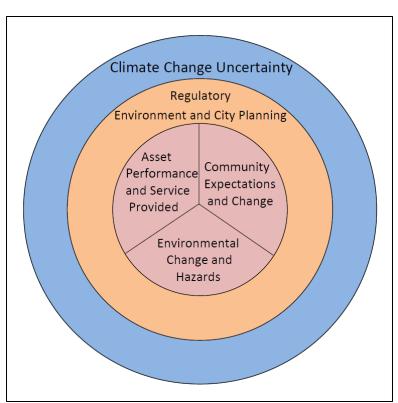
## Delivering Blue-Green Infrastructure:

An exploration of barriers and uncertainties surrounding the city-wide implementation of BGI facilities

Samantha Hamlin and Marissa Matsler Johnson Creek Science Symposium May 21, 2015



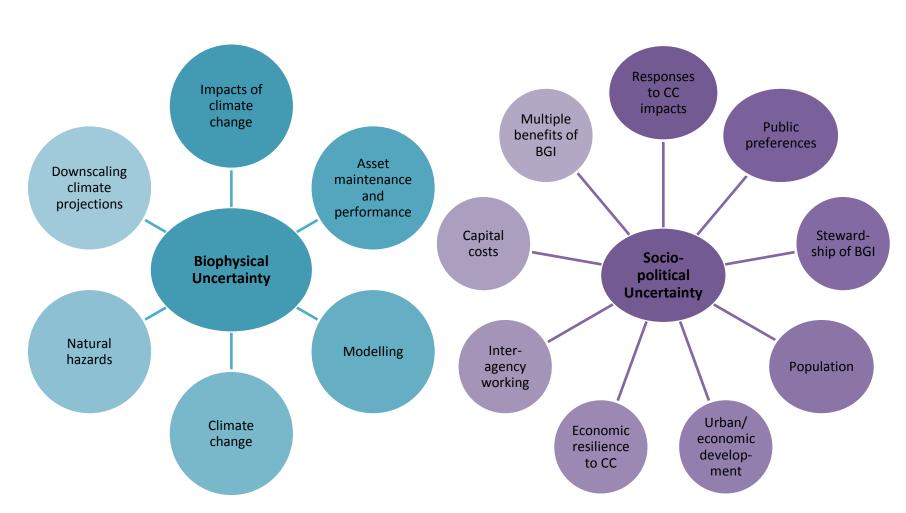
- Institutional midlevel managers and practitioners
  - BES
  - BPS
  - Metro
  - BoT





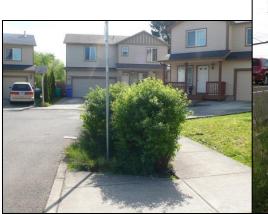
- Concerns and Challenges
- Uncertainties
  - Biophysical processes
  - Socio-political processes

# And uncertainties...



## What we did...









## What we found...

- Maintenance of facilities was a primary concern of residents
  - Attitudes appear influenced most strongly by site-specific physical and aesthetic characteristics
  - Trees perceived positively while rushes and grasses perceived more negatively
- General knowledge of bioswales is reaching some residents, but wider understanding of many **co-benefits** is lacking
- Resident **acceptance** of bioswales is multi-faceted
  - Trends lacking across age of installation
  - Positive reaction to program as a whole; mixed reactions to individual swales

### What's next?









#### **Green Street Stewardship Activities Chart**

After registering and adoptinging a Green Street use this chart to clarify your activities. See the how-to steps on the following pages.

Green Street	BES / Contractor Activity		Stewardship Activity	
Care and Maintenance Activity	2 year Establishment Phase	Long Term Stewardship Phase	2 year Establishment Phase	Long Term Stewardship Phase
Clear curb openings of leaves, trash, debris. Push aside sediment.	YES	YES	YES	YES
Remove trash	YES	YES	YES	YES
Clear top of overflow drain (do not lift the grate)	YES	YES	YES	YES
Water only during periods of drought	YES	YES	YES	YES
Remove Weeds	YES	YES	NO	YES (with training)
Trim Trees and plants	YES	YES	NO	NO
Remove or Replace plants and trees	YES	YES	NO	NO
Remove Sediment	YES	YES	NO	NO
Structural Repairs	To report damage or other repair needs call 503-823-1424			



from BES 2012 "Green Street Steward's Maintenance Guide" https://www.portlandoregon.gov/bes/article/319879



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