

Vision without action is a daydream;
action without vision is a nightmare

Japanese Proverb

Healthy Functioning Watersheds



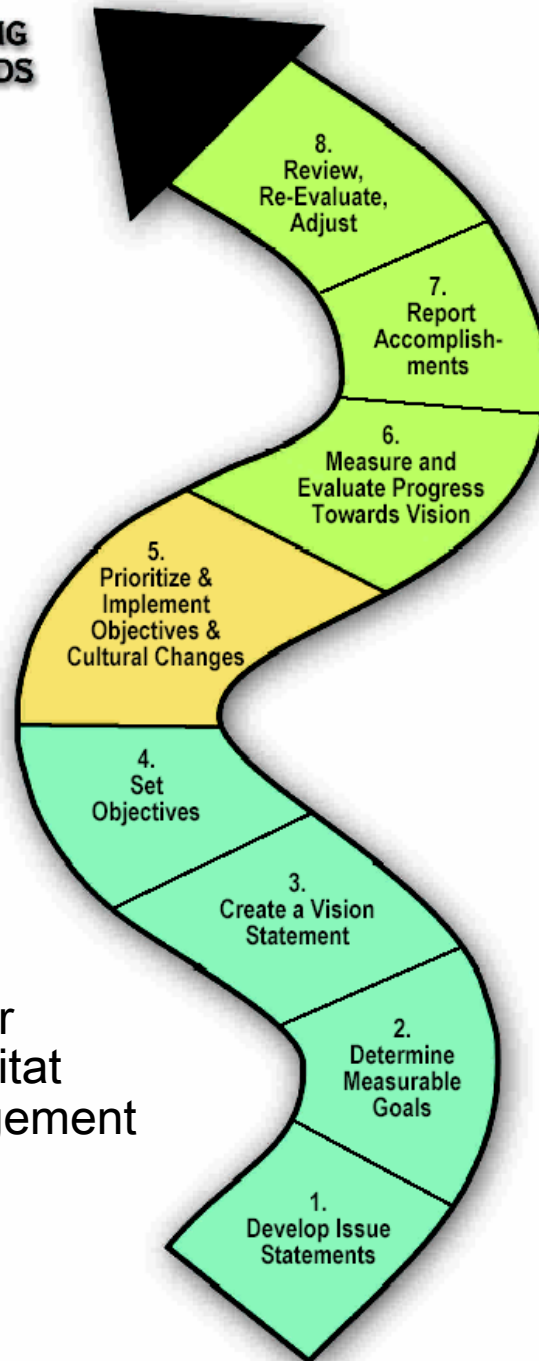
Aquatic Habitat

Proper Land Management

Clean Groundwater

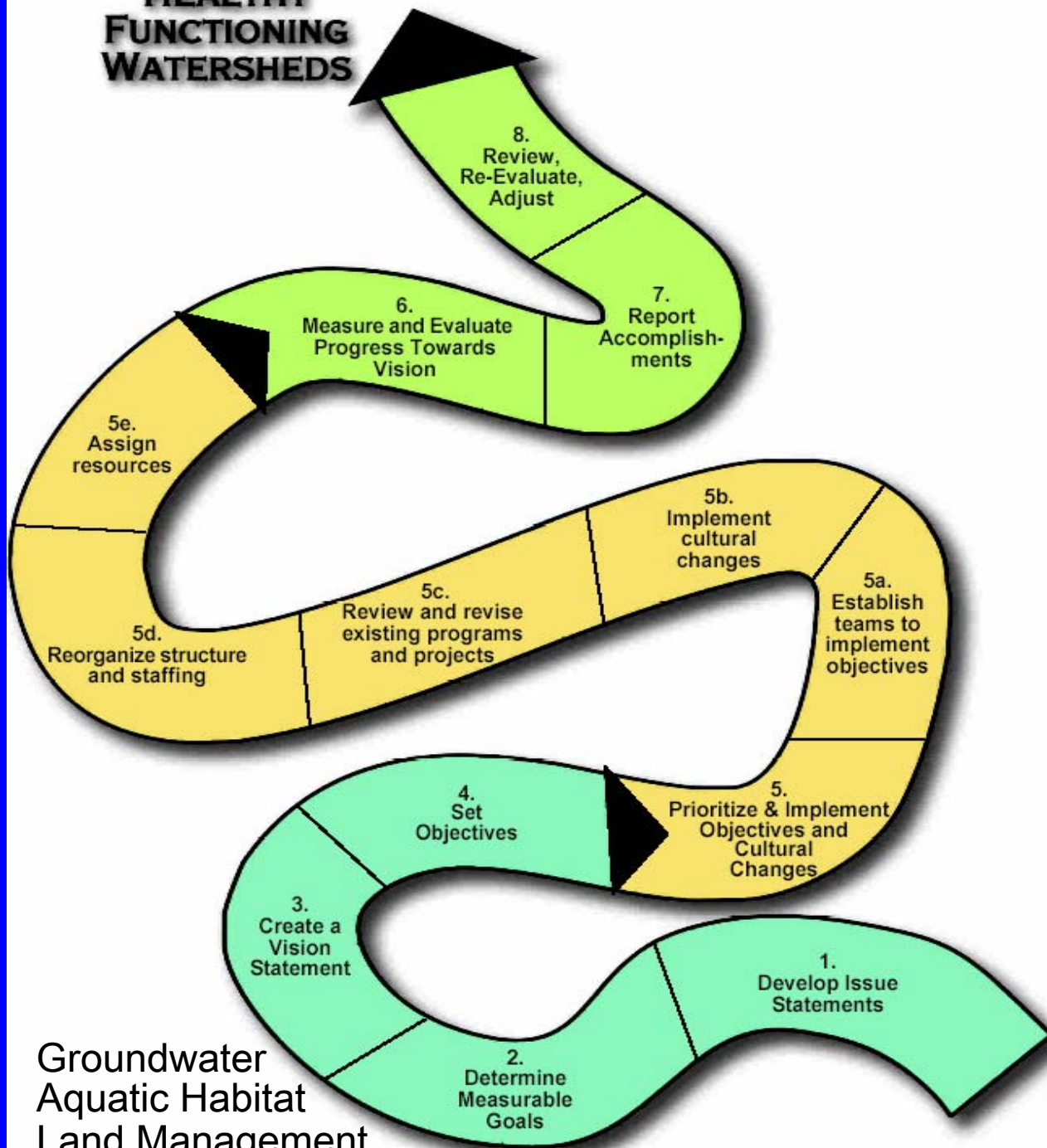


**HEALTHY
FUNCTIONING
WATERSHEDS**



Groundwater
Aquatic Habitat
Land Management

HEALTHY FUNCTIONING WATERSHEDS



Groundwater
Aquatic Habitat
Land Management

Healthy Functioning Watersheds

Goal 1: By 2025 80% of Aquatic Habitat is healthy, and the remaining 20% exhibits positive trends in key parameters

Goal 2: By 2025 80% of lands within any watershed will be managed to maintain proper watershed functions, and the remaining 20% will exhibit positive trends in key watershed parameters

Goal 3: By 2025 80% of groundwater will be clean, and the remaining 20% will exhibit positive trends in key parameters



Healthy Functioning Watersheds

Goal 1: Healthy Aquatic Habitat



Key Parameters:

- Chemical index
- Physical index
- Biological index



Goal 2: Proper Land Management

Key Parameters:

- Percentage LID
- Percentage of impervious surface
- Buffer zones for aquatic habitat
- Ag BMPs
- Toxicity of runoff



Goal 3: Clean Groundwater

Key Parameters:

- Nitrates
- Salts
- Case closures
- New cases

In Progress

- Aquatic Habitat Team**
- Assessment Team**
- Data Management Team**
- GIS Users Group**
- LID Outreach and Grants**
- Performance Appraisals**
- Interviewing Process**
- Higher order training**
- Reorganize Office (alignment)**
- Program Priorities (alignment)**

- **Ag Program Leverage**
- **Grants Alignment**
- **Enforcement Alignment**
- **Success Stories on the Web**
- **Evaluating Grazing Regs**
- **Staff Meetings: Case Studies**
- **IT Support Positions**
- **Paperless Office**
- **WQCC/State Board Leverage**

Conclusion

We Can Do It

- Key Points
 - It is very difficult (and it's supposed to be)
 - Institutionalize it (or it's meaningless)
 - Budget
 - Performance appraisals and job descriptions
 - 30% of initiatives succeed (copy them)
- Biggest Challenges
 - Us (human nature)
 - Leadership
 - State Board/Regional Board system
 - Illusion of control

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Healthy Functioning Watersheds

Goal 1: By 2025 80% of Aquatic Habitat is healthy, and the remaining 20% exhibits positive trends in key parameters

- Riparian Habitat
 - ✓Physical index
 - ✓Chemical index
 - ✓Biological index
- Wetlands Habitat
 - ✓Physical index
 - ✓Chemical index
 - ✓Biological index
- ✓Marine Habitat
 - ✓Physical index
 - ✓Chemical index
 - ✓Biological index

Healthy Functioning Watersheds

Goal 2: By 2025 80% of lands within any watershed will be managed to maintain proper watershed functions, and the remaining 20% will exhibit positive trends in key watershed parameters

- Urban

- ✓Percentage of new projects using LID design standards
- ✓Percentage of impervious surface in a watershed
- ✓Buffer zones for aquatic habitat

- Agriculture

- ✓Relative percentage of land with adequate BMPs
- ✓Efficiency of pesticide and fertilizer application
- ✓Toxicity of runoff
- ✓Buffer zones for aquatic habitat

Healthy Functioning Watersheds

Goal 3: By 2025 80% of groundwater will be clean, and the remaining 20% will exhibit positive trends in key parameters

- ✓ **Nitrates**
- ✓ **Salts**
- ✓ **Cleanup Case Closures**
- ✓ **New Cases**

EO

Assessment

AEO

Division Chief
Aquatic Habitat

Division Chief
Land Use Planning

Division Chief
Groundwater

Grants

Basin
Planning

TMDL

NPS

Permitting

Grants

DOD

SLIC

UGT

Grants

