



# Framework for Committee F: Engineering Activities in the Planning Process for Water Resource Projects

Addressing the Cross Cutting Issues of the Present and Future

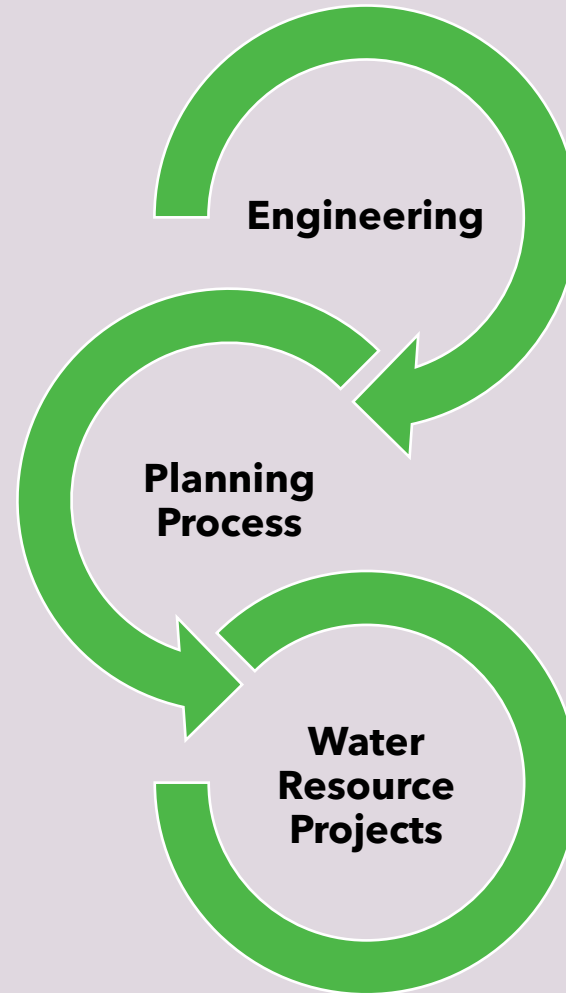
# Topics

- What is Committee F?
- The Focus of Committee F
- Why is a Reset of Committee F Important?
- What are the Cross-Cutting Issues?
- What is the New Framework and Specific Actions for Committee F?

# What is Committee F?

## **Engineering** Activities in the **Planning Process** for **Water Resource Projects**

The Planning Process is the Decision Process by which *New Projects and Major Modifications to Existing Projects* are Conceptualized and Justified. These are governed in part by the regional governance, laws, and cultures and in part by International Best Practices in Plan Formulation.

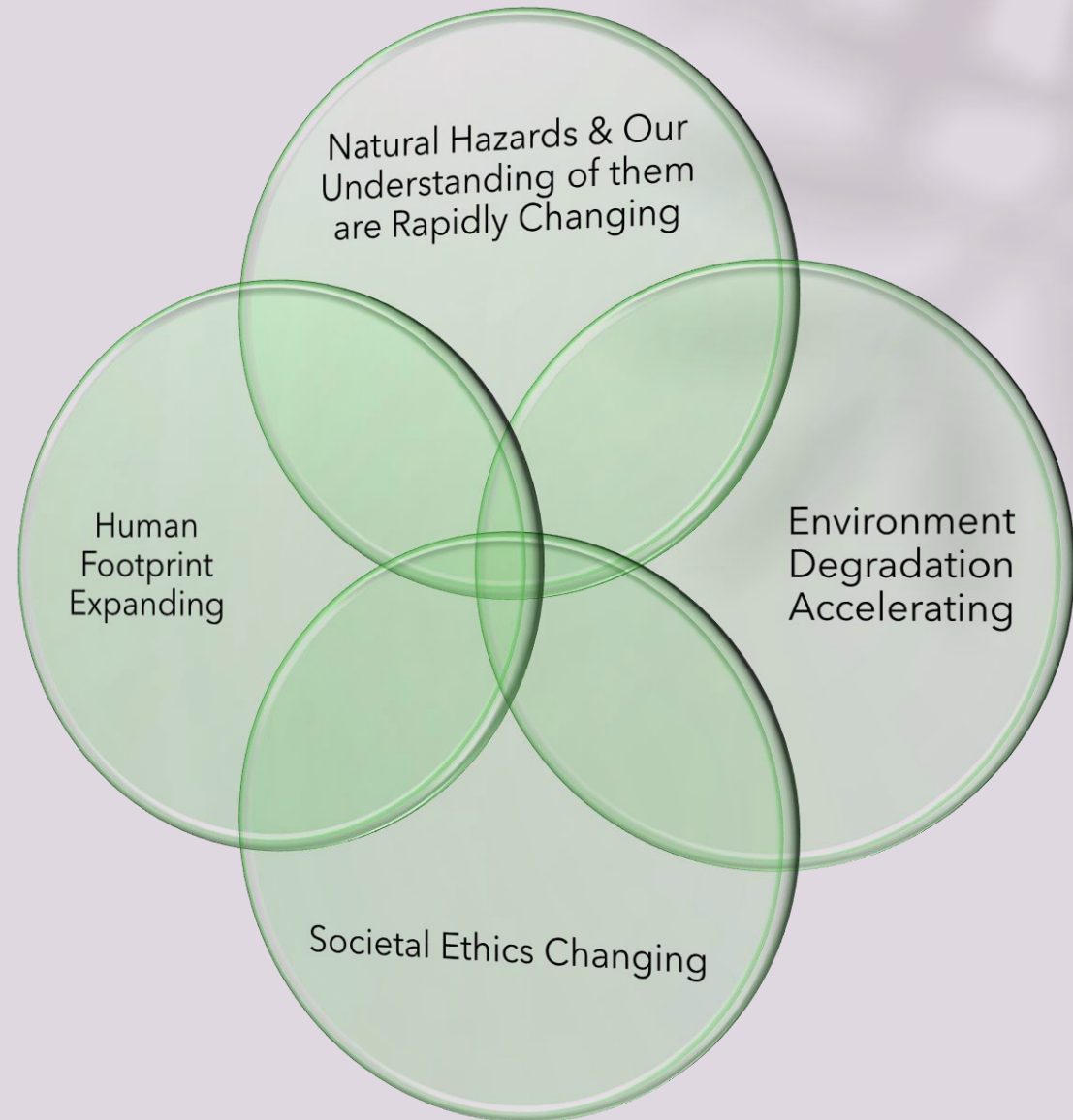


Site Investigation & Selection, Hazard Analysis, Problem Identification, Plan Formulation, Conceptual Design, Scheduling, & Cost Estimation, and Evaluation & Comparison of Alternatives, collectively are the Inputs to the Planning Process

Dams, Levees, and other Water Resource Projects that Deliver Benefits in Flood Protection, Hydropower, Navigation, Water Supply, Recreation, and Environmental Enhancement

# Why We Must Think About the Future in an Integrated Manner

- Water Resource Projects are Civil in Nature - They are Integral With and Serve Interests of Society
- The Ethics, Technology, and Environment of Society are Rapidly Changing
- Our Planning for the Next Few Generations of Water Resources Need to Better Consider These Changes



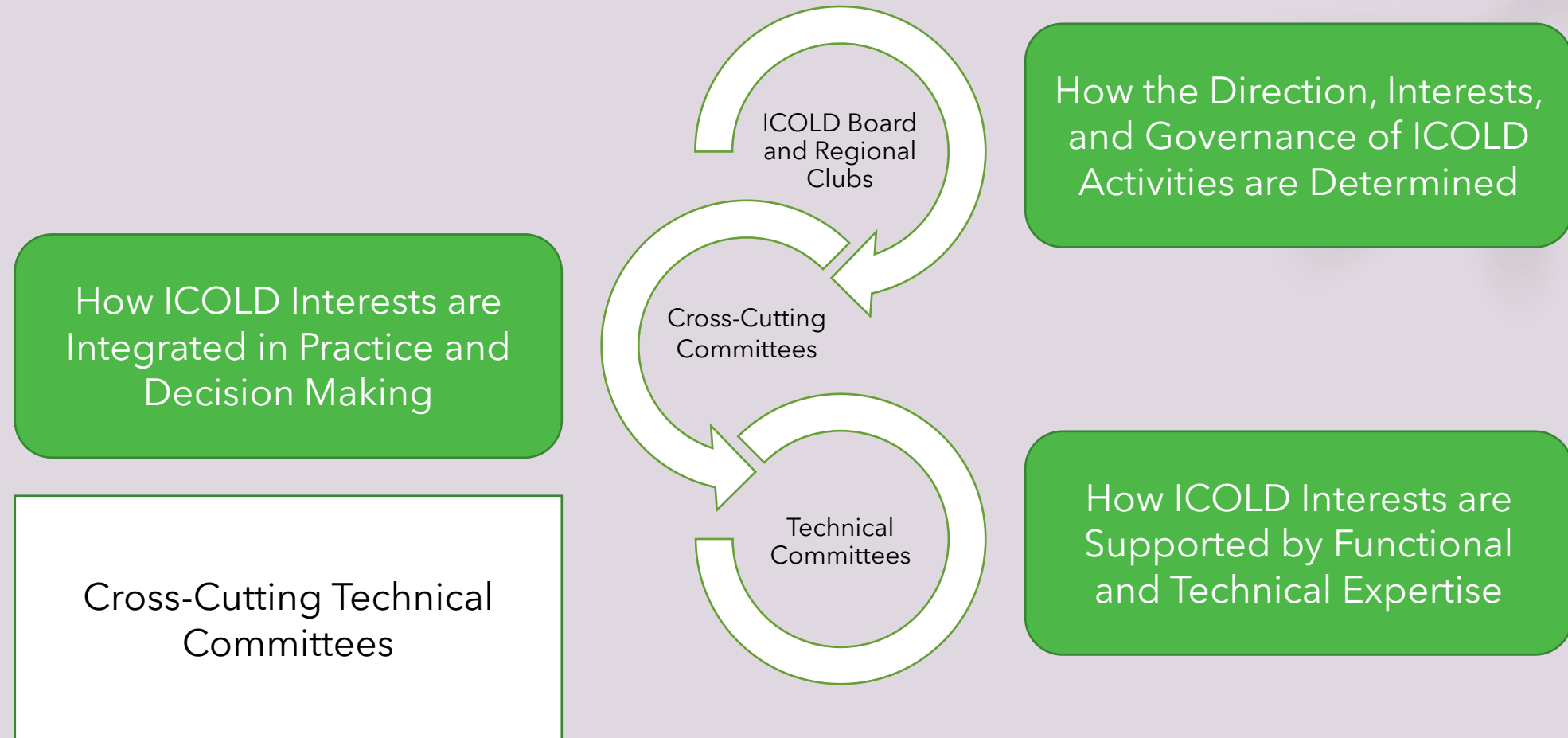
# Focus of Committee F: Engineering Activities for Planning of Water Resource Projects

## ***Principles for the Path Forward:***

- Focus on New Projects First, Then Modifications Second
- Address Cross Cutting Issues in a Coordinated Manner within ICOLD Community
- Include Adaptive Approach to Regional Planning Objectives

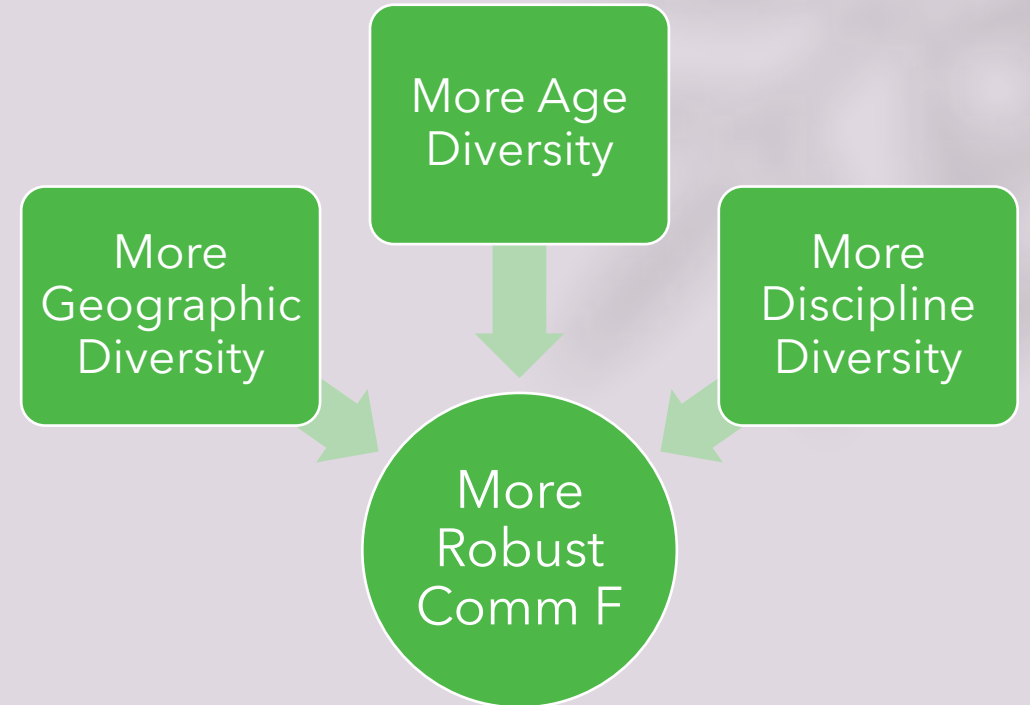
- Develop a Path Forward (Bulletins, etc.) for Reset of Committee to Responsibly Address Needs of Water Resource Infrastructure for Next Two Generations:
  - New Bulletin Outline (2022)
  - Seek Feedback from Other Committees (early 2023)
  - Present Final Draft Outline in Sweden ICOLD (mid 2023)
  - Finalize Draft of Bulletin (2023-2024)

# The System of ICOLD Operations As It Relates to Committee F Scope of Work



# Changes Needed in Committee F Membership

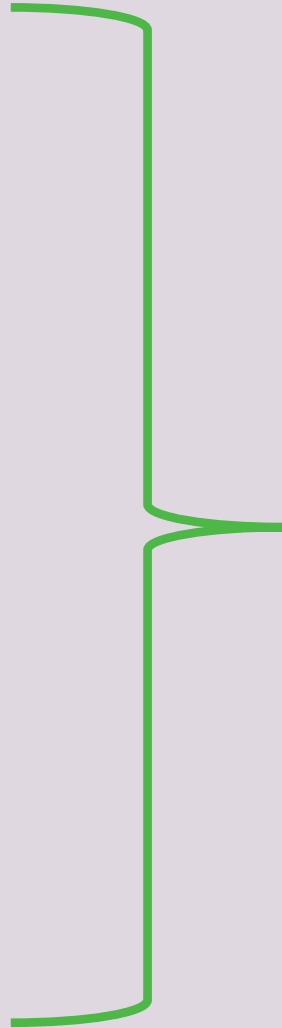
- Because the Topic is About the Future of Projects, Young Professionals are Needed
- The Committee should Reflect that New Construction is Occurring in Africa, Asia, & South America while Major Modifications are Occurring in North America, Europe, and Australia
- Critical Input is Needed from a Broad Range of ICOLD Committees and Expertise



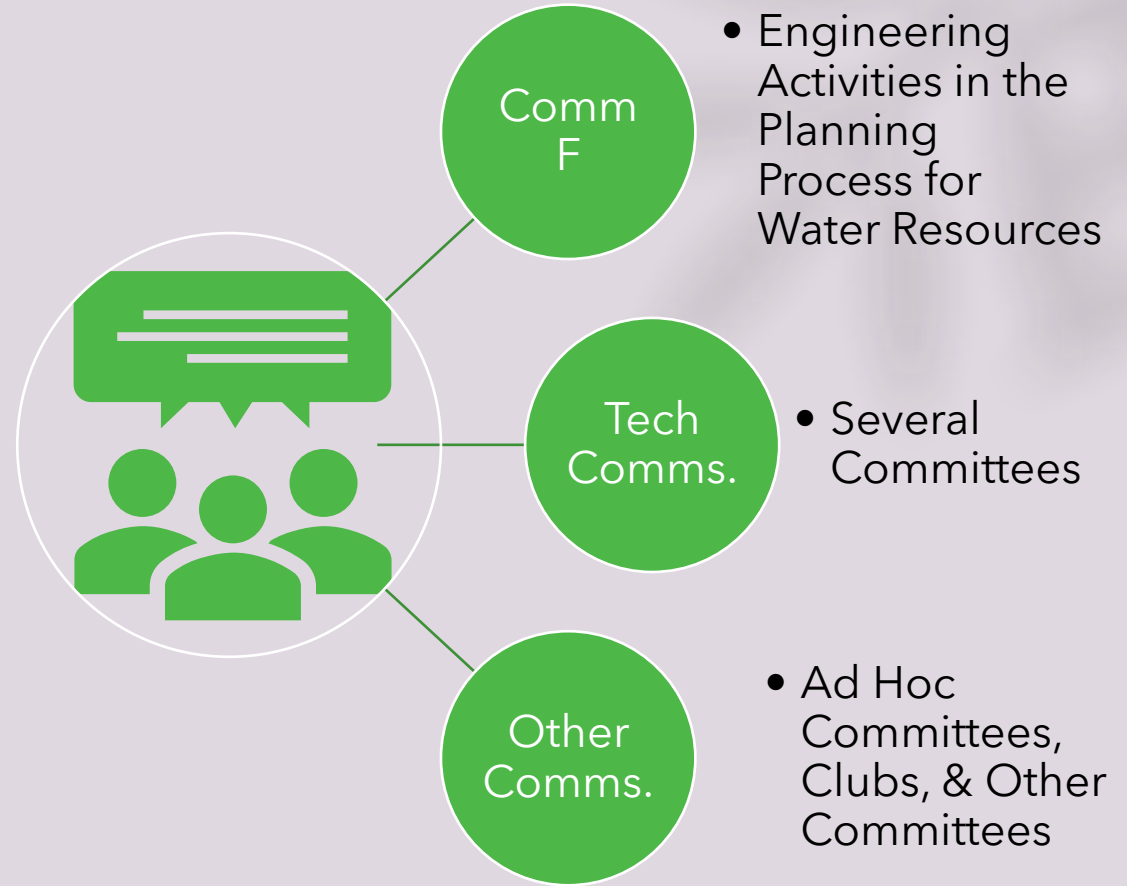
We Need the Help of Regional Clubs,  
Technical Committees, and National  
Affiliates with *Membership!*

# Cross Cutting Issues

-  Climate Change
-  Risk Informed Decision Making
-  Sustainable Development
-  Environmental Concerns
-  River Basins & Systems



# Cross Cutting Committees





# Options to Address Cross Cutting Issues (need decision/direction from ICOLD Board)

