Growing Green Infrastructure Initiative: Program Update
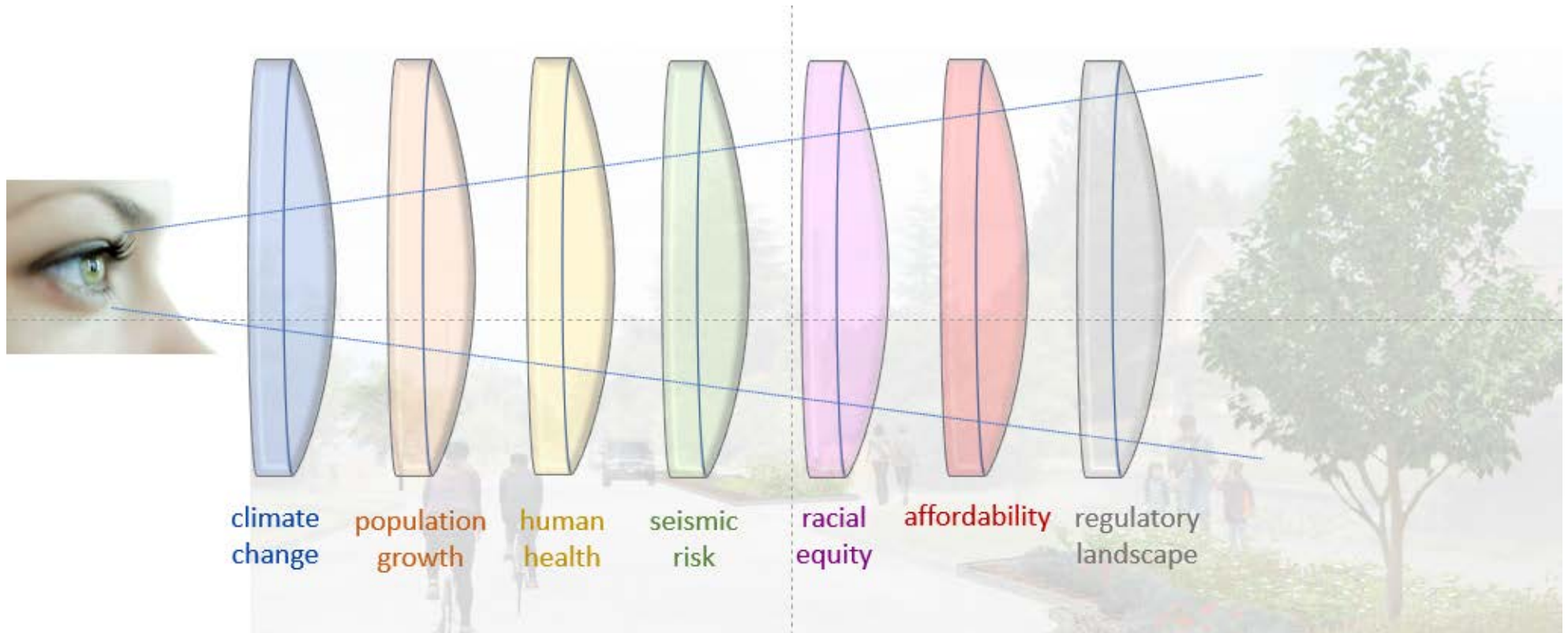
Customer Service Panel 9/14/2020

City of Seattle

Growing GSI: Goals

- Decrease **impact of polluted runoff to water quality** in our creeks, lakes, the Duwamish River, and Puget Sound

- **Reduce CSO, flooding, and SSO/back-up risk and incidence** by preserving or improving system capacity

- **Deliver a range of risk reduction + community co-benefits** with DWW system investments, optimizing overall value per cost

City of Seattle

Growing GSI Initiative: Principles

climate change • population growth • human health • seismic risk • racial equity • affordability • regulatory landscape

- Leverage GSI investment to achieve expanded community outcomes
- Bias toward action / prototyping / learning

City of Seattle

"We need to start thinking of these habitats as potential first lines of defense"

- Siddharth Narayan, Civil Engineer, University of California Santa Cruz

- Army Corps estimates that $21.7 billion in flood damages was saved each year from 1993 to 2002 from green infrastructure

- Every $1 invested in flood damage reduction saves $6.35 in flood damages

- Green infrastructure is often the most cost effective option (and comes with a whole lot of other benefits to communities!)

The Nature Conservancy
Washington

GSI Focus for Seattle: Achieve stormwater goal w/ focus on Supporting Community and Growing Partnerships
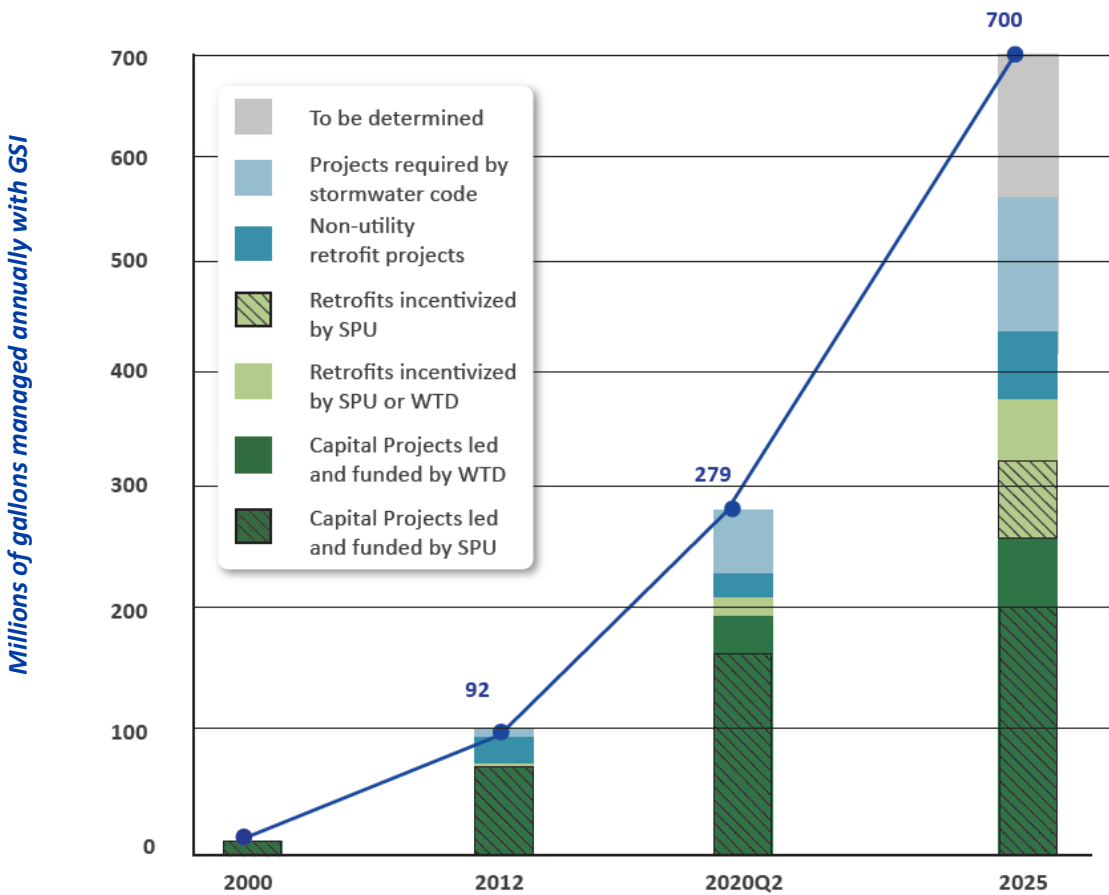
Installation Pathways:

Code-Required

Non-Utility Led

Utility Incentives

Utility Capital Projects

Millions of gallons managed annually with GSI

Legend:
- To be determined
- Projects required by stormwater code
- Non-utility retrofit projects
- Retrofits incentivized by SPU
- Retrofits incentivized by SPU or WTD
- Capital Projects led and funded by WTD
- Capital Projects led and funded by SPU

Values on line: 700 (2025), 279 (2020Q2), 92 (2012)

X-axis: 2000, 2012, 2020Q2, 2025

To increase GSI within City of Seattle, SPU's focus includes efforts to remove barriers to voluntary installations and incentivize partner-led projects.

Projects in development

Utility-led capital projects

w/ Seattle Parks & Recreation
Lake City Floodplain Park
Fauntleroy Creek Culvert

w/ SDOT
Longfellow NDS
Thornton South NDS

Community Identified
Cloverdale Swale

TBD; anticipate multiple partners
Longfellow Starts Here
Crown Hill GSI
South Park WQ Facility

Utility Incentivized Partner-led projects (beyond RainWise)

Seattle Parks & Recreation (SPR)
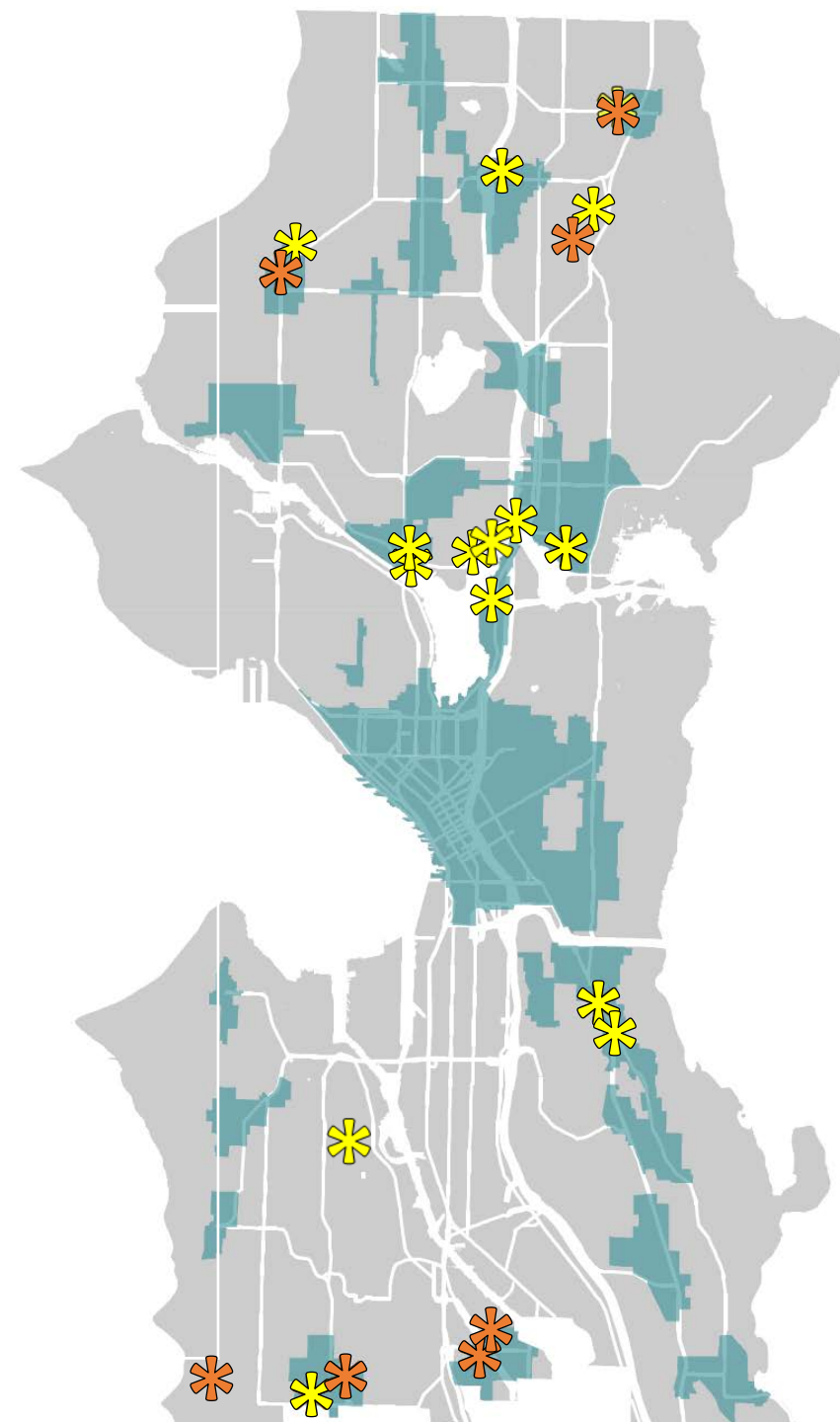Terry Pettus Park

SDOT
12th Ave NE

Community or NGO
Roxhill Bog restoration
Clean Lake Union Projects
I-5 Ship Canal Bridge North
Kubota Gardens (w/ SPR)
Noble First HOA

Affordable Housing Providers
Jazz House
Northgate Commons
Mt. Baker Station Area

Other Developers
UW South Campus
Queen Mary Rowhouses
Fairview @ E Martin St
Latona Development

6

NEW GSI Incentive Program

COMMUNITY-DIRECTED
WORKFORCE DEVELOPMENT-COMPATIBLE

Growing GSI: Priorities + Tactics

EXPAND OUR TOOLBOX

BEST MANAGEMENT PRACTICES

Innovative application of available technologies

Research partnerships to accelerate new tools

DELIVERY MODES

Expand programmatic options for voluntary retrofits

Prototype Crew-built O&M modification projects

GROW PARTNERSHIPS

ON PUBLICLY-OWNED LAND

Joint projects with SDOT (Shanti)

Co-acquisition + develop with Parks

Schools and affordable housing

WITH PRIVATE INVESTMENT

Voluntary projects

Align with Redevelopment Opportunities

Funding the whole-project gap

SUPPORT COMMUNITY

HEALTH – RACIAL EQUITY – ART – WEALTH

Align with and advocate for community goals

GSI workforce development

Center EJ within the development of programs and projects

REMOVE BARRIERS

POLICY – LEGISLATION – SPU VALUES

Approaches to facilitate voluntary GSI

Internal values and resources

Questions & Resources

www.700milliongallons.org

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