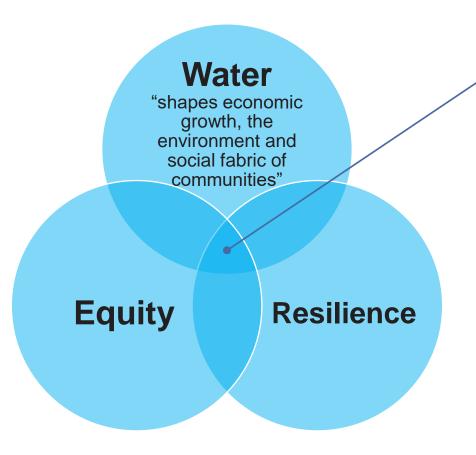
Community can be:

- Frontline communities
- -Community residents
- -Community-based organizations
- Local non-profits and advocacy groups
- -Community organizing and environmental justice groups
- Local businesses
- City agencies as stakeholders
- Vulnerable populations



Framing the Discussion



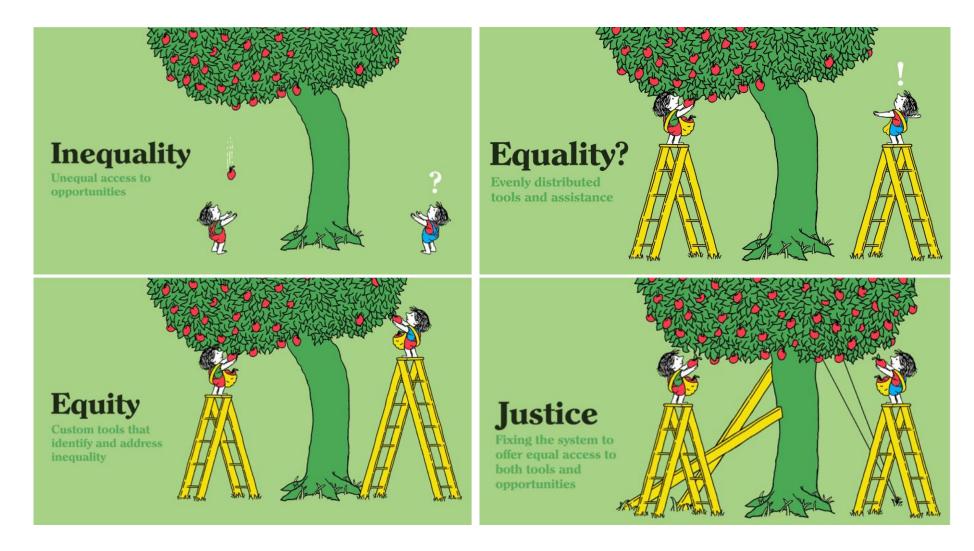


Water Equity is at the intersection and occurs when all communities:

- Have access to safe, clean, affordable drinking water and wastewater services
- Are **resilient** in the face of a changing climate – floods, drought, and other risks
- Share in the economic, social and environmental benefits of water systems and infrastructure
- Have a role in decisionmaking related to water management in our communities



Equity and Justice





Environmental Justice

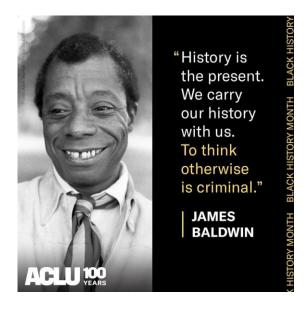
 Environmental Justice represents a commitment to ensure that a person's quality of life should not depend on who they are, where they live or their income.

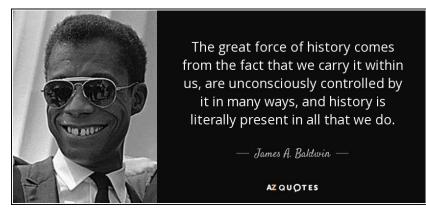
-This requires an intentionality to unwind previous environmental injustices that have resulted in disproportionate burdens on disadvantaged communities.



Our Sector's Role in Equity and Justice

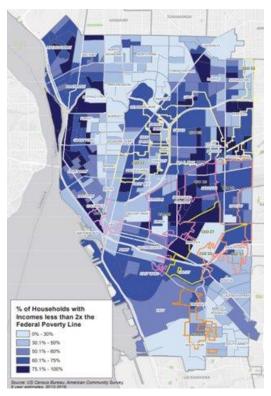
- Understand the historical legacy of decisions, policies, infrastructure investments / underinvestment
- Many of society's issues are intersectional,
 because our work, our decisions, and our fates are interconnected
- We cannot solve problems in isolation.
 Must take an intersectional,
 multi-disciplinary approach
- -We all can be designers of justice





How We Got Here:

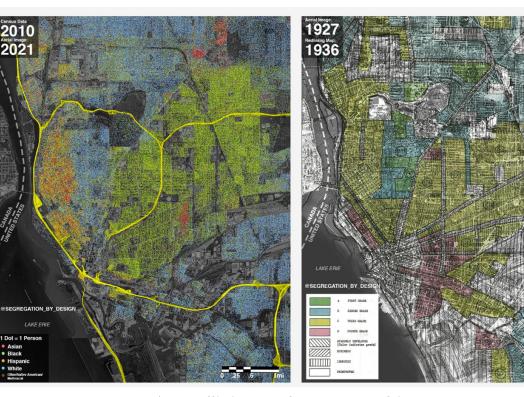
Equity & Justice - Understanding What's at Stake



► Buffalo Equity Index Map



► Freeways and Urban Renewal



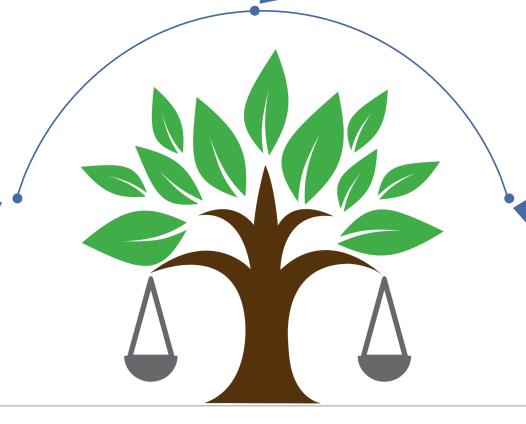
► Redlining and Demographics



Commitment to Water Equity Practices and Environmental Justice

Promoting equity within your firm and design approach, including recognition, equitable hiring practices and advancement opportunities

Infusing environmental justice and community benefits into the projects that we plan and design



Serving as pollinators to promote water equity practices and environmental justice to clients and industry peers, especially to non-networked clients

WHERE ARE WE NOW?

The Current Landscape of Equity & Justice in the Water Sector

Why Equity Indicators?





Measure progress and success through implementation and beyond



Establish baselines



in the progress of achieving the goals set out in the plan.



Promote diversity,
equity, inclusion and
justice in the
planning, design,
implementation

Equity Indicators + Desired Outcomes

Observation

Community Ownership

Capacity Building Healthy Communities Heritage Preservation

Sustainable Wealth Creation

New and Reformed Policy for Sustainable Development

Growth
Management
and
Neighborhood
Development

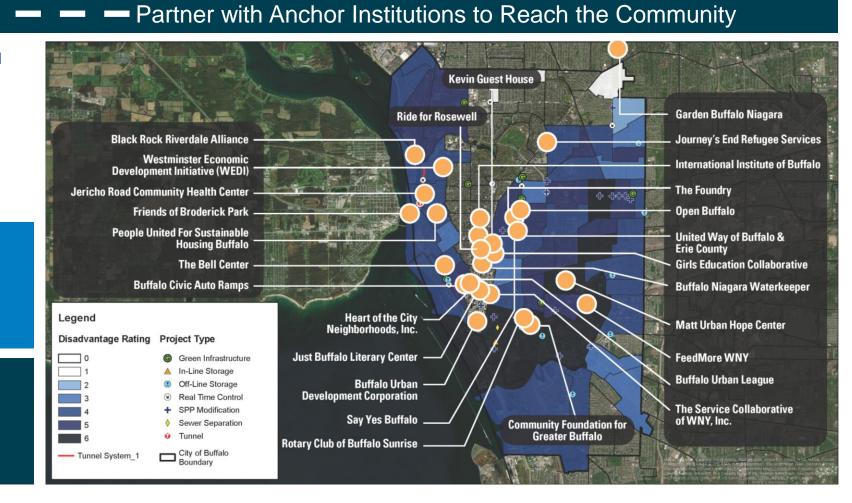


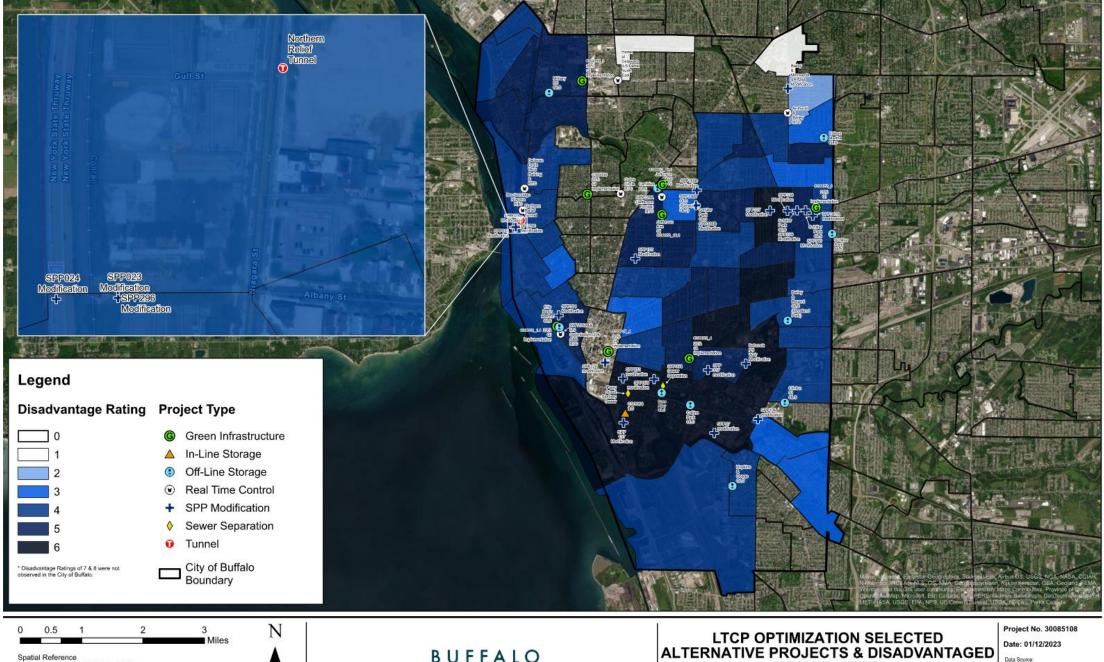
Discovery

Planning and Application

Build a strong Community Benefits
Stakeholder Review Committee –
comprised of community leaders and
residents

Accountability + Transparency: Indicators, representation, how are resources distributed and made available





Spatial Reference Name: NAD83 New York West ftUS PCS: NAD83 New York West ftUS GCS: GCS North American 1983 Datum: North American 1983

Projection: Transverse Mercator

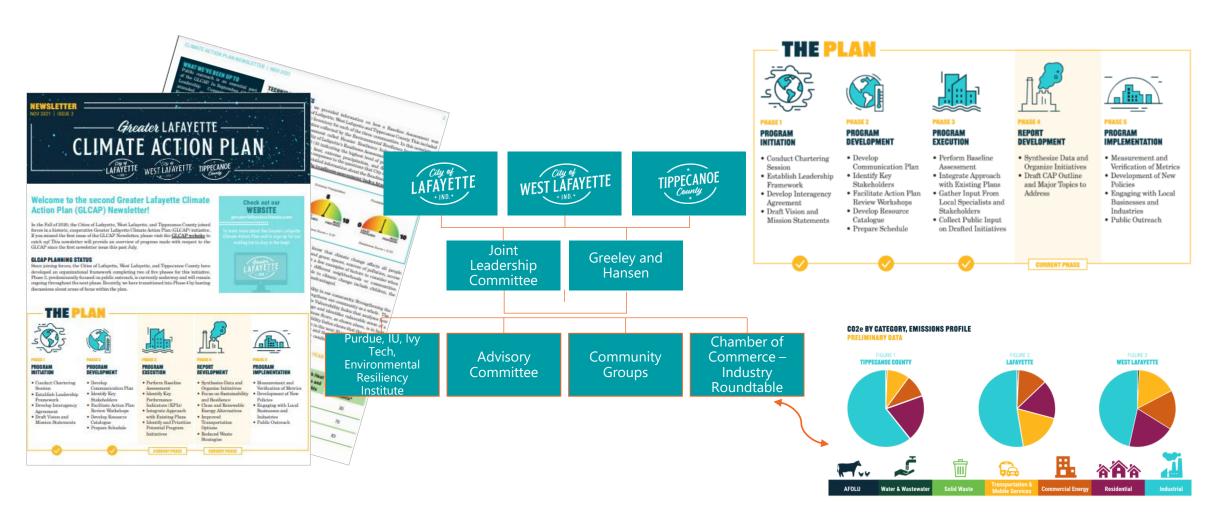


BUFFALO SEWER AUTHORITY

COMMUNITIES

Data Source:
Disadvantage Ratings Layer - Climate and Economic Justice Screening tool(CEJST) https://screening.tool.geoplatform.gov/en/#3/33.4/P-97-5 rder#overview

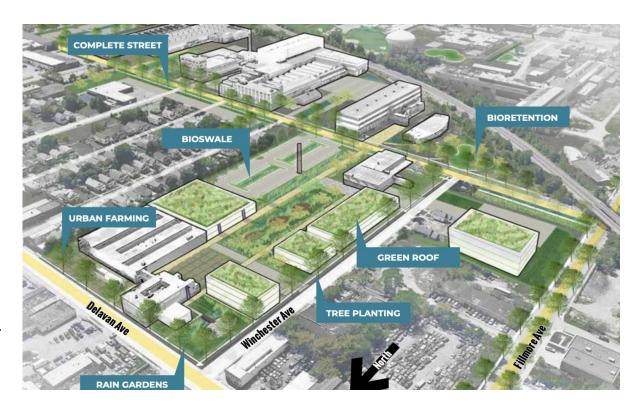
COMMUNITY ENGAGEMENT AND PARTNERSHIPS





AFFORDABILITY AND INNOVATIVE FUNDING FOR EJ

- Buffalo Sewer Authority \$54 million
 Environmental Impact Bond (EIB)
 issuance in June 2021, the country's
 largest to date, to finance green
 infrastructure and stormwater
 mitigation projects as part of its Rain
 Check 2.0 initiative.
 - mitigates heat stress, enhance community benefits and partnerships, creation of green jobs.
 - RainCheck 2.0 features an Equity Index
- Financial Capability Assessment (FCA) ratepayer affordability
- Securing **funding** for additional LTCP infrastructure investments through SRF, BIL, WQIP

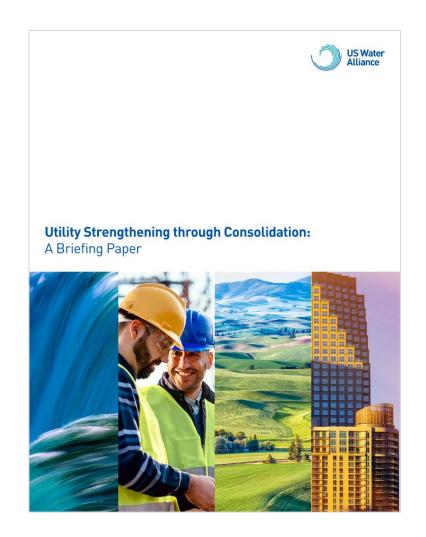




WATER QUALITY AND WATERSHED MANAGEMENT

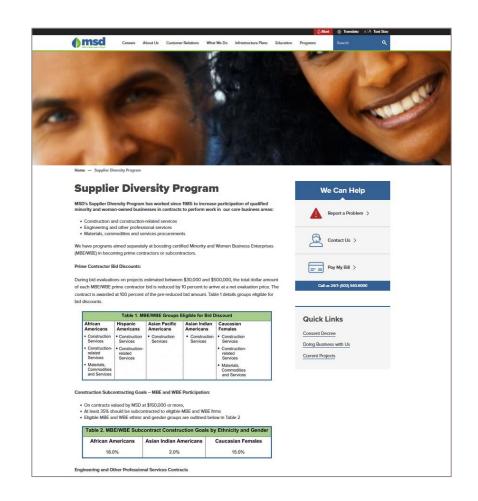
- Utility Strengthening Through Consolidation
- -City of Joliet
 - Cost service
 - Water equity as a driver of consolidating and centralizing water utility infrastructure
 - Sustainable solutions to water infrastructure challenges



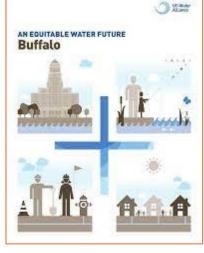


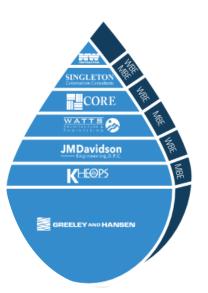


WORKFORCE, CONTRACTING, AND SUPPLIER DIVERSITY





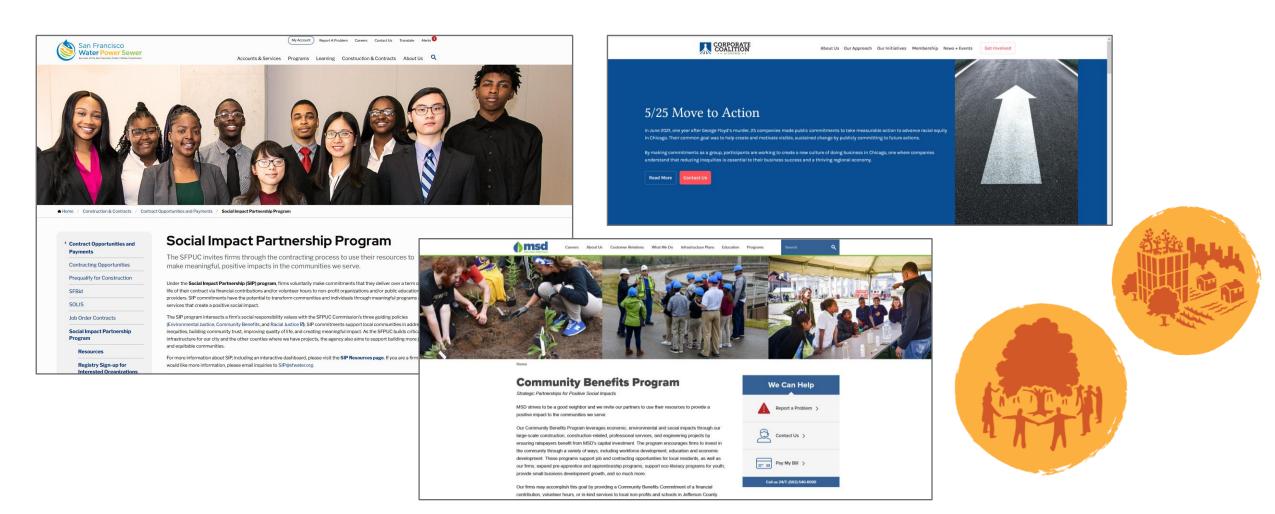






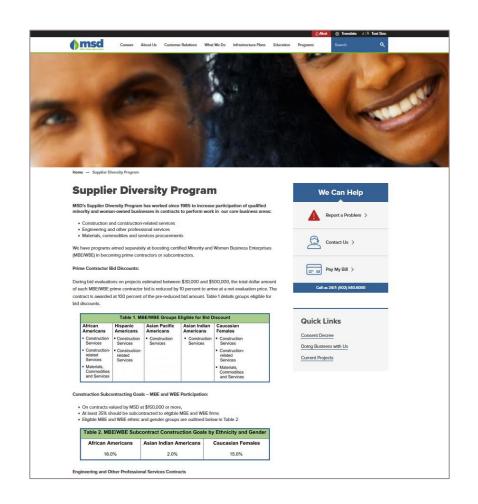


CIVIC ACTION, SOCIAL IMPACT, AND COMMUNITY BENEFITS

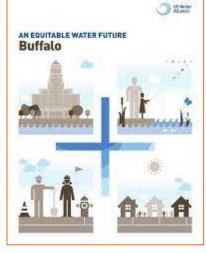


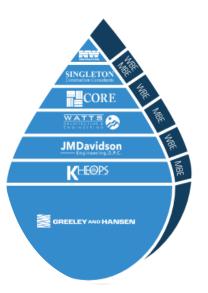


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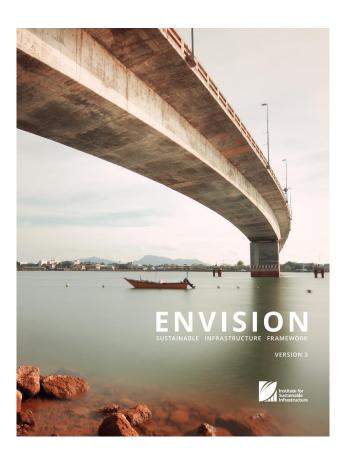








Water Equity in Practice: Design Framework





INTENT METRIC sustainable development, including job operating capacity, access, quality, and/ LEADERSHIP: ECONOMY

IMPROVED

LEVELS OF ACHIEVEMENT

IMPROVED A + B

(3) Active Engagement

IMPROVED	ENI
A + B	А
(3) New Capacity	(6) Imp

LD3.3 Conduct a Life-Cycle Economic Evaluation



INTENT (5) Life-Cycle Cost Analy

included in stakeholder engagement, project team commitments, and decision making.

METRIC

LEVELS OF ACHIEVEMENT

IMPROVED	ENHANCED	SUPERIOR	CONSERVING	RESTORATIVE
A + B + C	A + B + C + D	A + B + C + D + E	A + B + C + D + E + F	A + B + C + D + E + F + G
(3) Understanding Equity	(6) Mitigation	(10) Empowerment	(14) Equitable Access to Benefits	(18) Equitable Futures





The Equity in Infrastructure Initiative planning process includes four phases:



1. Onboarding and Assessment (March – April 2022)



2. Listening, Learning, and Making Meaning (May – December 2022)



3. Crafting the Framework (January – March 2023)



4. Supporting Implementation (March – May 2023)



FOR Green Stormwater
Infrastructure Practitioners







EJ Clearinghouse

Use the filters provided below to narrow your search to a specific category, or "reset" to view all EJ Clearinghouse information.

Access Subject Matter Expertise			ying for Assista	ince		
Available Funding	Develop Organizational Capacity				Justice40	
Public Participation	Publications Scree		Screening a	ing and Mapping Tools		
What is EJ						
			Reset Sea	arch:		

SPECTRUM OF COMMUNITY ENGAGEMENT



INFORM

To provide the public with balanced and objective information to assist them in understanding the problem, alternatives and/or solutions.



CONSULT

To obtain public feedback on analysis, alternatives and/or decision.



INVOLVE

To work directly with the public throughout the process to ensure that public concerns are consistently understood and considered.



COLLABORATE

To partner with the public in each aspect of the decision including the development of alternatives and the identification of the preferred solution.



EMPOWER

To place that final decision-making in the hands of the public.

We will keep you informed.

We will keep you informed, listen to and acknowledge concerns and aspirations, and provide feedback on how public input influenced the decision.

We will work with you to ensure that your concerns and aspirations are directly reflected in the alternatives developed and provide feedback on how public input influenced the decision.

We will look to you for advice and innovation in formulating solutions and incorporate your advice & recommendations into the decisions to the maximum extent possible.

We will implement what you decide.





Actions + Desired Outcomes

Call For Action: Partnership and Innovation are Needed



- Challenge ourselves, be accountable, share our stories, build coalitions
- Internal culture: Employee Impact/Resource Groups, Affinity groups
- Cross-sector, multi-dimensional team of partners and co-designers: engineers, architects, planners, academia, policy experts, finance, public health professionals, and organizers
- Private sector can support the public sector, and water industry in general, to strengthen to diversity, equity, inclusion, and belonging in the water workforce
- Water equity and environmental justice are core values and pillars threaded in all the work we do

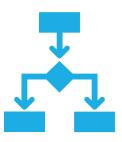
Building A Roadmap



Purpose: Proactively seeking to **eliminate inequities** and **advance equity**



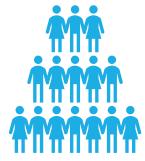
Identifying who will benefit or be burdened by a given decision



Appropriately **resource staff** and identify **Equity Practice Champions** for project/initiative/policy implementation



Examines mechanisms for successful **implementation and evaluation of impact**



Ensures **community is engaged** in decision-making processes



Is actionable and has a target completion or reporting date



What We Can Do Now – Resilient and Equitable Approaches

- Community engagement and collaboration
- Regional collaboration and shared services
- Rate Affordability
- Innovative Funding
- Ensuring Opportunities for Community in our Work
 - Workforce Development
 - Contracting Procurement
 - Community Wealth Building







Meaningful Inclusion of Local DBE/MBE/WBE Teaming Partners

Our Commitment to the Community Inclusion of City
Residents and
Members of
Historically Excluded
Groups

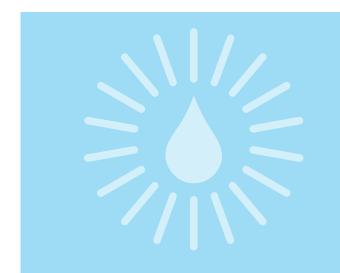
Community Benefits Programs and their Positive Outcomes

Advancement of a Robust Public Participation Plan

So...

- -What inspires you?
- –What is your vision for equitable outcomes?
- -Imagine / Reimagine... what can be possible?





This is Water's
Moment:
Reimagining an
Equitable & Just
Water Future
Together



Wrap-Up

Reflection Exercise





- What brought you to this session today?
- Water does Environmental Justice and Water Equity mean to you?
- Describe your community/service area. What do you see?
 (Think about landscape, built environment, how your city/town is connected)
- What challenges or potential opportunities to maximize community impact have you seen on your projects from an equity/EJ perspective?
- How can organizations serve as Equity and Justice champions?

Additional References & Recommended Reading

- <u>A Promising Water Pricing Model for Equity and Financial Resilience</u>. (US Water Alliance, 2023)
- Racial Equity ToolKit for Utilities (US Water Alliance, 2022)
- Water Equity Taskforce: Insights for the Water Sector (US Water Alliance, 2021).
- US Water Alliance, Louisville Water, and Louisville MSD. <u>Modern, Effective, and Compassionate Billing</u> (US Water Alliance, 2021).
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- Angotti, Tom. *Transformative Planning*. Black Rose Books, 2020.
- Davis, Veronica O. Inclusive Transportation: A Manifesto for Repairing Divided Communities. Island Press, 2023.
- Flowers, Catherine Coleman. Waste: One Woman's Fight Against America's Dirty Secret. The New Press, 2020.
- Rothstein, Richard. The Color of Law: A Forgotten History of How Our Government Segregated America. Liveright, 2018.
- Stevenson, Bryan. *Just Mercy: A Story of Justice and Redemption*. One World, 2015.
- Thomas, Leah. The Intersectional Environmentalist. Voracious, 2022.



Thank you!

Walt Walker, PE, ENV SP

- Vice President, Equity Practice Leader
- Chair NYWEA DE&I Committee



walt.walker@tylin.com



212.693.9577



(in) www.linkedin.com/in/waltwalker/

