

*STRONG COMMUNITIES:
SUSTAINABLE
RESILIENT
VIBRANT*

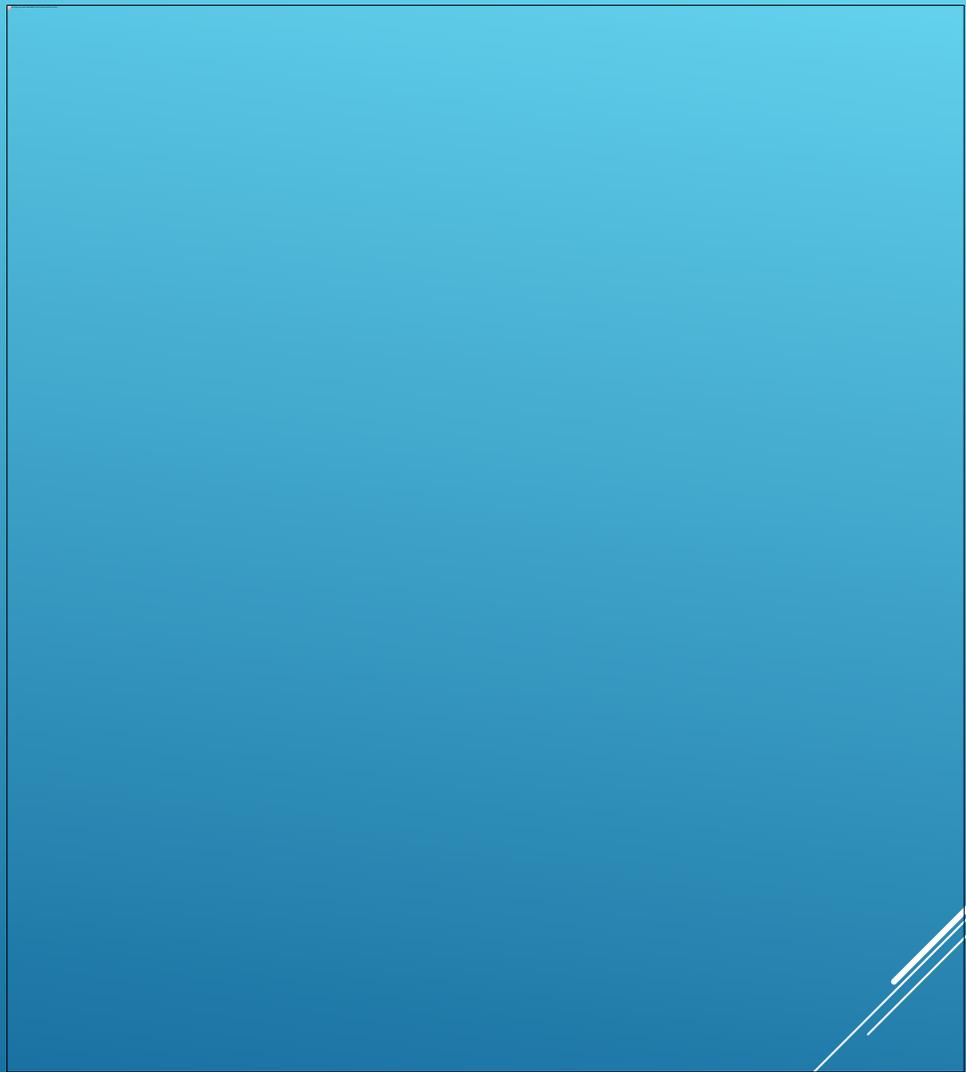
Idaho Water Reuse Conference

By Vicky Salazar

US Environmental Protection Agency, R10, Seattle Office

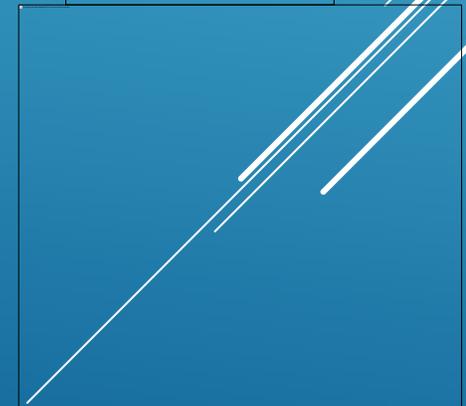
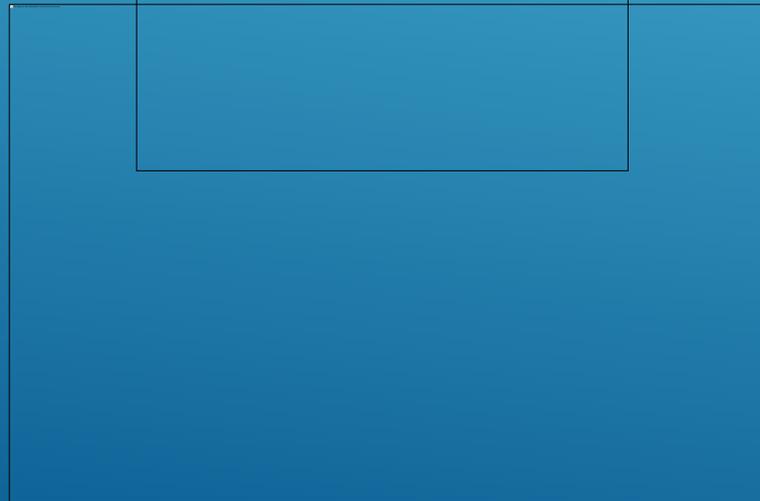
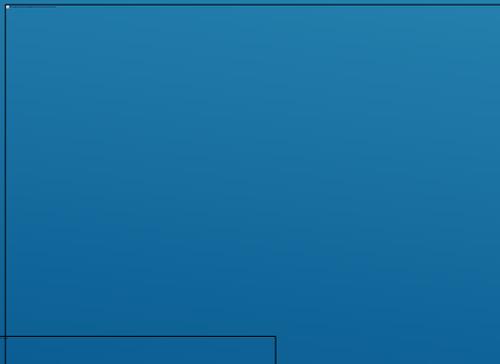
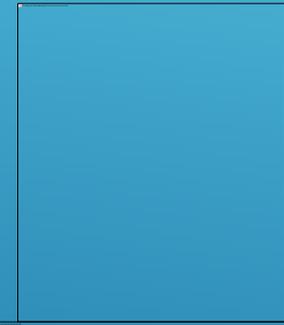
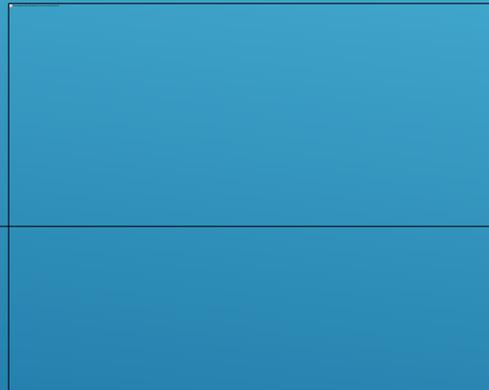
May 28, 2015

WHAT
MAKES A
COMMUNITY
STRONG?



SMART GROWTH FOR A STRONG COMMUNITY

Smart growth is well-planned development that protects open space and farmland, revitalizes communities, keeps housing affordable and provides more transportation choices.



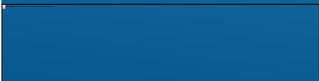
HOW IS SMART GROWTH ACHIEVED?

To achieve Smart Growth, communities:

- Promote Mixed Land Uses
- Encourage Growth in Existing City & Town Centers
- Take Advantage of Existing Community Assets
- Offer Housing Opportunities and Choices
- Foster “Walkable” Close-Knit Neighborhoods
- Promote a “Distinctive Sense of Place” through Preservation
- Preserve & Protect Open Space, Farmland, & Critical Environmental Areas
- Provide a variety of Transportation Choices
- Make Development Decisions Predictable, Fair and Cost-Effective
- Encourage Citizen Participation in Development Decisions

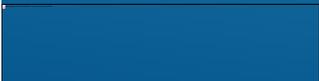
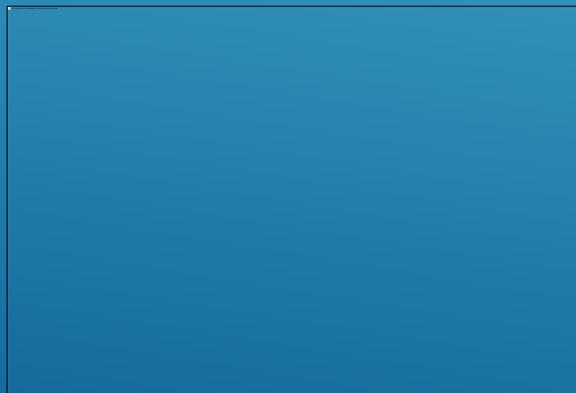
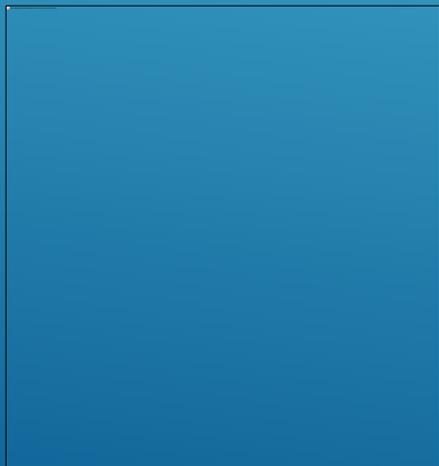
NEIGHBORHOOD LIVABILITY

- Quality of Life
- Safe, Convenience, Attractive, Affordable

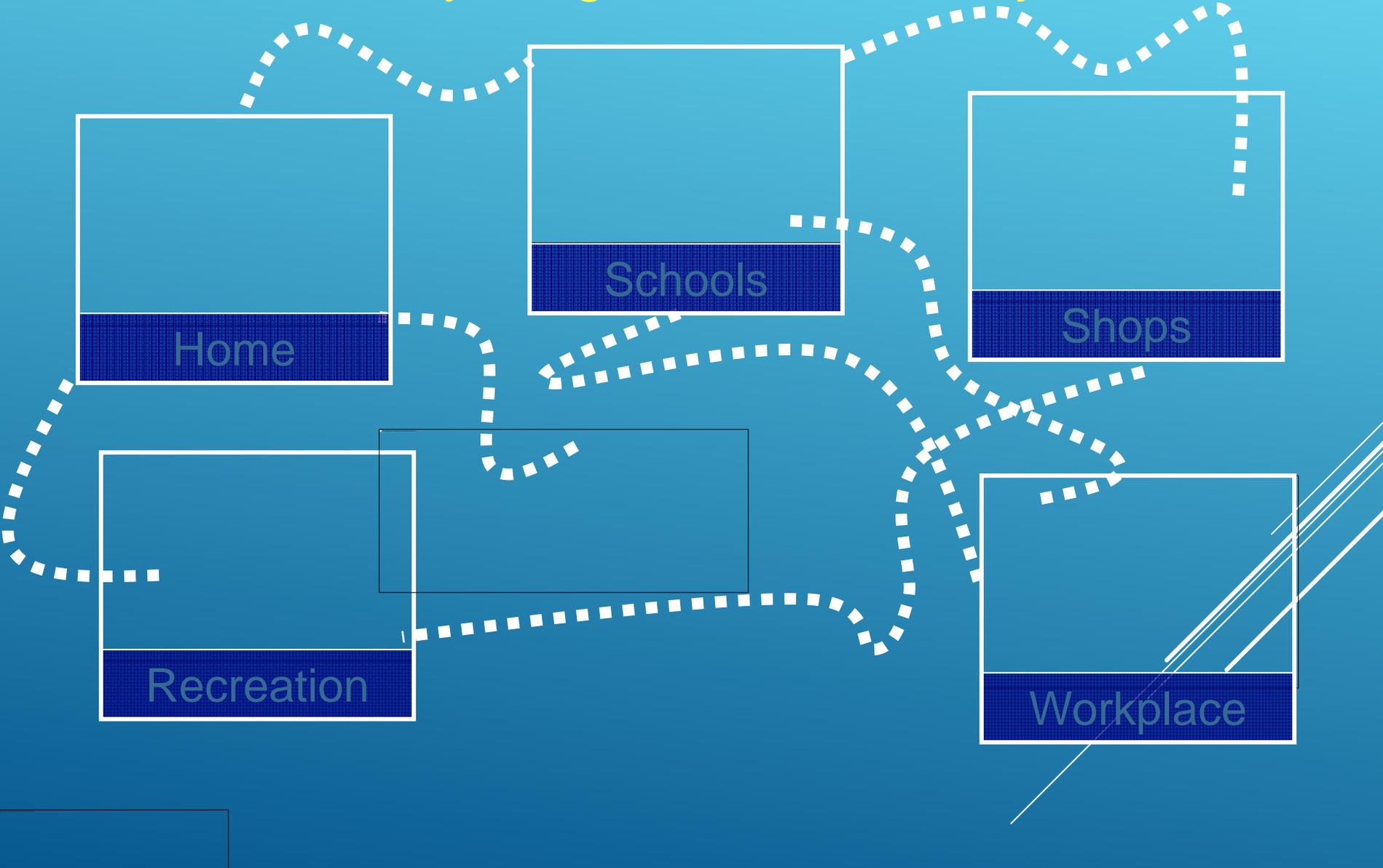


BETTER ACCESS, LESS TRAFFIC

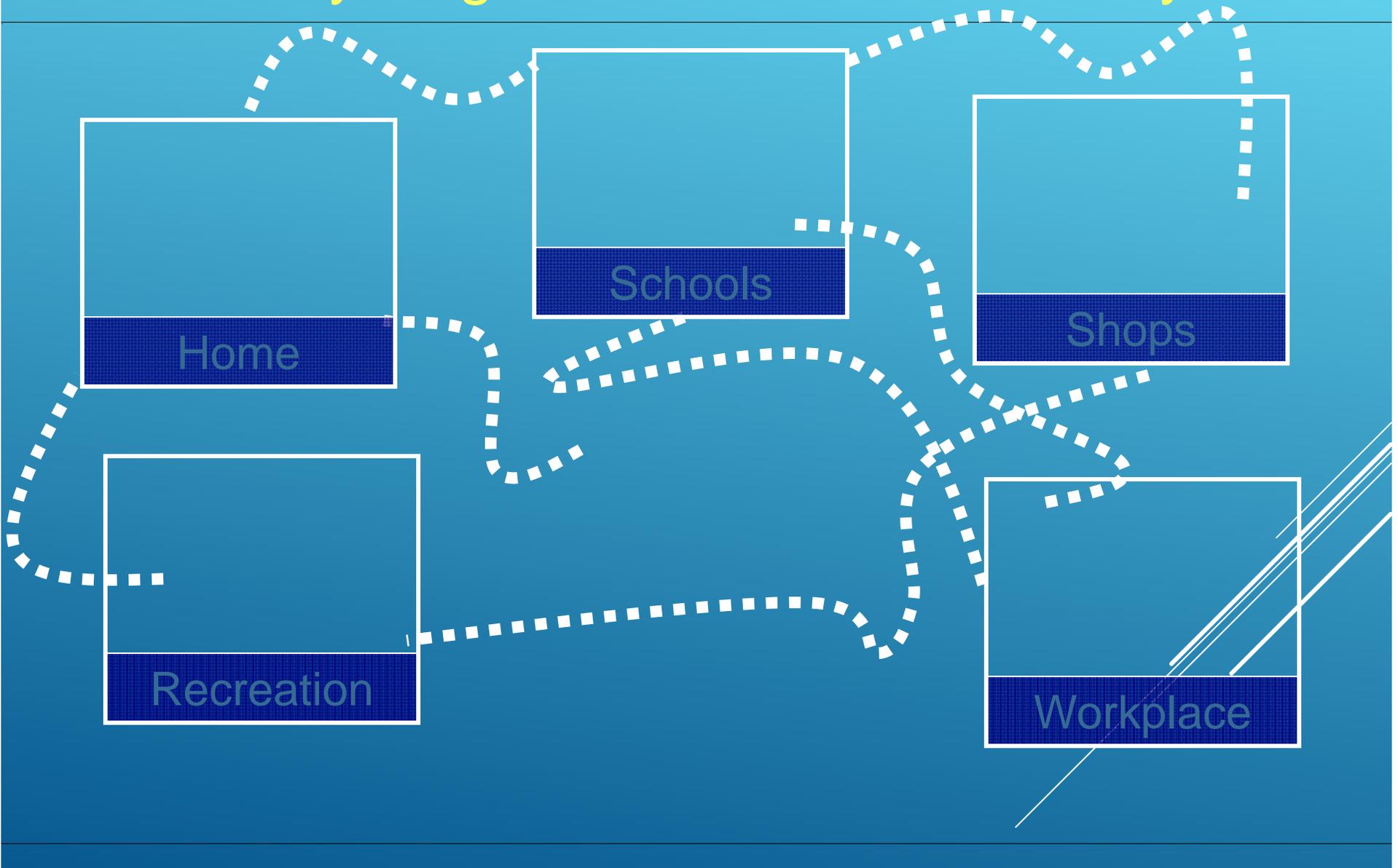
- Convenience
- Transportation Choices



Everything is a Drive Away



Everything is a Walk/Ride/Bus Away



SMART GROWTH IS DEFINED BY OUTCOMES

1. Neighborhood Livability
 2. Better Access, Less Traffic
 3. Thriving Cities & Town Centers
 4. Shared Benefits
 5. Lower Costs, Lower Taxes
 6. Keeping open Space open
 7. Engaged citizens
- 

BEFORE



AFTER



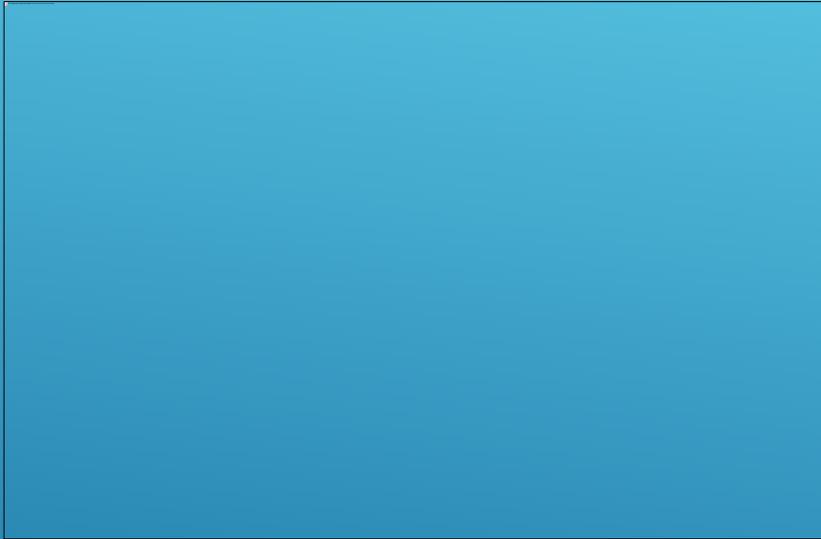
BATON ROUGE, LA

Images courtesy of Spackman Mossop Michaels

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BEFORE



AFTER



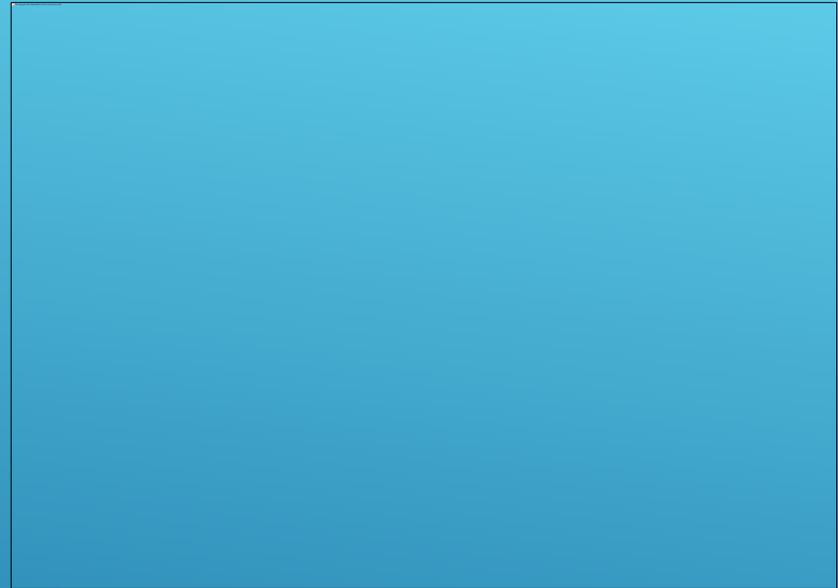
DES MOINES, IA

Images courtesy of Vireo/BNIM

BEFORE



AFTER?



FRANKFORT, KY

Images courtesy of CARMAN and Parker Rodriguez.

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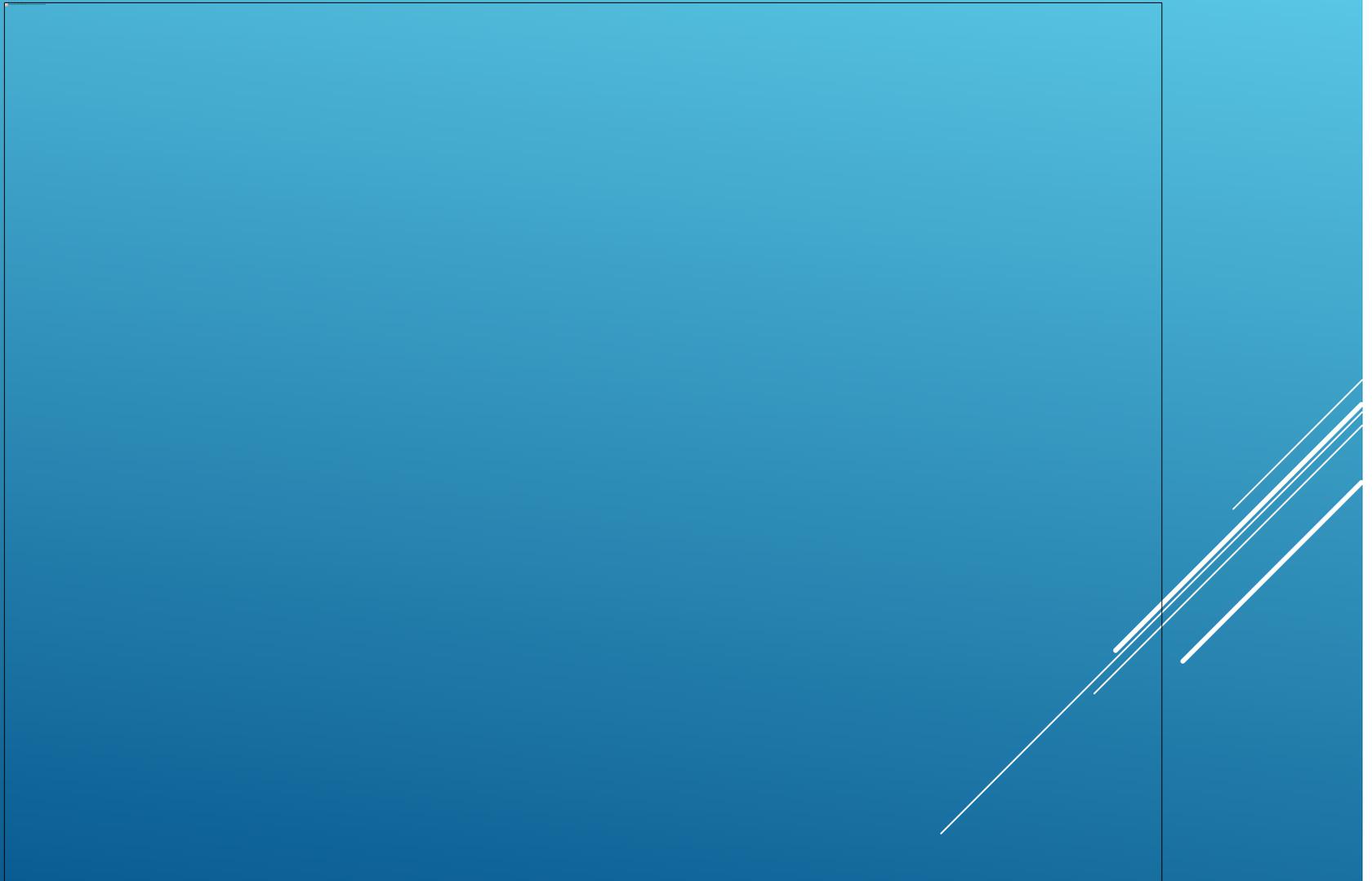
- ▶ **Goals: (focused on Capitol Way)**
- ▶ **Incorporating “green” stormwater treatment and designing more engaging streetscape to:**
 - ▶ **Establish stronger sense of place and connection between the Capitol Campus and downtown;**
 - ▶ **Slow down and clean stormwater runoff that currently drains directly to Budd Inlet;**
 - ▶ **Provide visual imagery to attract new businesses and visitors to downtown;**
 - ▶ **Improve access and safety for bus riders, bicyclists, walkers, and drivers; and,**
 - ▶ **Connect to and catalyze other exciting projects happening downtown.**

IT ISN'T A STRAIGHT LINE
FROM HERE TO THERE!
OLYMPIA, WA



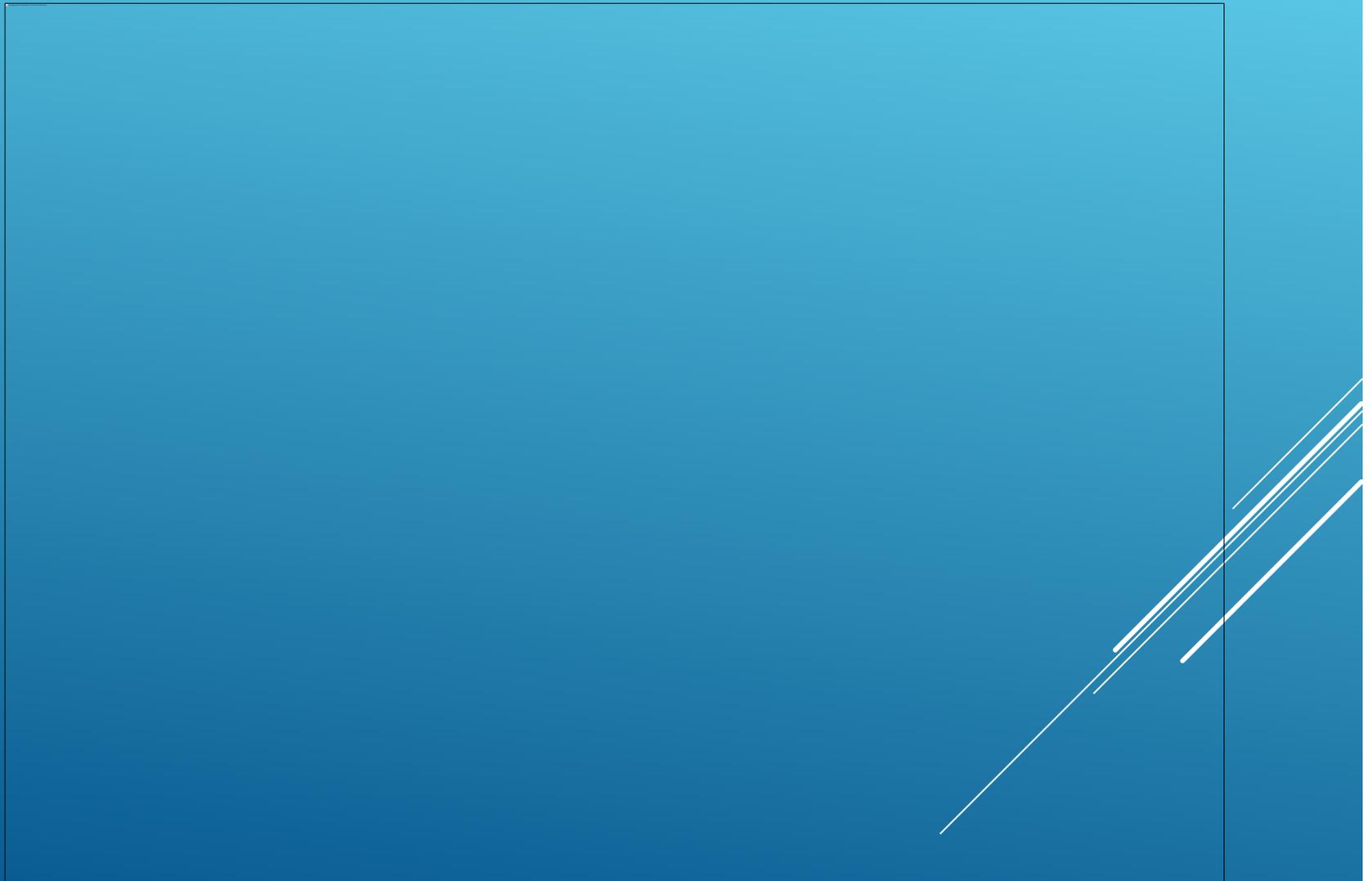
CORE DOWNTOWN MAIN STREETS

Reallocation of space between 5th and Legion - Before



CORE DOWNTOWN MAIN STREETS

Reallocation of space between 5th and Legion - After



FROM IDEAS TO ACTION -LESSONS LEARNED

1. Make a Vision and Make it Visual
2. Achieve Multiple Goals with “Greening”
3. Connect People and Places
4. Invest in the Public Spaces You Already Have
5. Seek a Variety of Funding Sources
6. Expand your resources – don’t look at only government funding.
7. Address the most important issues.
Ignoring it doesn’t make it go away.

TO BE STRONG – WE HAVE TO
ADDRESS CLIMATE CHANGE!

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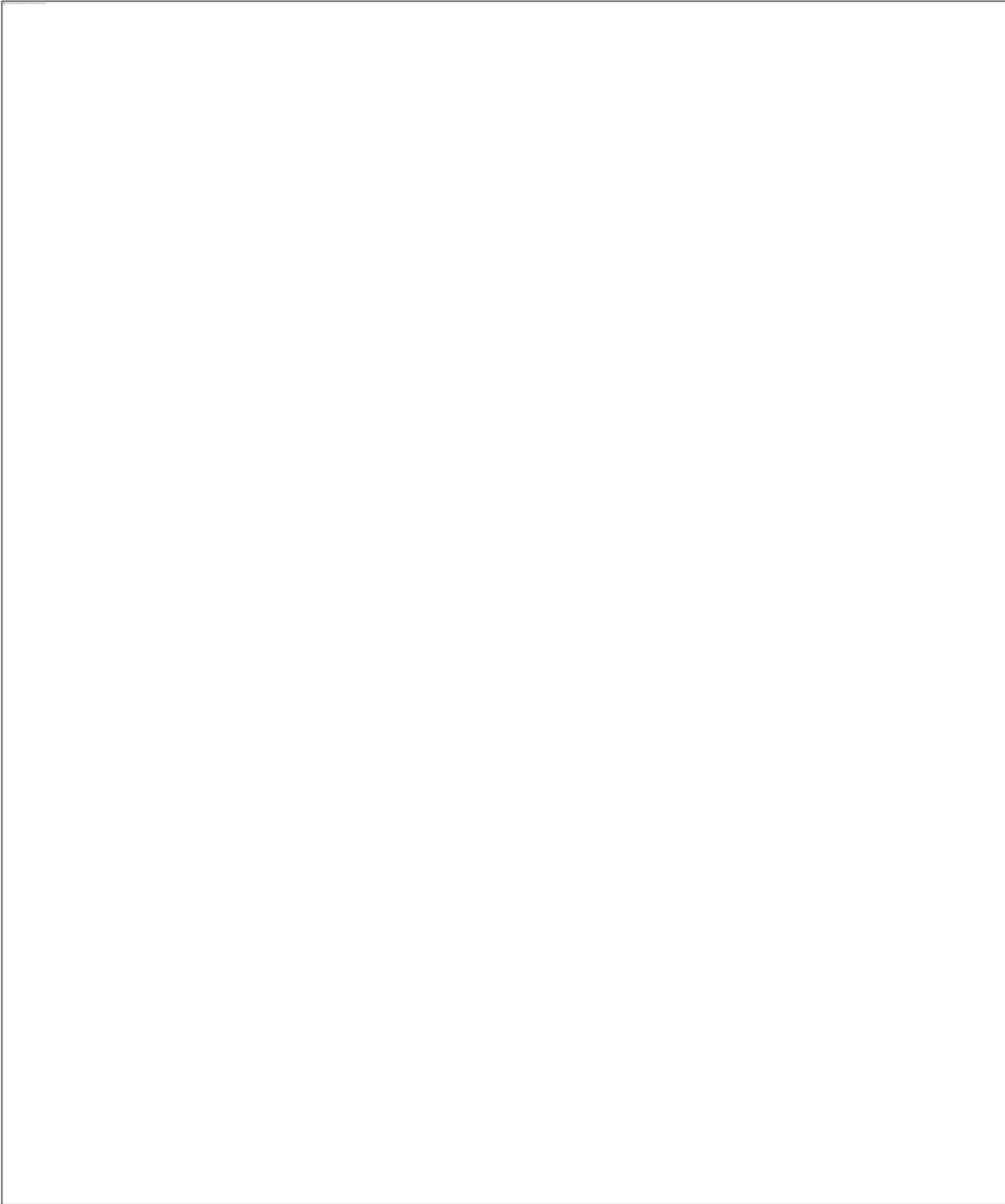
6/19/2015

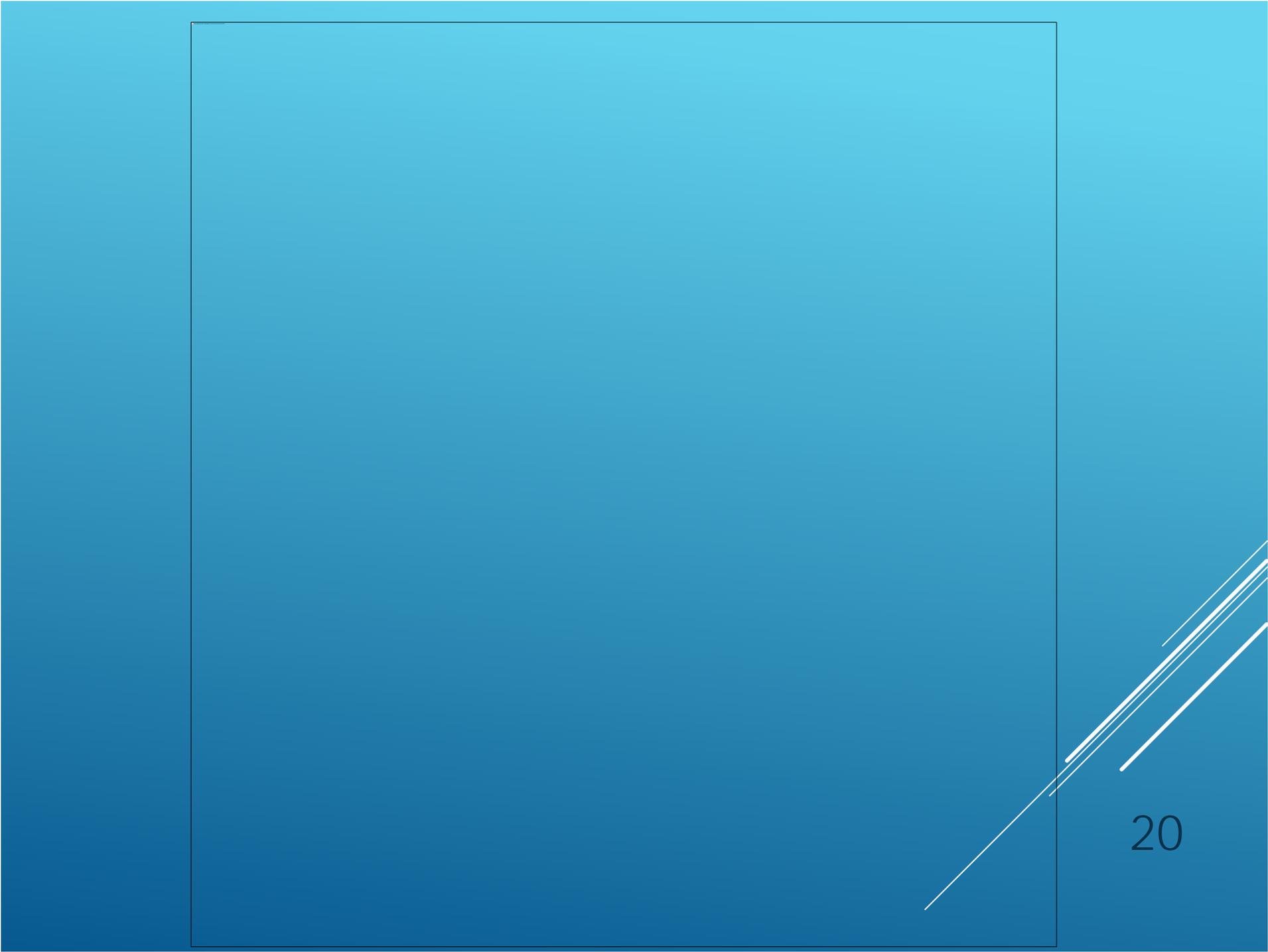
The Climate is Changing

It's changing at an increasingly rapid rate...

Outside the range to which society has adapted in the past...

The past is no longer a good predictor of the future





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Northwest Chapter

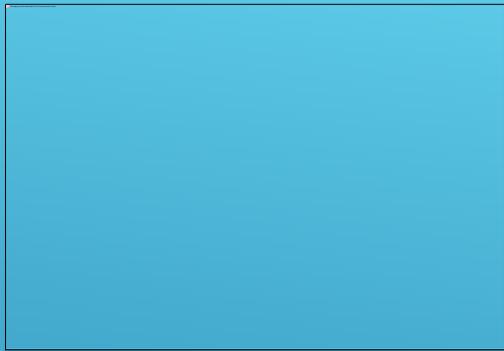
"Changes in the timing of streamflow related to changing snowmelt.. Reducing the supply of water for competing demands."

"The combined impacts of increasing wildfires, insect outbreaks, and tree diseases are already causing widespread tree die-off..."

"...the effects of sea level rise, erosion, inundation, threats to infrastructure and habitat, and increasing ocean acidification pose a threat to the region."

"Human influence on the climate system is clear...Recent climate changes have had widespread impacts on human and natural systems".

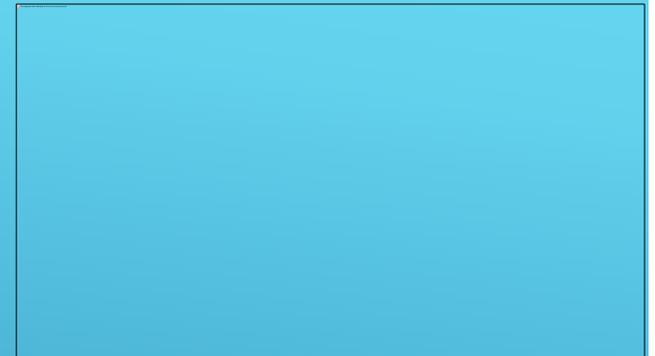
Water Infrastructure



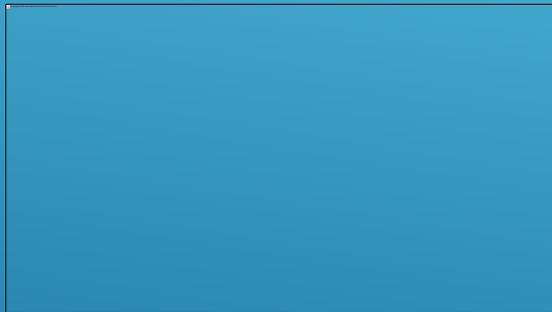
Built Environment



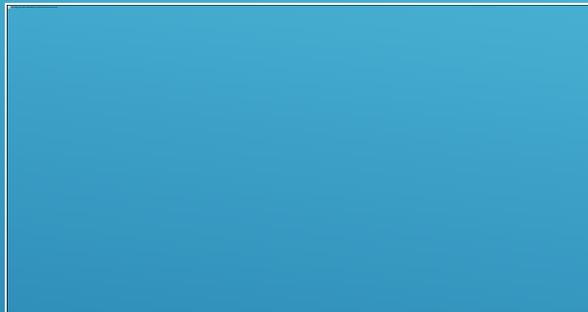
Shoreline Erosion



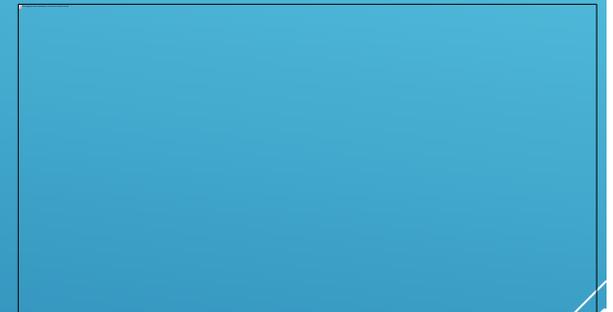
Forests



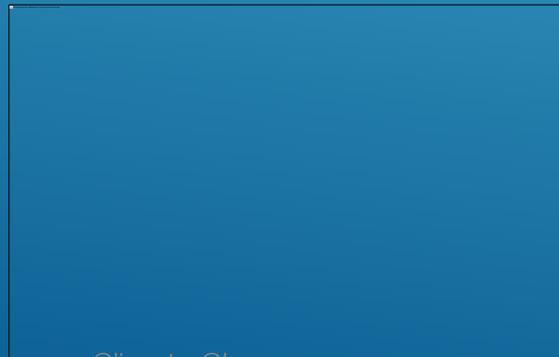
Agriculture



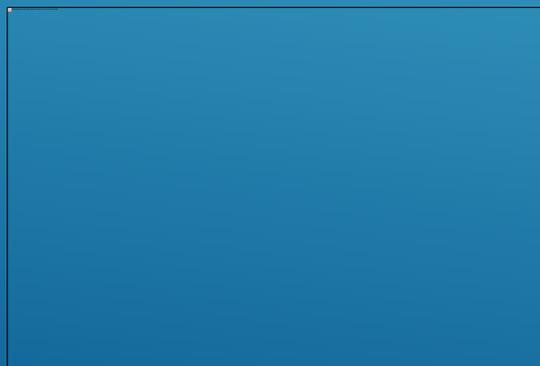
Water Supply



Oceans



Salmon



Humans

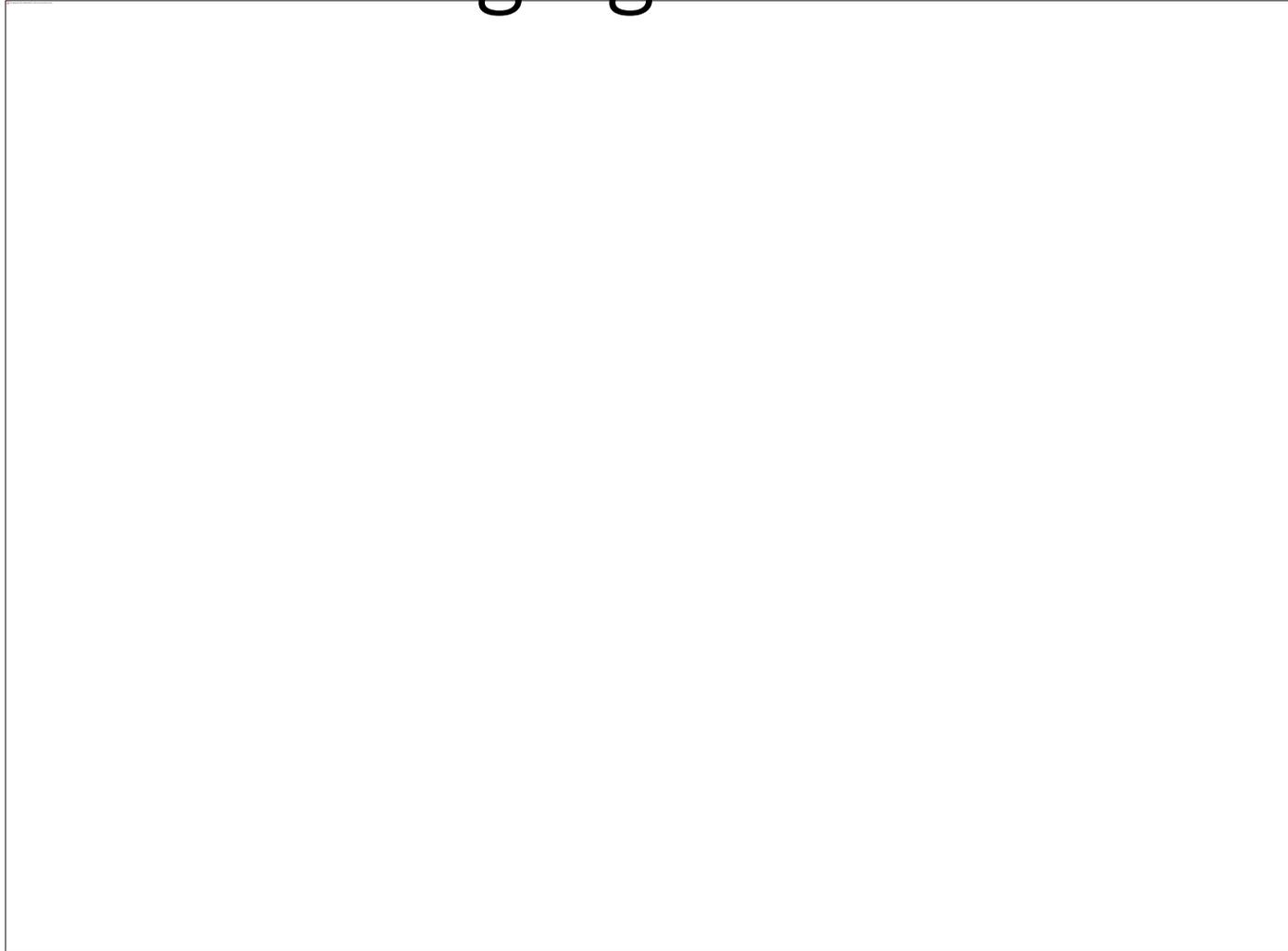


**THE CLIMATE IS CHANGING
OUR LANDSCAPE IS CHANGING**

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Idaho is changing

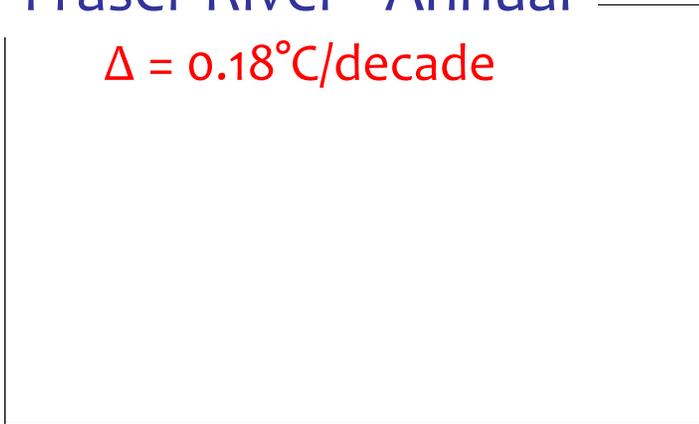


<http://webpages.uidaho.edu/jabatzoglou/PDF/IndicatorsofClimateChangeldaho.pdf>

Temperature Trends In Northwest Rivers

Fraser River - Annual

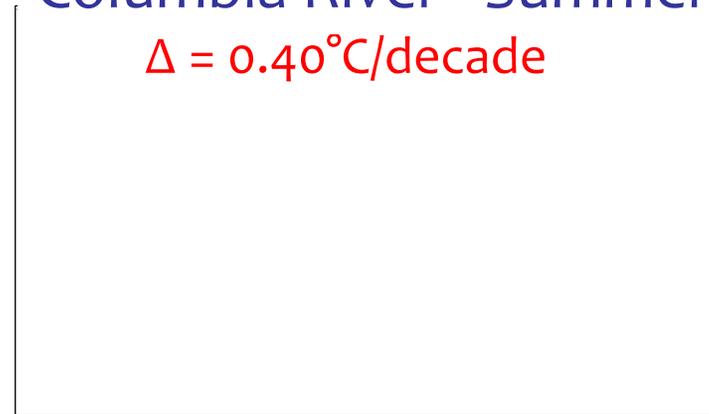
$\Delta = 0.18^{\circ}\text{C/decade}$



Morrison et al. 2001

Columbia River - Summer

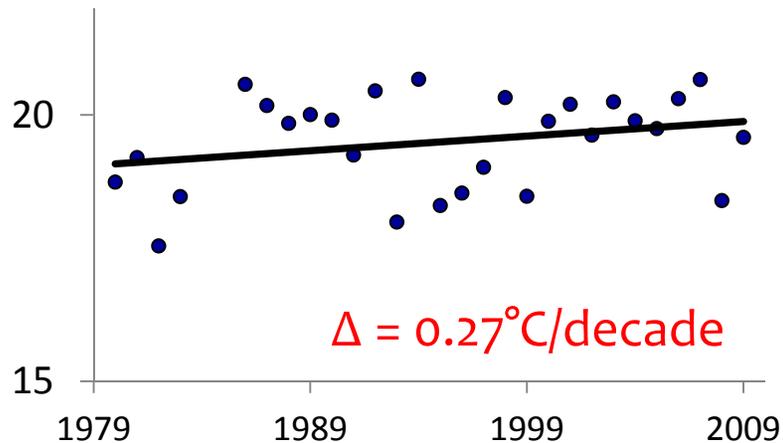
$\Delta = 0.40^{\circ}\text{C/decade}$



Crozier et al. 2008

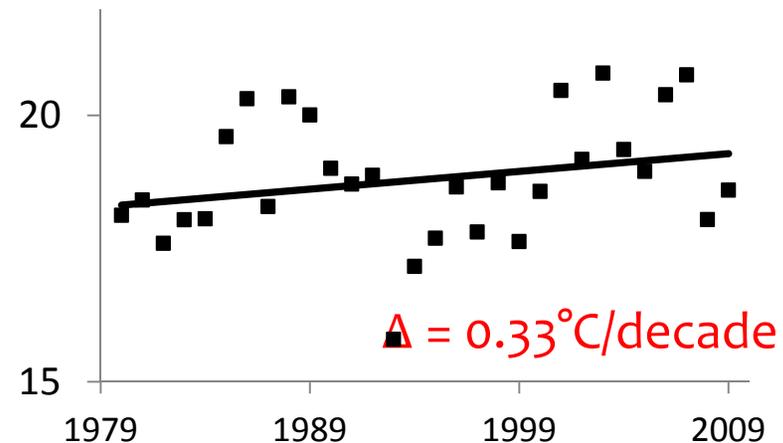
Snake River, ID - Summer

$\Delta = 0.27^{\circ}\text{C/decade}$



Missouri River, MT - Summer

$\Delta = 0.33^{\circ}\text{C/decade}$



Isaak et al. 2012. *Climatic Change* 113:499-524.

Key Impact: Loss of April 1 Snow Cover

Medium

-29%

-44%

-65%

Low

-27%

-37%

-53%

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Why? Spring snowpack is projected to decline as more winter precipitation falls as rain rather than snow, *especially in warmer mid-elevation basins*. Also, snowpack will melt earlier with warmer spring temperatures

2014 National Climate Assessment

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6/19/2015

WATER AND ENERGY



Idaho Ranks 42nd in Per
Capita GHG Emissions



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Presidents Climate Action Plan

Reduce GHG
Emissions

Assist
Communities to
Prepare/Adapt

Lead
International
Efforts

2005 Level

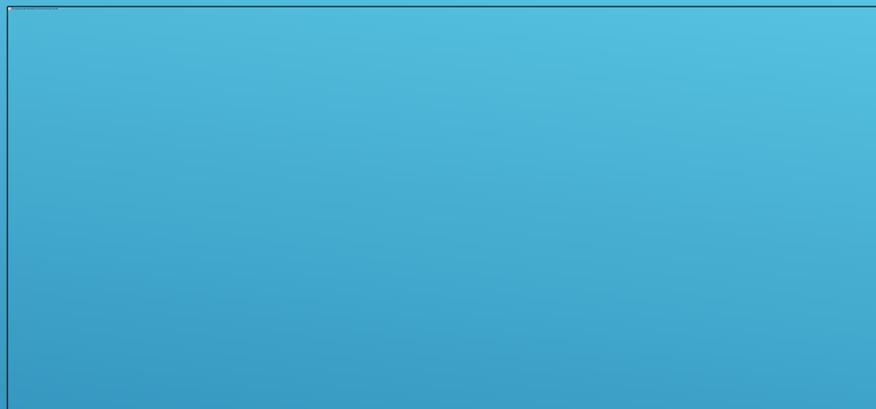


2025 Goal

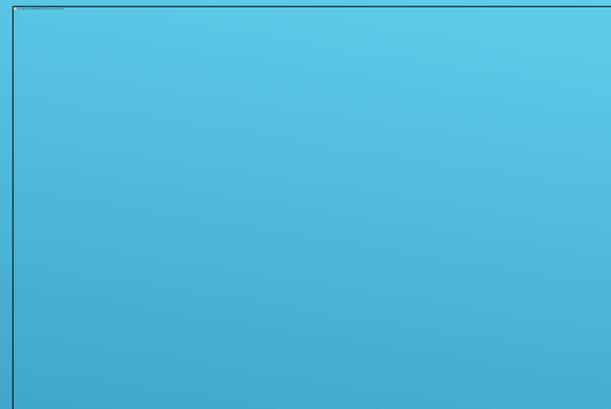


Goal: 26-28% reduction by 2025 from 2005 level

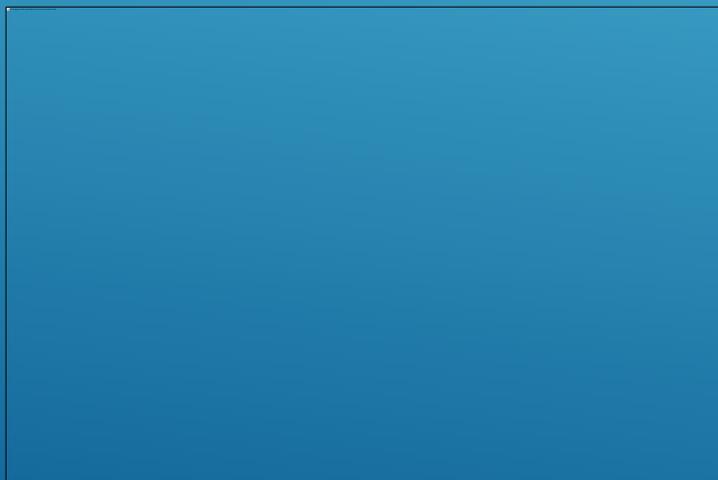
REDUCE GHG EMISSIONS



New/Existing Power Plants



35 mph to 54 mph



Energy Efficiency/Conservation



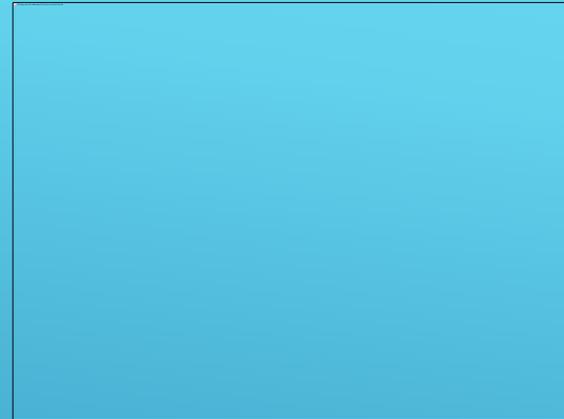
Methane

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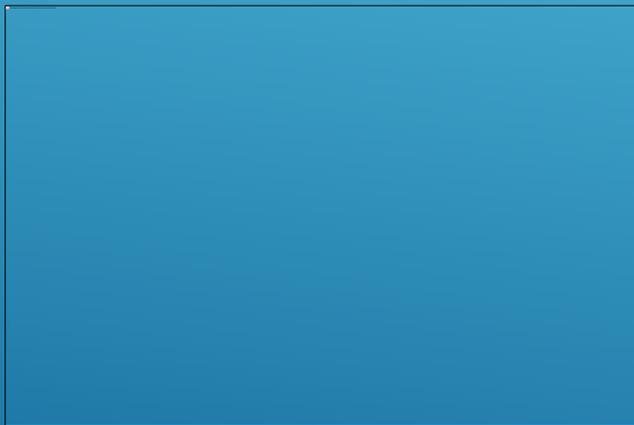
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Waste Reduction/Recycling



Eat, Don't Waste



Conserve our Water



Move differently

REDUCE GHG EMISSIONS

BUSINESS AS USUAL:
4-12 DEGREE CHANGE
IN AVERAGE GLOBAL
TEMPERATURE

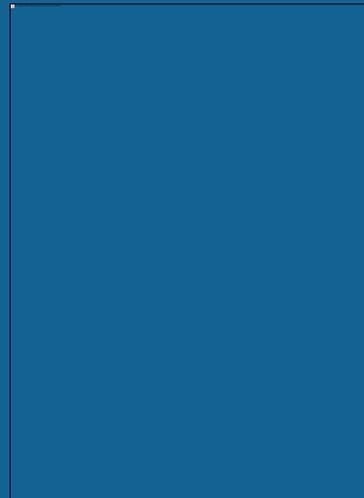
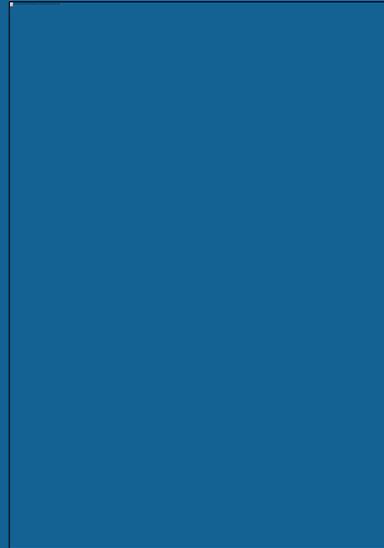
SIGNIFICANT CHANGE:
2-5 DEGREE CHANGE
IN AVERAGE GLOBAL
TEMPERATURE

SOURCE: US EPA

Prepare and Adapt



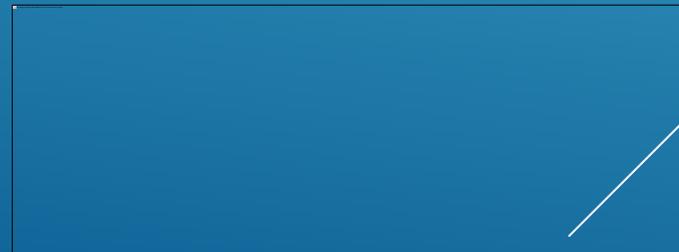
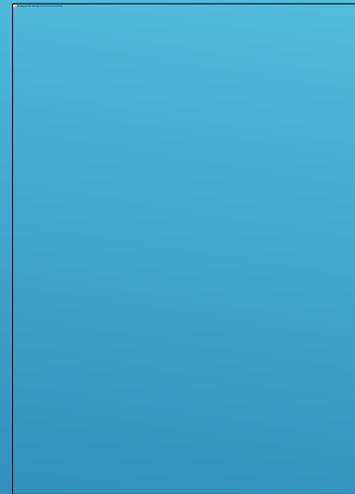
20 Years of UN Conferences



???

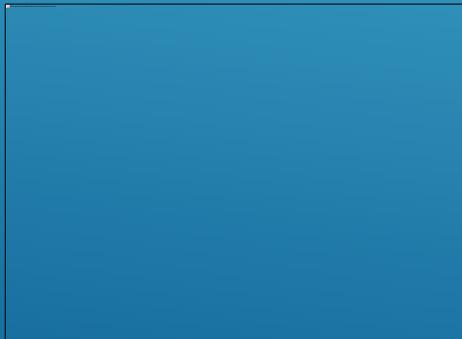
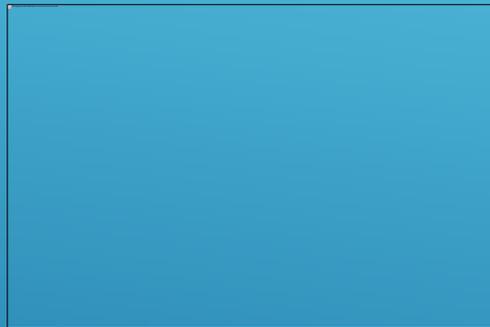
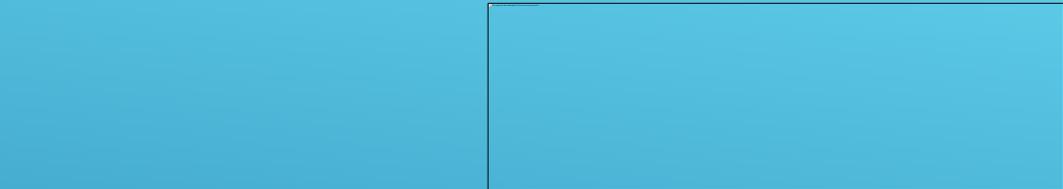
SUSTAINABILITY AND CLIMATE INITIATIVES

- ▶ Sustainable Communities
- ▶ Smart Growth
- ▶ Green and Renewable Energy
- ▶ Sustainable Water
- ▶ Materials Management
- ▶ Models and Tools



EPA REGION 10: RESILIENCE

- ▶ Green infrastructure.
- ▶ Prepare water utilities.
- ▶ Strategies for hazardous waste sites.
- ▶ Alaska Native Villages.
- ▶ Forests.
- ▶ NEPA Review.



National:

- ▶ Focus on 51 communities
- ▶ Learning how to more strategically work with communities.

R10

- ▶ Three Alaskan Native Villages, AK
- ▶ Nampa, ID
- ▶ N/NE Portland, OR
- ▶ Bremerton, WA

MAKING A VISIBLE DIFFERENCE
IN OUR COMMUNITIES

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MAKING OUR COMMUNITIES STRONG FOCUS ON THE 4 E'S

Environment

Consume less land and water, cause less pollution, and preserve farms and wildlife habitats

Economy

Succeed economically and attracts businesses and a skilled workforce

Equity

Create more choices in transportation, affordable housing, and jobs for all residents

Engagement

Encourages greater participation in community planning and civic life

WHAT ARE
YOU GOING
TO DO TO
MAKE YOUR
COMMUNITY
STRONG?



QUESTIONS?

*STRONG COMMUNITIES:
SUSTAINABLE
RESILIENT
VIBRANT*

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