



The Value of the Capacity Development Program

- Protect public health by building the capacity of drinking water systems to achieve safe, reliable drinking water and long-term sustainability
- Helps drinking water systems through capacity building resources:
 - Developing guidance and tools
 - Outreach, training and technical assistance
 - Operator Certification establishes professional standards for operators, promotes compliance, provides training & certification, and encourages continuous learning

EPA WaterTA Supports Communities to:



www.epa.gov/waterta for more information



Identify water challenges



Plan for solutions



Increase community engagement



Improve compliance and access to safe and clean water services



Build technical, financial, managerial capacity



Develop application materials to access water infrastructure funding



History of the Safe Drinking Water Act (SDWA)

1986

passed that brought about substantial **SDWA** was changes to the passed by national drinking water **America's Water** Congress. program. First major Infrastructure amendments 1996 **Act Passed and** 1974 passed. amended SDWA

Major amendments

2018

EPA Celebrates Progress in ProtectingAmerica's Drinking Water

Number of drinking water systems pre-1970 that failed to meet even the most basic standards

92%
Number of community water systems today

that meet all heath-based standards

EPA has developed standards for more than 90 contaminants



including microorganisms, disinfectants, disinfection byproducts, inorganic and organic chemicals, and radionuclides



Financing and funding support

DWSRF: \$41 billion for over **15,000** drinking water projects

Public Water System Supervision Grants: \$2.3 billion

Technical Assistance Grants: \$162 million

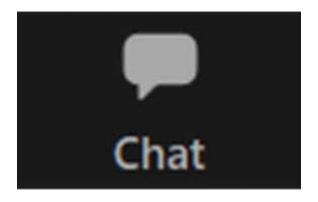
WIIN grants: \$126 million





Let's give ourselves some kudos and share what are some things that your system is succeeding in?

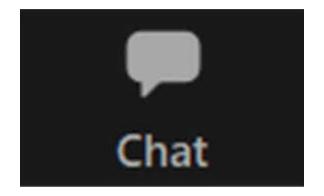
Type in the chat box your success





What is Capacity to you?

Type in the chat box what you think capacity is





noun

noun: capacity; plural noun: capacities

the maximum amount that something can contain.
 "the capacity of the freezer is 1.1 cubic feet"

Similar: volume cubic measure size dimensions measurements

- fully <u>occupying</u> the available area or space. modifier noun: **capacity** "they played to a capacity crowd"
- the total cylinder volume that is <u>swept</u> by the <u>pistons</u> in an internal <u>combustion</u> engine.
 "the cubic capacity is 1171 cc"

competence

competency

- · former term for capacitance.
- the amount that something can produce.
 "the company aimed to double its electricity-generating capacity"
 - the ability or power to do, experience, or understand something.
 "I was impressed by her capacity for hard work"

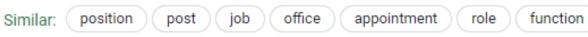
Similar: ability power potential potentiality

• a person's legal competence.

"cases where a patient's testamentary capacity is in doubt"

a specified role or position.

"I was engaged in a voluntary capacity"





In Another Life: Wildlife Conservation



- Trash clean-ups, invasive species removal, habitat restoration improves native wildlife capability to survive and thrive
- Build capacity of communities understanding of conservation efforts and their benefits





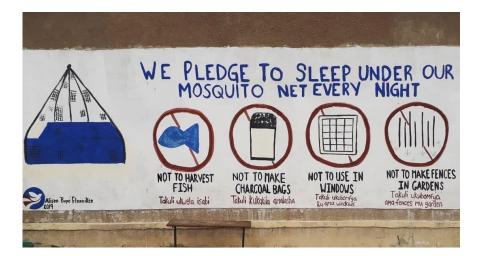


In Another Life: Peace Corps Volunteer

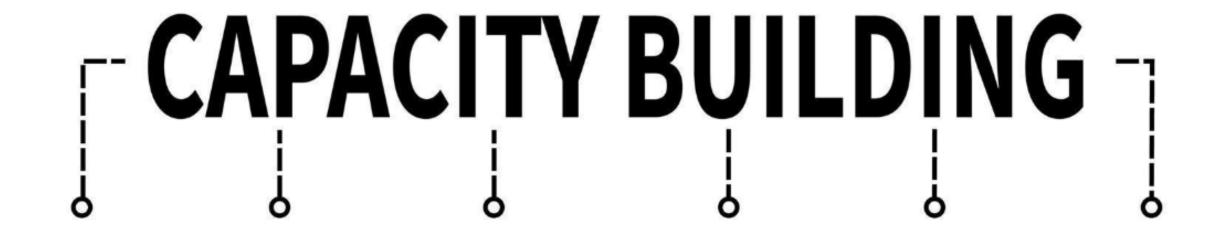




- Sustainable and alternative agriculture practices produces better yield and more income
- Utilizing community leaders for long-lasting change







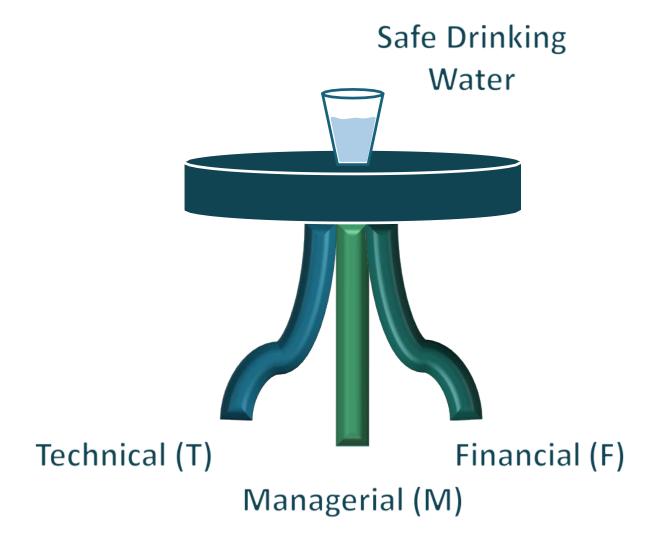
What is Capacity to a Water System?

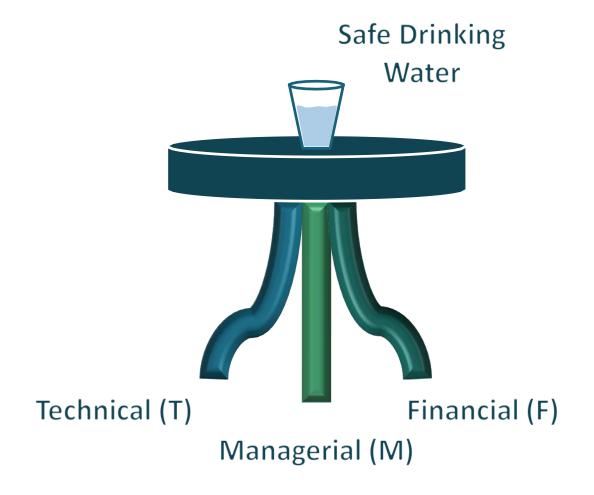
The ability to plan for, achieve, and maintain compliance with applicable drinking water standards

Includes sufficient capabilities in 3 areas:

Technical (T), Managerial (M), Financial (F)







Technical Capacity:

The physical and operational ability of a water system to meet SDWA requirements, including the adequacy of physical infrastructure and the technical knowledge and capability of personnel.

Maintaining high quality source water, replacing outdated infrastructure, and ensuring an operator is certified are all examples of technical capacity.

Elements of Technical Capacity: Source Water Adequacy & Protection

- Reliable source of drinking water
- High quality and adequately protected
- Safe yield to meet current and future demands
- Key attributes include water conservation and drought management



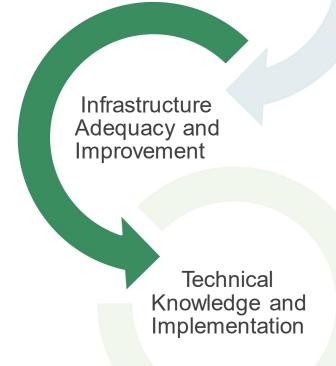
Infrastructure Adequacy and Improvement

> Technical Knowledge and Implementation

Elements of Technical Capacity: Infrastructure Adequacy & Improvement

Source Water Adequacy and Protection

- Water meets SDWA standards
- Adequate infrastructure, from source of supply to treatment to distribution
- Planning to ensure timely infrastructure repairs and replacement



Elements of Technical Capacity: Technical Knowledge & Implementation

Source Water Adequacy and Protection

- Operators have:
 - Appropriate certification
 - Sufficient technical knowledge and the ability to implement that knowledge
 - Understanding of systems' technical and operational characteristics
- System has effective Operation & Maintenance (O&M) strategies
- Emergency Response Planning and Risk Management

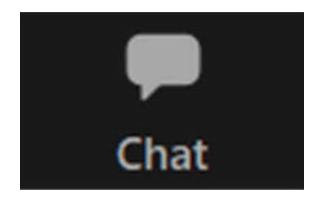
Infrastructure Adequacy and Improvement





If you were to give yourself a grade (0-100), how would you score your technical capacity?

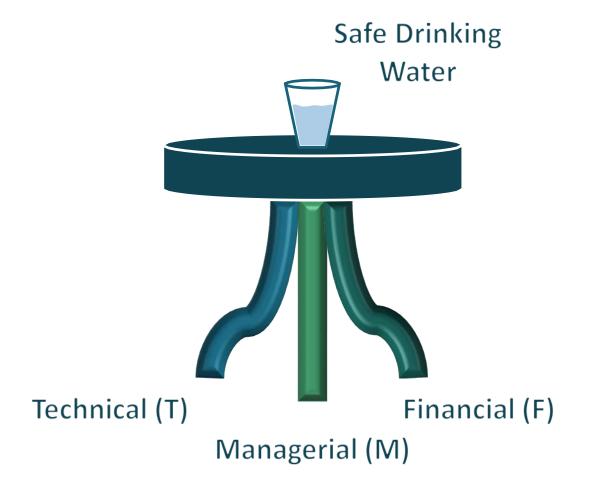
Type in the chat box your score and reasoning



Resources

- <u>Simple Tools for Effective Performance (STEP) Workbooks</u> Series of workbooks designed to guide small systems on regulations
- <u>Emergency Response Plan Template for Drinking Water Utilities</u> Utility personnel can access and modify an ERP template to meet their own system needs
- <u>Electronic Preventative Maintenance Logs</u> Fillable PDF to record and plan regular maintenance duties ranging from daily to monthly tasks
- Knowledge Retention Tools Operators can consolidate system information to help assist in the transition of new personnel





Managerial Capacity:

The ability of a water system to conduct its affairs in a manner enabling the system to achieve and maintain compliance with SDWArequirements, including institutional and administrative capabilities.

Identifying system ownership, staffing the appropriate personnel, and communicating regularly with customers are all examples of managerial capacity.

Elements of Managerial Capacity: Ownership Accountability

- Clear identification of system operators and managers
- Bylaws, ordinances, authority
- Key attributes include governing body transparency and accountability, as well as clear and well-communicated policies



Effective External Linkages

Elements of Managerial Capacity: Staffing & Organization

- Proper organization and staff with adequate expertise that:
 - Understand regulatory requirements
 - Obtain appropriate licenses and certifications
- Clearly defined roles and responsibilities of personnel
- Succession Planning and Workforce Development



Elements of Managerial Capacity: Effective External Linkages

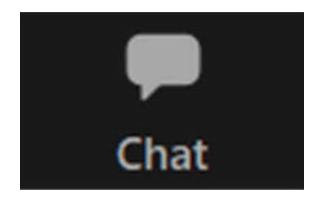
Ownership Accountability

- Effective interaction with key stakeholders
- Awareness of available external resources and partnership opportunities
- Key attributes include customer engagement, planning and design, and communicating with regulators.



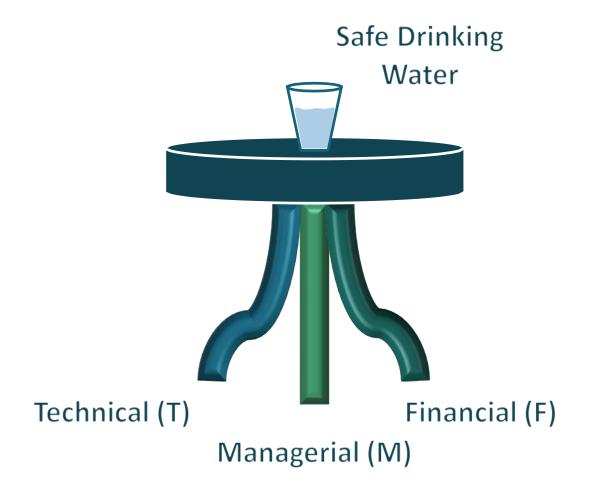
If you were to give yourself a grade (0-100), how would you score your managerial capacity?

Type in the chat box your score and reasoning



Resources

- Simple Tools for Effective Performance (STEP) Workbooks Series of workbooks designed to guide small systems strategic planning and serving less than 3,000 people
- Water System Partnership Implementation Tools Includes funding and planning resources
- Water Operator Hiring and Contracting Guide Suggestions on how to find the right operator and assist with documenting expectations for operating the water system
- Contact an EPA and State Coordinator



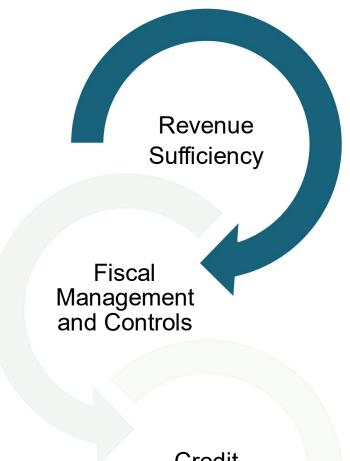
Financial Capacity:

The ability of a water system to acquire and manage sufficient financial resources to allow the system to achieve and maintain compliance with SDWA requirements.

Ensuring revenues exceed costs, maintaining financial records, and establishing good credit are all examples of financial capacity.

Elements of Financial Capacity: Revenue Sufficiency

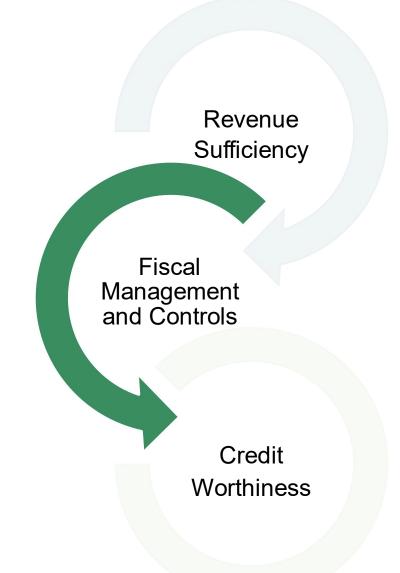
- Known/measurable costs and revenues
 - Revenue from water sales, fees, and subsidies
 - Costs from salaries, materials, and debt interests
- Adequate rate structure that are also affordable to customers



Credit Worthiness

Elements of Financial Capacity: *Fiscal Management & Controls*

- Sound financial management
 - Books and records maintained
 - Revenue management
 - Cash Reserves
- Long-term investment planning
 - Capital Improvement Plans (CIPs)
 - Conditions of assets
 - Meeting current and future demand



Elements of Financial Capacity: Credit Worthiness

- Financial health measured through indicators, ratios, and ratings
- Credit record
- Access to capital (private or public means)
- Assurance of repayment
- Insurance for the "just in case"

Revenue Sufficiency

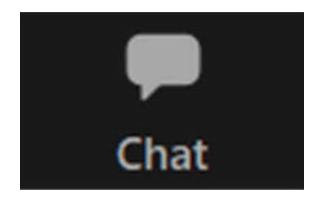
Fiscal Management and Controls

Credit Worthiness



If you were to give yourself a grade (0-100), how would you score your financial capacity?

Type in the chat box your score and reasoning



Resources

- <u>Simple Tools for Effective Performance (STEP) Workbooks</u> Series of workbooks designed to guide small systems on setting rates and asset management
- Water Finance Clearinghouse Explore funds available by state and specific water challenges
- Water Efficiency Resources for Small PWSs Guides on water audits and how to mitigate water loss/non-revenue water in the distribution systems
- Addressing Water Affordability with Drinking Water State Revolving Funds – How SRF funding can provide cost-saving opportunities for communities

Benefits of Capacity Development



Decreased Need For Direct Technical Assistance



Improved Compliance



Better Prepared And Positioned To Respond To New Regulations And Any Type Of Emergency



Where to Start?

- Identify your strengths and challenges
 - WY's Capacity Assessment Worksheet
- Work with staff and decision makers to identify areas of improvement and plan goals for future projects
- Work with the State Coordinators and TA providers for assistance
 - WaterTA Request Form



