

Climate Science and Water Supply Planning





Today's **OBJECTIVES**

1. Learn about climate change, climate variability and sea level rise projects/programs relevant to water utilities.
2. Share research progress/results of NOAA project technical groups (focus on seasonal scale forecasts).
3. Learn about, and contribute to, the working group's Knowledge Management System (KMS).
4. Advance working group interests and sustainability.



Working Group Sustainability

Why the working group
matters?



Working Group Sustainability

- Collaborative Framework
- What's in a name?
- KMS?
- Research Agenda to PROPOSALS?
- Need for statement of collaboration?

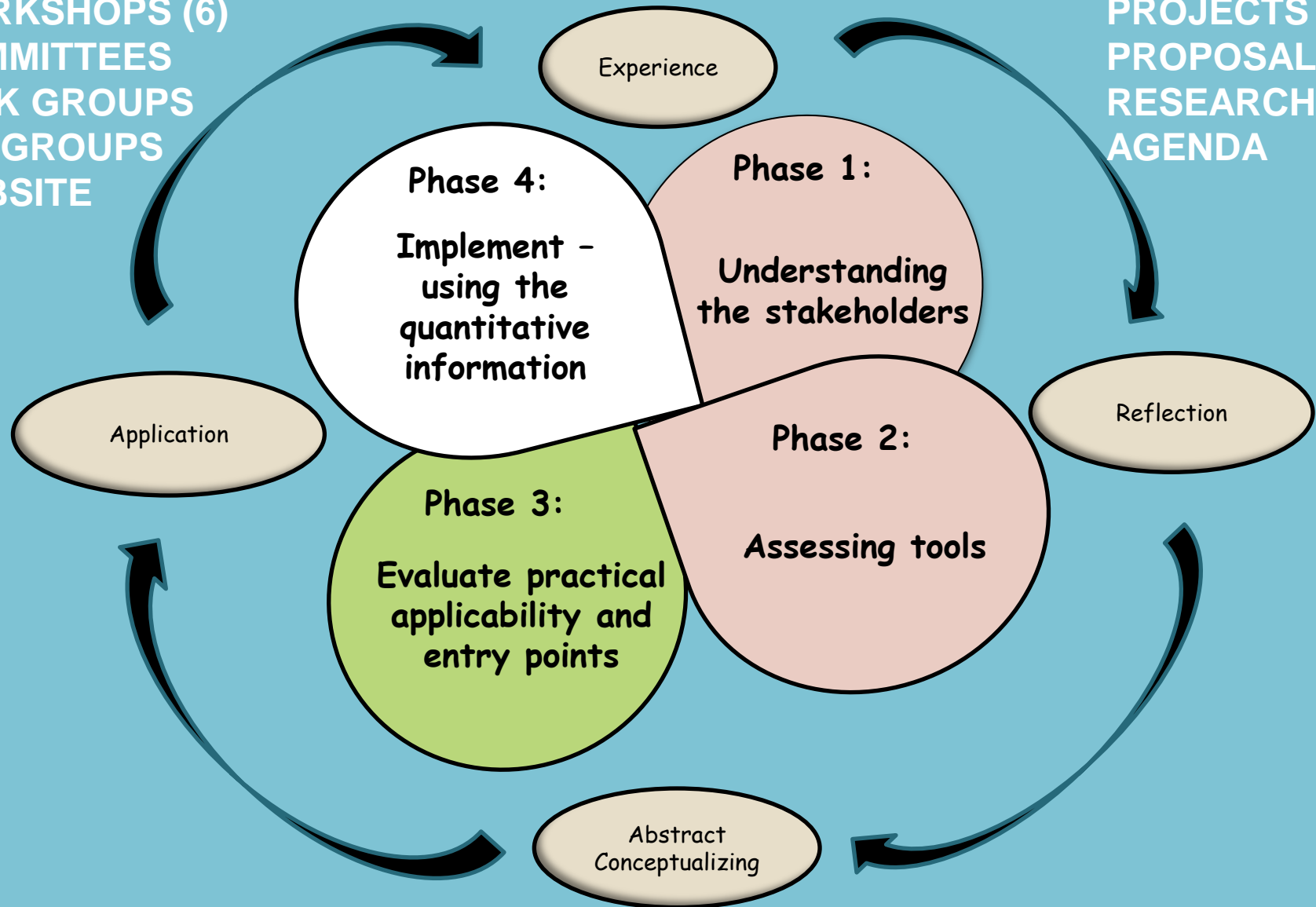
Working Group Sustainability

- Collaborative Framework
 - What's in a name?
 - KMS?
 - Research Agenda to PROPOSALS?
 - Need for statement of collaboration?

PWSU-CIWG Conceptual Framework

WORKSHOPS (6)
COMMITTEES
TASK GROUPS
SUBGROUPS
WEBSITE

PROJECTS (1)
PROPOSALS (5)
RESEARCH
AGENDA



KNOWLEDGE SHARING, CREATION , APPLICATION AND MANAGEMENT

Working Group Sustainability

- Collaborative Framework
- What's in a name?
- KMS?
- Research Agenda to PROPOSALS?
- Need for statement of collaboration?

What's in a name?

FLOW	FLORida Water (supply) utilities climate impacts working group
GUCCI or GUCCIS	Group of Utilities for Climate Change Impact (Studies)
FUSE or FUSES	Florida Water Utility and Science for Environmental Sustainability
Florida CUP	Florida Climate Utility Partnership
FAUCET or FAUCET	Florida Alliance of University and Public Water Utilities for Climate (Effect)
PWSU-CIWG	Public Water Supply Utilities Climate Impacts Working Group
FLOW	FLORida Water: Public Utilities and Climate Science Partnership
CIGAR or CIGART	Climate Impacts Group Alliance for Research and Technology
FLOWCSA	FLORida Water Climate Science Alliance
?????????	??

Working Group Sustainability

- Collaborative Framework
- What's in a name?
- KMS?
- Research Agenda to PROPOSALS?
- Need for statement of collaboration?

PUBLIC WATER SUPPLY UTILITIES- CLIMATE IMPACT WORKING GROUP
UTILITY RESEARCH AGENDA DRAFT

Climate AREAS	Utility Needs	Available tools	Research Needs	Current Projects	Additional Research Needs
Temperature Impacts					
Rainfall Impacts					
Storms/Hurricanes					
Sea Level Rise					
Carbon Emissions					
Social Science					

POTENTIAL FOR PROPOSALS ?

Working Group Sustainability

- Collaborative Framework
 - What's in a name?
 - KMS?
 - Research Agenda to PROPOSALS?
- Need for statement of collaboration?

Public Water Supply Utilities Climate Impacts Working Group (PWSU-CIWG)

Draft

Declaration of Collaboration

May 2011

Stakeholders representing several Water Supply Utilities, Water Management Districts, and Academic Organizations in Florida have mutually agreed to establish a COLLABORATION that will focus on increasing the relevance of climate change and variability information, data and tools to the planning and operations of Florida's public water supply utilities.

Participating Organizations include

Water Supply Utilities
Gainesville Regional Utilities
Miami-Dade Water and Sewer
Department
Palm Beach County Water
Utilities
Peace River Manasota
Regional Water Supply
Authority
Tampa Bay Water
Others?

Water Management Districts
Saint Johns River WMD
South Florida WMD
Southwest Florida WMD
Others?

Academic Organizations
University of Florida Water
Institute
Florida Climate Institute
Florida State University, COAPS
South East Climate Consortium
UF/IFAS Center for Public Issues
Education
Others?

Statement of Need

The impacts of climate variability and climate change on water supply reliability, and adapting to changing hydrologic conditions is becoming a particularly pressing challenge for major public water suppliers in Florida. In addition to these uncertainties, the Florida utilities face multiple issues including: a push toward the use of alternative water supplies; environmental, social, fiscal and regulatory challenges; and implementing both short and long range solutions complicated by risks and uncertainties. To meet current and future water demands in the face of uncertainties and risks presented by climate change and variability, public water supply utilities will need reliable information on probable impacts for Florida at local and regional spatial and temporal scales.

A lack of climate change models with probable scenarios for sea level rise, temperature change, and altered rainfall patterns for Florida is a challenge to updating water supply planning. The uncertainty of the information, the credibility, complexity, and scales of existing data and models present significant challenges. Understanding, monitoring and modeling climate variability/change and sea level rise at the local to regional scale, and assessing the relevant uncertainties in this information, is important before this information can be used to improve operations/forecasting/ planning.

Timeframe

The collaboration will be for 24 months, from _____through _____; however, the Partners acknowledge the right of the other to extend or discontinue the collaboration at any point.