




**BELLEVUE COLLEGE  
BUSINESS SUSTAINABLE  
PRACTICES**

PRESENTED BY  
ROB MCFARLAND

September 2013





How do we go from intellectual desire for sustainability in business to actual practice?



**SUSTAINABLE BUSINESS BEST PRACTICES CERTIFICATE**

- 19 credits
- Certificate of Completion
- All Classes available online
- Four classes answer essential questions about sustainable business
- Finish in 6-12 months, part time



What we do is what we become

**SUSTAINABLE SYSTEMS BEST PRACTICES**

- 30 credits
- Certificate of Accomplishment
- All Classes count toward Sustainability Coordinator Certificate
- Six classes explore important sustainable business topics:
  - Sustainable Business principles and whole systems thinking
  - Carbon footprint evaluation
  - Energy systems and waste management
  - Product life cycle and supply chain management

## SUSTAINABILITY COORDINATOR CERTIFICATE



- 49 credits
- Certificate of Achievement
- All Credits count toward 90 credit Associate in Arts (AA)
- Prepare to take the leadership role in business
- Completion of this certificate also qualifies students for the Certificate of Completion and the Certificate of Accomplishment
- Classes either online or Hybrid (one day on campus per week, evenings)

## ASSOCIATE IN ARTS: SUSTAINABLE BUSINESS PRACTICES

- 90 - 94 credits
- Associate of Arts in Sustainable Business Practices
- The associate degree in Sustainable Business Practices prepares graduates to become active and successful professionals in promoting and implementing sustainable business practices
- Most coursework available online or as Hybrid courses (one day per week on campus)

## WHY CHOOSE OUR PROGRAMS?

- Climate Leadership Award
- Certified STARS Silver Award
- LEED certified buildings —We walk the walk as we talk the talk
- Industry experienced professionals as faculty
- You will learn by doing, not just rote memorization




## FOR MORE INFORMATION


- Visit our website:  
<http://bellevuecollege.edu/program/business-sustainable-practices>
- Email Rob McFarland or Mary Corcoran  
[rob.mcfarland@bellevuecollege.edu](mailto:rob.mcfarland@bellevuecollege.edu)  
[mary.corcoran@bellevuecollege.edu](mailto:mary.corcoran@bellevuecollege.edu)



### Climate Change Policy & Advocacy @ City of Bellevue



October 1, 2013  
WA Youth Summit on Climate Change  
Paul Andersson  
City of Bellevue Environmental Stewardship Initiative



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### Bellevue at a glance:

- 21,000 acres
- 1,200 employees
- 130,000 resident population
- 201,000 daytime population
- 30% of population is foreign born
- 100+ city facilities
- 506 fleet vehicles

Signed Mayors' Climate Protection Agreement, 2007

2

### Overview of Climate Policy Frameworks

- **City of Bellevue:** Mayors' Climate Protection Agreement, 2007-2012 (7% below 1990 levels of greenhouse gas emissions)...what's next?  
Comprehensive Plan – no policies specific to climate change
- **King County:** 80% below 2007 levels by 2050
- **KC Countywide Planning Policies (CPPs):** EN-17 Meet or exceed statewide targets
- **Washington State:** 50% below 1990 levels by 2050
- **Intergovernmental Panel on Climate Change:** Stop burning (or capture all ) fossil fuels by 2040 (AR5)

## Bellevue 2050 CARBON NEUTRAL CITY

#### LOCAL ECONOMY

- ✓ Regional production
- ✓ Consumer responsibility
- ✓ Zero waste

#### ENERGY

- ✓ Renewable sources
- ✓ Efficiency
- ✓ Living building / eco-districts

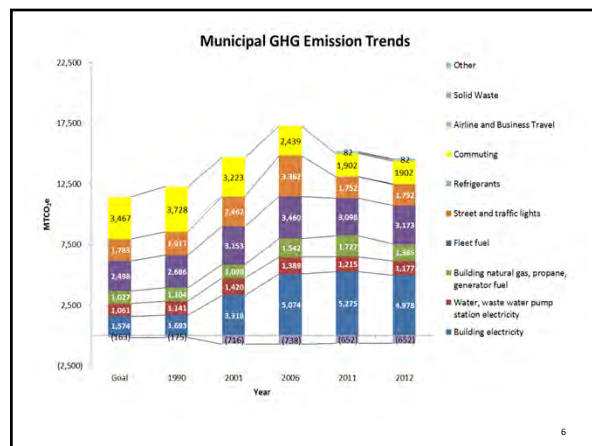
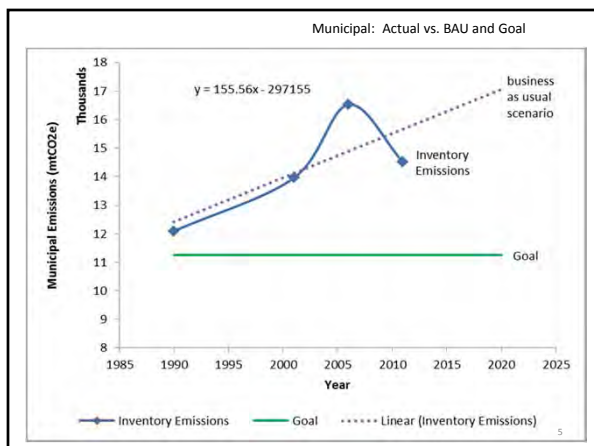
#### CARBON STORAGE

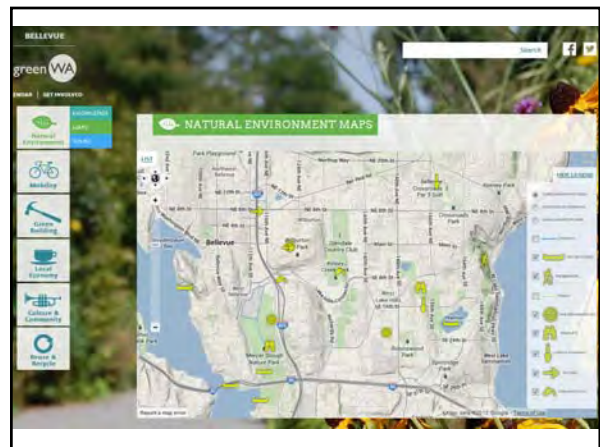
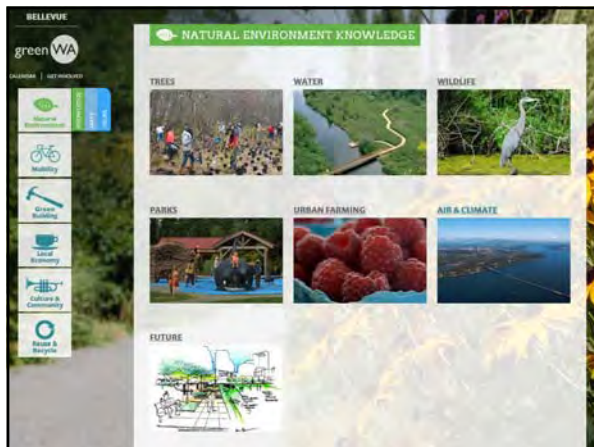
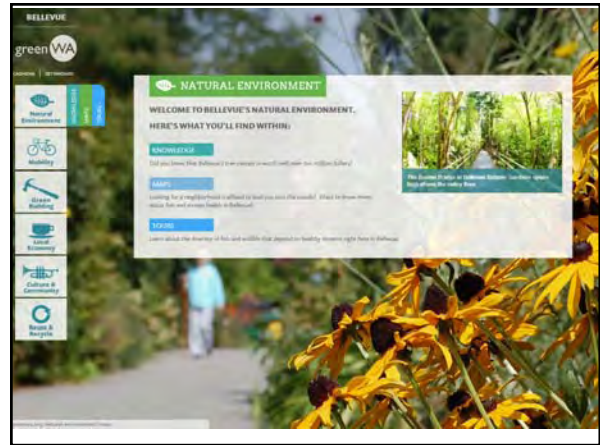
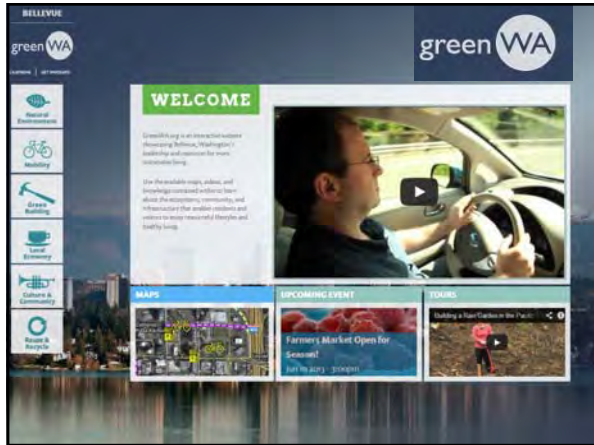
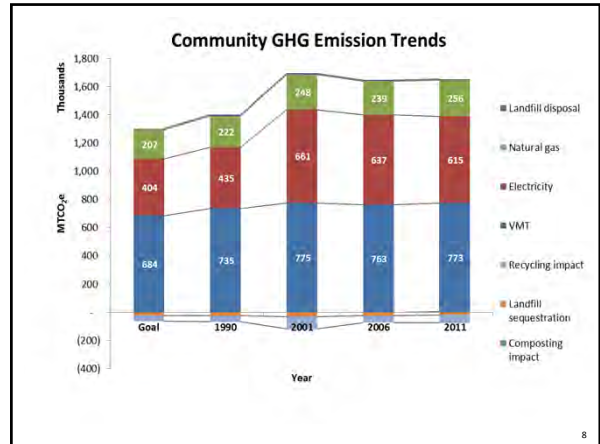
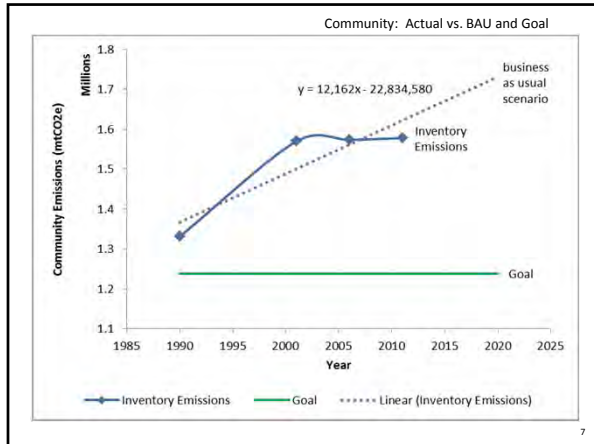
- ✓ Tree canopy
- ✓ Gardens and parks
- ✓ Compost and soils

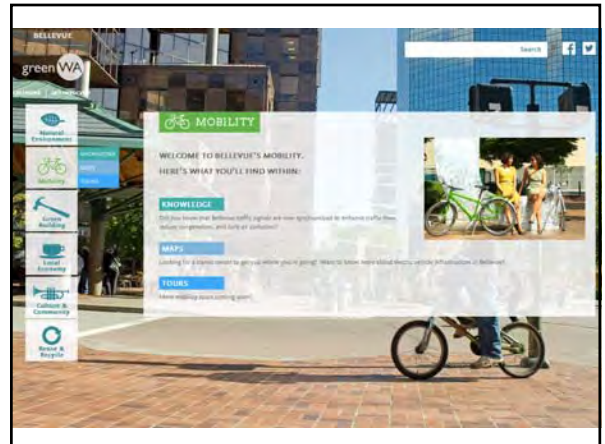
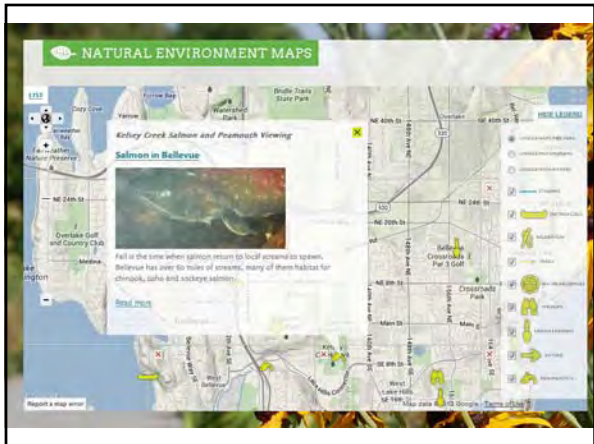
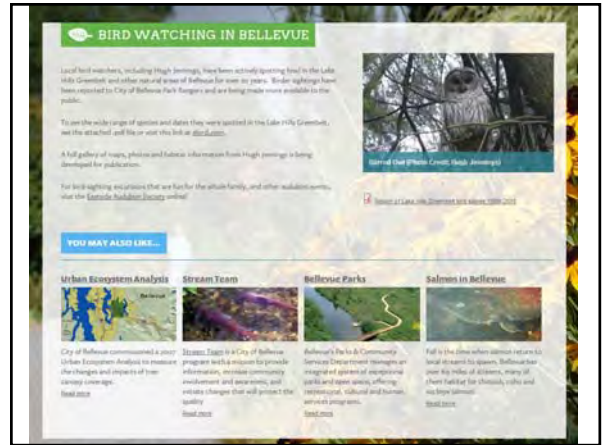
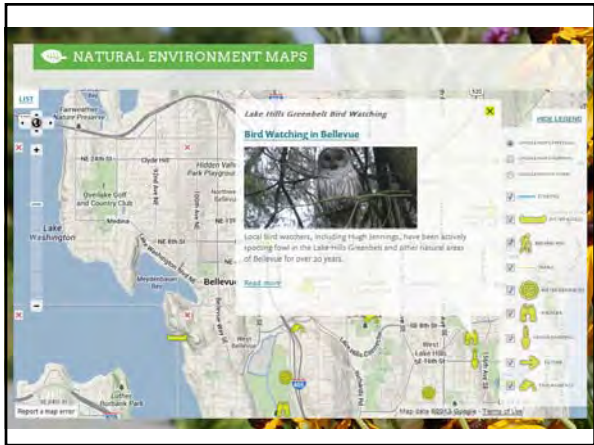
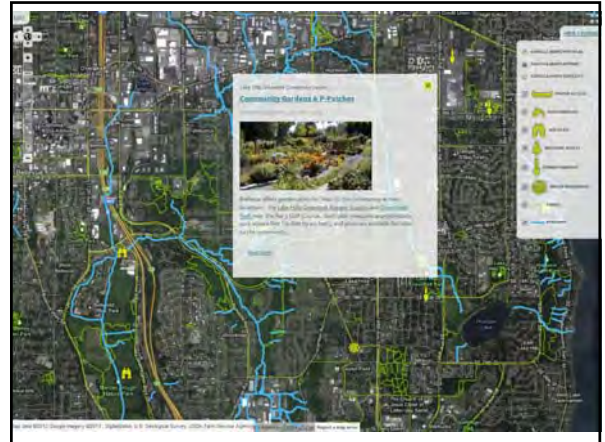
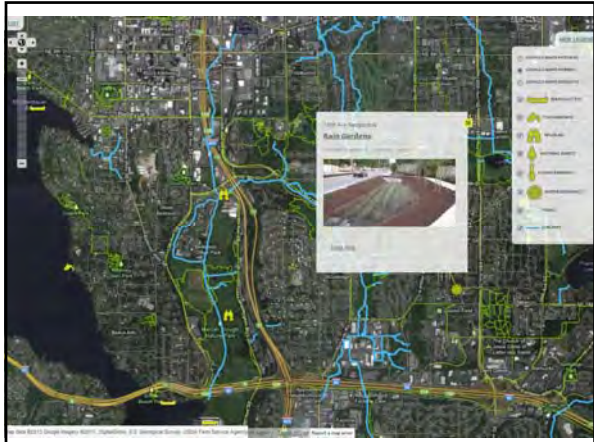
#### MOBILITY

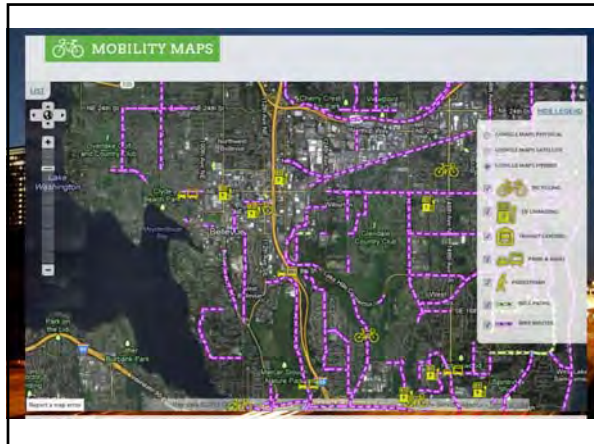
- ✓ Gas free vehicles
- ✓ Transit
- ✓ Ped Bike infrastructure

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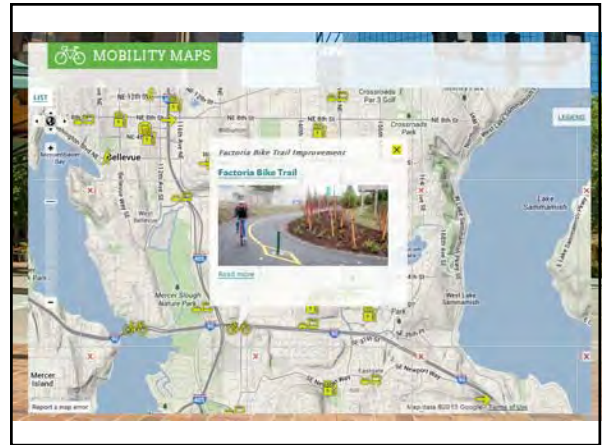






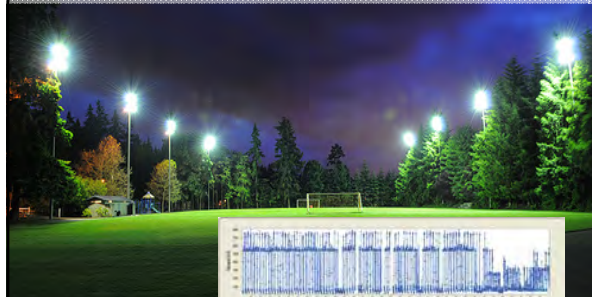
**Electric Vehicles by the Numbers:**

- **\$3,600** – Annual gas savings from 1 Bellevue EV commuter
- **8,000+** – Gallons of gasoline saved from City-operated stations alone
- **16** – Number of COB operated public access charging stations


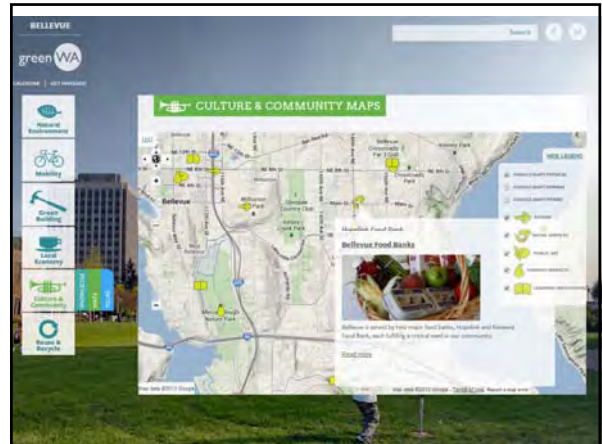
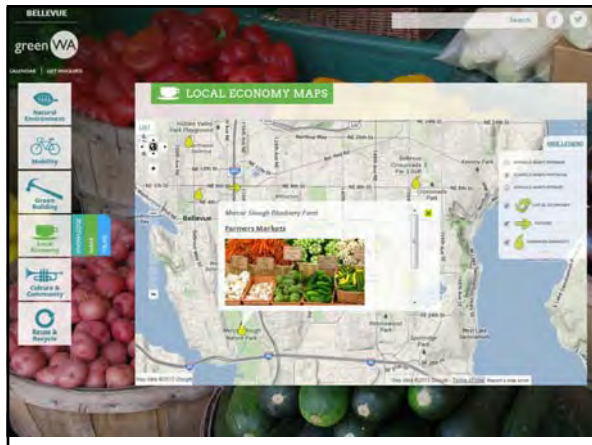
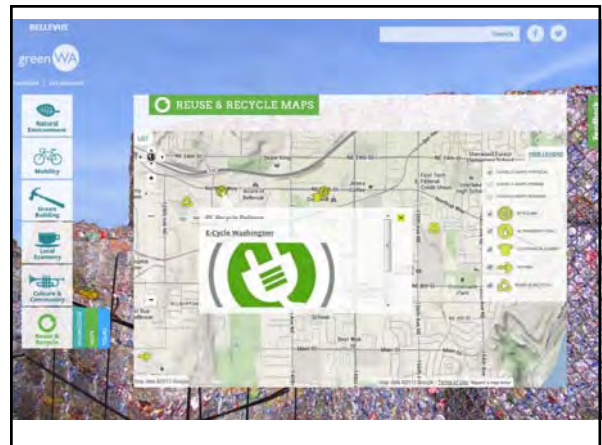
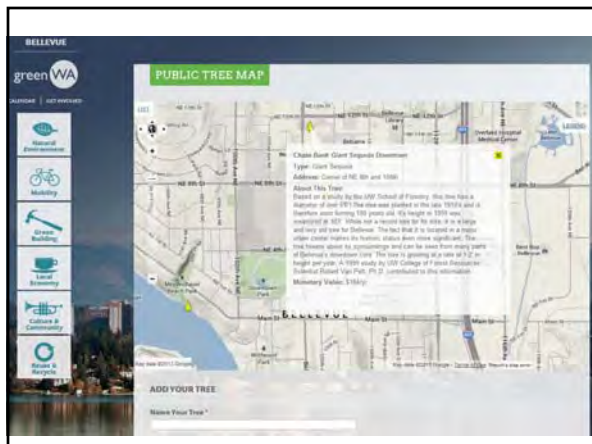



**Bellevue Parks Lighting Project by the Numbers:**

- **\$37,000** - Annual savings from new lights at Bellevue parks
- **335,000** - kilowatt-hours of electricity savings a year
- **26** - equivalent homes annually powered, or **44** cars taken off the road



Newport Field, Bellevue

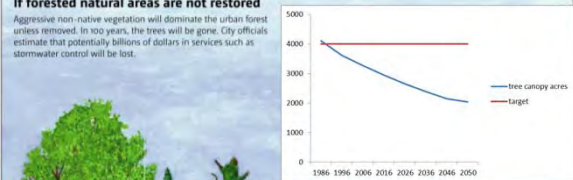
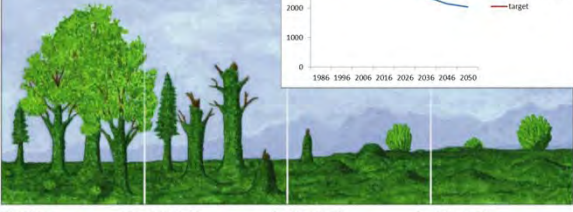






**Bellevue Tree Canopy by the numbers:**

- **\$123 million** - value of Bellevue's tree canopy handling 61,644,489 cu.ft. storm water
- **\$70 million** - loss in stormwater value of canopy from 1986-2006
- **331,702** - tons of carbon stored, / **2,582** tons of carbon sequestered annually

**If forested natural areas are not restored**

Aggressive non-native vegetation will dominate the urban forest unless removed. In 100 years, the trees will be gone. City officials estimate that potentially billions of dollars in services such as stormwater control will be lost.

PRESENT      IN 20 YEARS      IN 50 YEARS      IN 100 YEARS

### Get Involved!

- Use GreenWA as a platform for student/community projects; *like* GreenWA on Facebook, follow us on Twitter
- Engage with Bellevue's Comprehensive Plan Update – Receive e-alerts, submit your ideas!
- Neighborhood Sustainability Workshops – Coming this Winter...
- Speak up to elected officials

## Bellevue 2050 CARBON NEUTRAL CITY

<b>LOCAL ECONOMY</b> <ul style="list-style-type: none"><li>✓ Regional production</li><li>✓ Consumer responsibility</li><li>✓ Zero waste</li></ul>	<b>ENERGY</b> <ul style="list-style-type: none"><li>✓ Renewable sources</li><li>✓ Efficiency</li><li>✓ Living building / eco-districts</li></ul>
<b>CARBON STORAGE</b> <ul style="list-style-type: none"><li>✓ Tree canopy</li><li>✓ Gardens and parks</li><li>✓ Compost and soils</li></ul>	<b>MOBILITY</b> <ul style="list-style-type: none"><li>✓ Gas free vehicles</li><li>✓ Transit</li><li>✓ Ped Bike infrastructure</li></ul>



@green\_wa | FB: greenwaorg | [www.bellevuewa.gov/environmental](http://www.bellevuewa.gov/environmental)



**Thank you**  
Paul Andersson – [pandersson@bellevuewa.gov](mailto:pandersson@bellevuewa.gov)



Washington Youth Summit on Climate  
Meydenbauer Center, Bellevue  
October 1, 2013

## Tribal Response to Climate Change: Swinomish Case Study



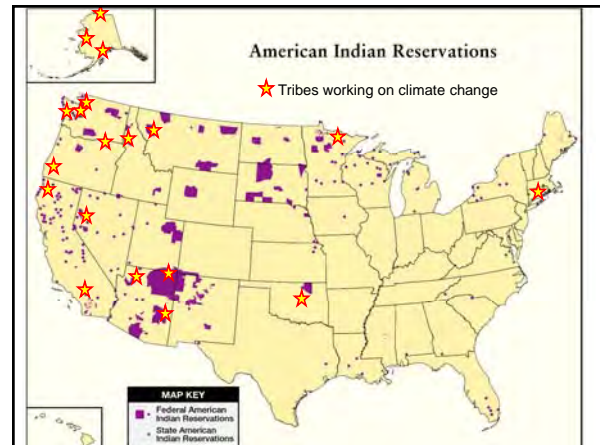
Ed Knight, AICP, Senior Planner  
Swinomish Indian Tribal Community

## Native American Tribes in the U.S.

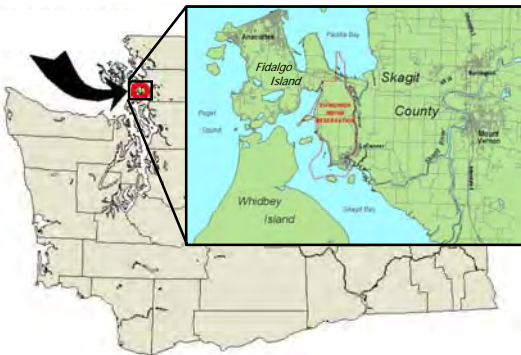
- 566 Federally Recognized Tribes
- 2.9 million on U.S. Census  
5.2 million Native American descent
- 310 Indian Reservations
- 56 million acres

## Climate Change and Tribes – an Environmental Justice Issue

- Tribes on forefront of climate change;  
location, strong connection to resources
- Effects already being experienced, lands  
and resources already being lost
- Relative ability to respond will be a  
major challenge
- Action not an option, but a mandate

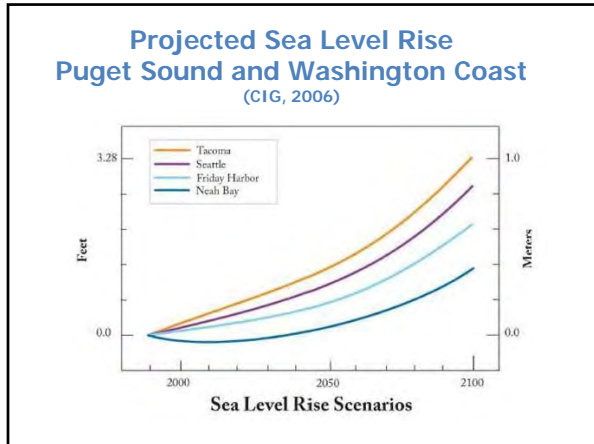


## Swinomish Indian Reservation



## Swinomish Indian Reservation





### Swinomish Climate Change Initiative (Guidance: UW-CIG guidebook)

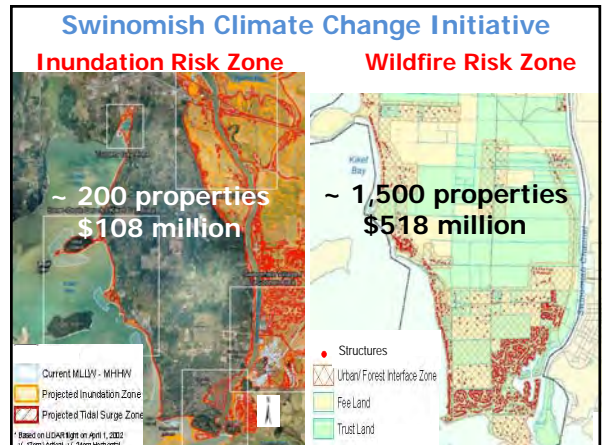
- 2-year, \$400,000 project (80% federal, 20% tribal)
- Partners: UW-CIG, LaConner, Shelter Bay, Skagit Co.

■ Year 1 – Technical Report (2009):

- Impact assessment
- Vulnerability assessment
- Risk analysis

■ Year 2 – Action Plan (2010):

- Review strategies, criteria
- Assess requirements
- Develop/prioritize recommendations



### Impacts on Resources

**TOO MUCH WATER:**

Low-lying lands

Fishing facilities

Marine habitat

**TOO LITTLE WATER:**

Streamflows

Wetlands

Groundwater recharge

### Impacts on Tribal Traditions (cultural resilience)

Beach seining

Fishing

Native plants

Shellfish harvesting

Cultural sites

## Off-Reservation Impacts – Access



## Action Plan Priorities & Implementation

(\$ = relative estimated cost per \$1000)



- Coastal zone protection (\$\$\$)
- Dike maintenance/repair (\$\$\$\$)
- Regional access preservation (\$\$\$\$\$)
- Wildfire control (Firewise) (\$)
- Local emergency planning (\$)

*Just one Tribe among many –*

*a long way to go . . .*

## Credits and Contact Information

- Swinomish Climate Change Initiative supported by a grant from the U.S. Department of Health & Human Services, Administration for Native Americans.
- Snover AK, Whiteley Binder LC, Lopez J, Willmott E, Kay J, Howell D, Simmonds J (2007) *Preparing for Climate Change: A Guidebook for Local, Regional, and State Governments*. In association with and published by ICLEI, Oakland, CA.
- IPCC Working Group I (2007). *Climate change 2007: The Physical Science Basis, Summary for Policy Makers*. Contribution to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, Cambridge University Press, United Kingdom and New York.
- Photos and graphics: Swinomish Tribal Archives; Ed Knight; Wikipedia Commons.

**Presentation contact:** Ed Knight, AICP, Senior Planner  
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 11430 Moorage Way  
 LaConner, WA, 98257  
 360-466-7304  
[eknight@swinomish.nsn.us](mailto:eknight@swinomish.nsn.us)

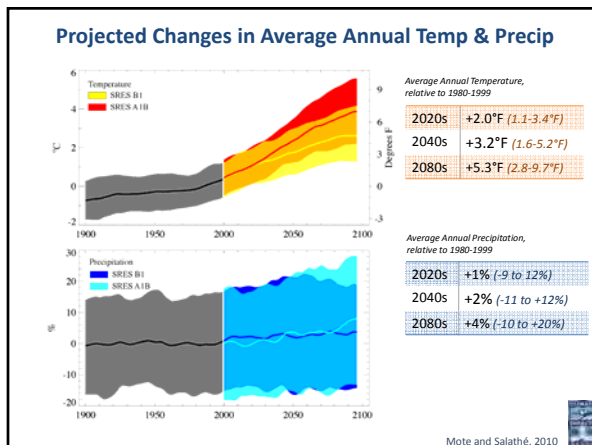
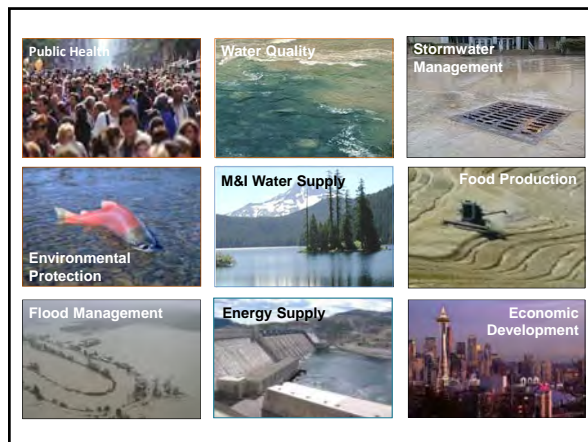
Information and copies of reports available on the Swinomish Climate Change web site:  
[www.swinomish-nsn.gov/climate\\_change/project/reports.html](http://www.swinomish-nsn.gov/climate_change/project/reports.html)

# Adapting to Climate Change: Policies and Practice

Lara Whitely Binder  
UW Climate Impacts Group

2013 Youth Summit on Climate Change  
Oct 1, 2013

COLLEGE OF THE ENVIRONMENT  
UNIVERSITY OF WASHINGTON



### Projected Impacts (9.17 Webinar)

- Less winter snowpack, earlier spring snow melt
- Impacts on water supply, irrigation supply
- Increased flood risk west of the Cascades
- Increased wild fire risk
- Increased stress on salmon
- Sea level rise
- Increasing ocean acidity...

### What are our choices for dealing with this (not so) new reality?

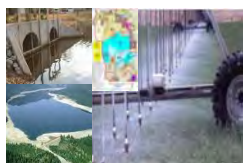
One option: Assume climate change is not a problem (or deny it altogether)

### Mitigation and adaptation are required



#### Mitigation

Reducing emissions of greenhouse gases



#### Adaptation

Preparing for and managing the change that occurs as mitigation strategies are implemented.

### What Does Adaptation Look Like to an Agency?

#### A Two-Pronged Approach

##### Building Adaptive Capacity

Addressing institutional, legal, cultural, technical, fiscal and other barriers

*e.g. increasing staff training opportunities, public outreach, increasing partnerships, removing regulatory barriers*

##### Delivering Adaptive Actions

Implementing actions to address specific climate vulnerabilities

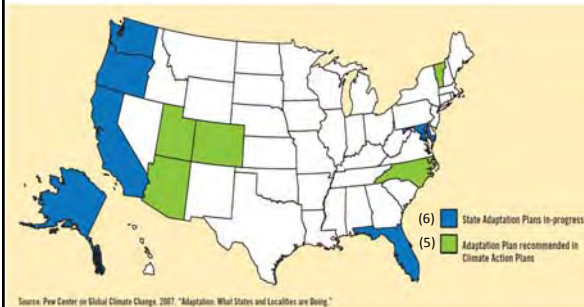
*e.g., increasing water conservation measures, strengthening dikes and levees where appropriate, restoring critical habitat*

### Adaptation planning is happening!

(Yeah!)



### State-level Adaptation Planning as of 2007 (Pew Center)



### State-level Adaptation Planning as of August 2013 (Center for Climate and Energy Solutions – formerly Pew Center)



### Washington State Examples...

#### State:

- WA Dept. of Ecology
- WA Dept. of Fish and Wildlife
- WA Dept. of Natural Resources
- WA Dept. of Transportation

#### County and Local:

- King County
- Snohomish County
- City of Seattle
- City of Olympia
- City of Bellingham
- Port of Bellingham
- Port of Seattle

#### Tribal:

- Swinomish Indian Tribal Community
- Jamestown/S'Klallam Tribe

## Implementation of those plans, however....



## Why Is It Hard?

- A politically charged subject (i.e., Big Oil)
- Affects long-standing ways of doing things
- Deals with science (!)
- Involves uncertainty (*although isn't that always the case?*)
- Involves potentially expensive changes
- Involves potentially scary changes
- For some, confronts religious beliefs
- For some, supporting climate change = supporting the broader agenda of the "the left"

## But What Are Some of The Benefits?

- Protecting public (and private) investments made in infrastructure and services.
- Reducing future exposure to climate impacts  
(= *cost savings, fewer disruptions to services*)
- Potential to improve habitat conditions and benefits from ecosystem services (e.g., wetlands for flood control)
- *More resilient communities and ecosystems in light of a changing climate*

## So How Do We Do It?

- Leadership  
– e.g., *King County, State*
- Public support and expectation for action  
– e.g., *Olympia annual work plans*
- Positive messaging
- "Mainstreaming" adaptation  
– e.g., *flood planning, habitat restoration*



## FOR MORE INFORMATION

### Climate Impacts Group

[www.cses.washington.edu/cig](http://www.cses.washington.edu/cig)

### Lara Whitely Binder

[lwb123@uw.edu](mailto:lwb123@uw.edu)