

North America Policy Program Webinar Series:

Bottom Up Policy: The role of SCB Chapters in policy development



Dr. Marit Wilkerson





Society for Conservation Biology

A global community of conservation professionals

An Overview of SCB

A global community of conservation professionals and students



work and www.conbio.org



@Society4ConBio



Facebook.com/Society4ConBio



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A global community of conservation professionals



ICCB 2015

2-6 August, 2015 Montpellier, France

Mission Biodiversity: Choosing new paths for conservation

Deadline to submit abstracts for contributed oral, speed, and poster presentations for ICCB 2015 is January 31. Visit www.iccb-eccb.org for details.



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Future Policy Webinar Topics

- Feb. 4th, 2:30 pm EST: Endangered species and Policy Responses - Bret Hartle, Center for Biological Diversity.
- March 4th, 2:30pm EST, Ecosystem Services and Biodiversity - Rob Griffin, Natural Capital Project
- April 15th, 2:30 EST, Adaptation Planning at the State Level, Bob Glazer, Florida Fish and Wildlife Conservation Commission
- June, Scenario Planning as a Conservation Tool, Melinda Koslow, National Park Service
- · Misc. Blogging opportunities.



Working locally to achieve conservation success

Bottom Up Policy the role of SCB Chapters in policy development

Alternate title:

Processes & ideas to affect local change for conservation

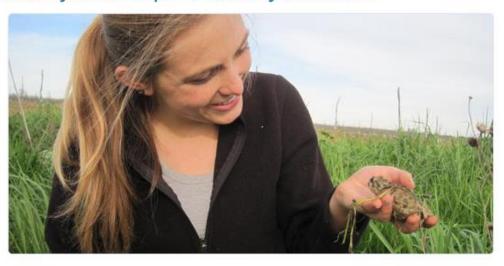
Presented by: Marit Wilkerson

Special thanks to Doug Parsons & Nate Spillman, Jessa Madosky & Andy Gregory (Chapters Committee), Rosie Hartman (formerly SCB-Davis), Monica Awasthy & Simone Birrer (Sydney), Julian Beaman (Brisbane UQ), and Ilona Naukokaitis-Lewis (formerly Toronto)

Howdy! I'm Marit

Marit Wilkerson @MaritWilk · Jan 8

SCB Chapters engage w their communities in diverse ways! Learn more Jan 14: buff.ly/1tNPkqC @Society4ConBio



View more photos and videos









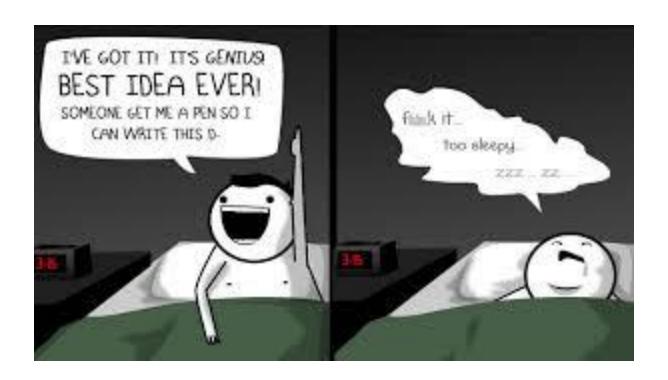
Twitter: @MaritWilk | Email: mlwilkerson@ucdavis.edu

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Our objective

• To inspire and enable you!





Effective strategies create measurable change







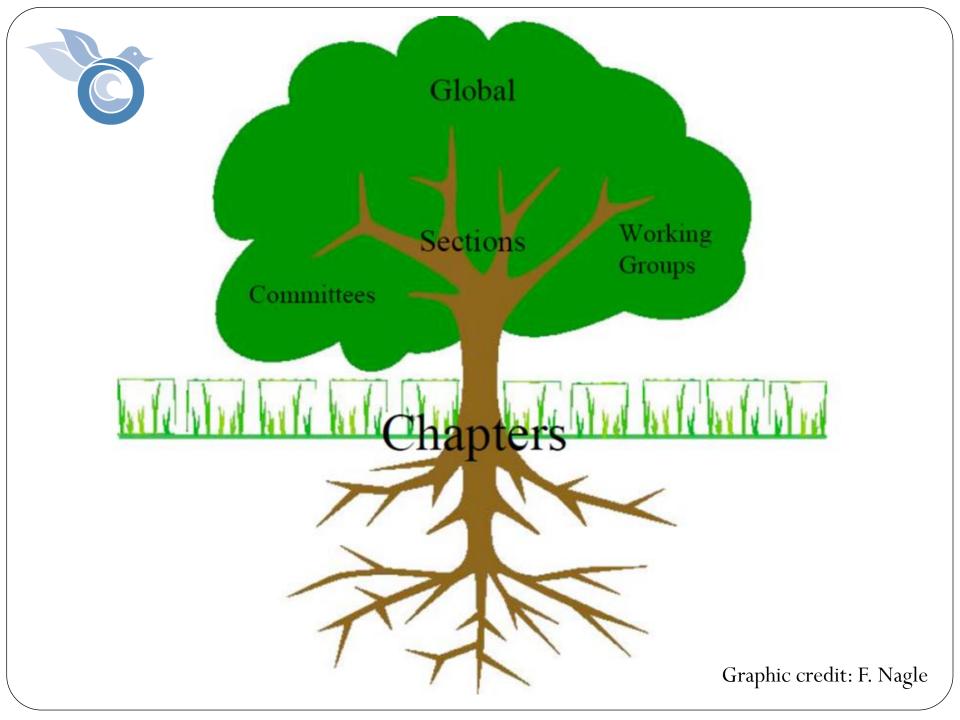


Kumutoto Forest Restoration Project Victoria University Wellington Chapter Wellington, New Zealand

*See Appendix slides for detailed description of Chapter activities & results



- Role of SCB chapters (& small conservation groups in general!)
- Framework of engagement practice
- Actionable next steps for you and your group
- Questions & follow up





SCB Chapters embrace diverse engagement activities



*See Appendix slides for more detailed breakdown of SCB chapter activities and strategies



One simple & powerful framework



*This is a distillation of many more intricate and specific frameworks for creating change. To see models that may be more aligned with your specific needs and challenges, please see Appendix slides.



Pinpoint your purpose

Could be:

- Research
- Awareness
- Bonding
- Behavior changes
- Fundraising
- Policy

(among many more)



Humboldt State University Chapter Biodiversity Conference



Kingston Chapter Photo contest at Queen's University



• Mission statement of policy committee: "Through our activities we hope to establish biodiversity conservation as the primary focus of public policies on a)protected area management, b) land use/marine planning processes, and c) species at risk conservation; and work towards ensuring that these policies are science-based, effective, and adequately implemented and enforced"

- Narrow down goals \rightarrow focus on drivers of koala decline
- Construct background lit database and research policy history
- Connect with individual MP's & public servants



Determine how to measure success

S.M.A.R.T objectives could be:

- # m² planted this spring
- \$ raised for a cause in 2 wks
- % of target community involved in project over 1 yr
- Passed legislation supported by A,B, & C legislators



Citizen science project from Toronto Chapter sampling pollinators. For more information on their work, see slide XX in the appendix

S.M.A.R.T.: S(pecific) M(easurable) A(chievable) R(elevant) and T(ime-limited) [National Co-Ordinating Centre for Public Engagement (NCCPE)]

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• Purpose: Increase (local) conservation literacy around

pollinators

• To volunteer base

To landowners around Rouge Park





Number of volunteers	Field	Lab
2012	46	30
2013	51	40

- Field sampling skills
- Experimental design
- Plant survey methods and identification
- Bee identification
- Pinning techniques
- Catalogue and processing of specimens

Slide adapted from I. Naujokaitis-Lewis



Understand your audience

Who are they? (build audience personas) "Conservation decision-making is a 'tournament of values'" (Robertson & Hull 2010)

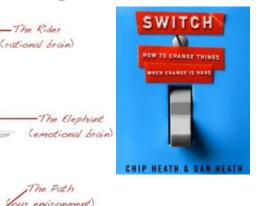
- What do they need and value? (consider and address barriers)
- Who do they listen to? (identify champion/influencer)

Target

Intermediaries

Enabling EcoAction
Handbook

How to change their behaviors?



*More information about understanding your audience please see Appendix slides



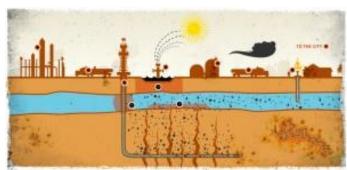
Build a plan of action

- Align with objectives & metrics
- Not everything will work and that's OK!
- Learning is part of doing

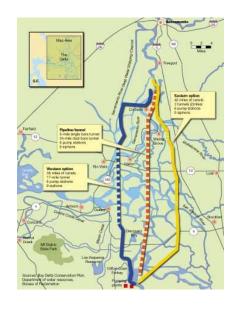


Texas A&M Chapter Annual Brazos Valley Bioblitz

DAVIS CHAPTER







- Policy briefs on:
 - New fracking regulations in California
 - Plastic bag ban in the City of Davis
 - Referendum on new water project for City of Davis
 - San Francisco Bay-Delta Conservation Plan (BDCP

Slide adapted from R. Hartman



Test, learn, and optimize!

- Monthly, quarterly, annually
- Determine testing lifetime to identify unsuccessful initiatives



Share your outcomes with SCB & conservation peers!



Little Penguin monitoring & habitat restoration Sydney Chapter

*For a list of best practices distilled from multiple communities and literature, see Appendix slides



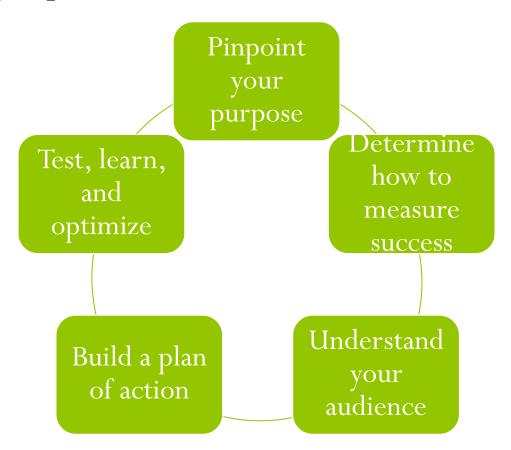
What can YOU do in your conservation group?

- Organize volunteer restoration event in local native habitat with desired X number of participants
- Conduct bird, insect, plant counts for local non-profit (or your own!) with X number of fellow volunteer experts (or train them!)
- Tweet 3x/wk about local conservation policies, projects, or groups
- Host public seminars about local/regional effects of climate change, water conservation, soil erosion, etc. w/ X number of participants each (and not just your friends!)
- 1x/wk take a look at what's happening in your City Council or state/regional legislation
- Organize silent auction at your next conference and donate proceeds to local conservation organization



What can YOU do in your conservation group?

• Remember to always match your activities with your purpose and metrics!!



Questions, Challenges, Successes, Stories?



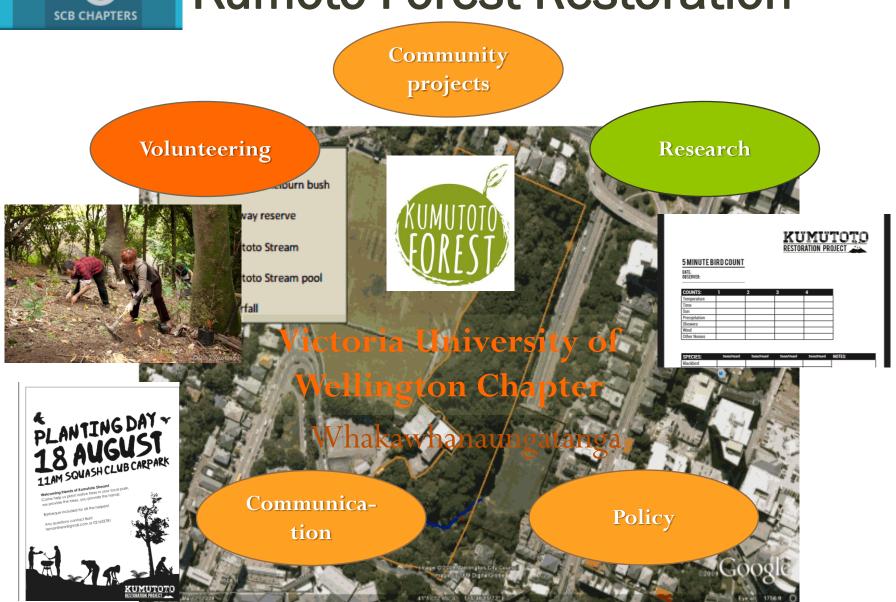


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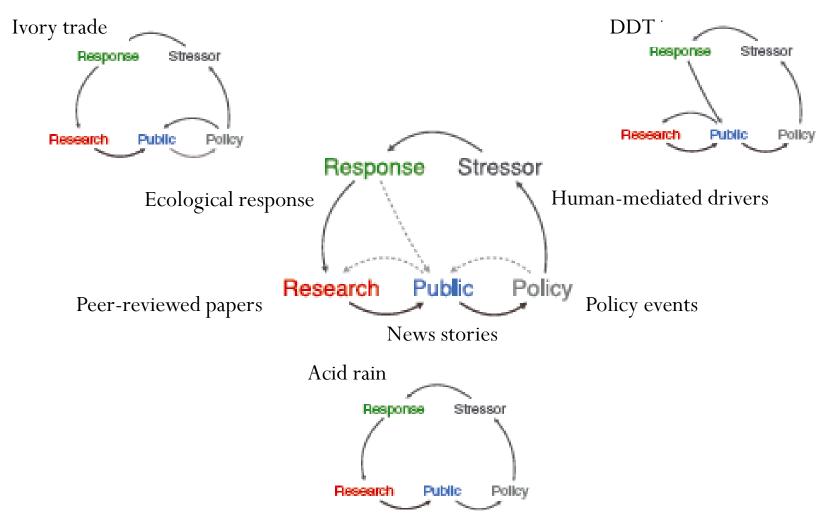


Kumoto Forest Restoration





"Pathways to conservation success"





If your goal is engagement through research

Synthesis

Public Participation in Scientific Research: a Framework for Deliberate Design

Jennifer L. Shirk ¹, Heidi L. Ballard ², Candie C. Wilderman ³, Tina Phillips ¹, Andrea Wiggins ⁴, Rebecca Jordan ⁵, Ellen McCallie ⁶, Matthew Minarchek ¹, Bruce V. Lewenstein ⁷, Marianne E. Krasny ⁸, and Rick Bonney ¹

- Public participation in scientific research (PPSR)
- To have an impact, PPSR should aim for one or more outcomes:
 - outcomes for research
 - outcomes for individual participants
 - outcomes for social-ecological systems



Citizen science project from Toronto Chapter Sampling pollinators



If your goal is engagement through research

Models of PPSR

Contractual

Scientists do the project for the public

Contributory

Project designed by scientists, public collects data

Collaborative

Project designed by scientists and assisted by participants

Co-created

Project designed by both scientists and the participants; high level of involvement in scientific process

Collegial

Public does the project independently

Shirk et al. 2012



If your goal is engagement through research

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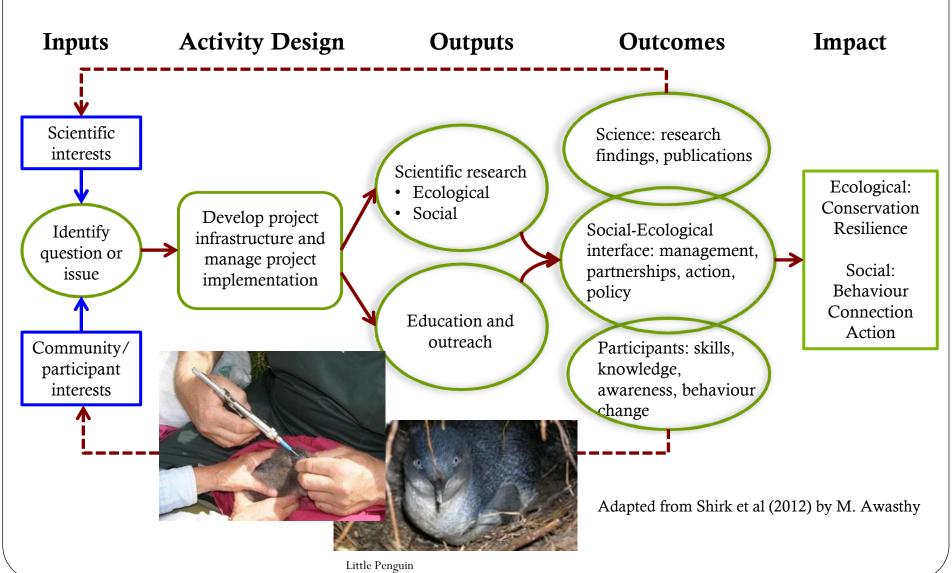
Collegial

Public does the project independently

Shirk et al. 2012



PPSR Framework





If your goal is engagement, whatever form that may take

- "Public engagement describes the myriad of ways in which the activity and benefits of conservation groups can be shared with the public. Engagement is by definition a *two-way process*, involving interaction and listening, with the goal of generating mutual benefit." [emphasis mine]
 - National Co-Ordinating Centre for Public Engagement (NCCPE)

http://www.publicengagement.ac.uk/



Determine your reason/purpose

- Inspire
 - Stimulate, motivate, stir, instigate, enthuse
- Disseminate
 - Broadcast, publicize, spread, propagate
- Involve
 - Engage, include, engross, embrace
- Consult
 - Refer to, check, confer, discuss
- Encourage
 - Boost, embolden, move, urge, support
- Collaborate
 - Work together, join forces, team up



Humboldt State University Chapter Biodiversity Conference



Kingston Chapter
Photo contest at Queen's University



ALWAYS determine your audience!

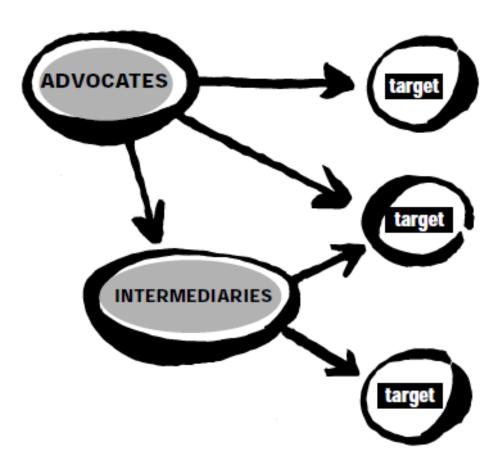
- Types of demographic categories: age, gender, socioeconomic status, education level, ethnicity, geographic area, interests
- Steps to identify & understand your audience:
 - Build a profile
 - Work with audience you know
 - Identify a champion/influencer
 - Consider & address barriers
 - Transport, disposable income, timing, interest, trust level, relevance, language, awareness, food



Texas A&M Chapter Annual Brazos Valley Bioblitz



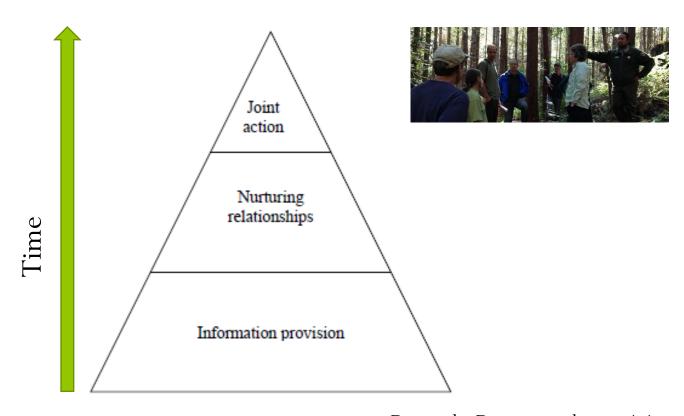
Players within your target audience



Enabling EcoAction handbook



Stages of engagement



Dating the Decision-makers, v 1.1 International Institute for Sustainable Development

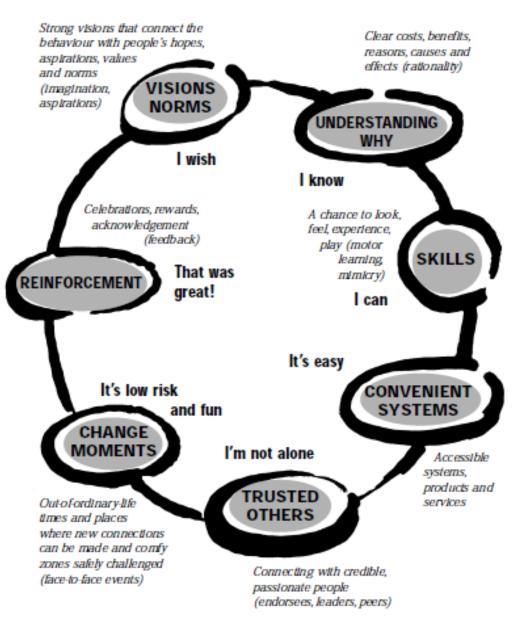


Evaluation

- Plan of action at the beginning of program (NOT the end)
 - Have an overarching aim (big picture)
 - Make your collective objectives SMART: S(pecific)
 M(easurable) A(chievable) R(elevant) and T(ime-limited)
 NCCPE
- Have indicators
 - What specific questions (like a research question!)
 - Qualitative or quantitative?
 - Process-oriented
 - Outcome-oriented (impact assessment)
 - Counterfactuals, BACI (before-after control-impact), RCT (randomized controlled trials)



THE 7 ELEMENTS OF AN EFFECTIVE CHANGE PROGRAM





Best practices

- Be responsive to group membership
- Distribute leadership responsibilities
- Build & maintain relationships
- Have regular and frequent activity
- Focus on specific behaviors to change
- Embrace the importance of values
 - "Conservation decision-making is a 'tournament of values'" (Robertson & Hull 2010)



Policy as a particular type of engagement

• "the ultimate purpose of conservation science is to inform and affect conservation policy"

Essays

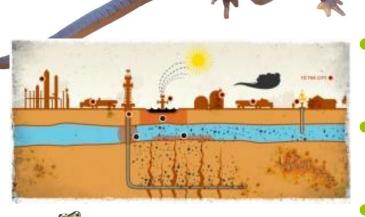
Beyond Biology: toward a More Public Ecology for Conservation

DAVID P. ROBERTSON AND R. BRUCE HULL*

Department of Forestry, College of Natural Resources, Virginia Tech (0324), Blacksburg, VA 24061, U.S.A.







- New Fracking regulations in California
- Plastic bag ban in the City of Davis
- Referendum on new water project for City of Davis
- San Francisco Bay-Delta Conservation Plan (BDCP)



Slide adapted from R. Hartman





- 2-6 people for each brief
- Consulted with local experts on Bay Delta Conservation Plan
- Disseminated to: City Council contacts, forums for public comments, local lobbyists, local listservs, letter to the editor for local newspaper
- Received thank you's from specific contacts and general public via forums





Society for Conservation Biology

Brisbane-UQ Chapter

A community of conservation professionals based in Brisbane and The University of Queensland









- Brisbane G20 'People's Declaration' organized by the United Nations Association of Australia, Queensland
 - Had representative (ex politician from Queensland) speak to Chapter and then asked for a statement from the Chapter
 - 4 Chapter members, quick turn-around
 - Representative very grateful and pleased

Statement of issue & viewpoint

Recommendations (numbered!!)

References

Authors & contact

Measuring and accounting for the true cost of natural resource use: A contribution to the Brisbane G20 'People's' Declaration

The Society for Conservation Biology Brisbane & University of Queensland Chapter*

Today in Queensland there are approximately 15 000 abandoned mine sites with an estimated public liability of \$1 billion for their rehabilitation. Deforestation and other causes of biodiversity loss also continue to diminish the natural capital and provision of ecosystem services upon which human societies and economic systems ultimately depend^{2,3,4}. It is clear that economic prosperity and growth are inherently linked to the health of the natural environment.

We believe that environmental health is consistently overlooked when short-term growth is emphasised in financial policies. Furthermore, the cost of environmental degradation is not accounted for in indicators of economic growth such as Gross Domestic Product (GDP)⁵. More comprehensive measures of economic development, such as the Genuine Progress Indicator (GPI), do incorporate impacts on environmental health and sustainability⁶. The meeting of the G20 leaders in Brisbane is an excellent opportunity to make a commitment to ecologically sustainable development.

Recommendations

The people of Brisbane urge G20 leaders to:

- Ensure that economic targets are ecologically viable and sustainable beyond the current five year targets.
- Incorporate impacts on environmental health into indicators of economic growth.
- Support evidence-based decision-making and policy development that explicitly take into account the true value of natural capital and ecosystem services.

References

- Queensland Audit Office. 2013. Environmental regulation of the resources and waste industries, Report 15: 2013 – 14. The State of Ouesnaland: Brisbane.
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- Smith, L. M., J. L. Case, H. M. Smith, L. C. Harwell, and J. K. Summers. 2013. Relating ecosystem services to domains of human well-being: Foundation for a U.S. index. Ecological Indicators 28:79-90.

Contact: Julian Beaman, Policy Committee Leader, SCB Brisbane-UQ Chapter (j.beaman@uq.edu.au)

^{*}The Society for Conservation Biology (SCB) is an international professional organisation dedicated to promoting the scientific study of the phenomena that affect the maintenance, loss, and restoration of biological diversity and has more than 10,000 members world-wide. The Brisbane & University of Queensland SCB Chapter was initiated in 2010, and aims to bring together conservation scientists, land managers, economists, legal professionals and social scientists who share the SCB's mission of advancing the science and practice of conserving the Earth's biological diversity.





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Brisbane-UQ Chapter

A community of conservation professionals based in Brisbane and The University of Queensland









- Next steps?
 - Narrow down goals → focus on drivers of koala decline
 - Doing background literature and policy research
 - Constructing background database
 - Want to meet with individual MP's & public servants

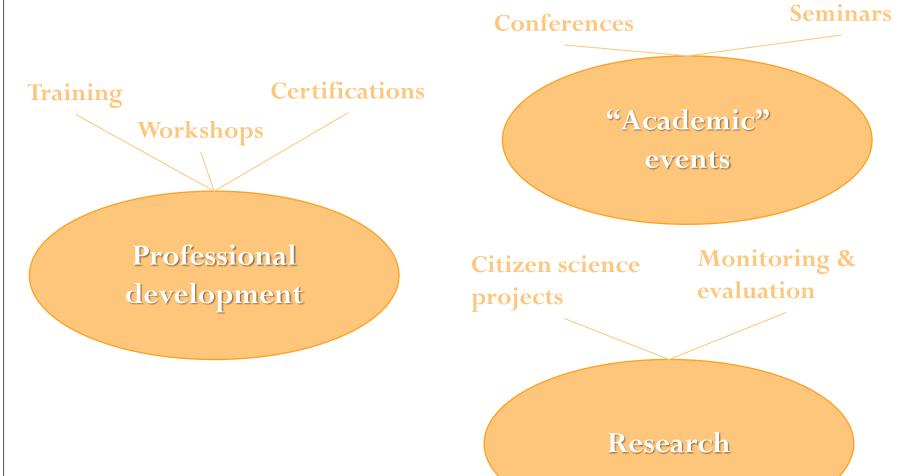


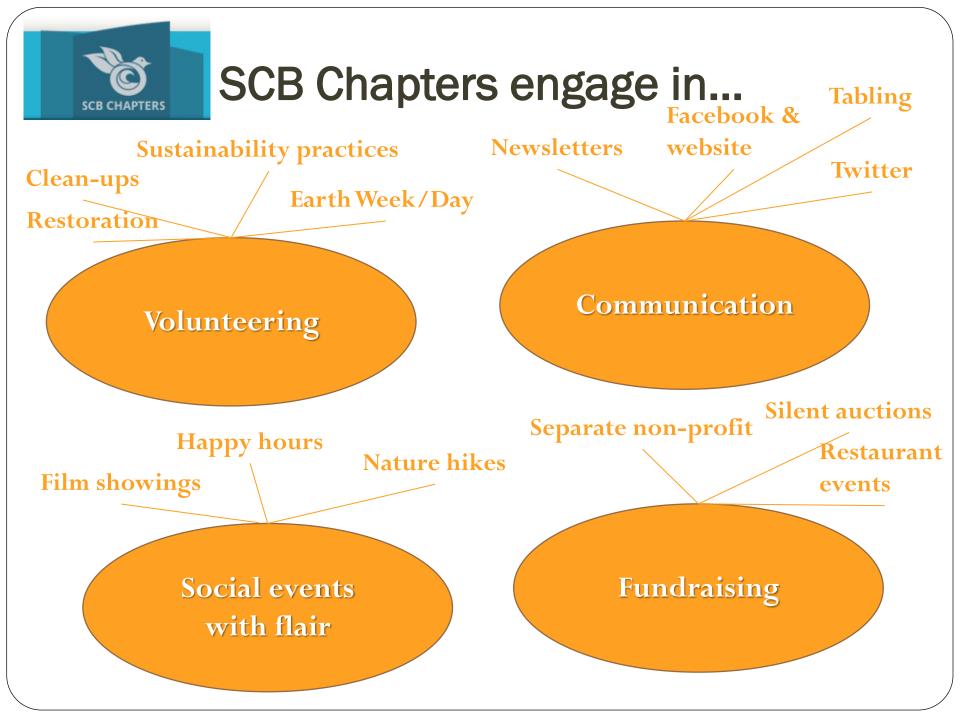
Best practices

- Pay attention to upcoming legislation...or pick long-term issues
 - *Timing is essential*
- Do your background research
- Focus on local issues
- *Build relationships*
- *Know how to craft a policy brief!*



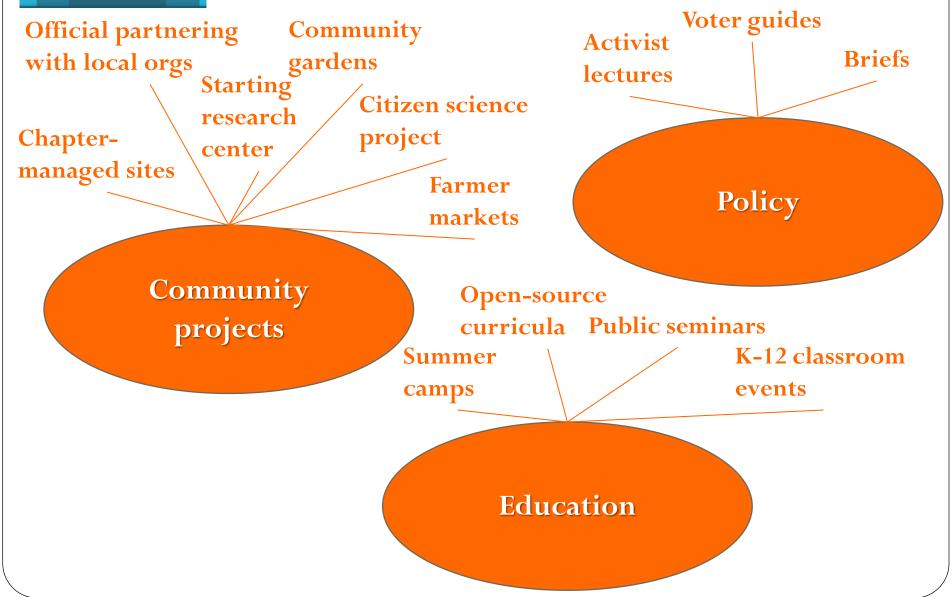
SCB Chapters engage in...







SCB Chapters engage in...





Process of engagement

- Purpose (why?)
- Audience (who?)
- Activity (what?)
- Evaluation (how?)

NCCPE

- Formative research
- Audience participation in design
- Setting actionable objectives
- Making your program measurable
- Know your audience
- Designing your program as a cycle
- Start planning your program
- Crafting strong messages
- Designing an integrated communication campaign
- Pre-test

- Goal setting
- Audience identification
- Appropriate suite of tools
- Evaluation and revision

International Institute for Sustainable Development

Enabling EcoAction Handbook

Rider. Elephant. and Path

(from the book)

1



is a metaphor for





The Rider

The Rider loves to contemplate and analyze, doing so with a negative bias, almost always focusing on problems rather than solutions. The Rider is frustrated by uncertainty and easily exhausted.

The rational mind

Typified by the prefrontal cortex, the area of the brain that looks for patterns, makes plans, predicts the future, monitors the self, and attempts to distinguish between and suppress animal instincts.

2



is a metaphor for



The Elephant

The elephant is easily spooked and hates doing things with no immediate benefit. It is stubborn, needs reassurance, and is quickly demoralized. But it is powerful, tireless, and difficult to actively direct.

The emotional mind

Typified by the amygdala, the root of fear and trigger of the body's stress response. Negative emotion has a narrowing effect on range of thought. Positive emotion allows the mind to wander creatively.





is a metaphor for



The Path

Even when the Rider and the Elephant cooperate, they must know what direction to head. Without a clear vision of the destination, change will not happen. The Elephant tends to follow the path of least resistance.

The environment

External stimuli make up the world that the mind consciously and unconsciously interprets and reacts to. Forces like convenience, distraction, and cognitive biases play a significant role in directing behavior.

Adapted from a book by
Dan and Chip Heath:

Switch (How to change things)