

Results Chains: A Tool for Measuring Effectiveness and Attributing Change to Conservation Programs



Environmental Evaluators Forum
Washington D.C.
June 12, 2008

This Presentation

- Background on the Use of Evaluation & Adaptive Management in the Field of Biodiversity Conservation
- 2. What Is a Results Chain
- 3. How to Develop Results Chains
- 4. How to Use Results Chains as a Framework for Attributing Change to Conservation Programs
- 5. Build Example Chains

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Common Questions

• Are we achieving an impact?

• Are we doing the right things?

• Are we doing them well?



To Achieve Success, We Need To:

- Develop sound "theories of change"
- Measure the results of and improve effectiveness of actions
- Assess impact on ecosystems and species
- Convince managers, donors, and supporters that results are credible

How Can We Help Practitioners Meet These Challenges?

Adaptive Management

What is Adaptive Management?

The integration of design, management, and monitoring to provide a framework for:

- Testing assumptions
- Adaptation
- Learning

Foundations of Success Our Mission



To improve the practice of conservation through adaptive management – working with practitioners to systematically test assumptions, adapt, and learn.

The Conservation Measures Partnership: Leading Conservation Organizations

Core Members:









Collaborating Members:























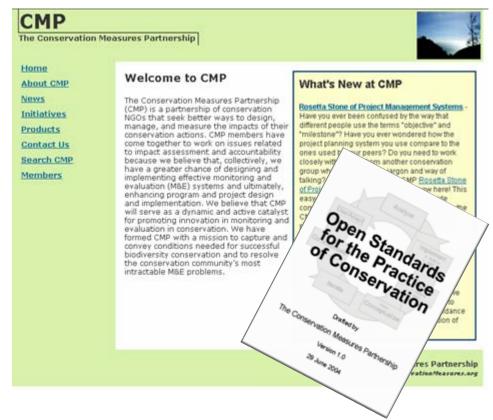






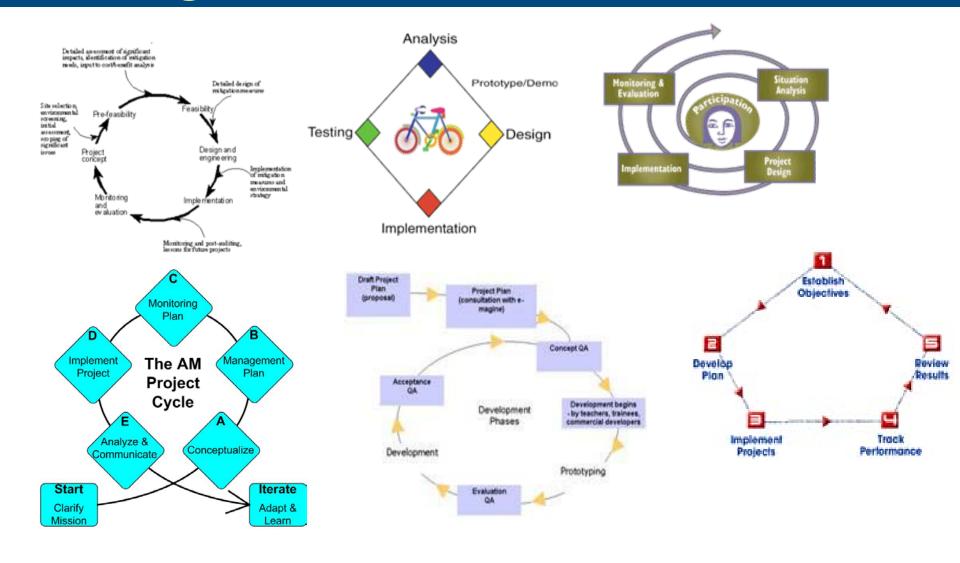
The CMP Open Standards for the Practice of Conservation

www.ConservationMeasures.org



CMPinfo@ConservationMeasures.org

Many Versions of Adaptive Management in Practice



CMP Open Standards

1. Conceptualize

- · Define team
- · Define scope, vision, targets
- · Identify critical threats
- Complete situation analysis

5. Capture and Share Learning

- · Document learning
- Share learning
- Create learning environment

2. Plan Actions and Monitoring

- Develop goals, strategies, and objectives
- · Develop monitoring plan
- Evaluate capacity and risk

4. Analyze, Use, Adapt

- · Analyze data
- Analyze interventions
- · Communicate within team
- Adapt plans

3. Implement Actions and Monitoring

- · Develop work plans
- Implement work plans
- · Refine work plans

Results Chains – A Tool for Implementing the CMP Open Standards

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- · Complete situation analysis

Results chains

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A tool that clarifies assumptions about how conservation strategies contribute to reducing threats and achieving the conservation of targets

The Basic Components of a Results Chain:

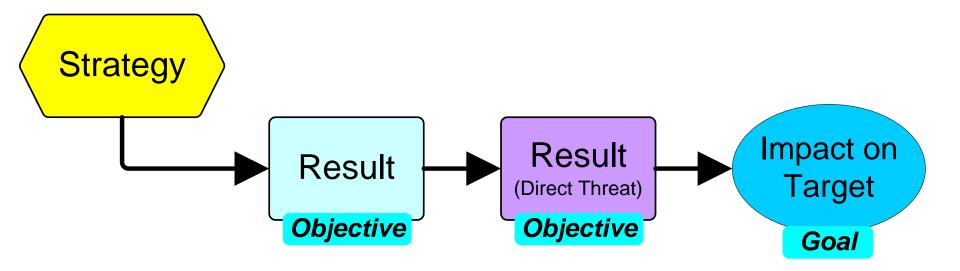
Strategy

The Basic Components of a Results Chain:

Strategy



The Basic Components of a Results Chain:

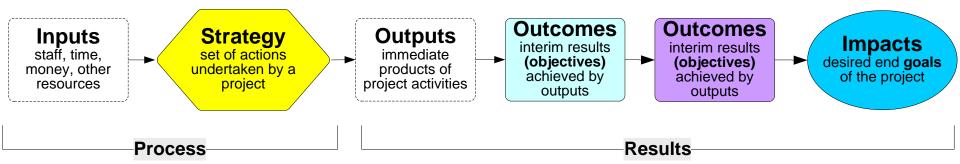


Results Chain Terminology

Logic Model

Inputs	Activities	Outputs	Outcomes	Impacts

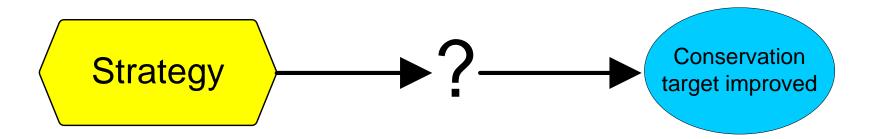
Results Chain

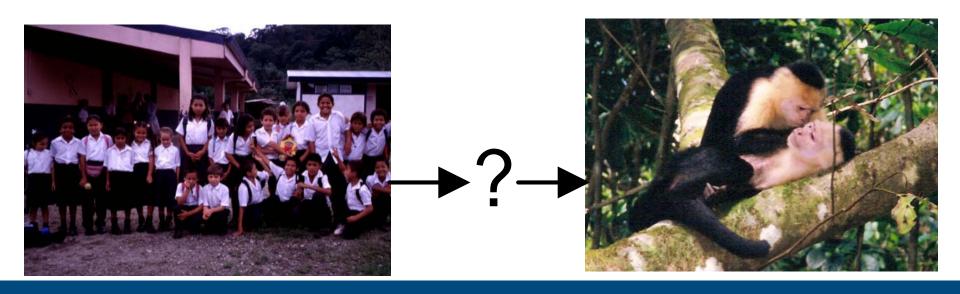


- A diagram of a series of "if...then" causal statements that:
- Defines how a project team thinks a strategy will contribute to reducing a threat and conserving a target
- Focuses on the achievement of results not the implementation of activities
- Is composed of assumptions that can be tested

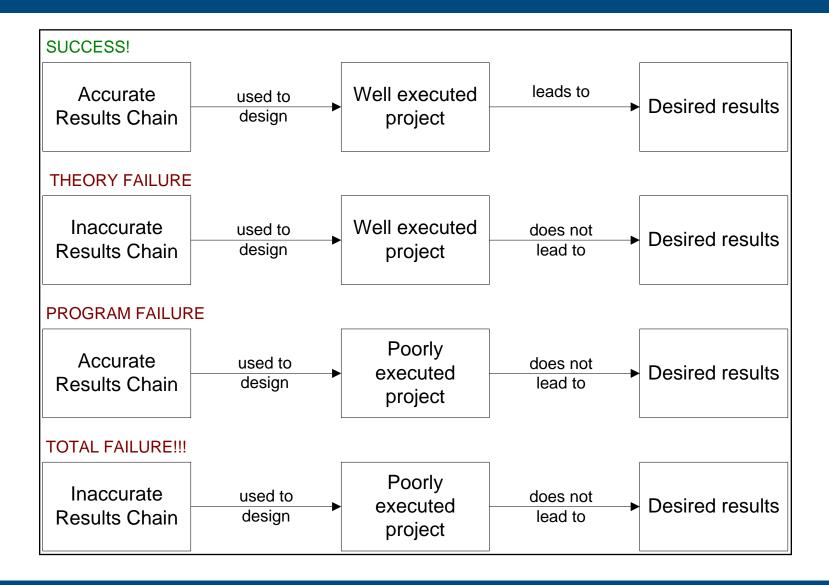
Results Chains

Implicit Assumptions:





Achieving Success



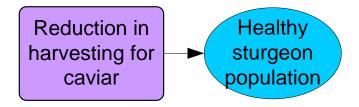
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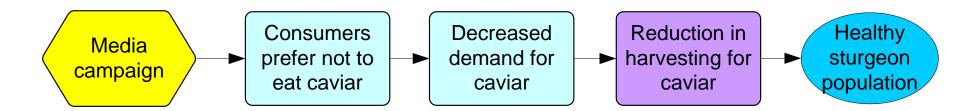
How to Develop a Results Chain

- 1. Construct an initial results chain
- 2. Complete the links in the results chain
- 3. Verify that your results chain meets criteria of a good results chain

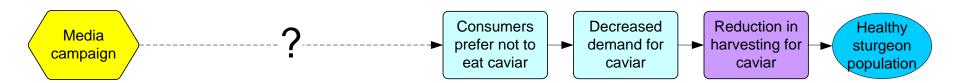




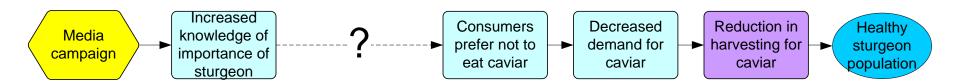




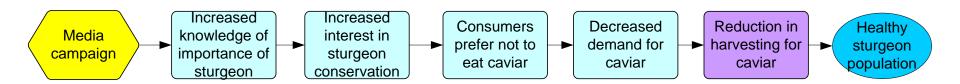
2. Complete the Links in the Results Chain



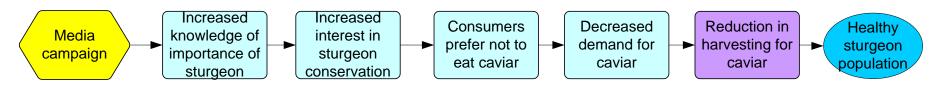
2. Complete the Links in the Results Chain



2. Complete the Links in the Results Chain



3. Review the Criteria for Good Results Chains



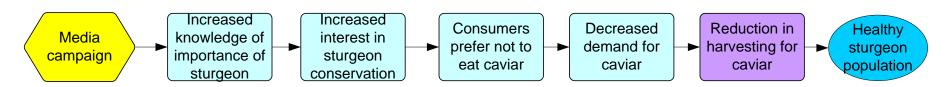
- Results oriented: Boxes contain desired results (e.g., reduction of hunting), and not activities (e.g., conduct a study).
- Connected in a "causal" manner: There are clear connections of "if...then" between each pair of successive boxes.

3. Review the Criteria for Good Results Chains



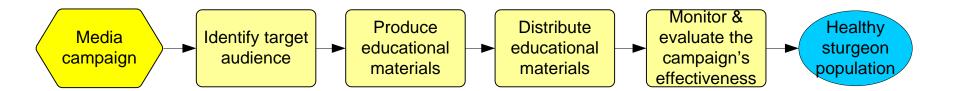
 Demonstrates changes: Each box describes how you hope the relevant factor will change (e.g., improve, increase, or decrease).

3. Review the Criteria for Good Results Chains

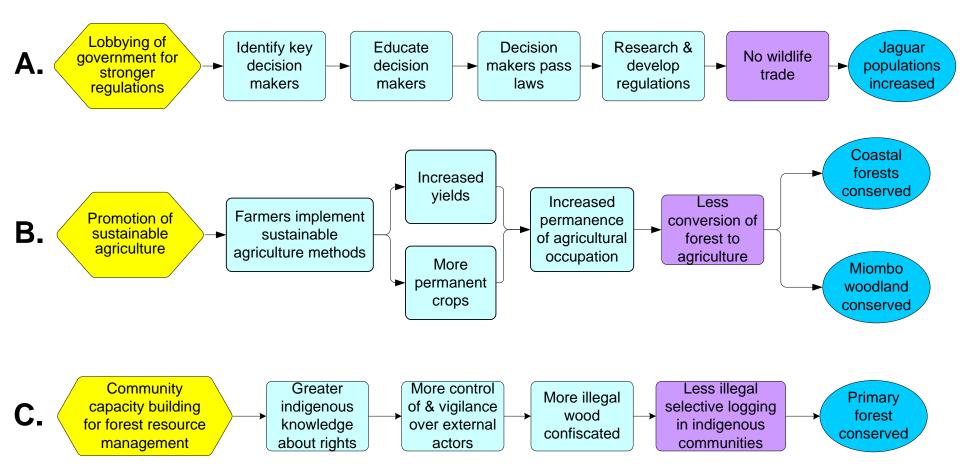


- Relatively complete: There are sufficient boxes to construct logical connections but not so many that the chain becomes overly complex.
- Simple: There is only one result per box.

It is not an implementation flow diagram...



Your Turn: Which of the Following is NOT a Results Chain?



This Presentation

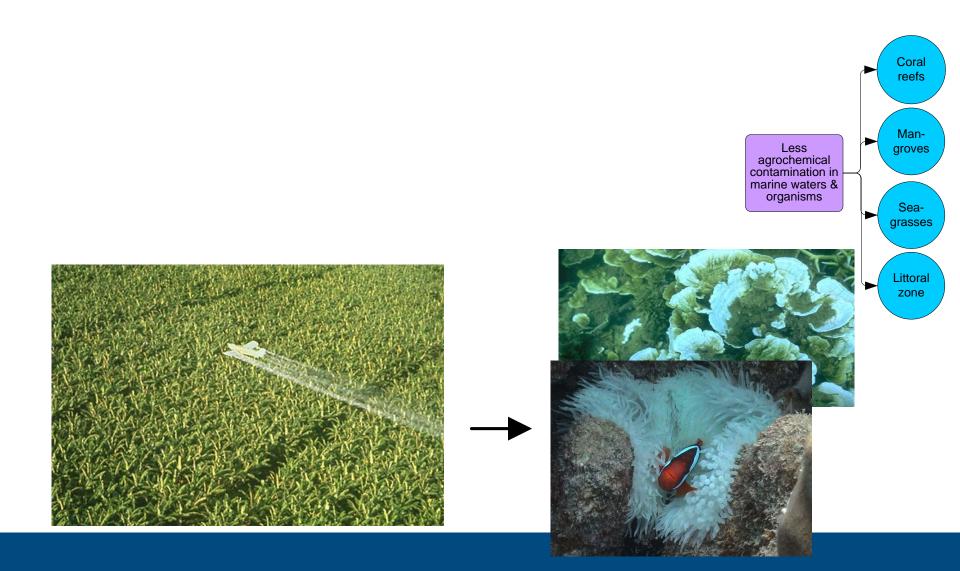
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Steps to Attributing Change to Programs

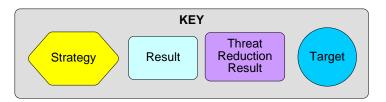
- 1. Define the Program's "Theory of Change"
- Develop Key Results into Good Objectives
- Define Indicators for Objectives and Goals
- 4. Measure Indicators
- 5. Define What Results are Directly vs. Indirectly Attributable to Program

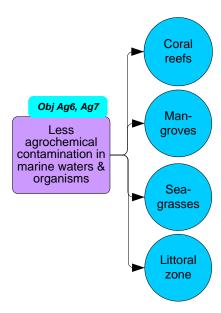
Example from the Meso-American Reef

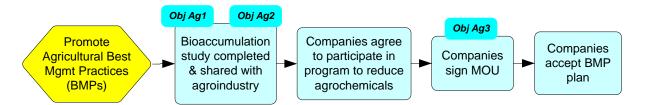


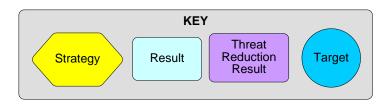


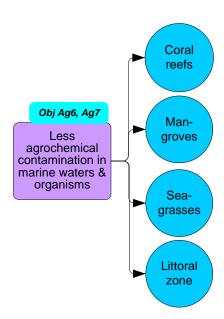
Promote
Agricultural Best
Mgmt Practices
(BMPs)

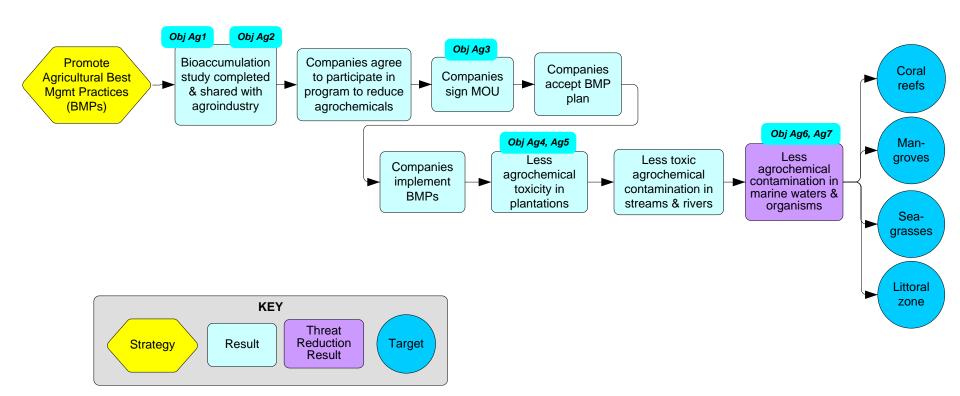


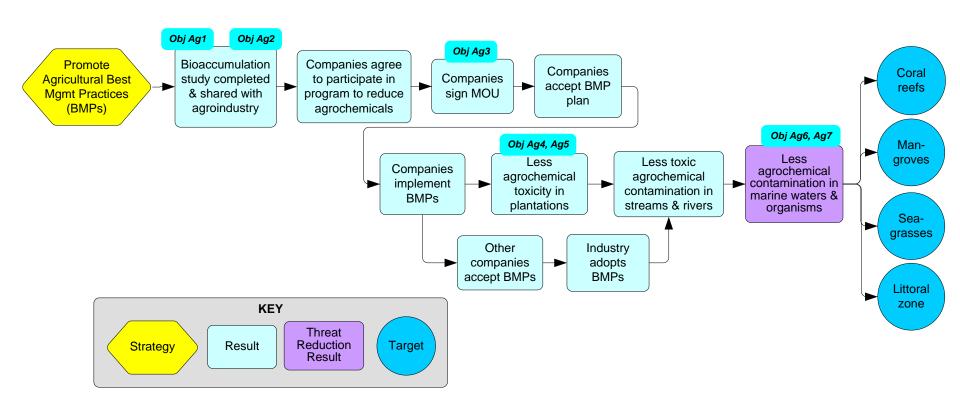












2. Develop Key Results Into Good Objectives

Ag5: By the end of 2012, reduce by 40% the total pesticide toxicity from fungicides, insecticides, and herbicides used on banana, citrus and sugarcane in high run-off npanies Coral pt BMP reefs Mesoamerican Reef watershed areas blan Obj Ag6, Ag7 ODJ Ag4, Ag5 Man-Less groves Less Less toxic Companies agrochemical agrochemical agrochemical implement contamination in toxicity in contamination in marine waters & **BMPs** plantations streams & rivers organisms Seagrasses Other Industry companies adopts accept BMPs **BMPs** Littoral zone **KEY** Threat Strategy Result Reduction **Target** Result

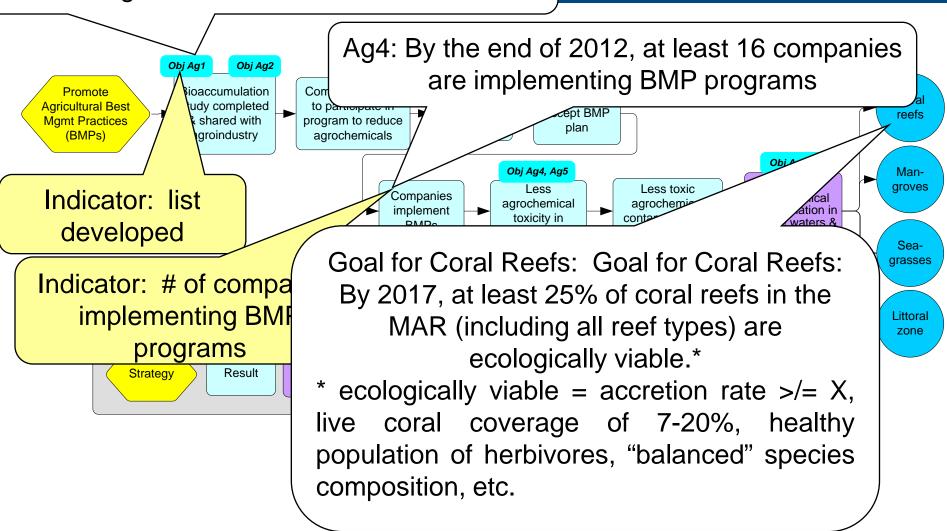
3. Define Indicators for Objectives and Goals

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Indicator: total pesticide toxicity from fungicides, insecticides, and herbicides used on banana, citrus and sugarcane

Ag1: By the end of 2008, develop a list of agrochemicals to reduce...

ectives and Goals



4. Measure Indicators



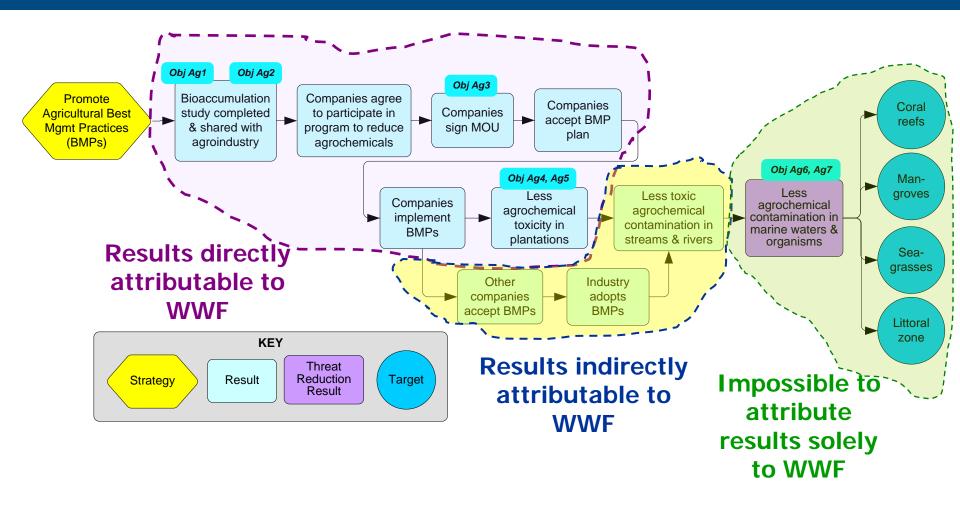
4. Measure Indicators

Indicator: total pesticide toxicity on banana plantations

Possible Monitoring Strategies:

- Pre-test / Post-test
- Time-series
- Comparison with strict control group
- Comparison with comparison group

5. Define What Results are Directly vs. Indirectly Attributable to Program



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