

Funding Sustainable Water Infrastructure Solutions

WESTCAS Conference Graham Knowles

October 2011





New Mexico

 Located in the desert southwest











Setting

 Arid, sparsely inhabited, mostly covered by mountains, high plains











Land Area

• 5th geographically largest state









Population

- Over 2 million residents
- 14th least populated state
- 47th least densely populated
- Only 16 people every sq mile



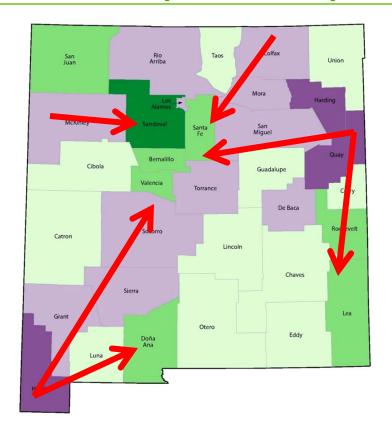


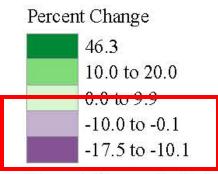




Population Migration

(2000-2010)





Percent Change for State: 13.2%

Significant population migration from rural areas





Drought

Devastated by extended periods





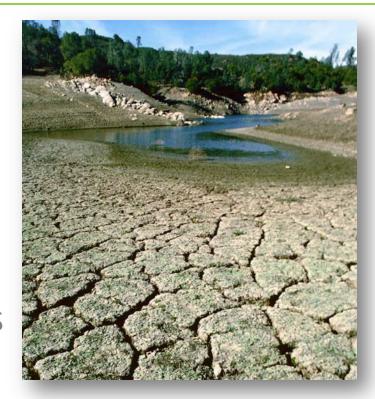






Regional Drought

- In 1995-1996 drought gripped the Southwest and southern Great Plains states
- Depleted reservoirs and increased groundwater pumping interrupted public water and irrigation supplies



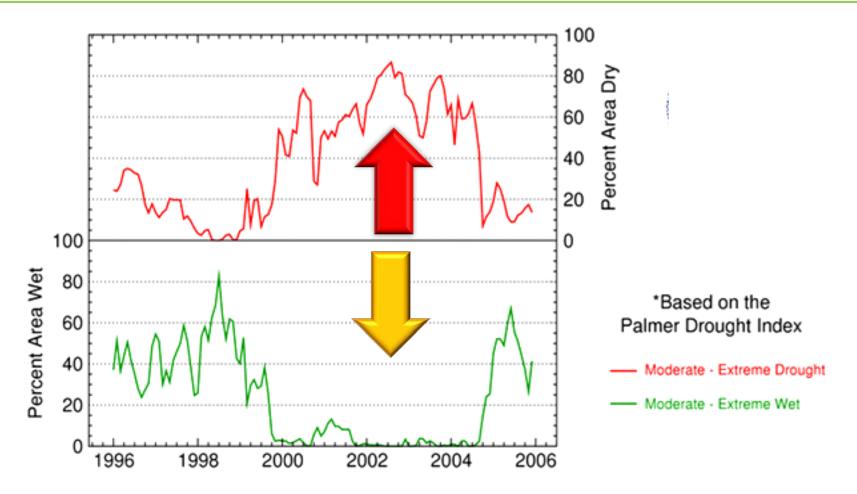






Decade of Drought

(1996-2005)



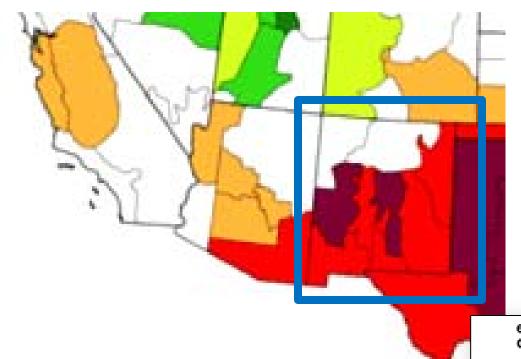


Sustainable Water Infrastructure Management





April 2011



Palmer Z index
Short-term Drought Conditions

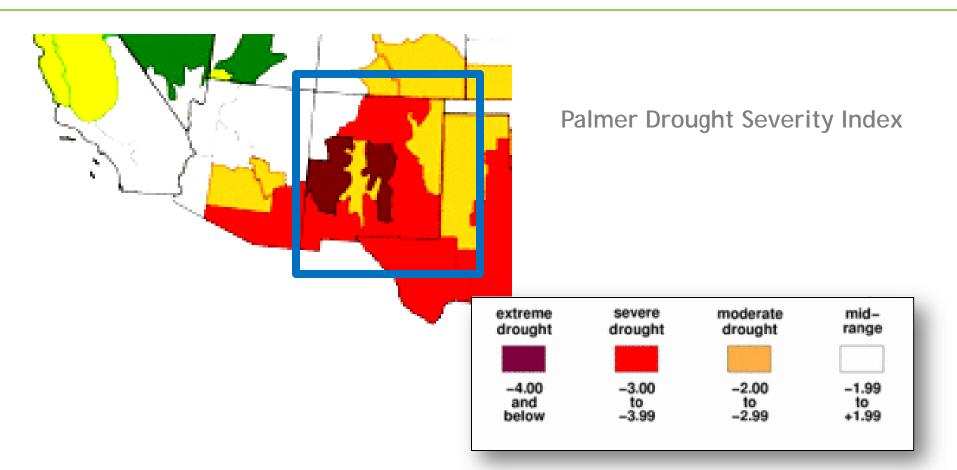
extreme	severe	moderate	mid-
drought	drought	drought	range
-2.75	-2.00	-1.25	-1.24
and	to	to	to
below	-2.74	-1.99	+0.99







April 2011









Water Resources

Water is an increasingly scarce resource











Infrastructure Funding

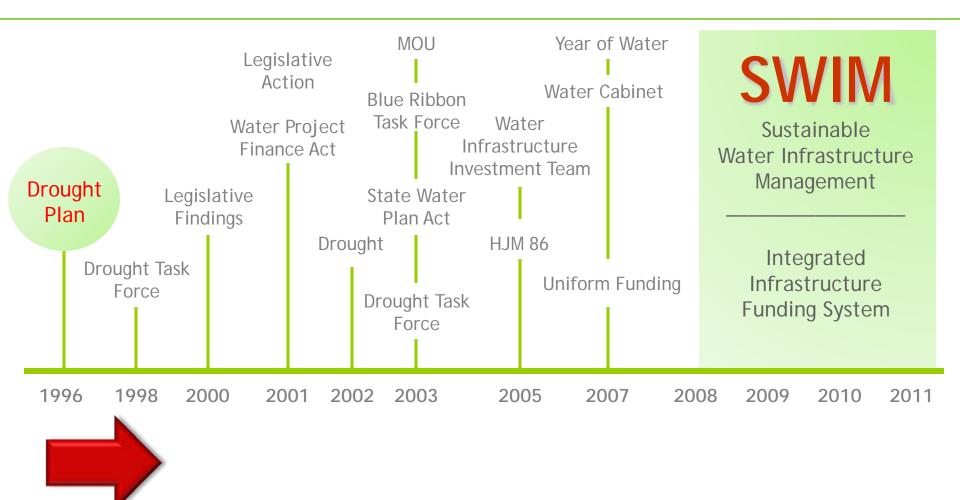
 Water infrastructure funding is also an increasingly scarce resource







Drought Driven Change









Drought Task Force

Challenges:

- Inadequate water systems management
- Inadequate water systems maintenance
- Lack of comprehensive planning for the management of water infrastructure
- Inadequate funding to meet needs
- Limited funding for comprehensive review and coordinated planning







Stressors

- Exponential population growth
- Anticipated economic growth
- Increasing demand for water
- Aging infrastructure
- New infrastructure needs to maintain reliable water supplies and meet growing demand
- Worsening drought conditions in the South







SAN J

Drought Impacts

- In 2002 a state of emergency declared
- Reservoir levels at their lowest point in 20 years
- Snowmelt runoff was the lowest it had been since the mid-1970s
- Runoff into some major streams decreased to less than 5 percent of normal
- More than 70 community water systems experienced emergency loss of drinking water







Meeting the Challenge

- Blue Ribbon Task Force examined water policies and laws
- DTF restructured and expanded to address drought impacts
- Drought Summit convened to develop strategies for minimizing its detrimental impacts
- Federal and state agencies began developing a process for coordinating water infrastructure funding









Interagency MOU

 In 2003 an interagency Memorandum of Understanding was signed establishing a uniform funding process for evaluating and prioritizing the utilization of funding with a single statewide point of contact









House Joint Memorial

- In 2005 HJM 86 requested the development of criteria for water system planning, performance and conservation as a condition of funding
- Proposed a standard level of financial and operational planning and management capacity along with an accountability system for monitoring water use to encourage conservation and efficiency





Year of Water

- Governor Richardson declares
 2007 the Year of Water
- Executive Order establishes:
 - Water Cabinet
 - New Infrastructure Division
 - Community Services Group
 - Uniform Funding Process









Community Services Group

- Overseeing implementation of a sustainable water infrastructure funding policy
- Developing a framework for action giving direction to efforts to ensure compliance, enhance capacity and move beyond utility management toward sustainability
- Identifying water infrastructure needs
- Hosting the state's water infrastructure portal







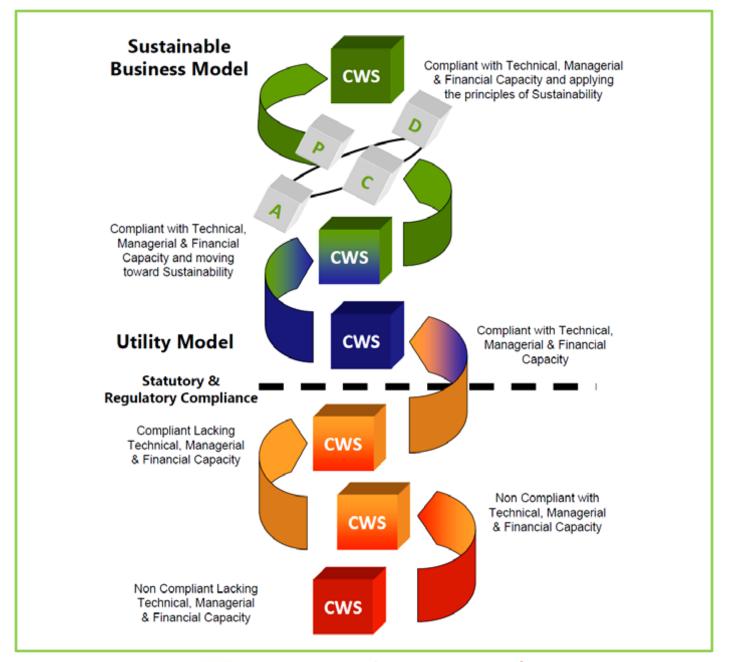


Community Services Group

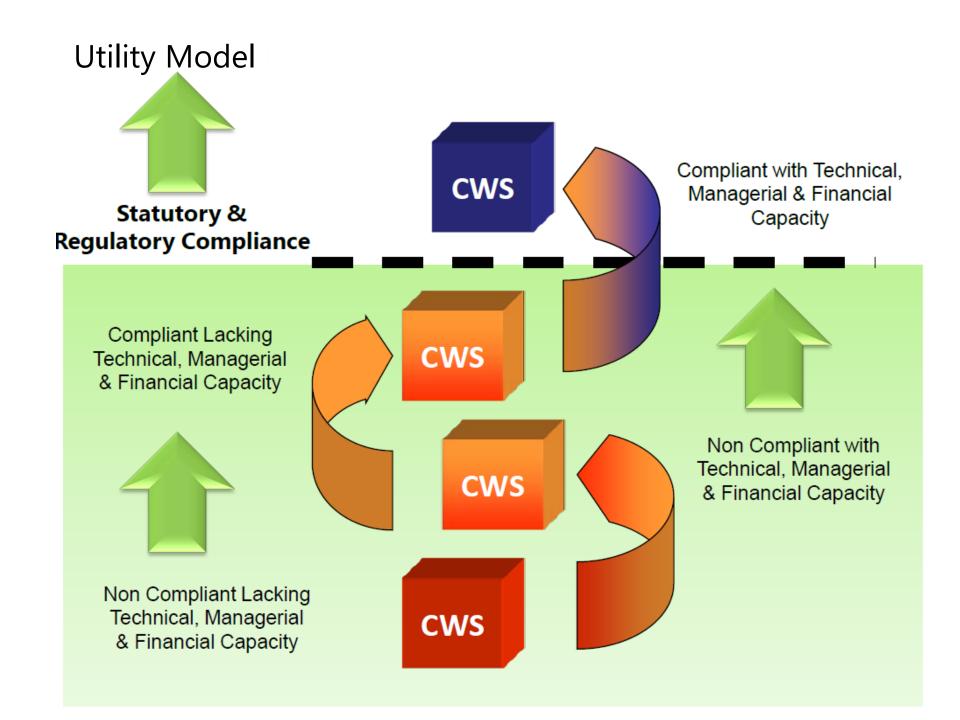
- Evaluating the viability and fundability of proposed projects
- Coordinating technical assistance
- Mobilizing capacity development resources
- Providing ongoing support services
- Working with funding agencies
- Developing grant/loan funding bundles
- Leveraging funding to optimize scarce infrastructure dollars

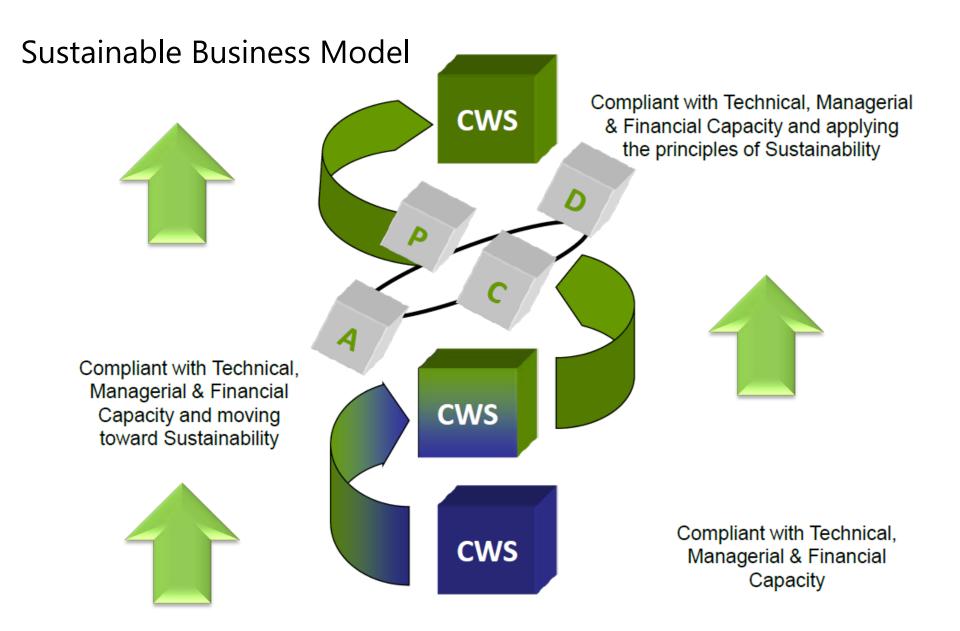








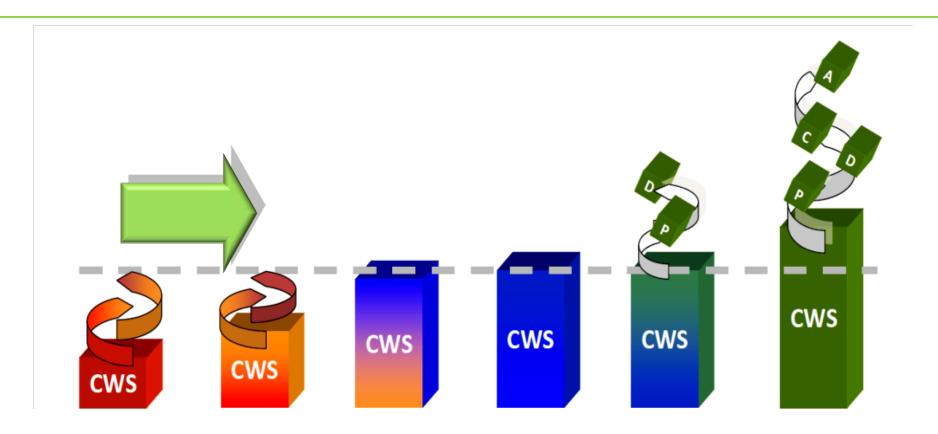








Continual Improvement Approach







Sustainable Water Infrastructure Management (SWIM) Process



Water Infrastructure Infrastructure Portal (WIP)

Water Needs System (WINS)

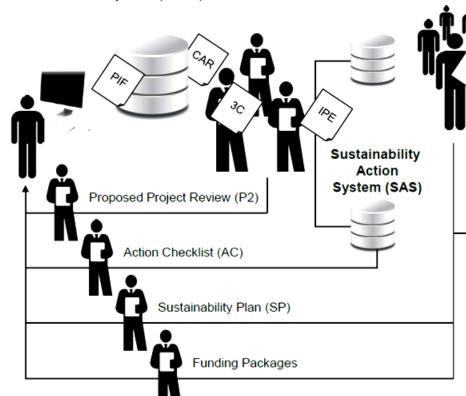
Community Services Group (CSG) Infrastructure Funding

Interagency Review System (IFS) Process (IRP)

Water Infrastructure Funders Forum (WIFF)

Project Funding

Grant/Loan **Funding Bundles**



Legend

Project Interest Form

CAR Community Assistance Request

Compliance, Capacity, Sustainability Check 3C

IPE Initial Project Evaluation Interagency Review Form IRF

Proposed Project Portfolio



Sustainable Water Infrastructure Management







Water Infrastructure Portal

New Mexico's One-Stop-Shop for Infrastructure Funding Solutions

Welcome to New Mexico's sustainable water infrastructure management (SWIM) funding portal connecting you to water, wastewater and solid waste infrastructure assistance, support and funding streams.

Click Here

Click here to submit a Project Interest Form



We appreciate feedback on the usefulness of this site, if you have any comments or are experiencing difficulties and would like assistance completing a proposed project interest form, please contact Kara Moeller the Community Services Group Program Administrator at: (505) 222-9572





Project Interest Form

To assist you with your proposed project please complete and submit the following information

Date	10/26/2011 mm/dd/yyyy		
Name	*	Title	
Street Address	(Street or P.O. Box, City, State, Zipcode)	Mailing Address	(Street or P.O. Box, City, State, Zipcode)
E-mail	*	Business Phone	(###) ###-####
Fax Number	(###) ###-####	County	Please select *
Name of Entity		Type of Entity	Please select *
Name of Project		Type of Project	Please select *
Tribe/Nation/Pueblo?	OYes ONo		
Is this a Tribal Infrastructure Fund project?	OYes ONo		
If yes, what category of project is this?	Please select		
If no, what category of project is this?	Please select		
Description of Proposed Project			





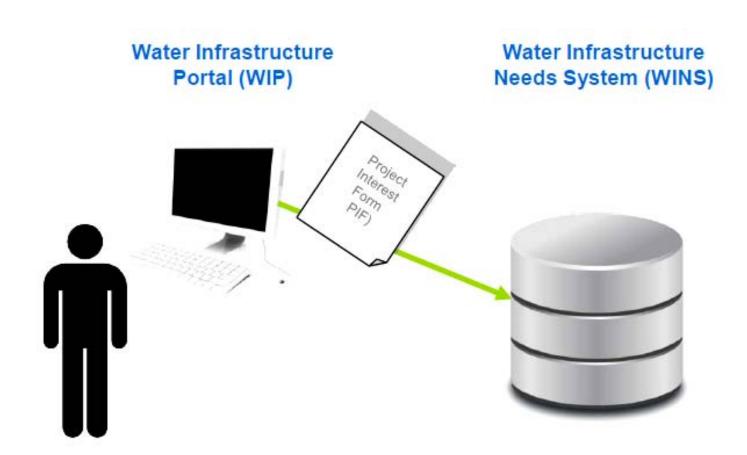
Population to be served by the proposed project?			
Population currently served by the system			
Has the proposed project project's Preliminary Engineering Report (PER) been completed?	OYes ONo	If yes, date of completion	10/26/2011 mm/dd/yyyy
Has any environmental work been completed in connection with this proposed project?	OYes ONo	If yes, date of completion	10/26/2011 mm/dd/yyyy
Do you believe that this proposed project is eligible for a NEPA Categorical Exclusion?	OYes ONo		
What is the total estimated cost anticipated for this proposed project?			
What is the amount of funding being requested at this time for this proposed project?			







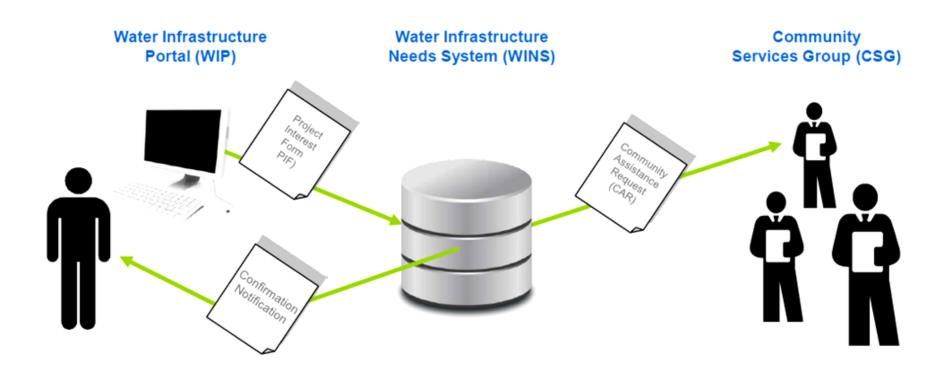
Project Interest Form







Water Infrastructure Needs System









Confirmation Notification

Thank you for your recent submission of a proposed infrastructure project at the New Mexico Environment Department's (NMED) Water Infrastructure Portal (WIP). Within five working days a member of the Community Services Group (CSG) will contact you in connection with your proposed project. At which time we will conduct an initial review of the nature and scope of the project.

Thank you

Program Administrator





Community Assistance Request

The following community has submitted a Project Interest Form (PIF) at the Water Infrastructure Portal (WIP), in connection with a proposed water, wastewater and/or solid waste infrastructure project. The community representative who submitted the PIF has been notified that you will make contact within the next five working days in connection with conducting a Proposed Project Review (P2).

ID No.:

Name:

Phone:

Name of Entity:

County:

Title:

Email:

Type of Entity:

Tribe/Nation/Pueblo







Secure Extranet Portal

User ID:	moellerk	
Password:		
	Forgot your password?	
	Secure Site	

Application	Description	Access
Proposed Project Administrative Portal	This portal provides the Community Services Group (CSG) with administrative access to input compliance, capacity and sustainability data relating proposed projects into the Water Infrastructure Needs System (WINS)	Approved







Administrative Search

Search by:

Project Interest Form (PIF) ID Number or by Name of Entity









Proposed Project Review (P2)

Proposed Project Review

Compliance Check Capacity Check Sustainability Check Initial Project Evaluation

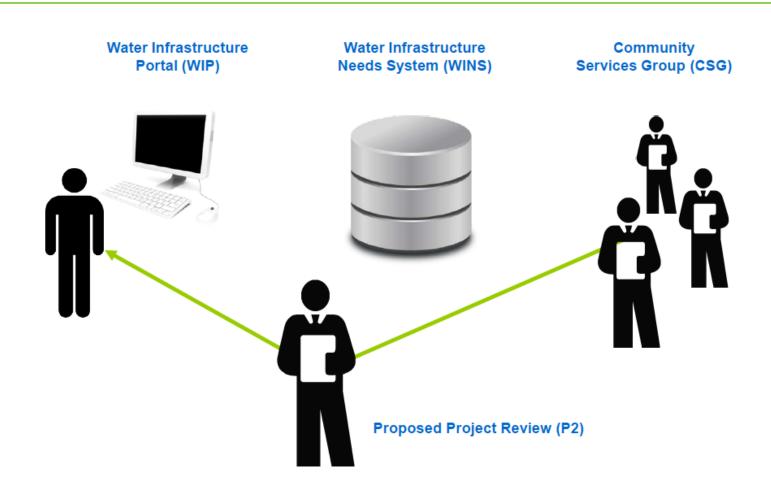
Interagency Reviews Action Checklist













Sustainable Water Infrastructure Management





3 C Process

- Compliance Check
 - Statutory & Regulatory
- Capacity Check

- Technical, Managerial & Financial

Sustainability Check









Sustainability Check

Audits

Budgets

Regionalization

Funds

Planning

Policies

Programs

Projections

Rate Structure

Strategies

Systems

Training

Water Rights









Sustainability Checklist

Audits

Water audits

Planning

Water conservation plan

Preventive maintenance plan

Source water protection plan

Emergency response plan

Drought plan

40 year water development plan

5-year capital improvement plan

6-year financial plan

Asset management plan









Sustainability Checklist

Programs

Water conservation program

Cross connection program

Asset management program

Water Rights

Adequacy of water rights
Verification of water rights
Obtaining additional water rights
Excess water rights









Initial Project Evaluation

After evaluating the proposed project information submitted along with all other supporting compliance, capacity and long-term sustainability information generated the Community Services Group recommends:

Infrastructure Funding System

Having met basic funding criteria the proposed project be logged into the Infrastructure Funding System (IFS) with a view to further funding review and consideration by funding agencies

or alternatively,

Sustainability Action System

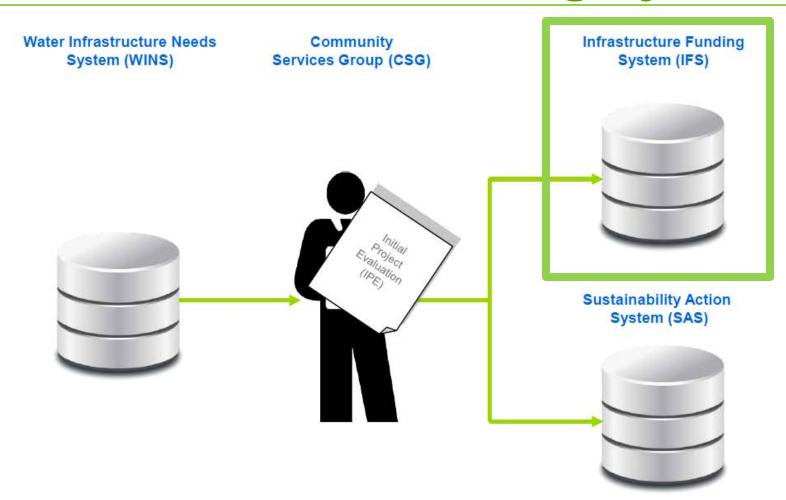
Not having met basic funding criteria the proposed project be logged into the Sustainability Action System (SAS) with a view to the Community Services Group developing an Action Checklist (AC) of steps that the community may consider taking to increase the likelihood of funding in the future.







Infrastructure Funding System









Interagency Review













Proposed Project Portfolio (P3)

Proposed Project Information
Statutory and Regulatory Compliance Status
Technical, Managerial & Financial Capacity Situation
System Sustainability Status (Audits, Planning, Programs)
Debt Capacity



KEY

Chunking actionable Information to generate a knowledge base for informed decision making by funding agencies







Water Infrastructure Funders Forum



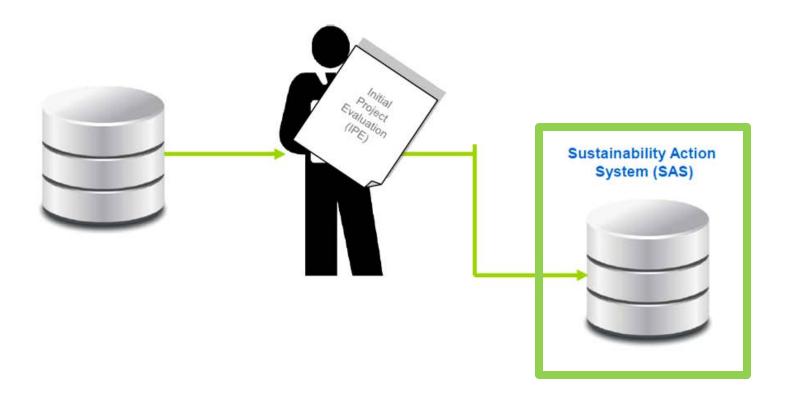








Sustainability Action System







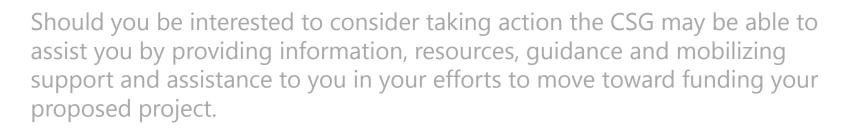


Action Checklist

After evaluating your proposed project along with all other supporting compliance, capacity and long-term sustainability information you may want to consider taking the following steps to increase the likelihood of project funding.

ACTION STEPS

- 1. Become compliant with SDWA health-based standards
- 2. Ensure compliance with Public Regulatory Commission
- 3. Verify water rights
- 4. Develop a financial plan
- 5. Develop a sustainable rate structure









Summary

- Over 1300 water infrastructure projects representing more than \$3.73 billion of need are logged in the knowledge bank
- More than 260 projects have been fully/partially funded
- Group coordinates the mobilization of compliance and capacity services to assist communities meet funding criteria
- Communities are utilizing the WIP investing in a growing knowledge bank to guide statewide planning and infrastructure investment







Summary

- Integrated interagency effort continues to gain traction through increasingly broad-based institutional cooperation
- Integrating planning and project prioritization processes to fund sustainable water infrastructure solutions and bring about secure and sustainable water infrastructure
- Ongoing collaboration, consultation, coordination, cooperation, communication, planning, project prioritization and consistent funding







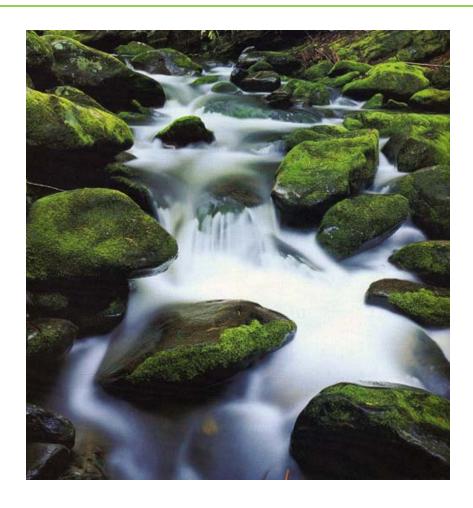
Education & Outreach







Funding Streams







Bridging the Gap

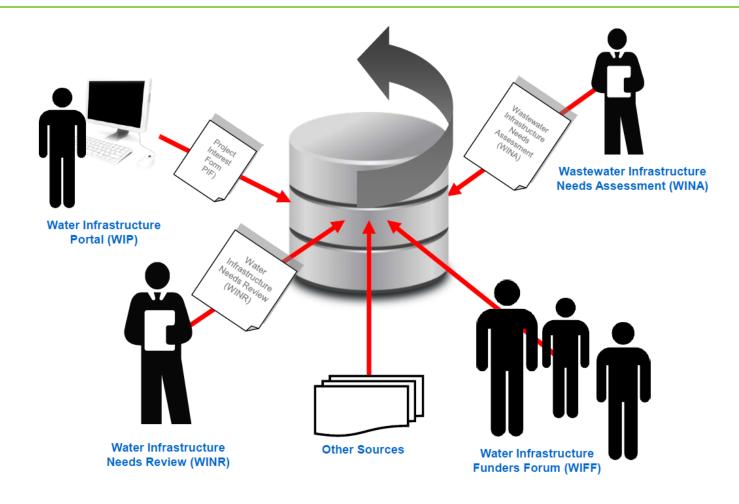








Knowledge Bank









Graham Knowles

New Mexico Environment Department 5500 San Antonio Dr NE, Albuquerque NM 87109 United States

Tel: 505-222-9537 Cell: 505-382-1655 Email: graham.knowles@state.nm.us

