



BUILDING IMPLEMENTATION PLANS TO RESTORE WATER QUALITY



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Texas Commission on Environmental Quality

Total Maximum Daily Load Team



RESTORING WATER QUALITY



Plan Project



Review Historical Data and Collect New Data



Set Water Quality Target



Allocate Pollutant Load



Develop Implementation Plan



Implement Watershed Action Plan





UPPER GULF COAST TMDL BACTERIA IN OYSTER WATERS

- **TMDL Report**
Complete February 2008
- **TCEQ TMDL Adoption**
August 2008
- **EPA TMDL Approval**
Fall 2008
- **Draft Implementation Plan**
2010-2011
- **Adopt Implementation Plan**
2011





THE FIX

Implementation Plan (I-Plan)

Shows the wisdom and strength of the community to outline solutions.





IMPLEMENTATION PLAN

**CAUSES
AND
SOURCES**

**MANAGEMENT
MEASURES**

**LOAD
REDUCTIONS**

ASSISTANCE

EDUCATION

SCHEDULE

MILESTONES

**INDICATORS
TO
MEASURE
PROGRESS**

**MONITORING
COMPONENT**

**RESPONSIBLE
ENTITY**



TMDL IDENTIFIED SOURCES



CAUSES
AND
SOURCES

- Wastewater Treatment Facilities
- On-Site Sewer Systems (OSSFs)
- Marinas and Boat Discharges
- Wildlife, Direct Deposition,
Water Birds





WORKGROUP DESIGNS MANAGEMENT MEASURES

MANAGEMENT MEASURES

Gilleland Creek Example (next few slides):

- Identify, prioritize, inspect and bring into compliance malfunctioning OSSFs in the watershed.





ESTIMATED REDUCTION VALUES

LOAD REDUCTIONS

- **A calculated value based on the number of OSSFs repaired in the watershed.**



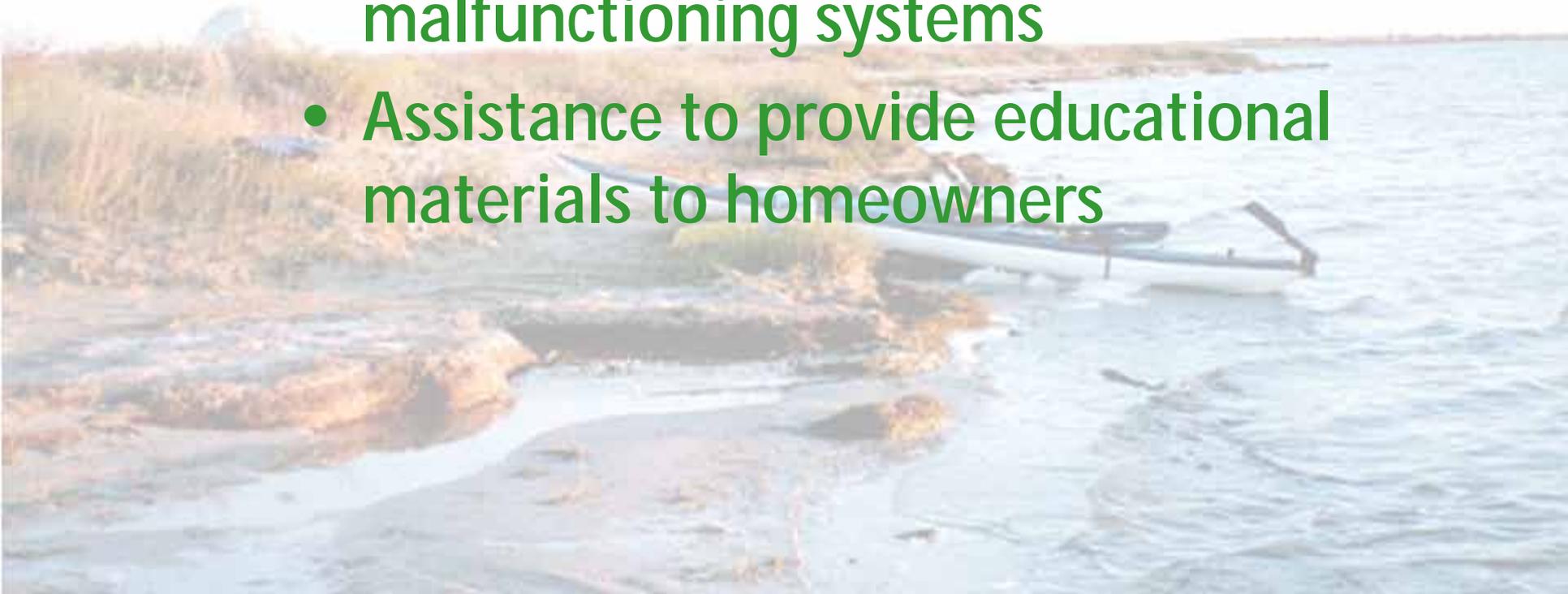


WHAT IS NEEDED TO BE SUCCESSFUL



ASSISTANCE

- Financial assistance to carry out inspections of OSSFs
- Resources needed to repair malfunctioning systems
- Assistance to provide educational materials to homeowners





EDUCATION AND OUTREACH

EDUCATION

- Workshop for OSSF owners.
- Brochures for OSSF owners.
- Website explaining maintenance and common concerns.





WHAT IS GOING TO HAPPEN WHEN?

A circular graphic with a teal-to-dark-teal gradient background and a white border. The word 'SCHEDULE' is written in white, uppercase letters in the center.

SCHEDULE

- 2010: County evaluates available data and determines priority areas, Begins inspection, Completes inspections on 10% of priority areas.
- 2011: Inspect 15% of the systems. Malfunctioning OSSFs repaired.
- 2012: Inspect 25: of systems. Malfunctioning OSSFs repaired.



STEPS ALONG THE WAY



MILESTONES

- Prioritization of areas with OSSFs.
- Funding received to perform inspections.
- Education and outreach materials completed.
- Inspections completed-10%, 15%, 25%





GOALS TO MEASURE PROGRESS

INDICATORS
TO
MEASURE
PROGRESS

- The number of malfunctioning OSSFs repaired or replaced.
- The number of OSSFs inspected and determined operating correctly.





WATER QUALITY DATA

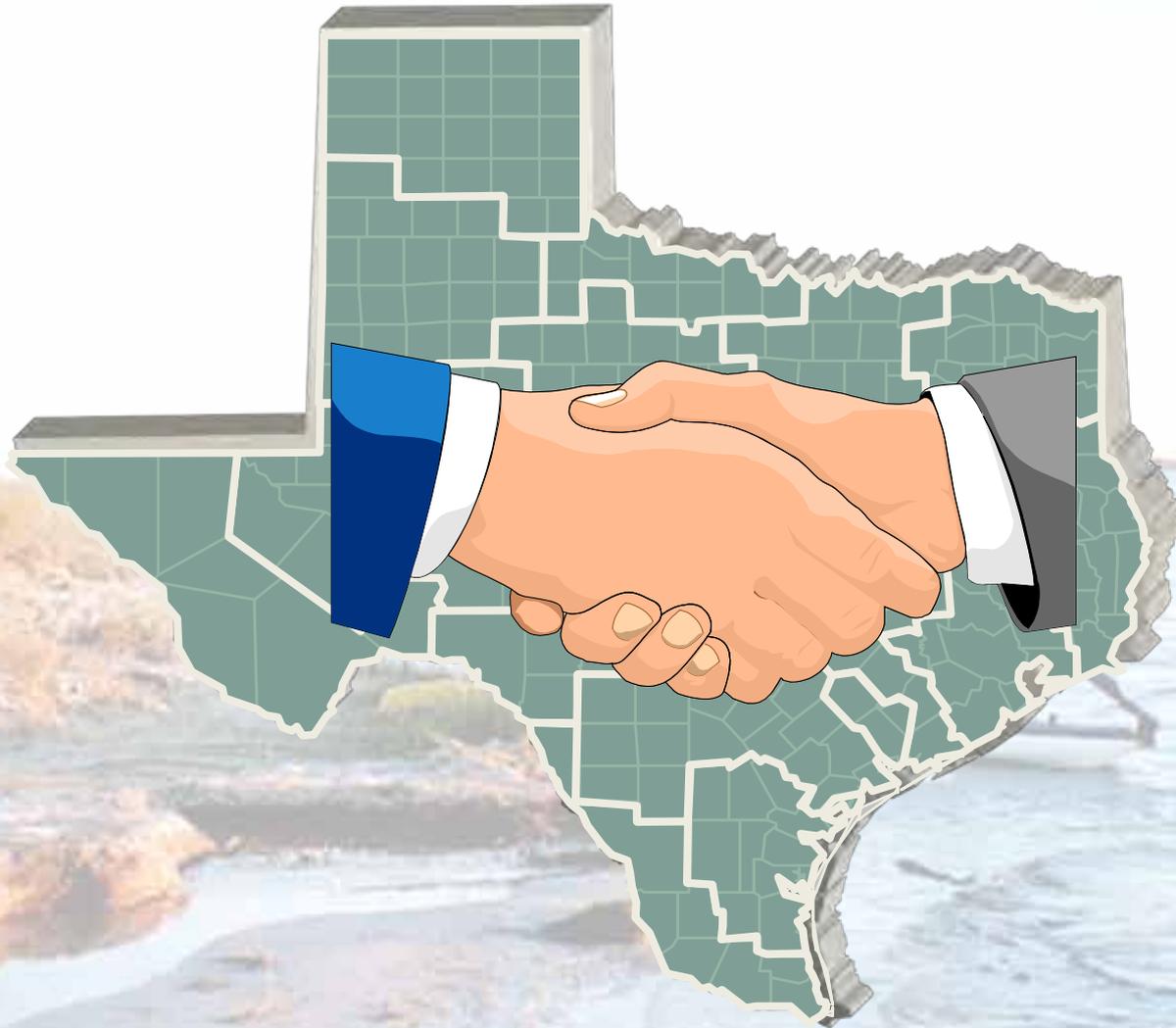
MONITORING
COMPONENT

- Coordinated monitoring through Clean Rivers Partners.



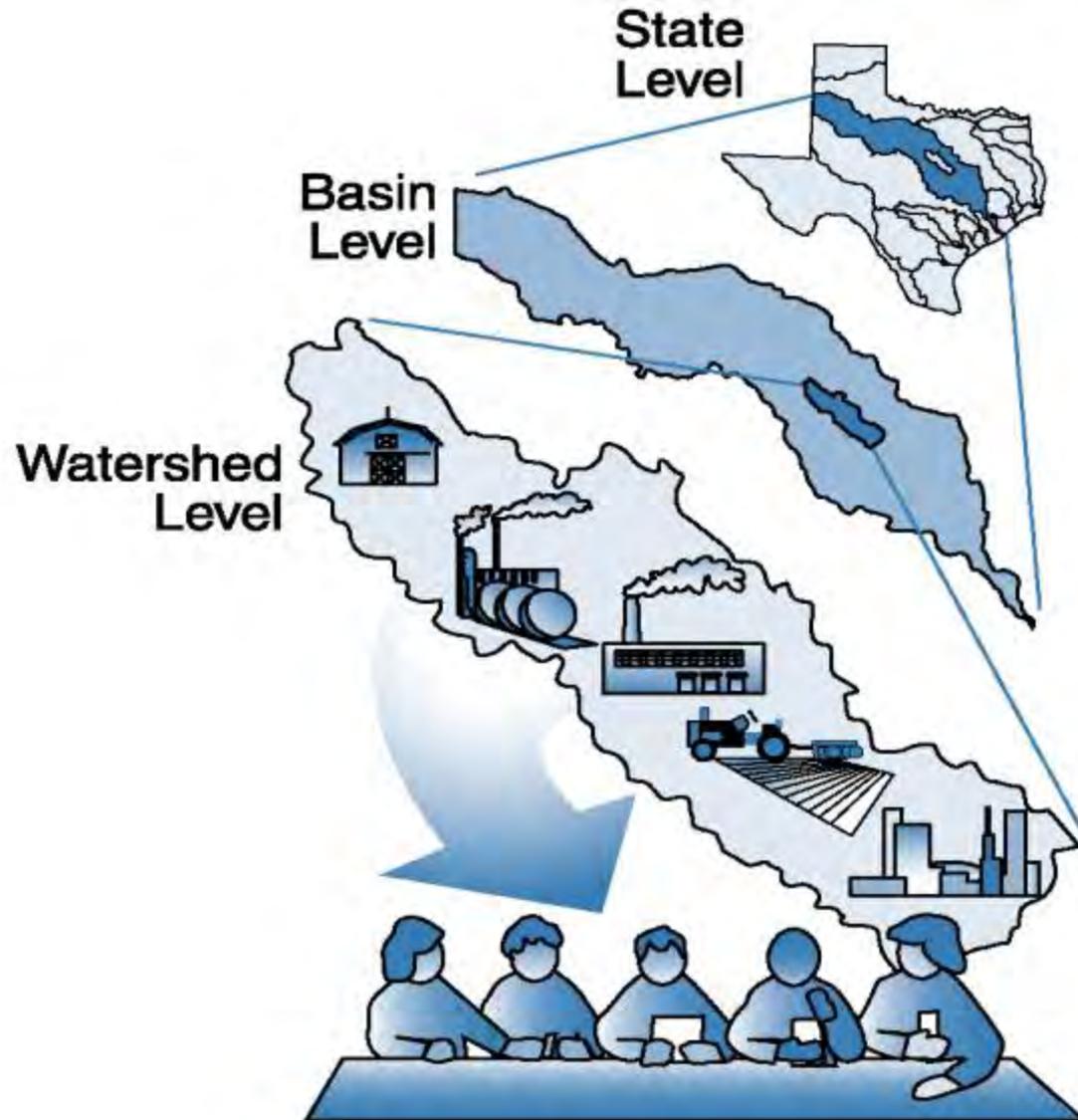


PARTNERSHIPS



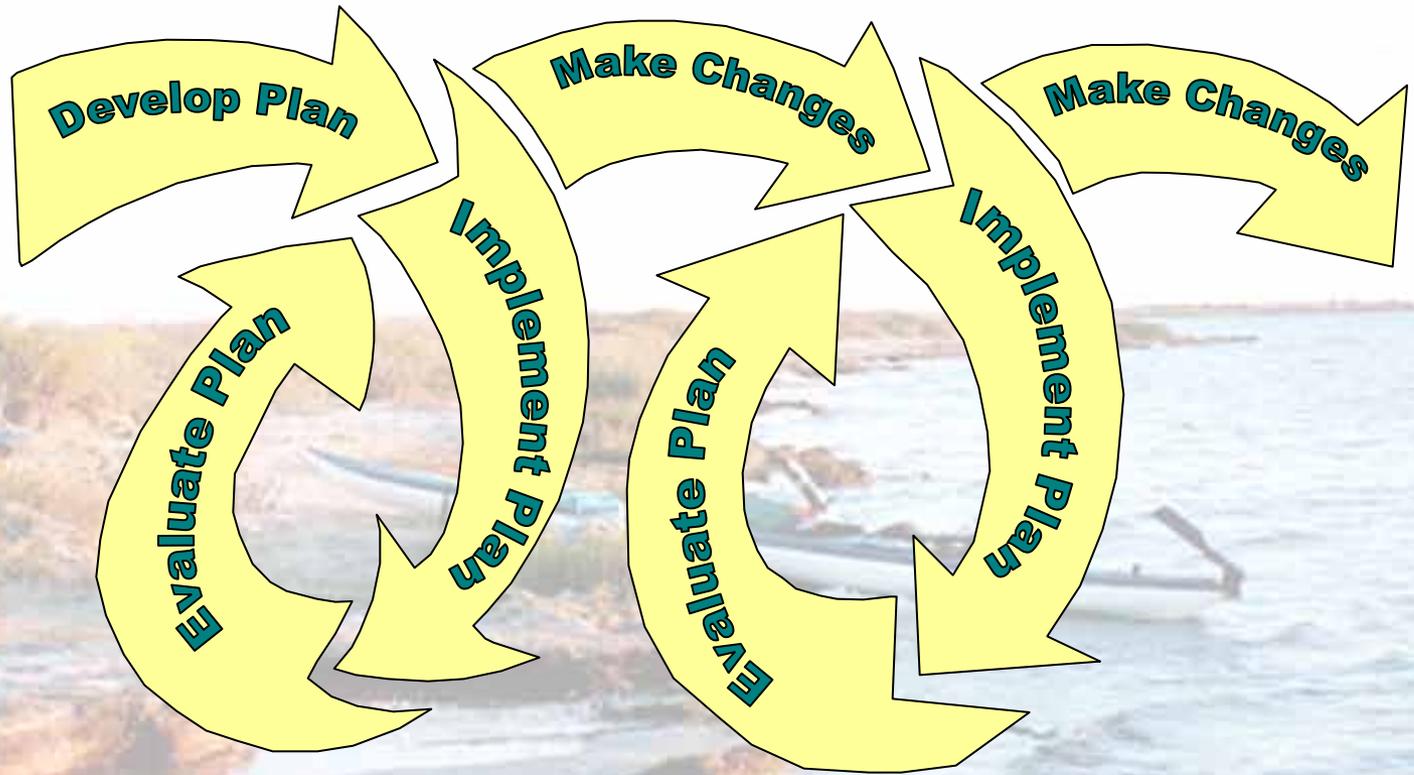


WORKING TOGETHER AT THE LOCAL LEVEL = SUCCESS





ADAPTIVE MANAGEMENT





A JOURNEY OF A THOUSAND MILES
BEGINS WITH A SINGLE STEP... Confucius





QUESTIONS?

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