



NDCEE

National Defense Center for Energy and Environment

Building Institutions for Regional Sustainability

Elizabeth Keysar, NDCEE

2009 Environment, Energy and Sustainability Symposium
May 7, 2008



DoD Executive Agent

Office of the
Assistant Secretary
of the Army
(Installations and
Environment)

The NDCEE is operated by:  *Concurrent Technologies Corporation*

Technology Transition – Supporting DoD Readiness, Sustainability, and the Warfighter

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 07 MAY 2009		2. REPORT TYPE		3. DATES COVERED 00-00-2009 to 00-00-2009	
4. TITLE AND SUBTITLE Building Institutions for Regional Sustainability				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) National Defense Center for Energy and Environment, Concurrent Technologies Corporation (CTC), 100 CTC Drive, Johnstown, PA, 15904				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 4-7 May 2009 in Denver, CO.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 19	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Building Institutions

Joint Regional Flag Officer Council
Washington Military Sustainability Partnership



SERPPAS
Southeast Regional Partnership for Planning and Sustainability

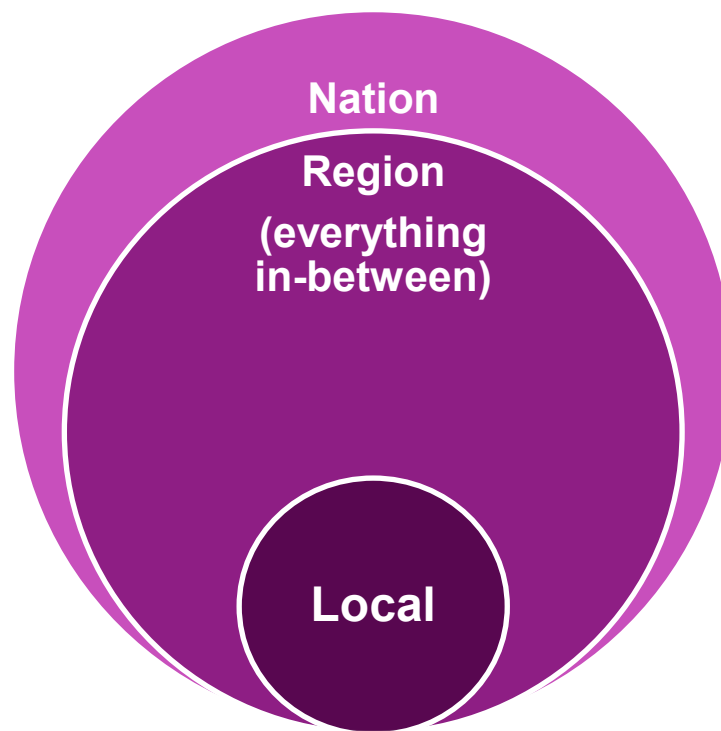


SAN DIEGO REGIONAL
SUSTAINABILITY PARTNERSHIP



Building Institutions for Regional Sustainability

- Why Sustainability at a Regional Scale?
- Cases of Institution Building
- Typology
- Challenges
- Implications



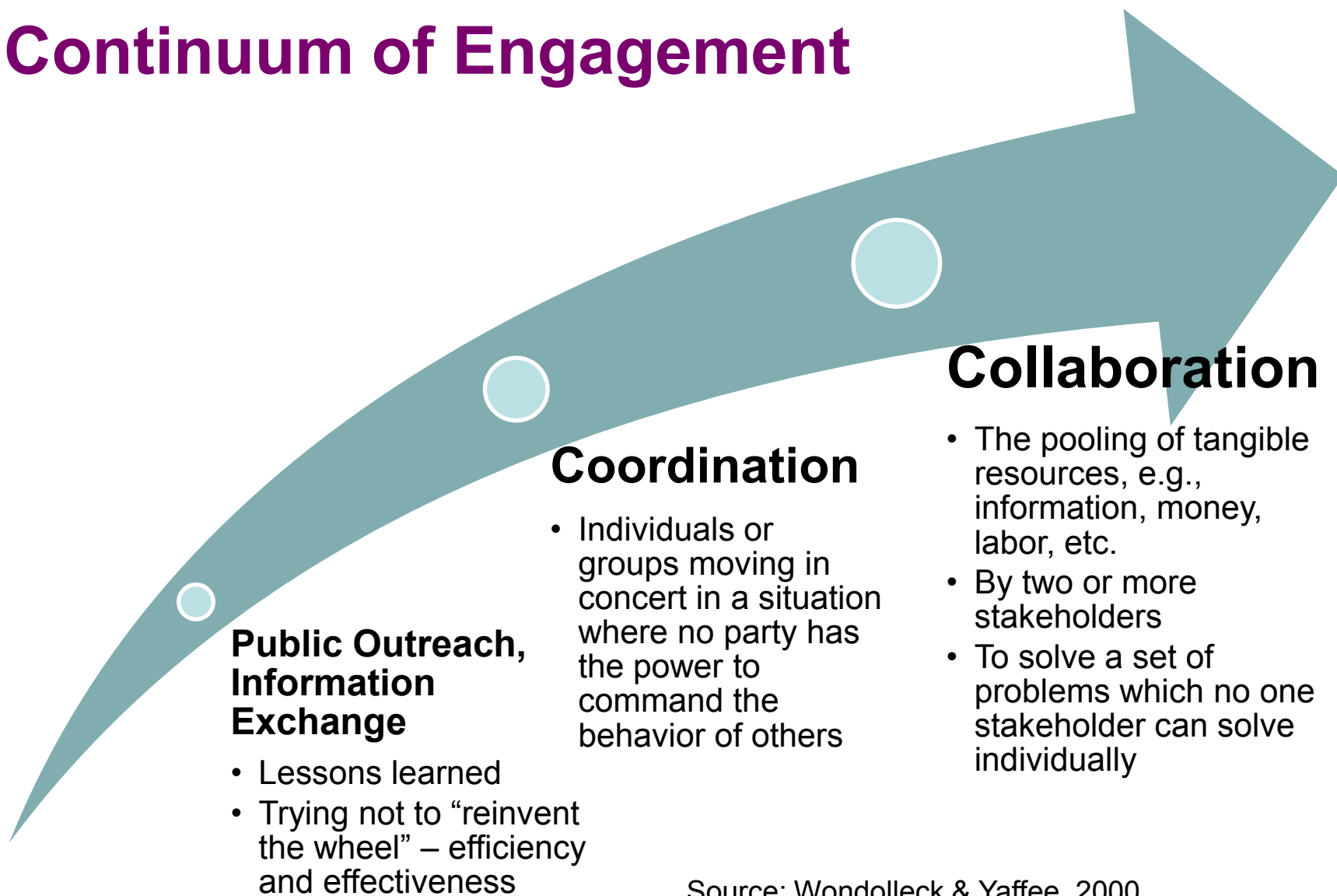
Sustainability Drivers

- Triple Bottom Line Plus – mission, environment, and community + economics
- Systems Thinking – multiple scales; address the problem at the appropriate scale, recognize the linkages
- Natural Resource Scarcities – water supply, water quality, air quality, land, habitat
- Encroachment – compatible land use, threatened & endangered species, safety zones, noise and smoke buffers
- Economies of Scale – drive the market; often markets do not yet exist

Policy Drivers

- *Sustainment of Ranges and Operating Areas, DoD Directive 3200.15*
- *National Defense Authorization Act (NDAA) for Fiscal Year 2003, Congress authorized Section 2684a of Title 10 United States Code (10 U.S.C. § 2684a)*
- *Regional Environmental Coordinators (REC) and Regional Environmental Offices; DoD Instruction 4715.2, DoD Regional Environmental Coordination*

Continuum of Engagement



Source: Wondolleck & Yaffee, 2000

What is an “Institution”?

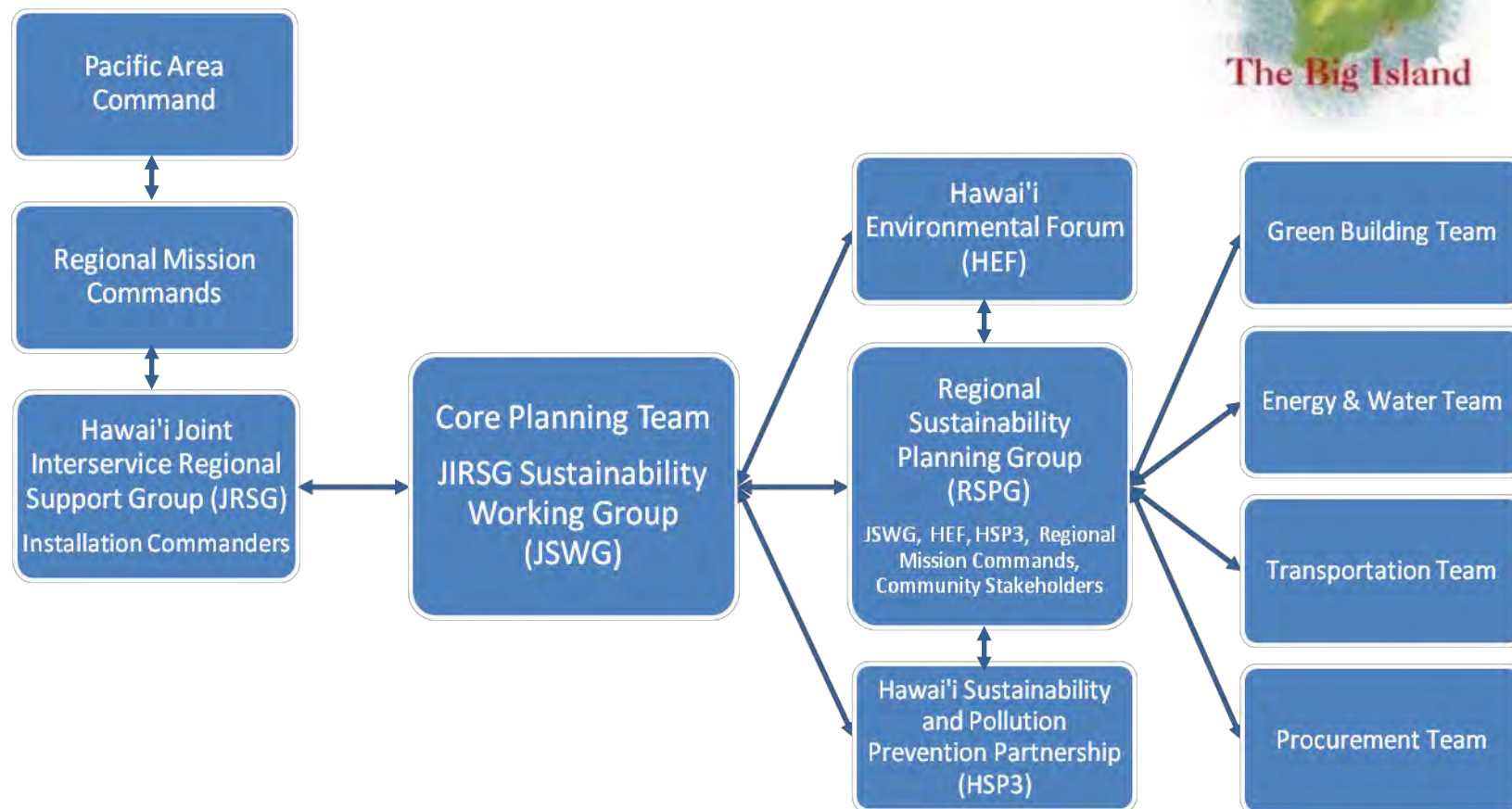
- Structures and mechanisms
- Social order and cooperation
- Governing the behavior of a set of individuals
- Identified with a ***social purpose*** and ***permanence***
- Transcending individual lives and intentions
- Making and enforcing of rules

Source: Wikipedia

Core Planning Team

- Central planning and implementation entity
- Has most responsibilities for implementing the regional sustainability initiative
 - Contributes resources (time, material, personnel, or dollars)
 - Manages logistics (scheduling workshops, conducting briefings, directing projects)
 - Guides decision-making process; makes decisions
 - Promotes the effort to new partners in the region
 - Becomes champion for actions; identifies champions to carry on
- Membership will vary
- Link activities in the region under “sustainability”

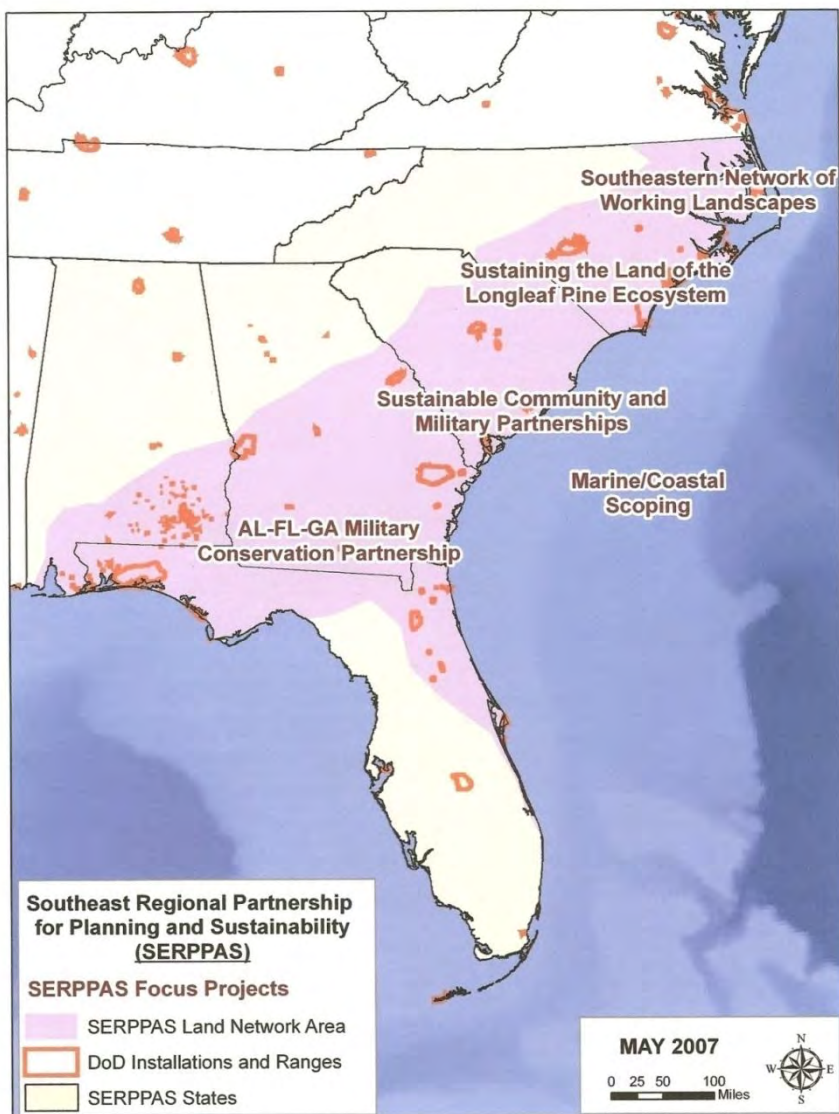
Hawai'i Regional Sustainability Initiative



Typology - Joint

Regional Sustainability Initiative Typology	Key Characteristics	DoD Role	Stakeholders
Joint	- Critical mass of DoD assets with recognition of mutual dependency - Existing DoD regional leadership group/council - Major sustainability issue(s) - Critical role in regional economy - Shared ecological resources	- DoD initiated - DoD lead - DoD supported - DoD forms Core Planning Team	- Services: Army, Navy, Air Force, Marine Corps - Coast Guard - Reserves - National Guard - Office of the Secretary of Defense - State-level environmental agencies - Community SMEs, nongovernmental organizations

Southeast Regional Partnership for Planning and Sustainability (SERPPAS)



Typology - Collaborative

Regional Sustainability Initiative Typology	Key Characteristics	DoD Role	Stakeholders
Collaborative	- Significant assets by more than one Service (or jointly used) - Major sustainability issue(s) - Shared ecological resources	- DoD initiated - Partnership lead - Partners jointly support/DoD contributes - DoD member of Core Planning Team	- Services - State-level natural resource offices - Other federal agencies



Sustainable Sandhills



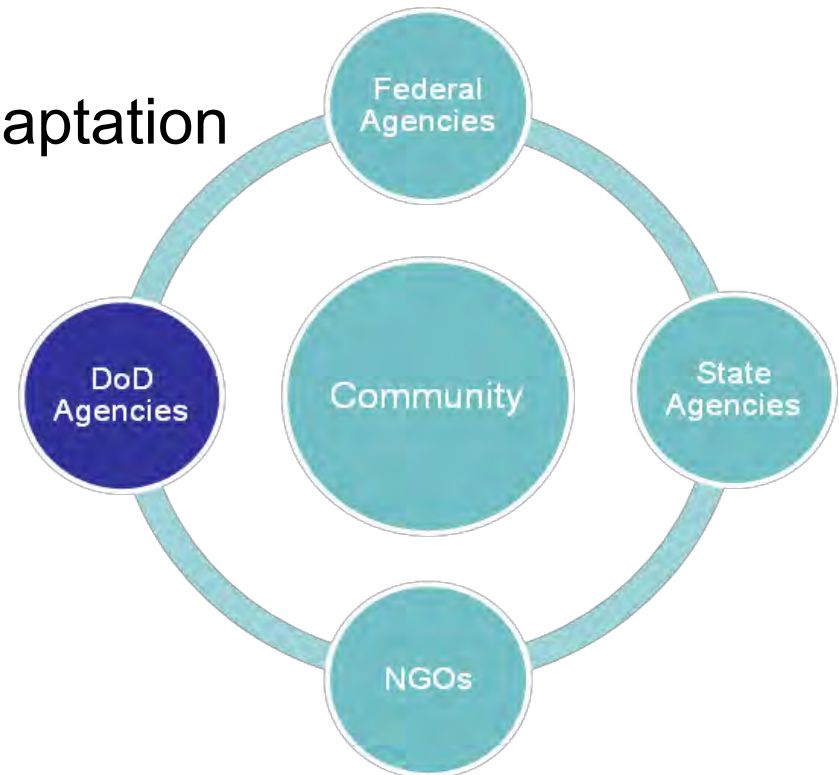
Typology - Community

Regional Sustainability Initiative Typology	Key Characteristics	DoD Role	Stakeholders
Community	- Significant asset by one Service (could be jointly used) - Major sustainability issue(s) - Shared ecological resources	- Installation initiated with Community Partners - Community lead - Community & DoD supported - Core Planning Team composed of Non-profit Board of Directors - DoD member of planning teams as appropriate	- Fort Bragg - Community activists - Local businesses - Local governments

Challenges

(adapted from Scholz & Stiffler, 2005)

- Problem Relevance & Responsiveness
- Representation
- Decision Process
- Organizational Learning & Adaptation
- Public Learning
- Institution Building



Implications

- Getting it started is the “easy” part – **longevity** is the trick:
 - Relevancy
 - Resources
 - Leadership
- Far too early to tell if new institutions will lead to positive change
- Need will continue to drive innovation
- Need to learn from experience to guide where is this going next

References

- Scholz, J.T. & Stiftel, B. (eds) (2005) *Adaptive Governance and Water Conflict: New Institutions for Collaborative Planning*, Washington, D.C.: Resources for the Future
- San Diego Regional Sustainability Partnership <http://www.sdrsp.org/>
- Southeast Regional Partnership for Planning and Sustainability <http://www.serppas.org/>
- Sustainable Sandhills <http://www.sustainablesandhills.org/>
- Western Regional Partnership <http://www.wrpinfo.org/news.aspx>
- Wondolleck & Yaffee (2000) *Making Collaboration Work: Lessons from Innovation in Natural Resource Management*, Washington, D.C.: Island Press
- Definition of “Institution” drawn from Wikipedia: <http://en.wikipedia.org/wiki/Institution>

Acknowledgements

- **NDCEE Executive Agent** Mr. Tad Davis, DASA (ESOH)
- **NDCEE Program Director** Mr. Hew Wolfe, ODASA (ESOH)
- **NDCEE Program Manager** Mr. Tom Guinivan, ODASA (ESOH)
- **NDCEE Contracting Officer's Representative** Mr. Tom Moran, ODASA (ESOH)
- **Government Technical Monitor** Mr. Hany Zaghloul, ERDC-CERL
- **NDCEE Project Manager** Ms. Donna Provance, CTC

Contact Information

Elizabeth Keysar
Concurrent Technologies Corporation (CTC)
TEL: (770) 631-0137
Email: keysare@ctc.com

www.ndcee.ctc.com

This work was funded in part through the Office of the Assistant Secretary of the Army (Installations and Environment) and conducted in part under contract W74V8H-04-D-0005 Task 0501. The views, opinions, and/or findings contained in this paper are those of the author and should not be construed as an official Department of the Army position, policy, or decision unless so designated by other official documentation.