

Western Washington University Western CEDAR

Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference (Seattle, Wash.)

Apr 6th, 8:45 AM - 9:00 AM

Sound impacts: building an impact metrics portal for tracking collective positive impacts of restoration and green infrastructure across the Puget Sound

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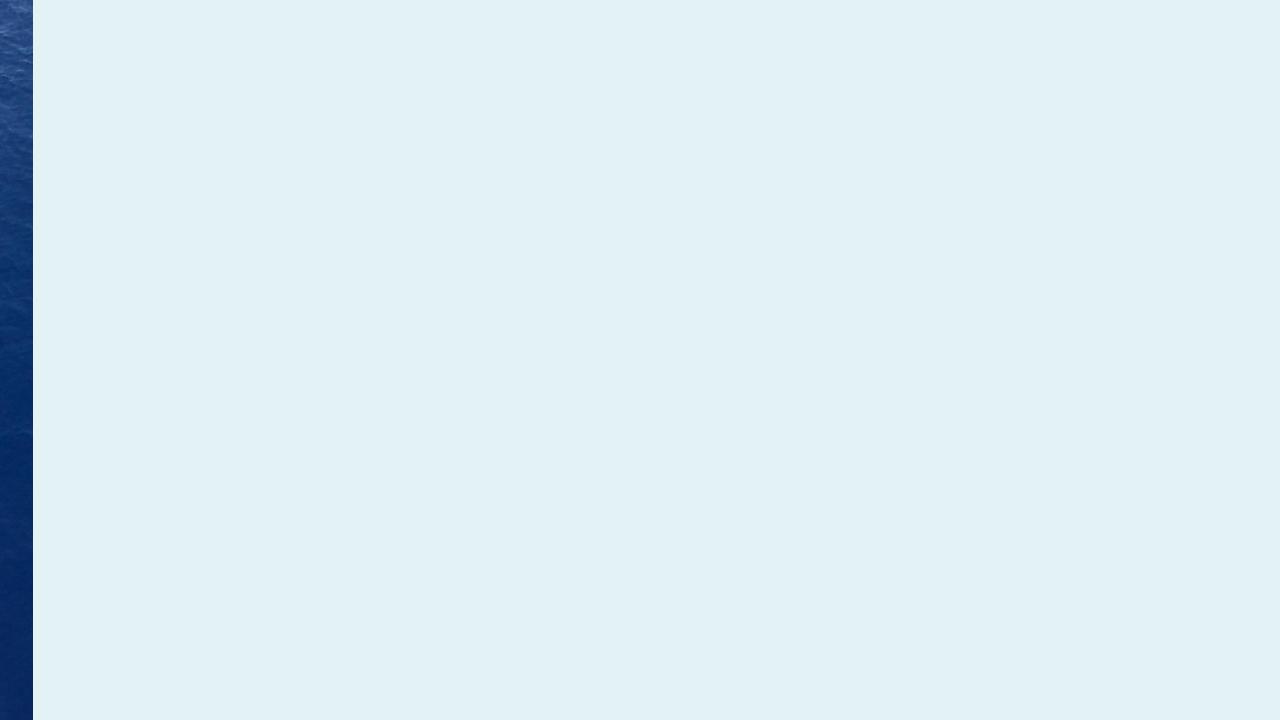
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Clark, Aaron, "Sound impacts: building an impact metrics portal for tracking collective positive impacts of restoration and green infrastructure across the Puget Sound" (2018). *Salish Sea Ecosystem Conference*. 447.

https://cedar.wwu.edu/ssec/2018ssec/allsessions/447

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SOUND MANAGEMENT OF THE SOUND

A Green Infrastructure Impact Metrics Portal

Aaron D. Clark Ph.D. Director of Strategic Parnterships





- The Salish Sea is in need of restoration and recovery.
- There are a lot of us working very hard for that goal.
- We all use science-based strategies to restore habitat, improve water quality, air quality, quality of life...
- Is it working?
- The vital signs aren't exactly improving.
- We need to work smarter.





- Environmental impacts are tracked by many different entities in different ways.
- Water quality, Salmon populations, Orca populations, Puget Sound Vital Signs, are tracked
- But effort and investments are not.





 If we don't track our efforts, how will we know if they are working?

How will we make them better?



• The Survey:

Impact Metrics Portal

- Why aren't we all collecting the same data?
- Why aren't we all reporting and sharing our efforts?
- What's the incentive to use an external reporting tool?
- How can self-reported data be used/ trusted for regional analysis.
- Collective ownership of the tool
- Clear and effective visualization tools (Tableau software)
- Transparency



"Retail Users"

- Orgs and agencies that engage in physical green infrastructure, and restoration activities.
- Web-based and Bulk upload spreadsheet options
- Create your own dashboard to track stormwater, carbon, habitat, and human impacts of your works: over time, over space
- See your "fingerprints" and your "footprints"

"Wholesale Users"

• Looking regionally to see where efforts are, where they are working, and connect the effort to the end of pipe impacts (is it working? What is working and where? → adaptive management)







Introduction

Sound Impacts is an online portal for all of the region's practitioners and implementers of Green Infrastructure as well as for anyone curious to see what efforts and investments are being made to protect and improve this region's natural assets.

Legend

Rain Garden, Bioretention, and Bioswale



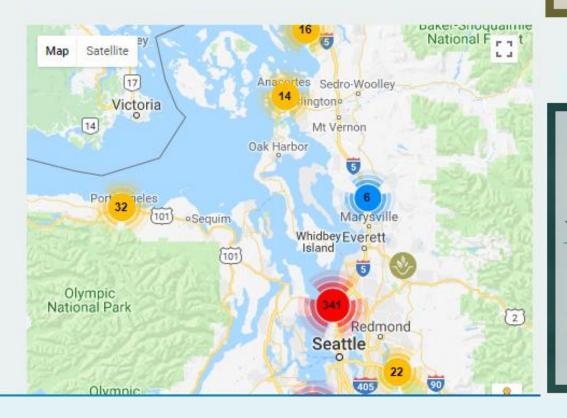




Permeable Pavement

Depaying Depaying

Reset Map





3,986

Rain Garden Projects

Total Square Feet 2,737,286

Earliest Project Date Jan, 2000

Latest Project Date Mar, 2018



64,748,163

Gallons Of Runoff Managed

Annual estimate based on the simple calculation:

square footage x annual rainfall x gallons conversion

For more detailed impact calculations, please visit the dashboard page.



Tree Planting Projects

Total Square Feet 381,935

Earliest Project Date Apr, 1990

Latest Project Date

Dec, 2017



11,198

Total Trees Planted

Total number of trees planted

SOUND IMPACTS

A Green Infrastructure **Impact Metrics Portal**

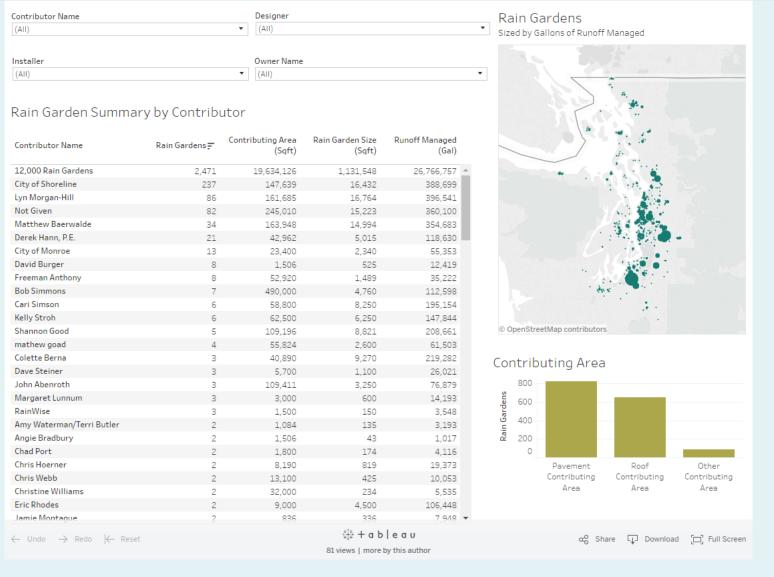


ABOUT

DASHBOARD

ADD A PROJECT -

DANIEL + Other Contributing Area





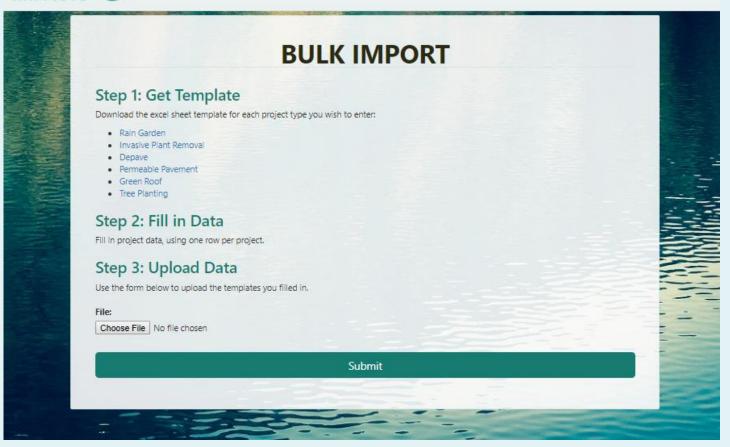
Adding Projects

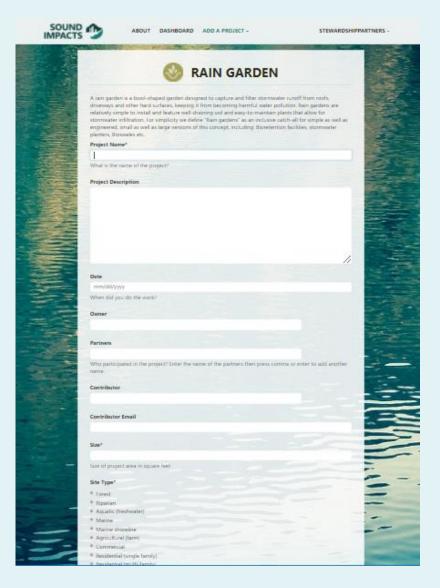
A Green Infrastructure Impact Metrics Portal



ABOUT DASHBOARD ADD A PROJECT -

STEWARDSHIPPARTNERS +

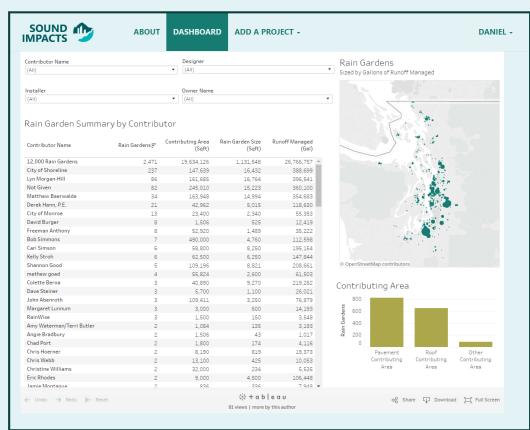


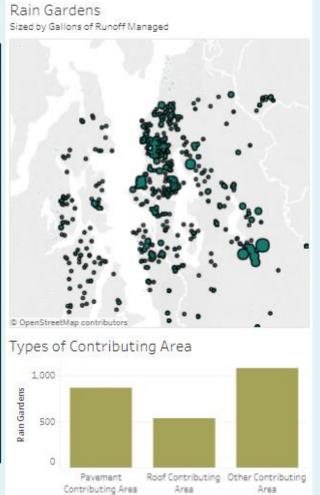




Viewing Impact

A Green Infrastructure Impact Metrics Portal











- Currently scheduling data import parties with partners
- Coming soon: travelling workshops
- 2019: Develop funding proposal and project team for a full Sound Impacts 2.0 build out and launch



The Future of Sound Impacts

- Beta version live now.
- For version 2.0:
 - More metrics (beta is focused on stormwater) add carbon capture, heat island effects, quality of life, air quality, human health...
 - Data transparency, public database (i.e. tableau public)
 - Make sure other tools can easily use Sound Impacts as a data layer
 - E.g. decision making tools like Trust for Public Land's OSAT tool or TNC's stormwater heatmap tool...



Sound Impacts Invites You to Discover Your Impact

Visit

www.SoundImpacts.org

To get started today

Contact me:

AC@StewardshipPartners.org

