



SESYNC Feedbacks

News from the National Socio-Environmental Synthesis Center



TOP TOPICS | Actionable Science + Complex S-E Systems

At the heart of all SESYNC research is the challenge of trying to solve **complex socio-environmental issues** through **actionable science**. Although they are incredibly broad and deep in their complexity, these topics deserve a great deal of consideration. In this issue, we're highlighting some of our resources that tackle these wide-ranging subjects and we're celebrating the accomplishments of those looking to deepen other's understanding of them.

Happy 10th 
Birthday, i2Insights!



CONGRATULATIONS | Blog, Started at SESYNC, Turns 10!

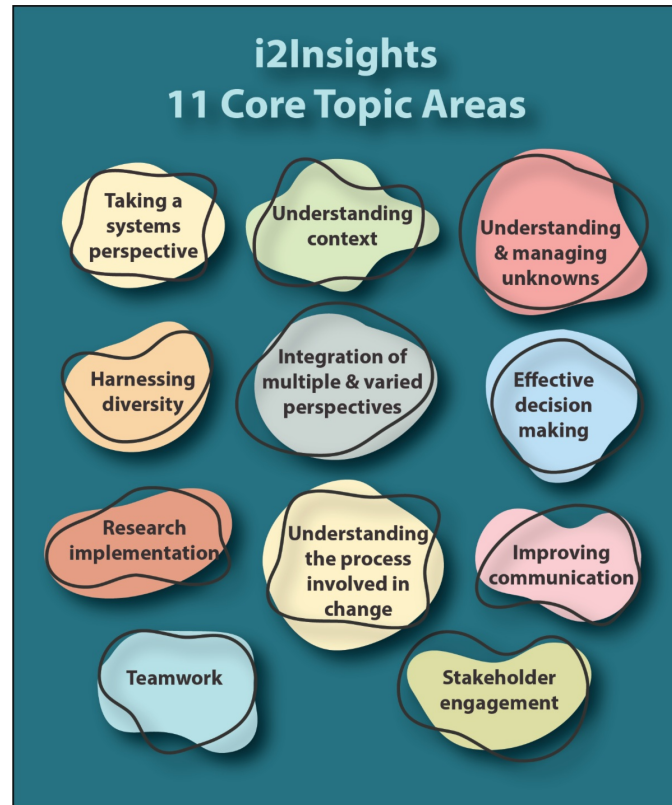
Blog on Complex, Actionable Team Science—Started at SESYNC—Celebrates Its 10th Birthday

A popular blog that emerged from the cross-collaboration of three SESYNC synthesis

projects will soon celebrate its 10th year of publication. Created in 2015, the Integration and Implementation Insights (**i2Insights**) blog/toolkit started as a way for SESYNC researchers to share resources they developed while completing projects focused on actionable team science. The three projects—**Co-creative capacity**, **Core modeling practices**, and **Participatory socio-environmental modeling**—fell under SESYNC's broader project theme, Building resources for complex, action-oriented team science.

In the decade since, i2Insights has evolved into a platform with nearly 600 resources. These materials aim to share various methods, frameworks, processes, concepts, theories, and competencies that can aid researchers in tackling complex-socio-environmental issues. In fact, i2Insights covers a range of topic areas related to team science and actionable research, including integration of multiple and varied perspectives, research implementation, stakeholder engagement, and more.

The blog has benefitted from the contributions of 750 scholars, representing 61 different countries—including several researchers from SESYNC. [Read more.](#)



Have a similar SESYNC success story that you'd like to share with the wider SESYNC community? Let us know! Email us at communications@sesync.org.

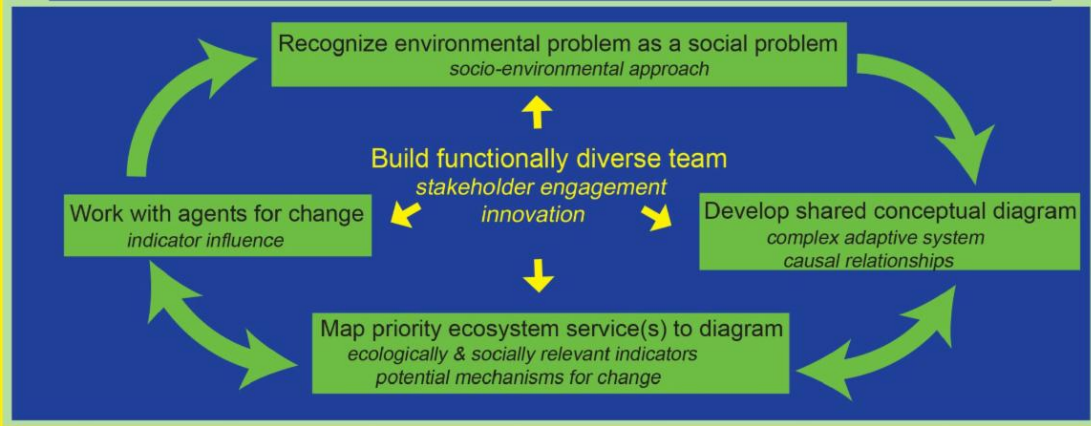
FROM THE EXPERTS | Four Steps for Actionable Research

A Stepwise Process for Actionable Environmental Science Research

In [this recent article](#), SESYNC leaders Margaret A. Palmer and James Boyd lay out a four-step process for conducting actionable research. Drawing upon 12+ years of experience working with teams at SESYNC, they explain that the actionable research cycle is a full-circle process that begins with accepting that environmental problems are social problems. At each step, the authors identify useful tools and methodologies to help researchers successfully complete each one. Learn more about the process [here](#).

Cycle for Actionable Research to Solve Environmental Problems

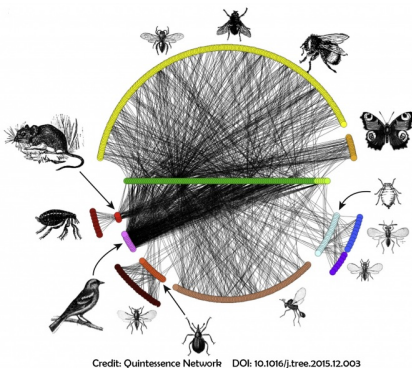
employ tools and activities to facilitate each



RESOURCES | Actionable Research & Complex Systems

Building the Basics Part 1: Socio-Environmental Systems as Complex Adaptive Systems

In the first video of this three-part series, Dr. Margaret Palmer introduces the fundamental characteristics of socio-environmental systems as complex adaptive systems. This video lays the groundwork for understanding the essential features of non-linear dynamical systems that must be captured in models. [Learn more.](#)



Credit: Quintessence Networks DOI: 10.1016/j.tree.2015.12.003

Network Methods to Understand Complex Systems Lesson, Part 1: Ecological Networks

Network diagrams and the science of network analysis are very useful tools for understanding complex systems and how they function. In this lesson, ecological systems are used to introduce basic network concepts. [Learn more.](#)

Actionable Research Lesson

This introductory lesson defines actionable science and relates it to concepts like basic research, applied science, and advocacy science. It then goes on to illustrate the ways in which actionable, solutions-oriented research typically requires cross-disciplinary collaborations and analysis of environmental and social systems. [Learn more.](#)



Introduction to Cascading Effects: Social, Ecological, and Socio-Environmental

The first in this three-part series of lessons



introduces learners to the concept of cascading effects and how different parts of social, ecological, and socio-environmental systems interact with one another. [Learn more.](#)

Synthesis Research and Team Science Process to Address Socio-Environmental Problems

This video introduces how interdisciplinary teams—comprising social and natural scientists, as well as stakeholders and practitioners—can synthesize together diverse types of data to study socio-environmental systems. It also presents concepts and approaches used to facilitate socio-environmental team science. [Learn more.](#)



NEW PUBLICATIONS | SESYNC in the Journals

"The Importance of Landscape Composition for Pest Control and Crop Yield: A Global Quantitative Synthesis." Published in *Ecology Letters* by Katja Poveda, Daniel S. Karp, Rebecca Chaplin-Kramer, Mary Centrella, Tim Luttermoser, Ricardo Perez-Alvarez, Megan E. O'Rourke, Emily A. Martin, and Heather Grab. This paper resulted from the project, [Decision-Support Tools for Pest Control](#).

"Understanding deforestation dynamics in Amazonian protected areas through land-use change models informed by conservation discourses." Published in *Biological Conservation* by Katherine J. Siegel, Megan Mills-Novoa, Eva Kinnebrew, José Ochoa-Brito, and Elizabeth Shoffner. This paper resulted from the project, [Agricultural Frontiers](#).

www.sesync.org



SESYNC | 1 Park Place Suite 300 | Annapolis, MD 21401 US

[Unsubscribe](#) | [Update Profile](#) | [Constant Contact Data Notice](#)



Try email marketing for free today!