

WELCOME

Welcome to the July/August I2S News, where we highlight new additions to the resources on the I2S website (<http://i2s.anu.edu.au>), as well as the latest blog posts published on the Integration and Implementation Insights blog (<http://I2Insights.org>). We are running a little late for this edition. As always, we welcome contributions and feedback.

Gabriele Bammer and Peter Deane

CONTENTS

Featured Tools

- Stakeholder participation: Arnstein's ladder
- Design methods: Design Exchange repository

Featured Video

- Systems thinking: Oxfam's introductory materials

Latest I2Insights Blog Posts

- There have been 26 new contributions since the last I2S News

Featured Journal and Journal News

- Science Communication
- GAIA journal 'Toolkits for Transdisciplinarity' #3 and #4

Featured Association

- International Initiative for Impact Evaluation (3ie)

Featured Conference

- 24th National Conference of the Australian Operations Research Society
- Other Upcoming Conferences

About I2S News

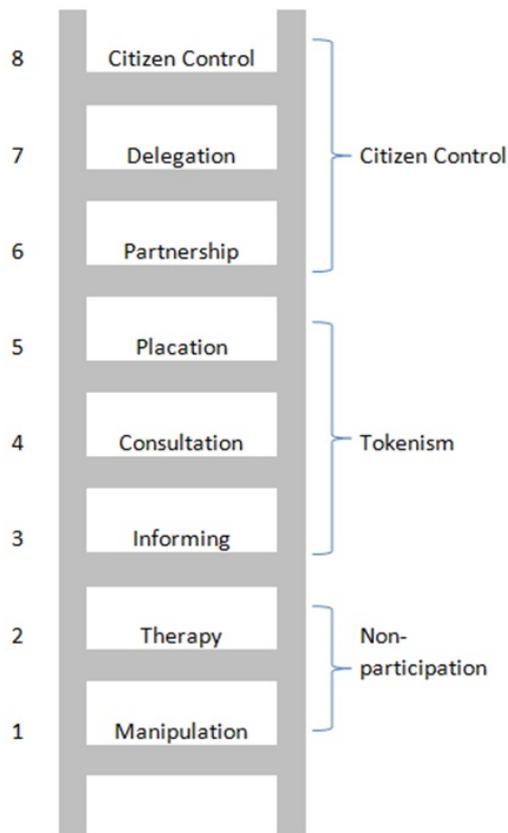
- Aims and how to contribute, subscribe and un-subscribe

FEATURED TOOLS

Stakeholder participation: Arnstein's ladder

Stakeholder and citizen participation in research and other processes can vary from tokenistic to genuine engagement. An eight-step ladder of participation, developed by Sherry Arnstein in 1969, provides a useful description of different kinds of engagement, especially how much power stakeholders have in determining the final product.

The two bottom rungs are manipulation and therapy. Manipulation refers to putting stakeholders on "rubberstamp advisory committees or advisory boards" to educate them or engineer their support. Therapy involves changing the stakeholder view of the problem.



Informing, consultation and placation are weak forms of participation, and may be tokenistic, especially if genuine participation is promised. Although informing and consultation (which often occurs through surveys, meetings and hearings) are first steps in genuine participation, they do not constitute this on their own. At a minimum, there needs to be assurance that concerns and views expressed will be taken into account. Placation involves working with "a few handpicked 'worthy'" stakeholders, who are not accountable to the broader stakeholder group. They have neither the numbers nor the legitimacy to actually wield influence.

Partnership, delegated power and citizen (or stakeholder) control constitute genuine participation, involving power sharing and joint decision making. Partnership involves shared planning and decision-making responsibilities through agreed structures and ground rules that are not subject to unilateral change. Delegated power occurs where stakeholders have dominant decision-making authority and can ensure that the research is accountable to them. Citizen or stakeholder control exists when they initiate and oversee the research. In all three cases stakeholders

would generally be involved in research design, data collection and interpretation.

Arnstein designed the ladder to be provocative and was particularly interested in describing how 'have-not' citizen groups were exploited in government decision-making processes. As described above, the ideas can readily be transposed into the research context to describe how researchers engage with stakeholders.

- Reference: Arnstein, S. R. (1969). A Ladder of Citizen Participation. *Journal of the American Planning Association*, **35**, 4: 216-224.

Design methods: Design Exchange repository

The Design Exchange is a website "where designers and researchers share methods and best practices".

Method categories are:

- *Build*, including activity modelling, dark horse, storyboarding and various kinds of prototyping
- *Analyze*, including pictorial storytelling, social network analysis, context map and powers of ten
- *Ideate*, including dot voting, spectrum mapping, 6-3-5 brainwriting and participatory co-design
- *Research*, including Delphi survey, POSTA (Person, Objects, Situations, Time and Activity framework) and virtual ethnography
- *Communicate*, including bifocal display, video diaries, blogs and Twitter.

The website also features a range of case studies.

The Design Exchange is a product of the BEST Lab at the University of California, Berkeley.

- **Website:** <https://www.thedesignexchange.org/>

Additional tools can be found at: <http://i2s.anu.edu.au/resources/tools>

FEATURED VIDEO

Systems thinking: Oxfam's introductory materials

This introduction to systems thinking starts with the old adage "teach a man to fish and you feed him forever" and demonstrates why this may fail. It shows how the simple act of fishing is embedded in a complex web of stakeholders and issues, including climate change, pollution, overfishing, lack of access to income, irrigation and more. Ideas for intervening are also presented, such as starting at a small scale, learning from failure and working with stakeholders. There is a strong focus on expanding "business-as-usual" techniques, such as log-frames, to including cycles of action and reflection, in order to promote a more adaptive approach.

The ideas are presented in both a video and a report. Although the target audience is Oxfam's own staff and other development practitioners, the resources are more widely useful. The report contains case studies and questions, as well as useful tools and links to resources on systems thinking.

This video "Systems Thinking" by Oxfam Great Britain, was a video presentation created as an introduction to systems thinking for Oxfam staff, uploaded in 2015. Watch on YouTube at: <https://youtu.be/WfyWgp95kgA>.

LATEST I2INSIGHTS BLOG POSTS

The [I2Insights blog](#) has recently featured posts on:

1. **Integration, part 1: The "what"** by *Julie Thompson Klein* <https://i2insights.org/2016/08/30/what-is-integration/>
2. **Making predictions under uncertainty** by *Joseph Guillaume* <http://i2insights.org/2016/08/25/predictions-under-uncertainty/>
3. **Why are interdisciplinary research proposals less likely to be funded? (Reblog)** by *Gabriele Bammer* <http://i2insights.org/2016/08/23/interdisciplinary-research-funding/>
4. **Advice to graduate students on becoming "translational"** by *Alexis Erwin* <http://i2insights.org/2016/08/18/becoming-translational/>
5. **Two frameworks for scoping** by *Gabriele Bammer* <http://i2insights.org/2016/08/16/scoping/>

-
6. **Social science identities in interdisciplinary research and education** *by Eric Toman* <http://i2insights.org/2016/08/11/social-science-and-interdisciplinarity/>
 7. **A process model for teaching interdisciplinary research** *by Machiel Keestra* <http://i2insights.org/2016/08/09/teaching-interdisciplinarity/>
 8. **Creativity in co-creation** *by Annette Boaz* <http://i2insights.org/2016/08/04/creativity-in-co-creation/>
 9. **In praise of multidisciplinary** *by Gabriele Bammer* <http://i2insights.org/2016/08/02/in-praise-of-multidisciplinarity/>
 10. **Is co-creation more than participation?** *by Katrin Prager* <http://i2insights.org/2016/07/28/co-creation-or-participation/>
 11. **Training translational ecologists: Moving from accidental to intentional** *by Mark Brunson* <http://i2insights.org/2016/07/26/training-translational-ecologists/>
 12. **Art and participatory modelling** *by Eleanor Sterling* <http://i2insights.org/2016/07/21/art-and-participatory-modelling/>
 13. **Ten communication tips for translational scientists** *by Sunshine Menezes* <http://i2insights.org/2016/07/19/ten-communication-tips/>
 14. **The interplay between knowledge and power / La interacción entre el conocimiento y el poder** *by Cristina Zurbriggen* <http://i2insights.org/2016/07/14/interplay-of-knowledge-and-power/>
 15. **From fountain to firehose** *by David Feldon* <http://i2insights.org/2016/07/12/from-fountain-to-firehose/>
 16. **Co-creation without systems thinking can be dangerous** *by Gerald Midgley* <http://i2insights.org/2016/07/07/co-creation-and-systems-thinking/>
 17. **What makes a translational ecologist? Part 3: Dispositional attributes** *by Translational Ecology Group* <http://i2insights.org/2016/07/04/dispositional-attributes-for-translational-ecology/>
 18. **Reblogged: Leverage Points for Sustainability Transformation** <http://i2insights.org/2016/07/03/leverage-points-for-sustainability-transformation/>
 19. **Co-Production: It's all about relationships** *by Kirsten Kainz* <http://i2insights.org/2016/06/30/co-production-and-relationships/>
 20. **What makes a translational ecologist? Part 2: Skills** *by Translational Ecology Group* <http://i2insights.org/2016/06/28/skills-for-translational-ecology/>
 21. **Tool users old and new: Why we need models** *by Suzanne Pierce* <http://i2insights.org/2016/06/23/why-we-need-models/>

22. **What makes a translational ecologist? Part 1: Knowledge** by *Translational Ecology Group* <http://i2insights.org/2016/06/21/knowledge-for-translational-ecology/>
23. **Models as narratives** by *Alison Singer* <http://i2insights.org/2016/06/16/models-as-narratives/>
24. **What is translational ecology?** by *Translational Ecology Group* <http://i2insights.org/2016/06/14/what-is-translational-ecology/>
25. **Serious gaming: Helping stakeholders address community problems** by *Nagesh Kolagani* <http://i2insights.org/2016/06/09/serious-gaming/>
26. **Playing Around with PARTICIPOLOGY** by *Alister Scott* <http://i2insights.org/2016/06/07/participology/>

FEATURED JOURNAL AND JOURNAL NEWS

Science Communication

Science Communication "examines the nature of expertise, the diffusion of knowledge, and the communication of science and technology among professionals and to the public." It covers topics such as "health care policy, educational reform, international development, and environmental risk."

The intersection with I2S comes in the areas of knowledge diffusion and research communication. Relevant papers in 2015 and 2016 covered: researcher use of newspaper op eds, along with a range of case studies including public engagement by researchers, communicating sensitive issues, and bridging the research practice gap.

- Website: <http://scx.sagepub.com/>

GAIA column on 'Toolkits for Transdisciplinarity'

The journal GAIA has recently published:

Bammer, G. (2016). Toolkits for transdisciplinarity - Toolkit #3: Dialogue methods for knowledge synthesis. *GAIA* 25, 1: 7. Online: <http://dx.doi.org/10.14512/gaia.25.1.3>

Bammer, G. (2016). Toolkits for transdisciplinarity - Toolkit #4: Collaborations. *GAIA*, 25, 2: 77. Online: <http://dx.doi.org/10.14512/gaia.25.2.2>

Additional journals can be found at: <http://i2s.anu.edu.au/resources/journals>

FEATURED ASSOCIATION

International Initiative for Impact Evaluation (3ie)

3ie is an international non-government organisation "promoting evidence-informed development policies and programmes". It funds and produces "high-quality evidence of what works, how, why and at what cost in international development." It aims to 1) "Generate new evidence of what

works", 2) "Synthesise and disseminate this evidence", 3) "Build a culture of evidence-based policy-making" and 4) "Develop capacity to produce and use impact evaluations".

Although most of the work produced and funded by 3ie focuses on addressing specific problems, some publications in the 3ie working paper and scoping paper series intersect with I2S interests in producing generally-applicable information about how research can support policy and practice change.

3ie is not a traditional membership organisation. Members are large institutions which implement development programs. There is no individual membership, but individuals can apply to be included in an expert register.

It was founded in 2008.

- Website: <http://www.3ieimpact.org/en/>

Additional professional associations and networks can be found at:

http://i2s.anu.edu.au/resources/associations_networks

FEATURED CONFERENCE

24th National Conference of the Australian Operations Research Society: From Trusted Data to Trusted Decisions

The conference "From trusted data to trusted decisions" features work on optimisation and related disciplines of Operations Research (OR), including

- OR techniques such as game theory, decision analysis, project management, and soft systems methods
- OR applications in autonomous systems, government, and risk analysis.

The conference will be held in Canberra, Australia on 16-18 November 2016.

- For further details please see: <http://www.asor-act.net/ASORConf/>

Other Upcoming Conferences

Conferences which have not been listed in previous newsletters are marked [NEW].

Interdisciplinarity, Transdisciplinarity and Action Research Methods

- 27-30 October 2016, 38th Association for Interdisciplinary Studies (AIS) Conference, Ottawa, Canada (<http://wwwp.oakland.edu/ais/conferences/annualconference/>)
- 7-9 November 2016, Learning for Change and Innovation World Congress (incorporating the Action Learning, Action Research Association (ALARA) Australasian Conference; and the, Global Centre for Work-Applied Learning (GCWAL) Annual Conference), Adelaide, Australia (<http://www.gcwal.com.au/2016congress/>)
- 11-13 November 2016, Collaborative Action Research Network (CARN) Conference: Integrating the Personal and Political in Professional Practice, Lincoln, United Kingdom (<https://sites.bishopg.ac.uk/carnconference/>)

Systems, Modelling and Simulation

- 6-8 September 2016, Operational Research (OR) 58 Annual Conference, Portsmouth, United Kingdom (<http://www.theorsociety.com/Pages/Conferences/OR58/OR58.aspx>)
- 7-9 September 2016, XIX International Conference on Systems Science, Wroclaw, Poland (<http://www.icss.pwr.wroc.pl/>)
- 19-23 September 2016, European Conference on Complex Systems (CCS'16), Amsterdam, The Netherlands (<http://www.ccs2016.org/>)
- 19-23 September 2016, Social Simulation Conference 2016, Rome, Italy (<http://ssc2016.cnr.it/>)
- 13-15 October 2016, Relating Systems Thinking and Design (RSD5) Symposium: Systemic Design for Social Complexity, Toronto, Canada (<http://systemic-design.net/>)
- [NEW] 16-18 November 2016, 24th National Conference of the Australian Society for Operations Research: From Trusted Data to Trusted Decisions, Canberra, Australia (<http://www.asor-act.net/ASORConf/>)
- 11-14 December 2016, Winter Simulation Conference: Simulating Complex Service Systems, Washington D.C., United States of America (<http://meetings2.informs.org/wordpress/wintersim2016/>)
- 13-14 December 2016, 7th French Conference on Complex Systems Design & Management (CSD&M), Paris, France (<http://www.2016.csdm.fr/>)
- 4-7 January 2017, 50th Hawaii International Conference on System Sciences (HICSS 50), Waikoloa, Hawai'i, United States of America (<http://www.hicss.org/>)
- 5-6 January 2017, World Complexity Science Academy VII Conference: Governing Turbulence: Risk and Opportunities in the Complexity Age, Rio de Janeiro, Brazil (<http://www.wcsaglobal.org/call-for-7th-conference/>)
- 20-23 January 2017, 8th International Conference on Computer Modelling and Simulation, Canberra, Australia (<http://www.iccms.org/>)
- [NEW] 23-26 April 2017, Symposium on Theory of Modeling and Simulation, Virginia Beach, Virginia, United States of America (<http://tms-devs.org/>)

Team Science and Project Management

- 25-27 September 2016, Project Management Institute (PMI) Global Congress 2016 - North America, San Diego, California, United States of America (<http://congresses.pmi.org/NorthAmerica2016/>)

Uncertainty, Risk and Decision Making

- 21-23 September 2016, 10th International Conference on Scalable Uncertainty Management (SUM 2016), Nice, France (<http://sum2016.unice.fr/>)
- 27-29 October 2016, European Sociological Association's (ESA) Risk and Uncertainty Research Network 22 - Mid-term Conference: Risk and Uncertainty in a Comparative Context, Aydin, Turkey (<http://www.europeansociology.org/research-networks/rn22-sociology-of-risk-and-uncertainty.html>)
- 30 November - 2 December 2016, 5th International Symposium on Integrated Uncertainty in Knowledge Modelling and Decision Making (IUKM), Da Nang, Vietnam (<http://www.jaist.ac.jp/IUKM/IUKM2016/>)
- 11-15 December 2016, Society for Risk Analysis (SRA) Annual Meeting, San Diego, California, United States of America (<http://www.sra.org/events/sra-2016-annual-meeting>)

Bridging the Gap from Research to Policy and Practice

- 5-6 October 2016, 3rd Biennial Australian Implementation Conference, Melbourne, Australia (<http://www.ausimplementationconference.net.au/>)

- [NEW] 27-29 October 2016, Annual Institute of the Society of Policy Scientists: Diffusion of Ideas: Linking Lasswell to the Future, Claremont, California, United States of America (<http://policysciences.org/institute.php>)
- [NEW] 14-15 December 2016, 9th Annual Conference on the Science of Dissemination and Implementation: Mapping the Complexity and Dynamism of the Field, Washington D.C., United States of America (<http://diconference.academyhealth.org/home?navItemNumber=13668>)
- 20-21 June 2017, Global Implementation Conference: Expanding Implementation Perspectives - Engaging Systems, Toronto, Canada (<http://gic.globalimplementation.org/>)

Other (including Sustainability Science)

- 19-20 September 2016, Mistra Urban Futures: Realising Just Cities - Co-Production in Action, Gothenburg, Sweden (<http://www.mistraurbanfutures.org/en/annual-conference/realising-just-cities-introduction>)
- 12-15 October 2016, XXI International Conference of the Society for Human Ecology: Shaping a Liveable Future: Research – Education – Policy, Santa Ana, California, United States of America (<http://societyforhumanecology.org/call-for-participation/>)
- 6-9 December 2016, 30th Australian and New Zealand Academy of Management (ANZAM) Conference: Under New Management - Innovating for Sustainable and Just Futures, Brisbane, Australia (<http://anzam2016.com/>)
- [NEW] 27 November - 1 December 2017, XXII International Conference of the Society for Human Ecology: Envisioning pathways to just and sustainable futures - Celebrating diversity, pursuing integration, and developing livable communities, Los Baños, Philippines (<http://societyforhumanecology.org/>)

ABOUT I2S NEWS

The aim of this newsletter is to provide regular (bi-monthly) updates about new resources added to the Integration and Implementation Sciences website (<http://i2s.anu.edu.au/resources>). These resources are useful for researchers interested in Integration and Implementation Sciences (I2S), which underpins the investigation and tackling of complex real world problems, by:

- Synthesizing knowledge from different disciplines and stakeholders,
- Understanding and managing diverse unknowns, and
- Providing integrated research support for policy and practice change.

In general, each issue features tools (concepts and methods), case studies and/or approaches relevant to I2S - either a useful compilation or one or more examples of note. We also provide information about journals, professional associations & networks, professional development courses and conferences where researchers can learn from others, report their findings and interact with like-minded peers. The newsletter also reports on discussions in the LinkedIn group "Global Network for Research Integration and Implementation": <http://www.linkedin.com/groups/Global-Network-Research-Integration-Implementation-4888295> and new entries on the Integration and Implementation Insights blog: <http://I2Insights.org>.

I2S News is archived at: <http://i2s.anu.edu.au/what-i2s/i2s-publications/i2s-news>.

Useful links:

- I2S website: <http://i2s.anu.edu.au>
- I2S on YouTube: <https://www.youtube.com/user/i2sTalks>
- LinkedIn group "Global Network for Research Integration and Implementation": <http://www.linkedin.com/groups/Global-Network-Research-Integration-Implementation-4888295>
- I2Insights blog: <http://I2Insights.org>

I2S News

July/August 2016, #31



To subscribe or unsubscribe to the newsletter go to "I2S News" at <http://i2s.anu.edu.au> or contact Peter Deane at peter.deane@anu.edu.au. To contribute material please contact Peter Deane at peter.deane@anu.edu.au.