

Presentation to EEN June 2010 Daniel Hayden, Rare

- Background
- Building Closed Loop Processes
- Outcomes Analysis
- Lessons Learned

Rare at a Glance

Founded: 1972

Central office: Arlington, Virginia USA

Regional offices: Indonesia, China, Mexico

Total staff globally: 75

of countries Rare has worked in: 57

Our specialty: Social marketing to reduce threats

Method Summary: Rare trains partners to run "Pride campaigns" that change attitudes and behaviors, provide sustainable alternatives, and help communities protect biodiversity at the local level.



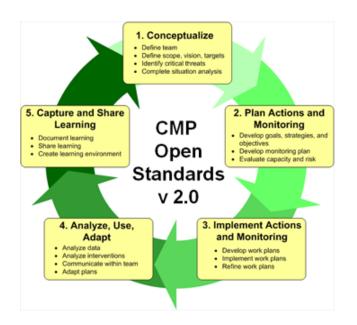


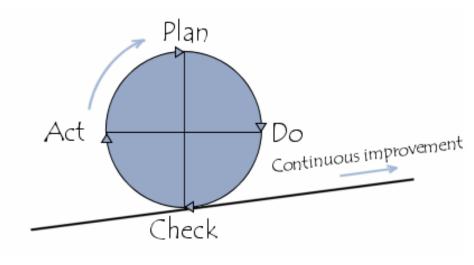


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Program Management

Systematic Learning through Closed Loop





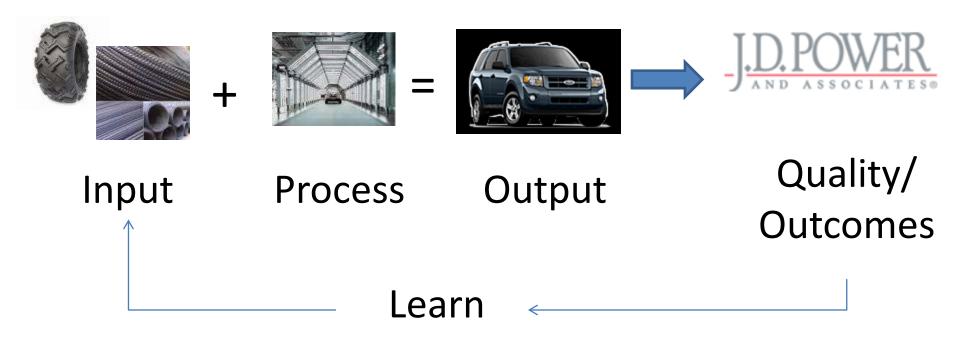
CMP Open
Standards for
Project
Management



Rare's Adoption of the Deming Model

Car Companies

Our model for conservation?



Rare

Mimicking MoTown

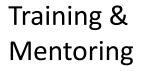


Great People at Great Places

Input







Process



Pride Campaign

Output

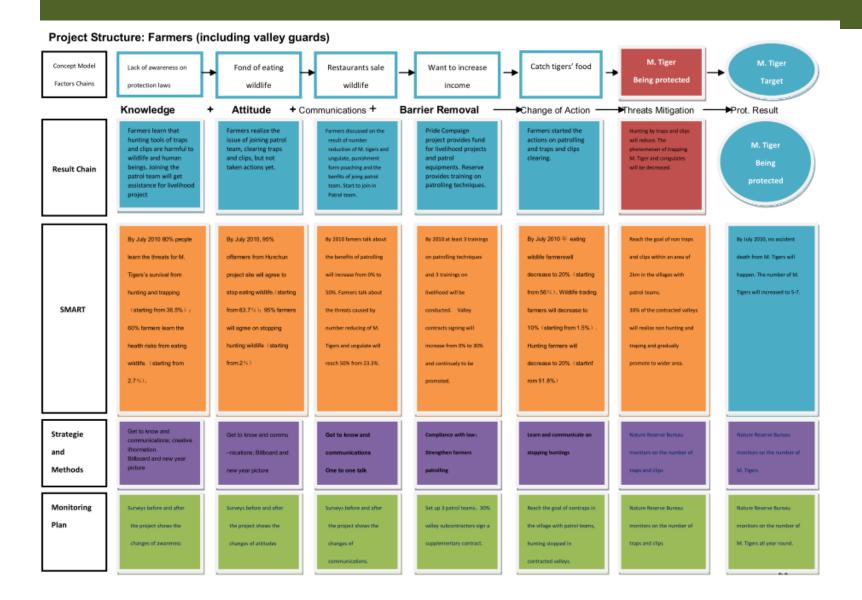


Quality / Outcomes

Learn

Theory of Change

Can't Measure if You Don't Know What You Want to Achieve



Standardized Project Management

All Campaigns Have Core Deliverables that are Scored

Orientation

Name	Due Date	Upload date	Approved date	Timeliness	File
项目地综述 (Site Summary)	2008-12-25	2008-12-05	Approved on: 2008-12-14	On Time	-郎建民.docx
项目组成员及利益相关者 (Project team & stakeholders)	2008-12-25	2009-01-24	Approved on: 2009-02-12	Late	-郎建民.docx -郎 建民.docx

Planning

Name	Due Date	Upload date	Approved date	Timeliness	File
概念模型 (Concept Model)	2009-02-15	2009-01-24	Approved on: 2009-02-12	On Time	郎建民.jpg
威胁排序 (Threat Ranking)	2009-02-15	2009-01-24	Approved on: 2009-03-06	Late	郎建民.jpg
障碍清除评估及可行性概述 (BRAVO)	2009-04-05	2009-09-21	Approved on: 2009-09-22	Late	Zhang Ai Qing Chu Ping Gu Yu Ke Xing Xing Gai Shu .doc
问卷调查及调查分析 (Questionnaire Survey & Survey Analysis)	2009-05-03	2009-03-13	Approved on: 2009-04-16	On Time	V5-3月4日-高.doc V5-3月4日- 高.doc
结果链 (Results Chains)	2009-05-03	2009-04-14	Approved on: 2009-04-20	On Time	RESULT CHAIN.doc
受众细分(理解我们的受众) (Audience Segmentation (Understanding our audience))	2009-05-03	2009-06-06	Approved on: 2009-06-10	Late	郎建民.docx

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Data Should Drive Decisions

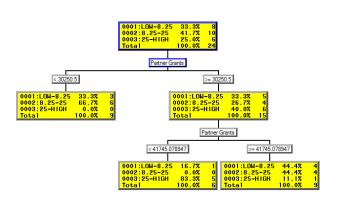
We don't capture data for data's sake

Audience	Goal	Type of Analysis	Example of Outcomes
Donor	Donors want to know the impact of their contributions to determine how /if to support our work.	 Outcome data Bright Spots/ Success stories 	 The average campaign gets 43% of the target audience to adopt new behaviors 83% of campaigns report lasting conservation impact Campaign in Bahamas endorsed by Prime Minister
Rare staff: Retrospective	 Improve partner recruiting Improve partner training Improve staff training 	Hypothesis driven statistical analysisLinear regression modelsStatistical decision tree analysis	 Partners that contribute some funding have more successful campaigns Track partner engagement Train staff on creating SMART Goals
Rare staff and Partners: Prospective	What does current data say about future outcomes and how can we change today	Linear regression model	 The longer a campaign is scored "Red" the longer it is apt to stay Red The more a supervisor is involved the more successful the campaign is apt to be

Experimentation

Linear regression got us stuck, decision trees were a breakthrough

Decision Tree Model



New insight

	Impact on the Changes				
Independ ent	Knowledge	Attitude	Behavior	Target Reached	
variable					
Levels of	3	3	3	2	
Changes					
Ratio of	NSD	SD(1)	NSD	NSD	
Total Weeks					
of Green					
The effect of	NSD	NSD	NSD	NSD	
whether					
existed a					
BINGO					
Partner					
The effect of	NSD	NSD	SD(1)	SD(2)	
Site					
Population					
Size					
The	NSD	Mass	Small	Mass	
influence of		Media(2)	Arts(2)	Media(1)	
Campaign					
Activities					
The effect of	SD(1)(2)	SD(2)	NSD	NSD	
Amount of					
Partner				12	
Grants					



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Lessons Learned to Date

Get Started, Be Patient ... Get Started

Management

- Modeling is an iterative process so you won't know what you are missing until you try
- You will never clean up your data until you try to use it and realize how bad it is
- However, you will never get resources to clean your data until you prove the value of the data
- So doing something is better than nothing

Analysis

- Start simple
- Try different approaches
- Invite other people to help you academics, students, interns, peers this gives you diverse perspectives

Driving decisions

- Stats are rarely so complete and so compelling as to change your organization so manage expectations
- Present the data in ways that people can use it to make decisions

Methods Issues

Some things we learned

Different methods make sense:

- We have not successfully built an uber model, why
 - Different sample sizes
 - Different research questions
 - Different audiences

Use common sense

- In small data sets a few samples can throw off the whole model – so analyst/manager needs to understand the context
- Is your data so good that you can really be counter-intuitive?

Share

Have different people review your analysis



Industry Approach

We need to work together

- Focus on open standards for data
- Join CMP
 - CMP has an initiative to join data sets across conservation organizations
 - Help define the standards
- •If you have skills, but no data, we have a role for you!



Thanks

When in doubt, hire people smarter than you



Philippe Pradel



Qianlan Zeng



Sean Grundy



Peter Vaughan

