Improving Your Watershed Plans
with Maps and Community Involvement

AI abley

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**Insightful solutions.
Empowering advice.**

Our Watershed Plans

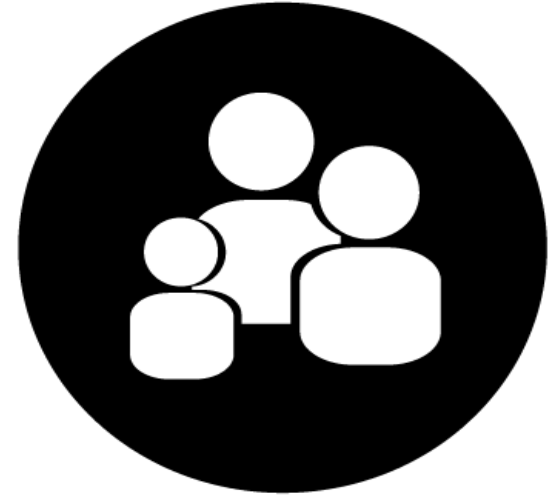A detailed review of the 10 integrated watershed catchments throughout the Auckland region

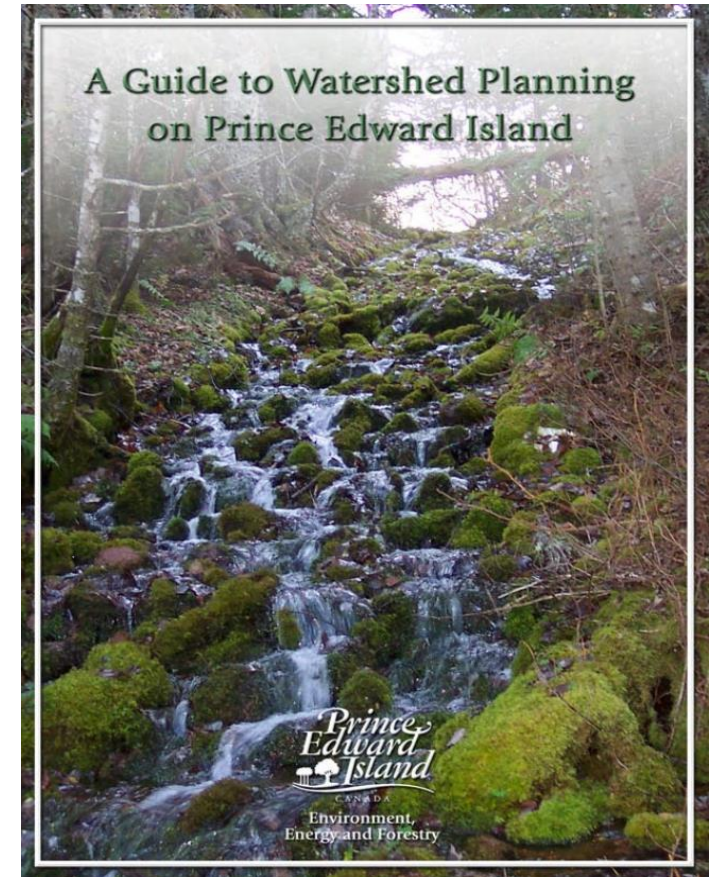**Community Groups**

Maps

General Public

Watershed Plans (WPs)

- ***Watershed:*** An area of land that drains or sheds into a receiving waterbody such as lake, river or harbour.

- ***Watershed Management:*** The process of implementing land use practices and water management practices within a watershed to protect and improve the quality of water and other natural resources.

- ***Watershed Management Planning:*** A planning process which forms a blueprint outlining how to best protect and improve natural resources within a watershed. Governments, local authorities, businesses and individuals are all part of the plan.

Department of Energy & Environmental Protection, USA

Community Driven Watershed Plans

- "…must be an *all-inclusive*, *community-driven* process designed to deal with the *issues* and *problems* in that watershed."

- "…planning process must be *transparent* and *open to participation* by all interested parties in order to build community buy-in and support for the process and the management plan."

- "…*communications strategy* is vital to keep residents *informed* and *up to date* throughout the planning process."
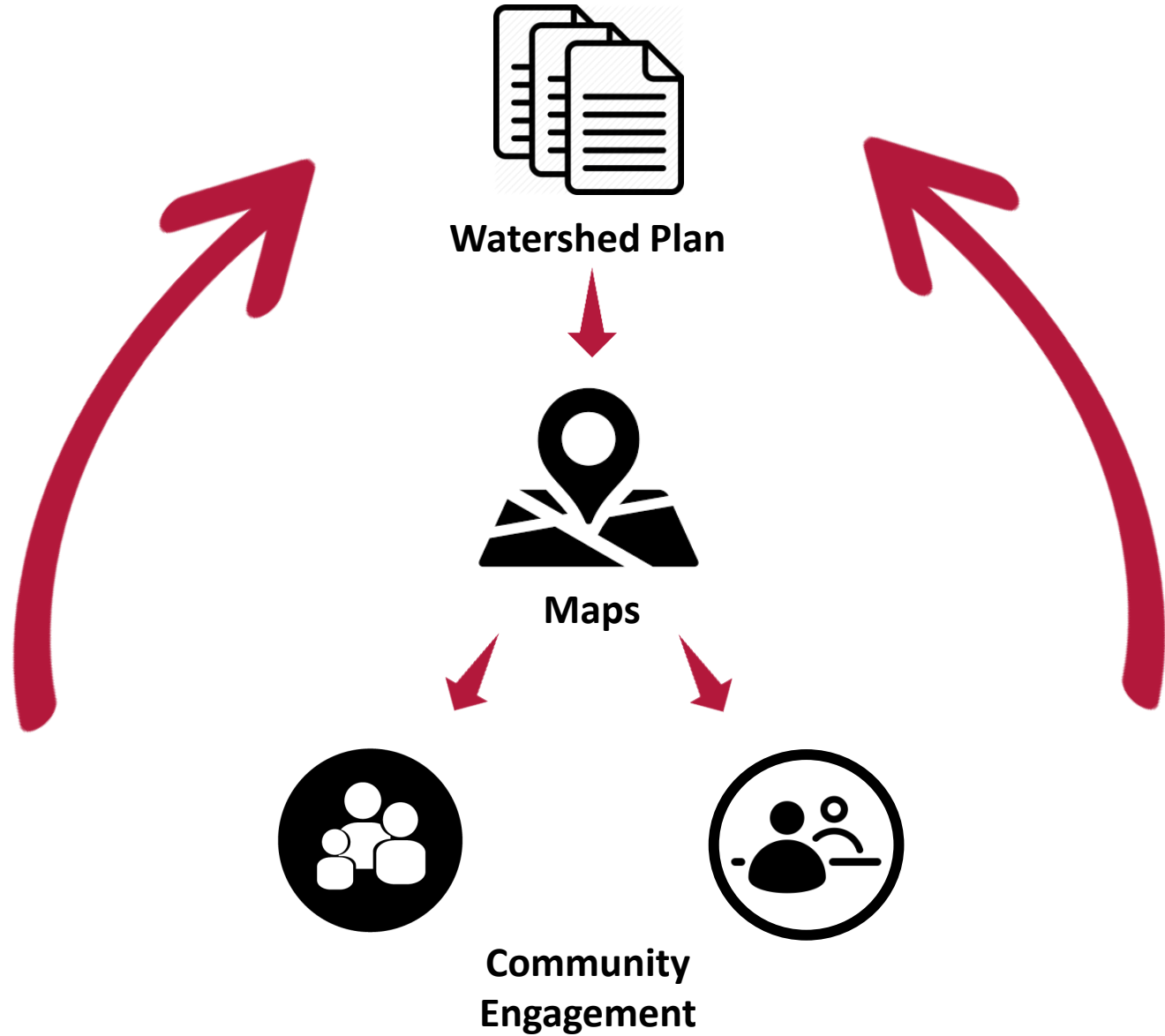

A Guide to Watershed Planning on Prince Edward Island - 2016
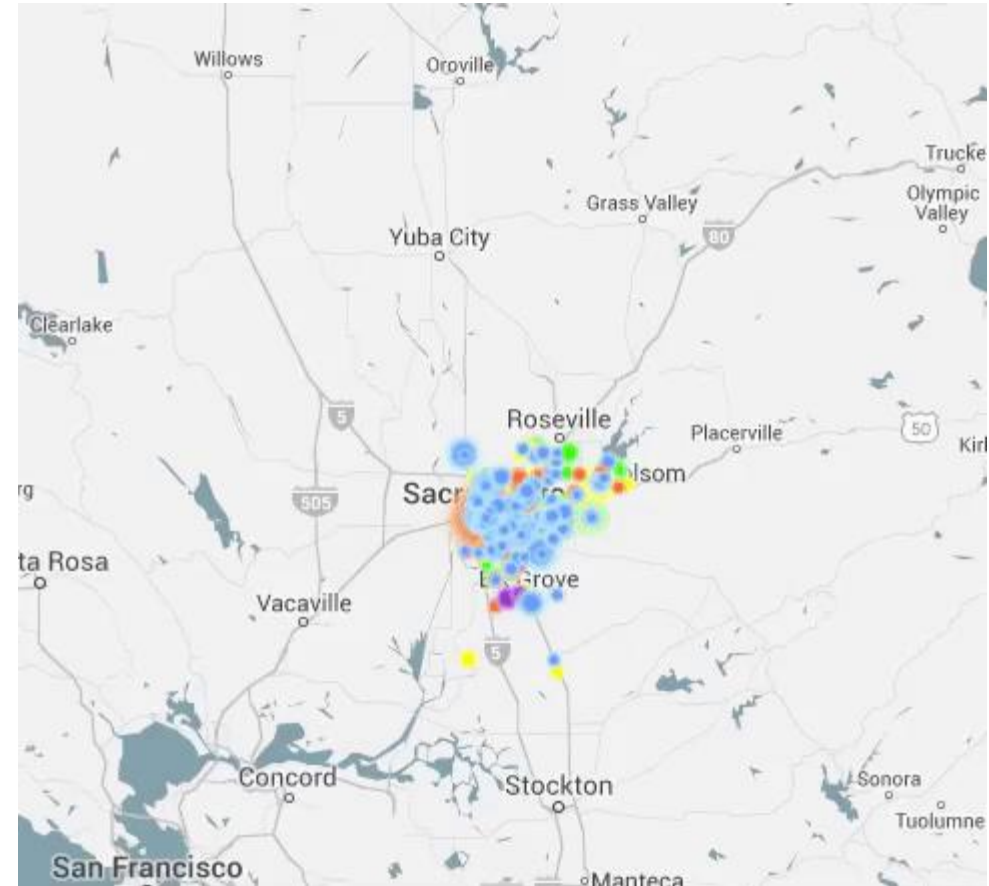
Why Use Maps?

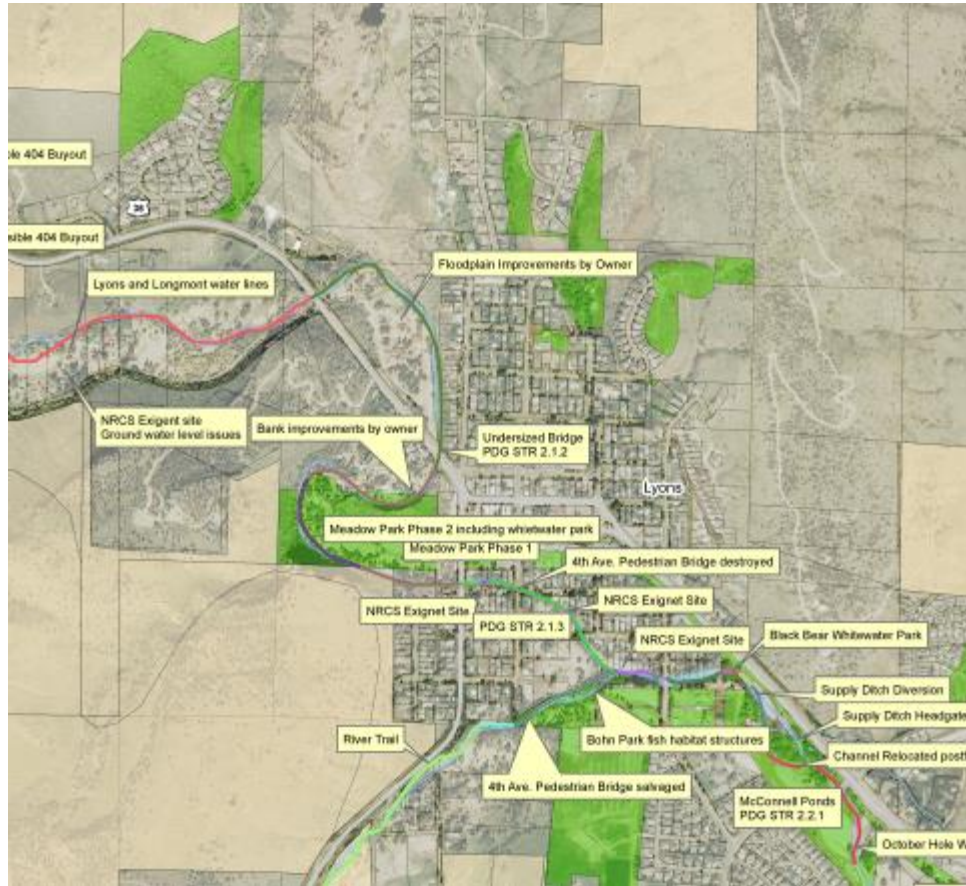- Watershed plans are spatial

    - Different *things* happen in different *places*

    - The *where* is just as important as the *what*

Why Use Maps?

- Maps are effective

  - Effectively *view* and *share spatial data*

  - Effectively *summarise* information within a *spatial context*

  - Effectively highlight *spatial* and *temporal trends*

  - Effectively *engage* with an *audience*

Watershed Plan

Maps

Community
Engagement

Maps: Static vs Interactive

Static Maps

- Difficult to update, making data currency problematic

- Difficult or expensive to distribute

- Can only contain a limited amount of information

- Technical content can be difficult to consume

- Often paper based resulting in multiple copies with different versions

- Difficult to collate feedback

Interactive Maps

- Interactive and engaging

- Can hold a lot of information in one place

- Easy to keep up-to-date with automated workflows

- Suitable platform for temporal mapping

- Integrate with connected devices (IoT)

- Easily Incorporate 3rd party data in a variety of formats

Demos

Summary

- Community involvement is a key component of the watershed management planning process

- Modern interactive maps can be used to facilitate community involvement

- Modern online maps can be used alongside emerging technologies which are already changing the way things are done

Questions?

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Demos

- https://geomapspublic.aucklandcouncil.govt.nz/viewer/index.html

- http://interpret.maps.arcgis.com/apps/Cascade/index.html?appid=6654888428094fecb5ad1d07f570f84f

- http://interpret.maps.arcgis.com/apps/opsdashboard/index.html#/0c5904bd838f4bbfbe7db764df2fe05c

- https://survey123.arcgis.com/share/bf153a3aa2094b7abb3a5dfd6f0439e9

- http://interpret.maps.arcgis.com/apps/opsdashboard/index.html#/5cdbd702f32e493f94a30579865fd8ee