



## SESYNC Feedbacks

News from the National Socio-Environmental Synthesis Center



### INTRO TO CASCADING EFFECTS | Newest Resource Collection

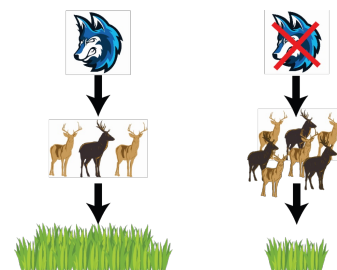
#### Resources for Understanding Cascading Effects in Social, Ecological, and Socio-Environmental Networks

SESYNC's latest series of resources explores cascading effects—when a change in one part of a socio-environmental network causes a change in the other parts that it's linked to, much like a chain reaction. Learn more about these resources below.

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

This brief explainer article introduces the concept of cascading effects, and the differences between those that occur in ecological, social, and socio-ecological networks.

[Read more.](#)



##### Lesson: Cascading Effects in Complex Systems, Part 1: Species Interactions

This first lesson focuses on ecological systems and how communities of species can experience cascading effects. After introducing learners to the concept of cascading effects, the lesson explores them using activities based on food webs and non-native species cascades. [Read more.](#)

##### Lesson: Cascading Effects in Complex

## Systems, Part 2: Social Behavior Cascades to Support the Environment

The second lesson focuses on social cascades. Here, learners investigate sectors ripe for cascades and then develop plans for enabling cascades that will lead to positive social changes. [Read more.](#)



## Cascading Effects in Complex Systems Lesson, Part 3: Socio-Environmental Cascades

This third lesson focuses on socio-environmental cascades, using climate change impacts that flow socio-economically and ecologically. Learners investigate the types of changes in governance that may better protect built infrastructure, humans, and economic systems. [Read more.](#)

### Related Content

[Explainer: Feedback Loops and Socio-Environmental Systems](#)

[Explainer: Resilience Theory and Socio-Environmental Systems](#)

[Lessons: Network Methods to Understand Complex Systems](#)

**WE WANT TO HEAR FROM YOU! | Share Your Experiences**



### Have You Used SESYNC's Resources? Let Us Know!

Have you used any of our SESYNC resources?

Yes

No

Comments? Suggestions?

**"Potential Energy and Environmental Footprint Savings from Reducing Food Loss and Waste in Europe: A Scenario-Based Multiregional Input–Output Analysis."**

Published in *Environmental Science & Technology* by former SESYNC postdoc Quentin Read and colleagues Albert Kwame Osei-Owusu, and Marianne Thomsen.

**"Are we promoting green cities in Latin America and the Caribbean? Exploring the patterns and drivers of change for urban vegetation."**

Published in *Land Use Policy* by Cynnamon Dobbs, Ana Alice Eleuterio, Alexis Vásquez, Mauricio Cifuentes-Ibarra, Demóstenes da Silva, Tahia Devisscher, Mariana Dias Baptista, Ángela Hernández-Moreno, Elvia Meléndez-Ackerman, and Nuria Monica Navarro. This paper resulted from the Pursuit, [Urban Nature Latin America](#).

**"Using high-resolution land cover data to assess structure loss in the 2018 Woolsey Fire in Southern California."**

Published in *Journal of Environmental Management* by SESYNC postdoc Dexter H. Locke and colleagues Miranda H. Mockrin, Alexandra D. Syphard, and Jarlath O'Neil-Dunne.

**"Reconciling contrasting effects of nitrogen on host immunity and pathogen transmission using stoichiometric models."**

Published in *Ecological Society of America* by Dedmer B. Van de Waal, former SESYNC postdoc Lauren A. White, Rebecca Everett, Lale Asik, Elizabeth T. Borer, Thijs Frenken, Angélica L. González, Rachel Pasek, Eric W. Seabloom, Alexander T. Strauss, and Angela Peace. This paper resulted from the Pursuit, [Disease, Ecosystem Processes, and Humans](#).

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