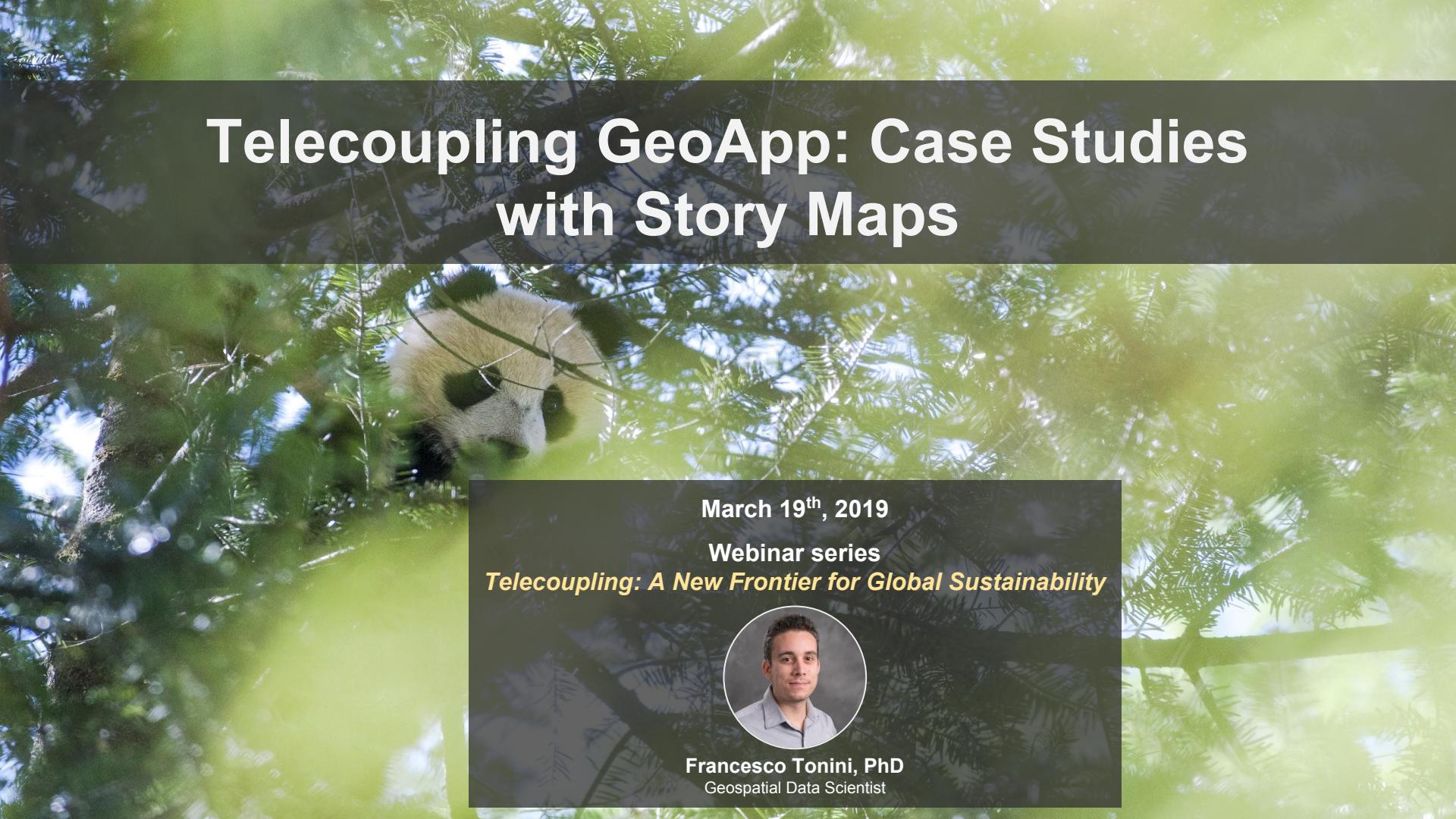


Telecoupling GeoApp: Case Studies with Story Maps



March 19th, 2019
Webinar series
Telecoupling: A New Frontier for Global Sustainability



Francesco Tonini, PhD
Geospatial Data Scientist

Telecoupling: A New Frontier for Global Sustainability

- February 19th, 2019: Telecoupling 101: Concepts, Terminology, and Published Case Studies
- February 26th, 2019: Telecoupling Toolbox: Integrated Tools for Sustainability Science
- March 12th, 2019: Telecoupling GeoApp: Cloud-based Platform Overview and Widgets
- **March 19th, 2019: Telecoupling GeoApp: Case Studies with Story Maps**

WEBINAR RECORDINGS AND SLIDES AVAILABLE @

<https://telecouplingtoolbox.org/webinar>



POLL

Online Presence

- <http://csis.msu.edu/telecoupling>
- <https://telecouplingtoolbox.org/>

The screenshot shows the Michigan State University Center for Systems Integration and Sustainability website. The top navigation bar includes links for Home, About Us, People, News, Events, Research, Education, and Service. Below the navigation is a breadcrumb trail: Home > Telecoupling. The main content area features a heading "Telecoupling: Understanding how small -- and connected -- the world is" and three images: a cityscape, a hand holding a globe, and a group of people in a field. A sidebar on the right contains a MSU Center... profile picture, a search bar, and a filter section for search terms like Event, Profile, Project, and Publication.

The screenshot shows the Telecoupling Toolbox website. The header features a globe icon and navigation links for HOME, CODE, COMPONENTS, CASE STUDIES, and COMMUNITY. The COMMUNITY menu is highlighted with a red box and an arrow points from it to the "OPEN COMMUNITY FORUM" text below. The main content area displays a large image of a rural landscape with fields and buildings, and a central banner with the text "Telecoupling Toolbox" and a subtitle: "A suite of geospatial software tools and apps for socioeconomic and environmental analysis of coupled human-natural systems (CHANS) from local to global scales".

**OPEN
COMMUNITY
FORUM**

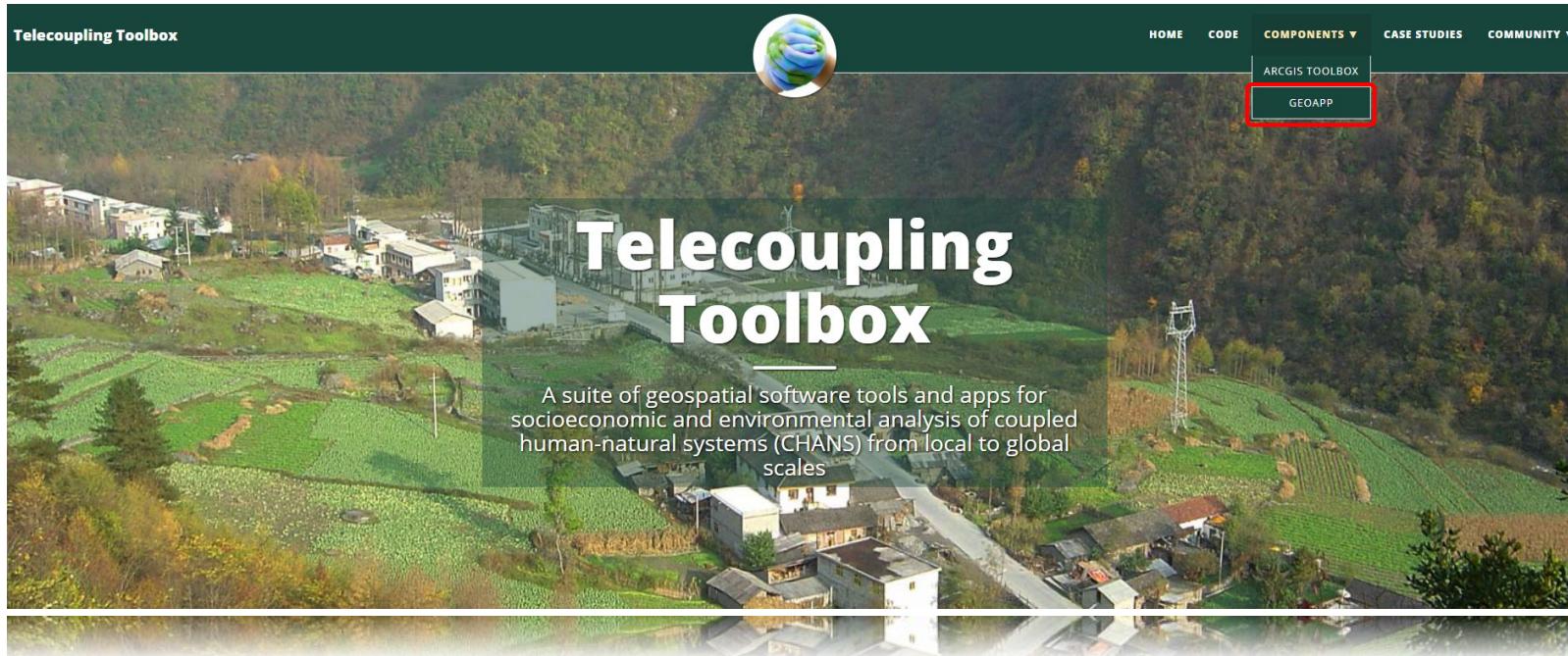
Telecoupling Toolbox - Open Access

Code is publicly shared and freely available on Github
(<https://github.com/MSU-CSIS/telecoupling-toolbox>)



Telecoupling GeoApp - Main reference

<https://telecouplingtoolbox.org/>



Telecoupling GeoApp - Case Studies

<https://telecouplingtoolbox.org/case-studies>



Case Studies

Example Applications of Telecoupling Analysis using the
GeoApp



The Brazil-China Soybean Trade

Environmental and
socioeconomic impacts of
global soybean trade
between China and Brazil
within the Mato Grosso
region

[More Info](#)



International Tourism at the Intergovernmental

LIVE DEMO

Thank you!

Q&A

<https://www.surveymonkey.com/r/YCZLFLH>

Francesco Tonini, PhD
Geospatial Data Scientist



 @f_tonini

 FrancescoTonini.com

 f-tonini (github)

Reference Publications

- McCord, P., Tonini, F., and Liu, J. (2018). Making strides in sustainable development with the Telecoupling GeoApp. *Science Trends*, September 6, 2018.<https://sciencetrends.com/making-strides-in-sustainable-development-with-the-telecoupling-geoapp/>
- McCord, P., Tonini, F., and Liu, J. (2018). The Telecoupling GeoApp: A Web-GIS Application to Systematically Analyze Telecouplings and Sustainable Development. *Applied Geography*, 96, pp. 16-28. <https://doi.org/10.1016/j.apgeog.2018.05.001>
- Tonini, F., and Liu, J. (2017). Telecoupling Toolbox: Spatially explicit tools for studying telecoupled human and natural systems. *Ecology and Society*, 22 (4), pp. Art11. <https://doi.org/10.5751/ES-09696-220411>