**GEO Learning Conference Post-Conference Workshop:**

**System Mapping Made Simple(r)**

**Resources**

**Additional Resources**

Aronson, D. Targeted Innovation: Using Systems Thinking to Increase the Benefits of Innovative Efforts.

Burns, Danny. System Action Research: A Strategy for Whole System Change. University of Chicago Press, 2007.

Cilliers, Paul. “What Can We Learn from a Theory of Complexity?” *Emergence* Vol. 2 No 1, 2000.

Eoyang, Glenda and Royce Holladay. Adaptive Action: Leveraging Uncertainty in Your Organization. Stanford University Press, 2013.

Goodman, Michael. “Systems Thinking: What, Why, When, Where and How?” *Pegasus Communications Systems Thinker* Vol. 8 No. 2, March 1997.

Holman, Peggy. Engaging Emergence: Turning Upheaval into Opportunity. Berrett-Koehler Publishers, San Francisco, 2010.

Holman, Peggy, Tom Devane, and Steven Cady. The Change Handbook: The Definitive Resource on Today's Best Methods for Engaging Whole Systems. Berrett-Koehler Publishers, San Francisco, 2007.

Kanter, Beth. “The Intersection of Systems and Network Leadership.” 06 Feb 2015. <http://www.bethkanter.org/systems-networks/>

Kumu. “How Do You Kumu? With Rob Ricigliano” Feb 13 2015. <http://blog.kumu.io/how-do-you-kumu-with-rob-ricigliano-part-1/>

Leverage Networks: “Your Hub for All Things Systems” <https://www.leveragenetworks.com/>
*Membership website includes free case studies, tools, contacts for systems thinking consultants and other resources*

Meadows, Donella. Thinking in Systems. Chelsea Green Publishers: Hartford, VT, 2008.

Ricigliano, Rob. Making Peace Last: A Toolkit For Sustainable Peace-building. Paradigm Publishers: Boulder CO, 2012.

Senge, Peter, The Fifth Discipline: The Art & Practice of The Learning Organization, and The Fifth Discipline Field book: Strategies and Tools for Building a Learning Organization.
*Foundational Works of Systems Thinking*

Spann, Scott. “Mapping Systems: Using Reality as Change Agent to Grow Social Impact.” Innate Strategies. Webinar: <https://www.youtube.com/watch?v=rDxOyJxgJeA>

Spann, Scott and James Ritchie-Dunham. “The Promise of Systems Thinking for Shifting Fundamental Dynamics.” *Pegasus Communications Systems Thinker* Vol. 19 No. 7, September 2008. <http://innatestrategies.com/docs/SystemsThinker.pdf>

Stroh, David Peter. “Leveraging Grant-making: Understanding the Dynamics of Complex Social Systems” *The Foundation Review*. Vol. 1, No. 3 2009.

Waters Foundation. “Systems Thinking in Schools” <http://watersfoundation.org/systems-thinking/overview/>

Williams, Bob and Richard Hummelbrunner. Systems Concepts in Action: A Practitioners Toolkit. Stanford University Press, 2010.

**Case Studies**

Stroh, David Peter and Michael Goodman. [“A Systemic Approach to Ending Homelessness.”](http://www.appliedsystemsthinking.com/supporting_documents/TopicalHomelessness.pdf)*Applied Systems Thinking Journal*Topical Issues, Article 4 (2007).
*This article provides a case study of how Systems Thinking was applied by the authors with a community brought together by the Battle Creek Homeless Coalition to address the chronic homelessness in surrounding Calhoun County, Through this collaboration involving broad multi-sector representation, the community designed an initiative that is leading to change for lasting social impact*

 [“Can We SEE Progress on Global Warming?”](http://www.davidsibbet.com/david_sibbet/2008/12/can-we-see-progress-on-global-warming.html)
*A focus on the Garfield Foundation RE-AMP mapping process.*

[“Dynamic Models Helps Raise $4Billion Towards Global Polio Eradication”](https://www.leveragenetworks.com/success-stories/dynamic-modeling-helps-raise-4-billion-towards-global-polio-eradication)*The Bill and Melinda Gates Foundation and other partners of global poliovirus eradication efforts recently raised $4 billion supported by the use of models that include System Dynamics tools.*

[“$2Billion Reduction in U.S. Healthcare Costs Identified in Mayo Clinic Biomedical System Dynamics Study”](https://www.leveragenetworks.com/success-stories/2-billion-reduction-us-healthcare-costs-identified-mayo-clinic-biomedical-system)*A systemic, long-view approach to End Stage Renal Disease treatment increases patients’ well-being while decreasing drug costs by $2 million per year at Mayo Clinic in Rochester, MN.*

Spann, Scott. “[Hawaii Early Learning: Strategic Systems Mapping Process](http://collaborativeleadersnetwork.org/example/building-shared-understanding-through-system-mapping/).”

*As part of efforts to improve the quality of outcomes for Hawaii’s youngest children, Scott Spann was contracted to lead a system mapping process to build shared understanding among the stakeholders, enabling them to agree upon common priorities. These priorities shaped a statewide strategy for early childhood over the next 3–5 years. In these videos…Scott walks through the process undertaken to lead the group through the system mapping effort.*

[Innovation Network. System Mapping: A Case Example: CARE International](http://www.innonet.org/client_docs/File/advocacy/CARE_systems_map.pdf)

*An example of system mapping used within a single organizational structure for planning and strategy.*

**Foundations Using Systems Mapping**

William and Flora Hewlett Foundation – [Madison Initiative](https://www.kumu.io/hewlettfoundation/hewlett-foundation-madison-initiative)

Knight Foundation – [Trends in Civic Tech](http://www.knightfoundation.org/publications/emergence-of-civic-tech)

Sobrato Family Foundation – [Education Program](http://www.sobrato.com/sobrato-philanthropies/sobrato-family-foundation/overview/)

Democracy Fund

Hawaii Quality of Life – Systems Maps

**Videos**

[Systems Thinking: A Group Demonstration](https://www.youtube.com/watch?v=hE9XdaI56qw) – Colin Dunn

[Complexity Science Intro Series](https://www.youtube.com/watch?v=fREBFcxVENs&list=PLsJWgOB5mIMDRt8-DBLLVfh-XeKs2YAcg) – Complexity Learning Lab

[Peter Senge: Introduction to Systems Thinking](https://www.youtube.com/watch?v=eXdzKBWDraM) – Kristina Wile

**Systems Thinking Consultants**

Karen Grattan[, Engaging Inquiry](http://engaginginquiry.com/)

Roberto Cremonini, [GivingData](http://www.givingdata.com/)

R. Scott Spann, [Innate Strategies](http://innatestrategies.com/)

Chris Soderquist, [Pontiflex Consulting](http://www.pontifexconsulting.com/)

Jeff Clanon and Heidi Sparkes Guber, [Systems Perspectives Llc.](http://www.systemsperspectivesllc.com/)

[Innovation Network](http://www.innonet.org/)

[Harder and Company](http://harderco.com/)

Dennis Sherwood, [Silver Bullet Machine](http://www.silverbulletmachine.com/) (UK)

**Systems Mapping Visualization Platforms/Softwares**

[Social Network Analysis Tools Resource Sheet](http://docs.geofunders.org/?filename=SNAresources_cremonini.pptx) – Roberto Cremonini

[Kumu](Kumu.io)

[Forio](http://forio.com/)

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