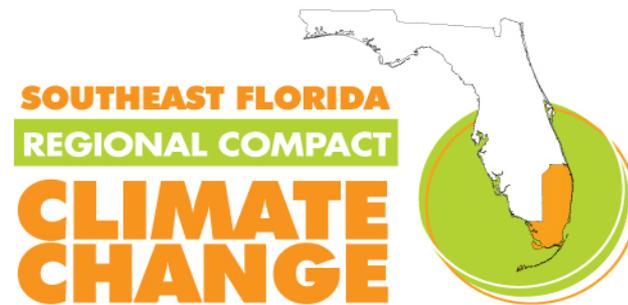


# A Regional Response to Certain Change



**Debbie Griner**

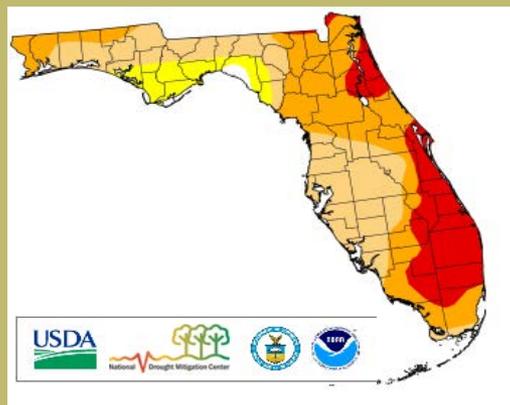
Dept. of Regulatory & Economic Resources  
Miami-Dade County



# Changing Temperatures



# Extreme Weather

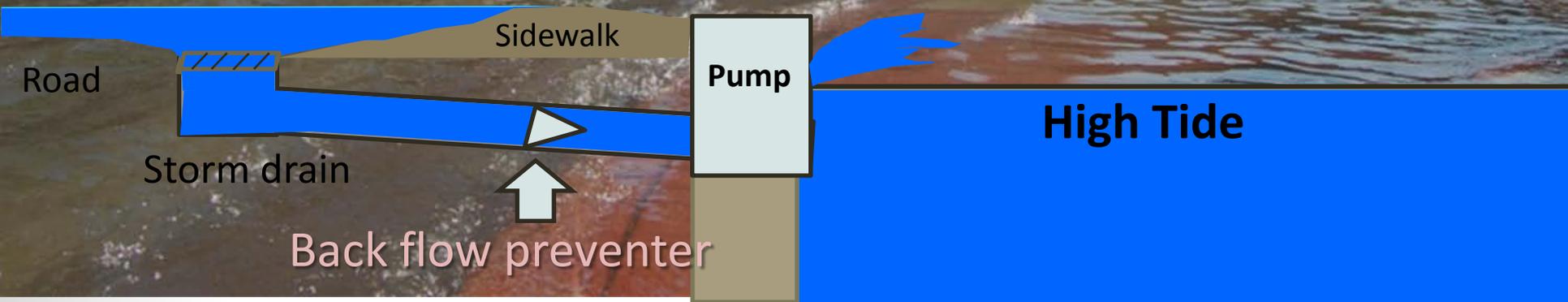


# Sea Level Rise



Rainfall during an extreme high tide can cause additional coastal flooding.

Stormwater cannot drain



Road

Sidewalk

Pump

High Tide

Storm drain

Back flow preventer

# Tidal & Extreme Weather Events



Mobility & Infrastructure



Daily Routine

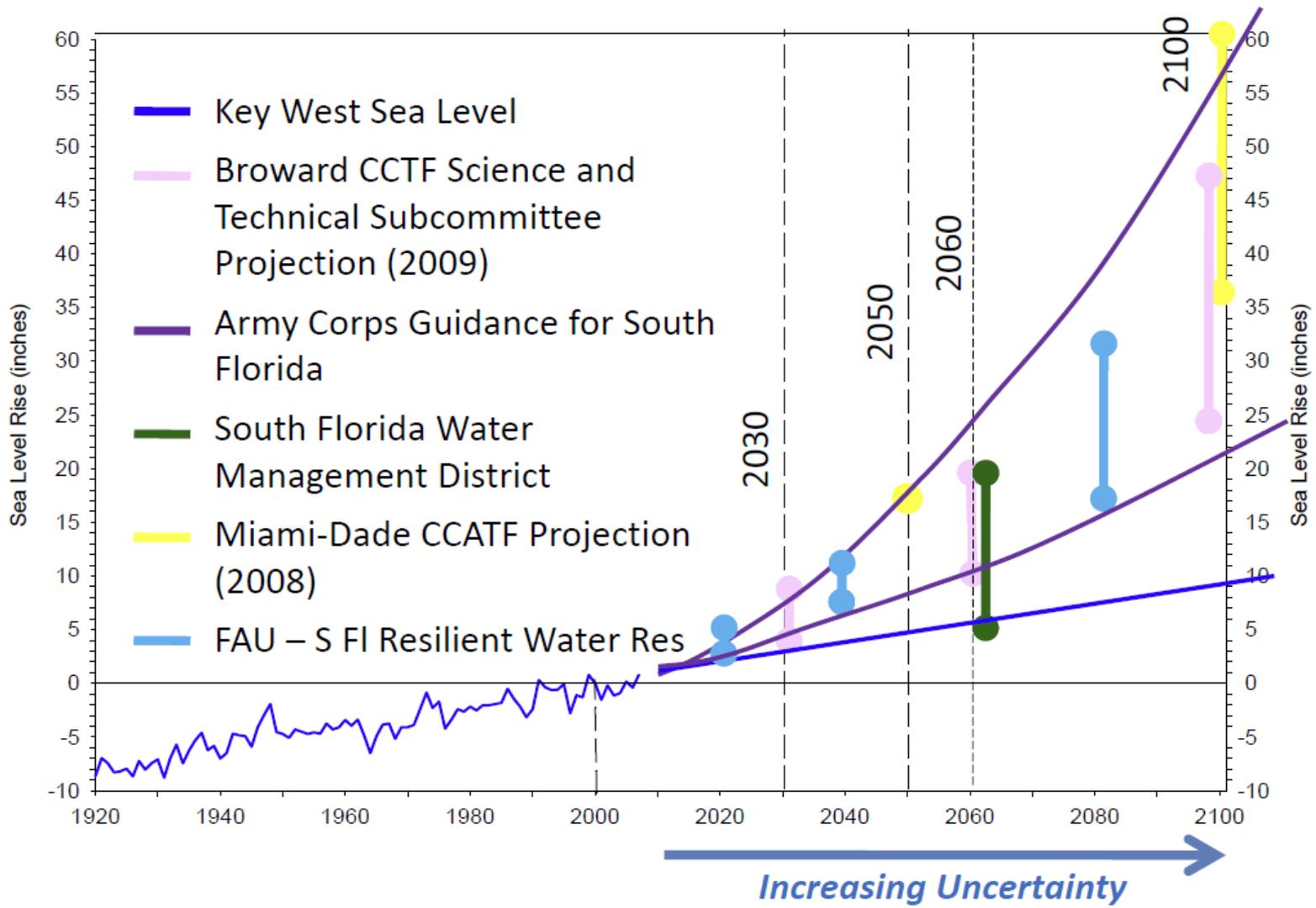


Local Economy/Services



Quality of Life

# Before the Compact



# Compact Background

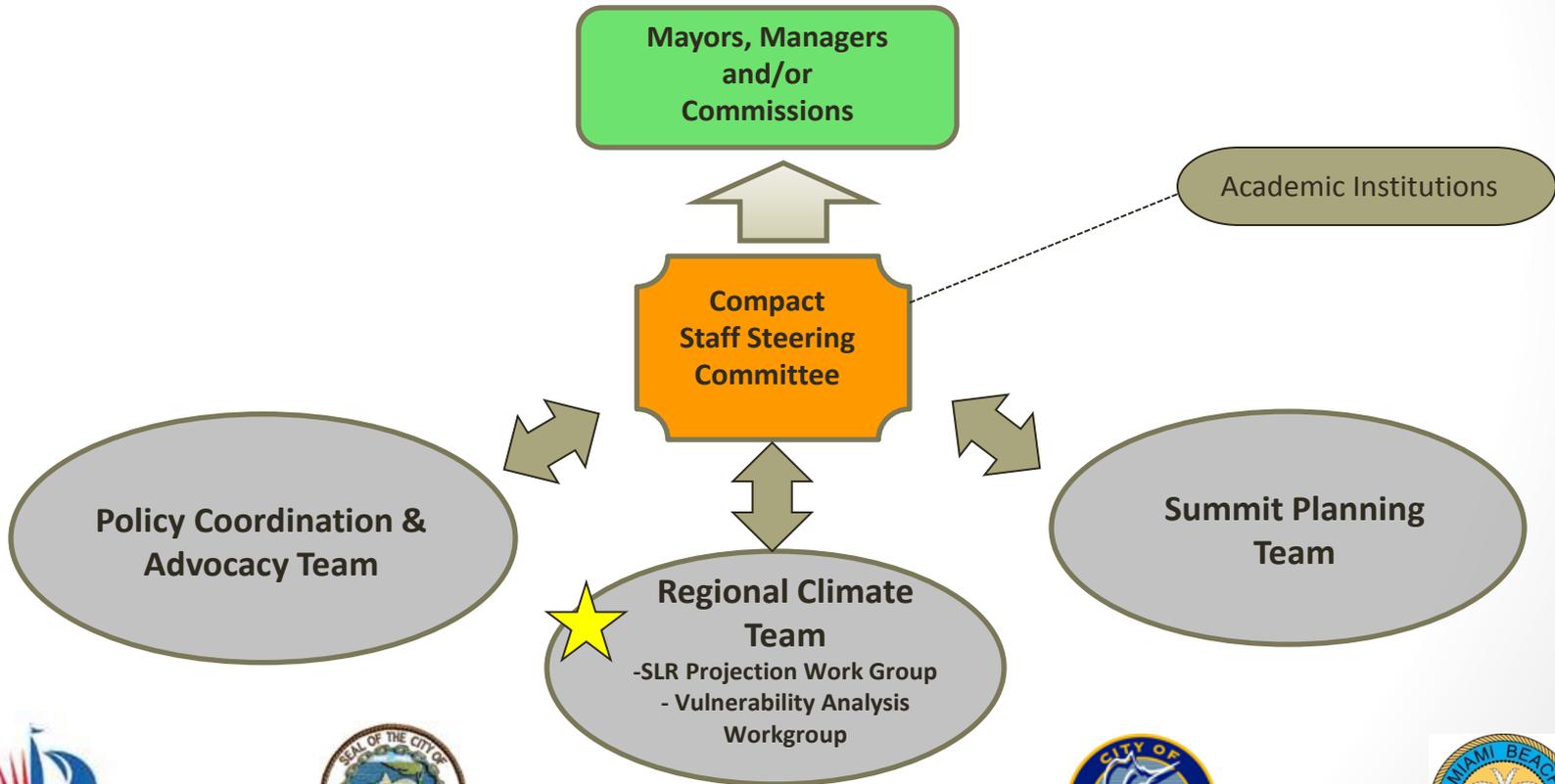


Adopted by all four counties by January 2010

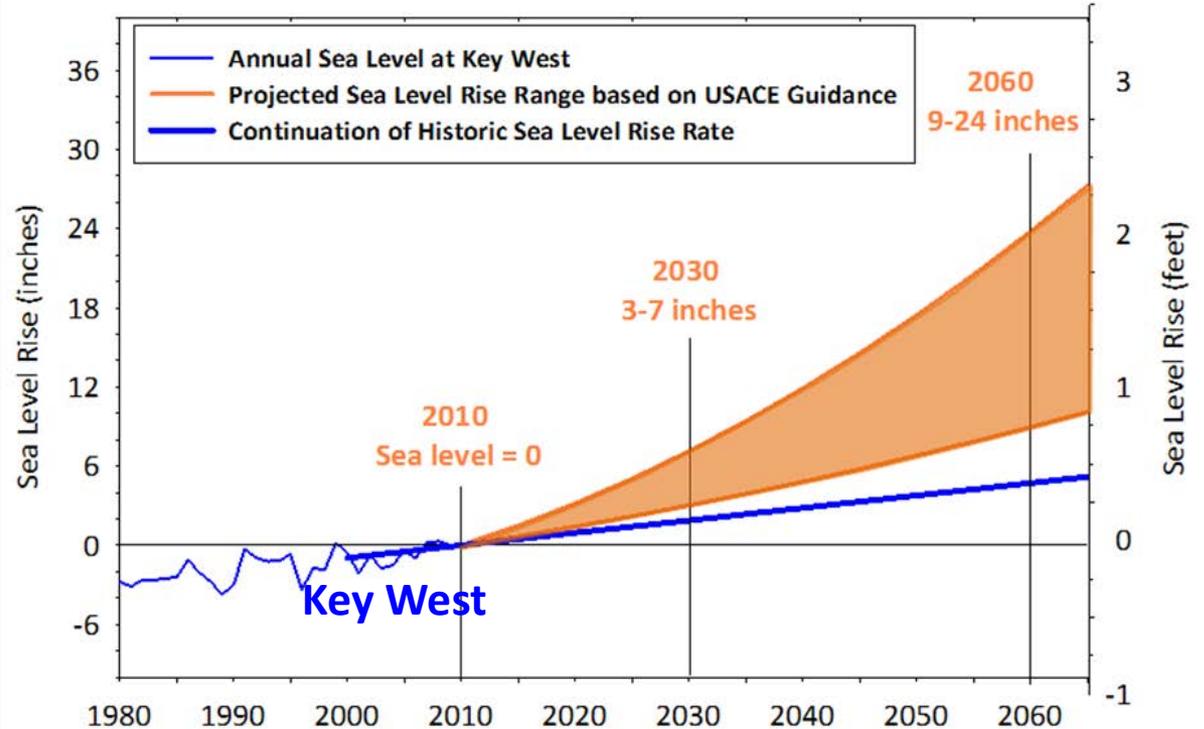
- Joint legislative policy development
- ✓ Regional GHG baseline
- ✓ Regionally Consistent SLR Mapping
- ✓ Preliminary Inundation Mapping
- ✓ Develop Regional Climate Action Plan
- Convene Annual Leadership Summits



# Compact Structure



# Unified SLR Rise Projection



1 foot = 2040 – 2070

2 foot = 2060 – 2115

3 foot = 2075-2150

# Define & Communicate Limits of Uncertainty

- Projections are educated estimates of the future
- Uncertainty exists in *precisely* predicting sea level rise and other impacts
- The unified projection provides guidance to initiate planning now
- Review and update projection every 4 years



# Responding to New Information

## *Question to SLR Work Group*

Recognizing that sea level rise projections represent a range, is the 2 ft scenario a reasonable representation of the range of possibilities for the 2060 time period?

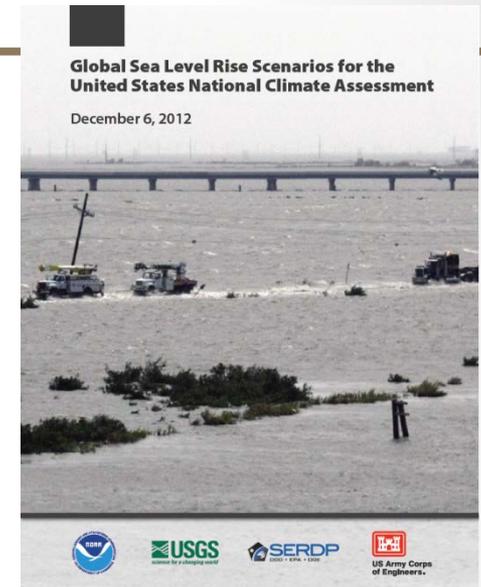
## *Consensus*

Yes, the 2-foot scenario is reasonable, reflecting a value in the upper range of possibilities for 2060.

## **Recommendation to Staff Steering Committee:**

- A companion document be created for the original white paper
- Revise SLR projection following release of 2014 IPCC documents

**Benefit: We don't get stuck!**



Analysis of the Vulnerability of  
Southeast Florida to  
Sea Level Rise

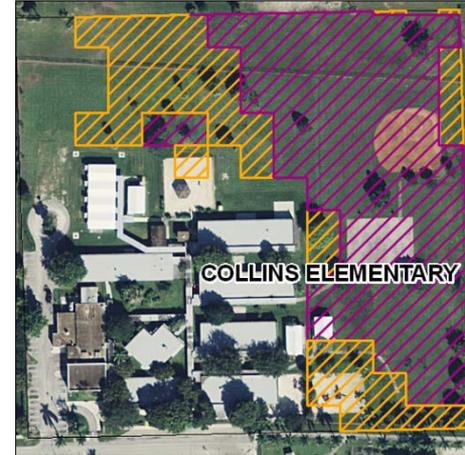
Southeast Florida Regional Climate Change Compact  
Inundation Mapping and Vulnerability Assessment  
Work Group  
August 2012



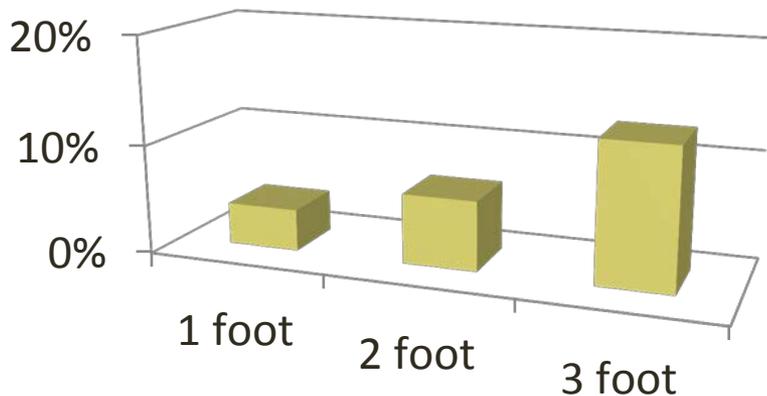
# Regionally Vulnerable Infrastructure

## Schools Vulnerable at 3 ft

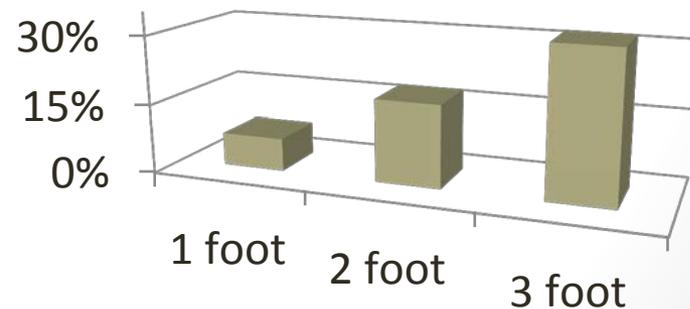
- 1.5% of total in SE FL region
- 82% of schools in FL Keys



## SE FL Hospitals with Property below Sea Level



## SE FL Airports with >20% Property below Sea Level



# Collaborating Partners

## Lending Expertise & Resources



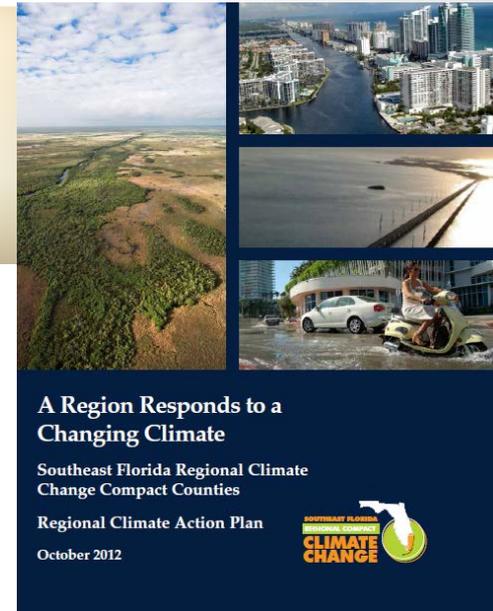
# The Regional Climate Action Plan

To **integrate** climate adaptation and mitigation into **existing** systems.

To **implement** through **existing** local and regional organizations.

5 year timeframe

- Sustainable Community and Transportation Planning
- Water Supply, Management and Infrastructure
- Risk Reduction and Emergency Management
- Energy and Fuel
- Natural Systems and Agriculture
- Outreach and Public Policy



Includes companion  
Implementation Guide

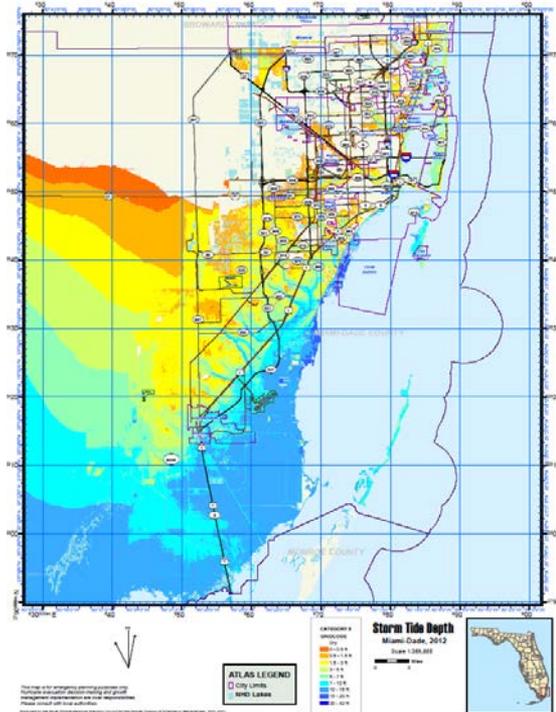
>100 Recommendations  
Adaptation and Mitigation

[Download at www.southeastfloridaclimatecompact.org](http://www.southeastfloridaclimatecompact.org)



# A Region Taking Action Now

Integrating CC into Local Mitigation Strategy & Comprehensive Land Use Planning



# Transit Oriented Parks – a 2-fer!



## Projects:

- 27<sup>th</sup> Ave.
- Metrorail
- US 1
- Ludlam Trail

# Building Resilience at Every Scale of Government



# Conclusions

- SE Florida is vulnerable and experiencing climate impacts now
- Action takes leadership – staff and electeds
- Overcoming uncertainty requires effective engagement of local science experts
- Local and regional planning now can address risks and reduce future vulnerability:
  - **Integrate** into *existing* systems
  - **Implement** through *existing* organizations
- Working at every level of government is necessary to build regional climate resilience



*Adaptation  
in Action*