




**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
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



1

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

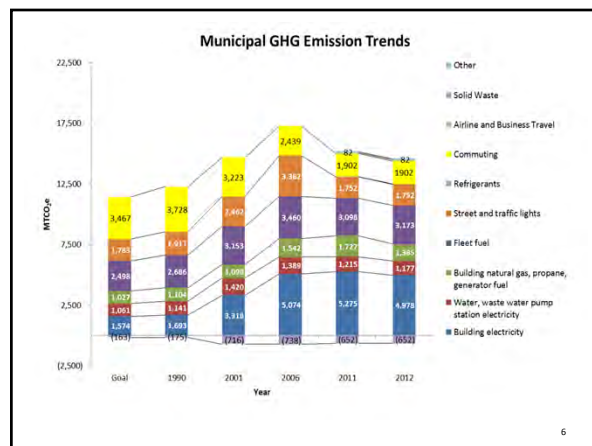
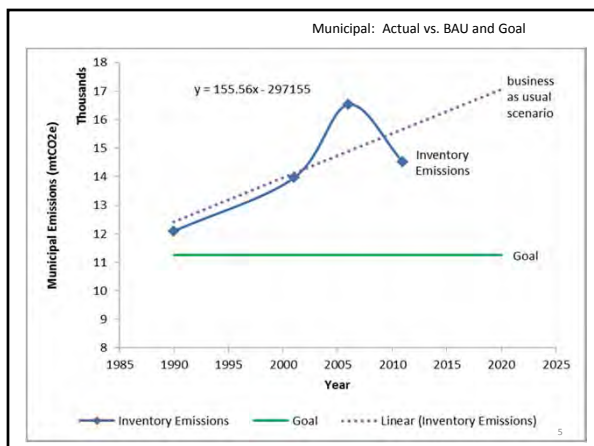
CARBON STORAGE

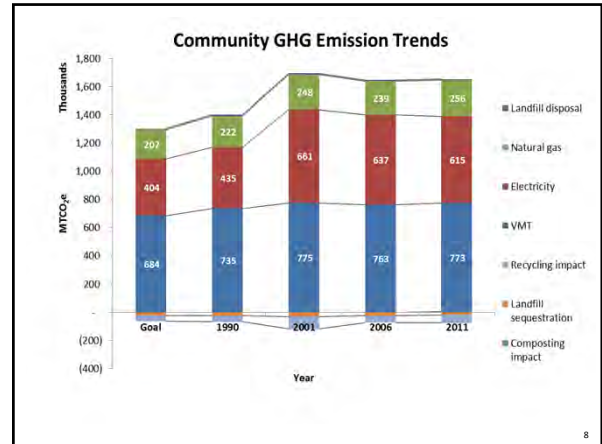
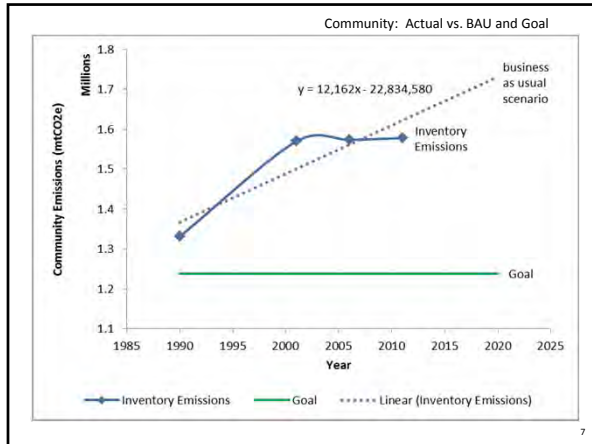
- ✓ Tree canopy
- ✓ Gardens and parks
- ✓ Compost and soils

MOBILITY

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

4



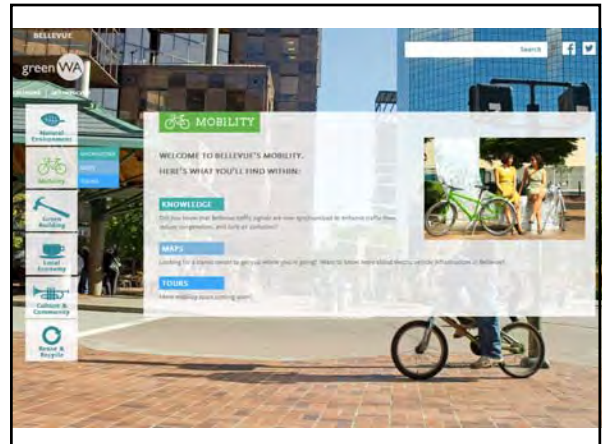
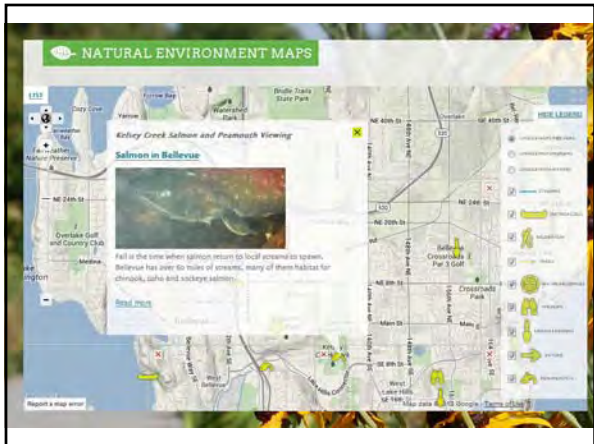
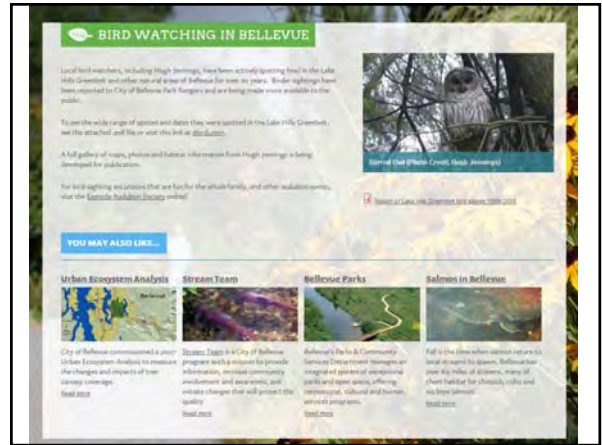
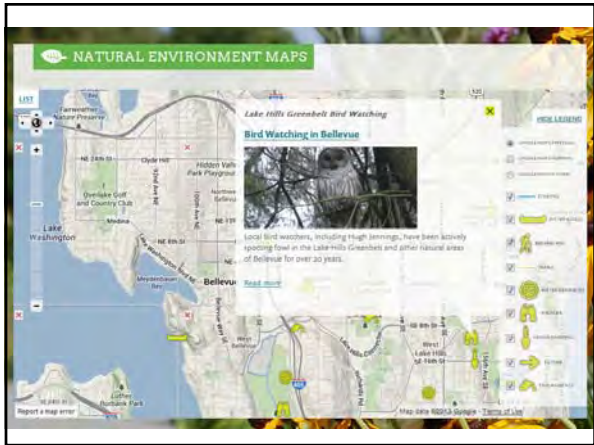
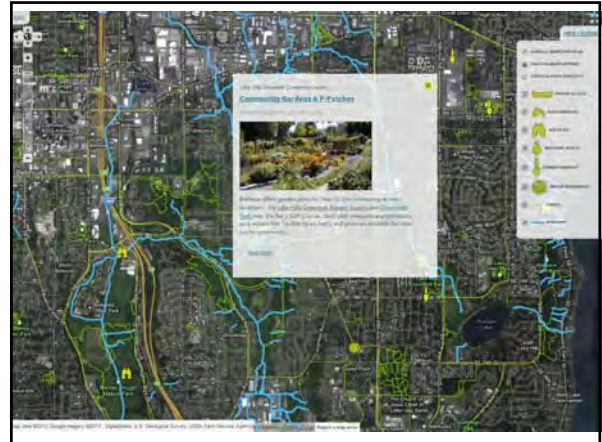
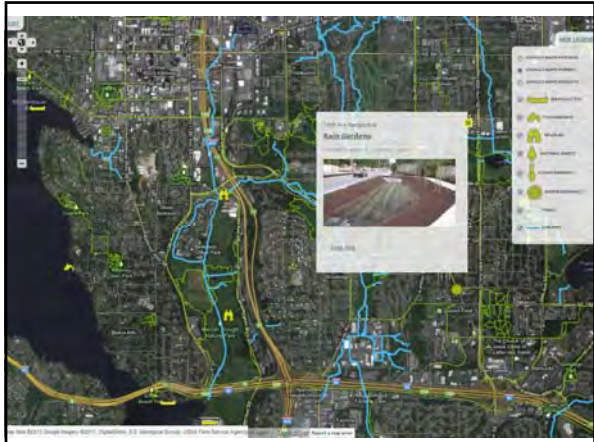


The screenshot shows the 'green WA' website home page. It features a navigation menu on the left with icons for Natural Environment, Mobility, Green Building, Local Economy, Culture & Community, and Recycle & Reuse. The main content area includes a 'WELCOME' message, a video player showing a man driving a car, and three featured items: 'MAPS', 'UPCOMING EVENT' (Farmers Market Open For Season), and 'FOODS' (Building a Farm Garden in the Park).

The screenshot shows the 'NATURAL ENVIRONMENT' page on the green WA website. It includes a 'WELCOME TO BELLEVUE'S NATURAL ENVIRONMENT' message and a 'KNOWLEDGE' section with a search bar and filters for 'MAPS' and 'FOODS'. A video player shows a person walking on a path through a natural area.

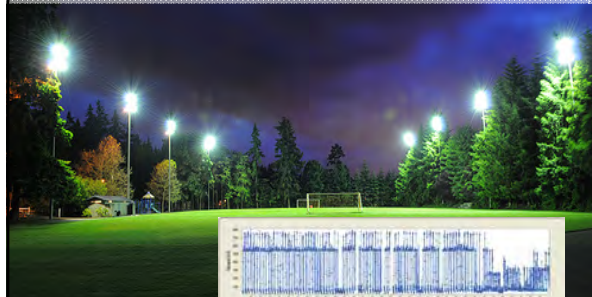
The screenshot shows the 'NATURAL ENVIRONMENT KNOWLEDGE' page. It features a grid of images and text boxes for various topics: TREES, WATER, WILDLIFE, PARKS, URBAN FARMING, AIR & CLIMATE, and FUTURE. The 'FUTURE' section includes a diagram of a sustainable city layout.

The screenshot shows the 'NATURAL ENVIRONMENT MAPS' page. It displays a map of Bellevue with various green spaces and parks highlighted. A legend on the right side of the map identifies different types of green spaces and parks.


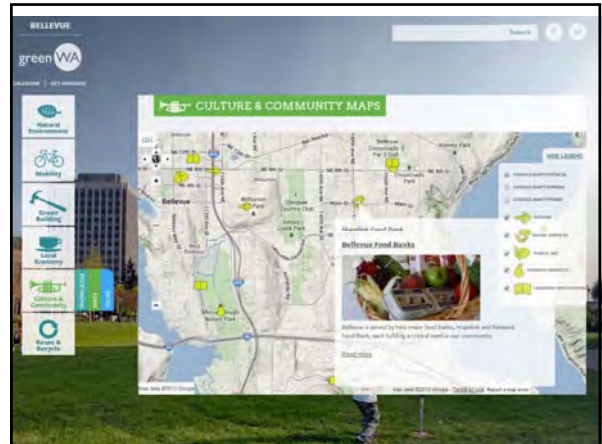


Bellevue Parks Lighting Project by the Numbers:

- **\$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



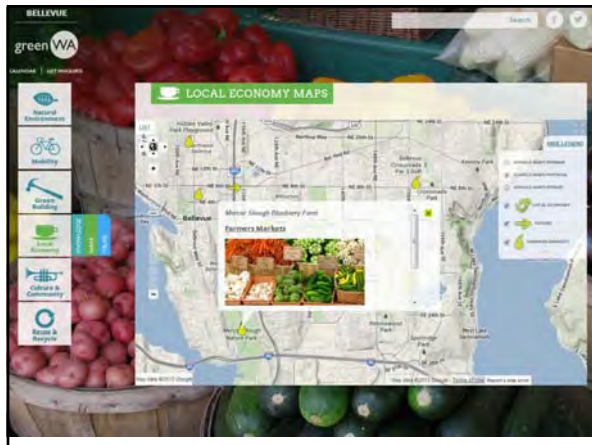
Newport Field, Bellevue

greenWA

CULTURE & COMMUNITY MAPS

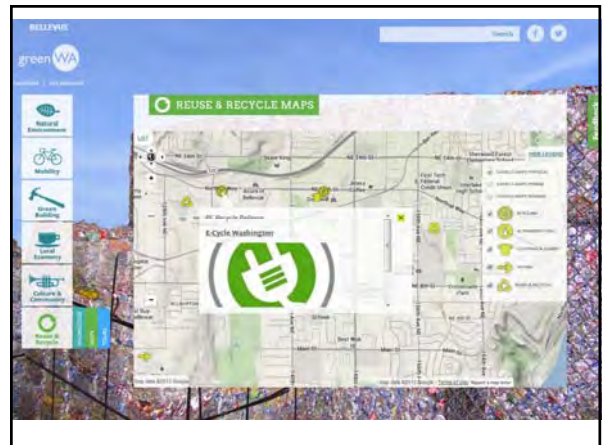
Bellevue Food Banks



greenWA

LOCAL ECONOMY MAPS

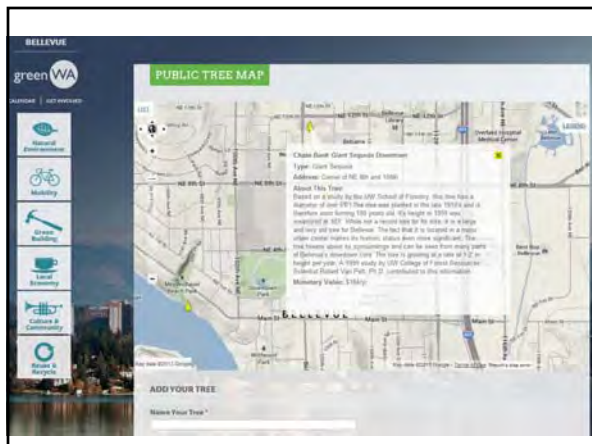
Farmers Markets



greenWA

REUSE & RECYCLE MAPS

i-Cycle Washington



greenWA

PUBLIC TREE MAP

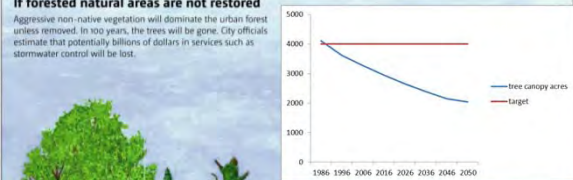
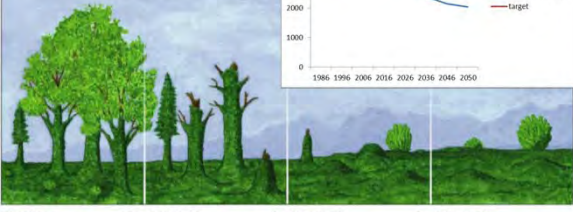
ADD YOUR TREE

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

31

Bellevue 2050 CARBON NEUTRAL CITY

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

32



@green_wa | FB: greenwaorg | www.bellevuewa.gov/environmental



Thank you
Paul Andersson – pandersson@bellevuewa.gov

33

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

Tribal Response to Climate Change: Swinomish Case Study



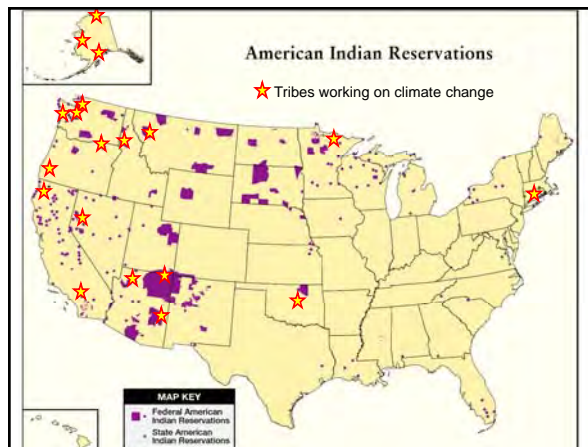
Ed Knight, AICP, Senior Planner
 Swinomish Indian Tribal Community

Native American Tribes in the U.S.

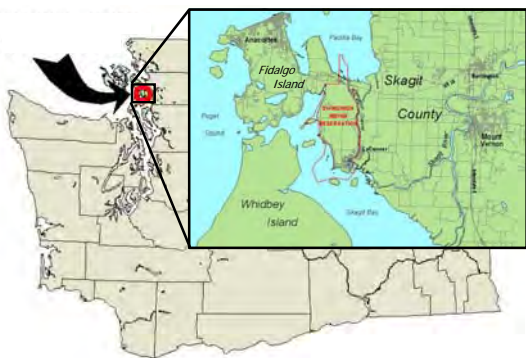
- 566 Federally Recognized Tribes
- 2.9 million on U.S. Census
5.2 million Native American descent
- 310 Indian Reservations
- 56 million acres

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

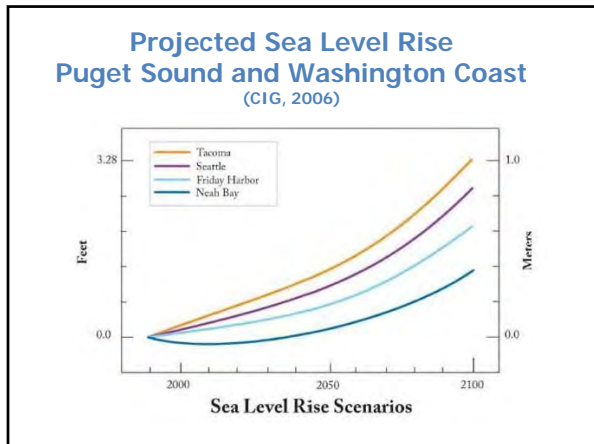


Swinomish Indian Reservation



Swinomish Indian Reservation





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

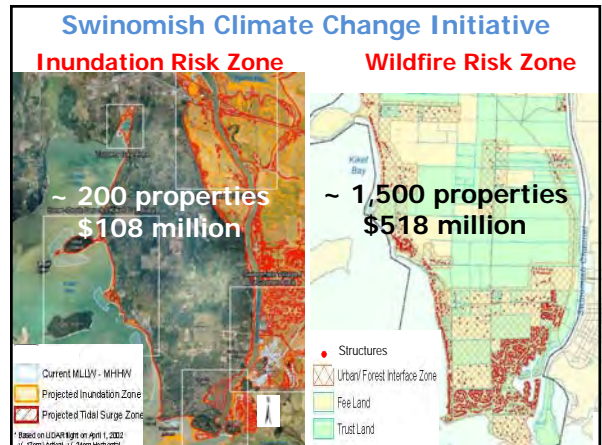
- 2-year, \$400,000 project (80% federal, 20% tribal)
- Partners: UW-CIG, LaConner, Shelter Bay, Skagit Co.

■ 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
 Swinomish Indian Tribal Community
 11430 Moorage Way
 LaConner, WA, 98257
 360-466-7304
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

Adapting to Climate Change: Policies and Practice

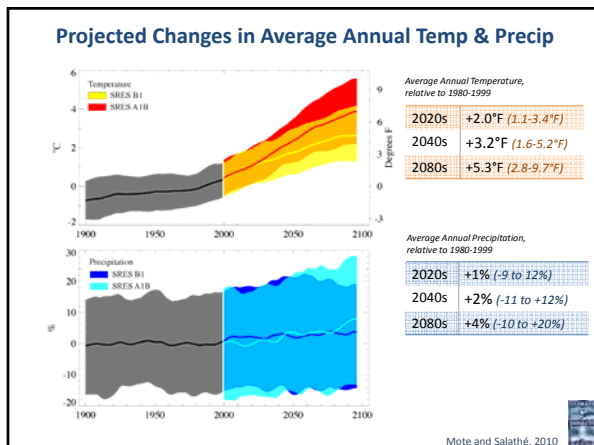
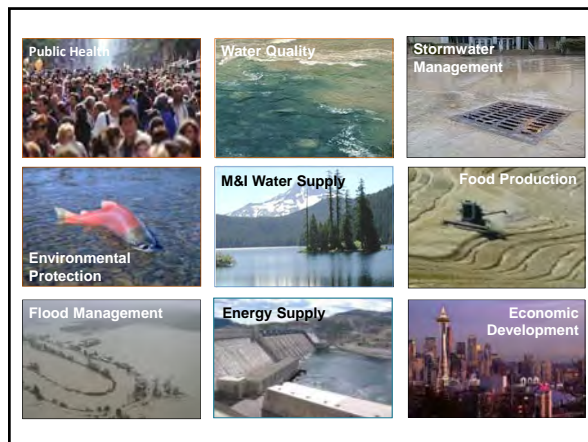
Lara Whitely Binder
UW Climate Impacts Group

2013 Youth Summit on Climate Change
Oct 1, 2013

COLLEGE OF THE ENVIRONMENT
UNIVERSITY OF WASHINGTON



Climate Science in the
Public Interest



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

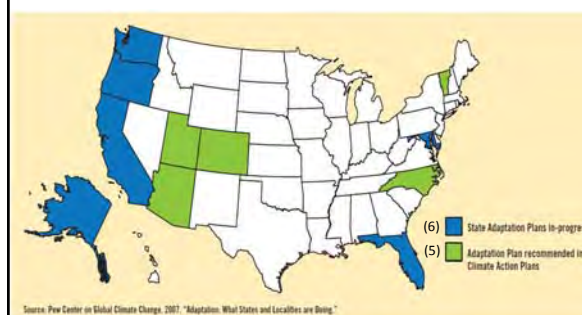
e.g., increasing water conservation measures, strengthening dikes and levees where appropriate, restoring critical habitat

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

Lara Whitely Binder

lwb123@uw.edu