

WELCOME

Welcome to the September/October i2S News. As always, the News highlights new research integration and implementation resources - one or more tools, journals, professional associations and conferences. Not all individual resources will be of interest to everyone, but as the collection becomes increasingly comprehensive, we hope you can find tools that you can use, journals that might provide a publication outlet for your work and professional associations and conferences that will help you connect with like-minded colleagues.

The website now lists 86 tools, 67 journals, 50 professional associations and networks, plus 69 conferences.

The website also has a new home page - check it out at <http://i2s.anu.edu.au>. For most of this year we've been working with the Canberra company *Link Digital* to move our website to a new platform. Apart from the home page, you shouldn't see much difference, but the changes have made the website easier to maintain. If you have any feedback, we'd be pleased to hear from you.

Gabriele Bammer and Peter Deane

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FEATURED TOOL

Design thinking: 500+ tools and resources

This curated online directory, called *Public Design Vault*, aims to provide an “all-in-one, a full-stop one-stop, a mother list of lists, a singularity for the plethora of toolkits and resources that are available on the vast internet.” It aims to include “all the well-known usual suspects” as well as “a few diamonds in the rough.”

The tools and resources are provided in collections, including a “starter kits for newbies”. Fifteen collections show the general phases of a design project. They are:

1. Design brief
2. Scoping your project
3. Team building
4. Design research
5. Empathy
6. Synthesis/sensemaking
7. Reframing
8. Brainstorming
9. Ideation process
10. Prototyping
11. User testing
12. Iteration
13. Implementation
14. Measuring impact
15. Funding.

Additional collections cover specific topics or do not easily fall into a particular design phase. They include:

- Change management
- Co-creation
- Facilitation
- Foresight
- Leadership
- Project management
- Systems thinking
- Visual thinking.

Public Design Vault was developed in 2018 by indie maker Jason Leow.

- **Reference:**
 - Leow, J. (2018). *Public Design Vault: 500+ design tools for public good, all in one place*. Online: <https://publicdesignvault.com/>

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

LATEST i2INSIGHTS BLOG POSTS

The [i2Insights blog](#) has recently published the following posts:

Six strategies to ensure policies are backed by evidence

by Danielle Campbell and Gabriel Moore

<https://i2insights.org/2018/10/30/strategies-for-evidence-backed-policies/>

A flexible framework for stakeholder engagement

by Michelle Banfield

<https://i2insights.org/2018/10/23/stakeholder-engagement-flexible-framework/>

Four strategies for improving knowledge exchange among scientists and decision-makers

by Chris Cvitanovic

<https://i2insights.org/2018/10/16/knowledge-exchange-strategies/>

Conditions for co-creation

by Gabriele Bammer

<http://i2insights.org/2018/10/09/conditions-for-co-creation/>

Language matters in transdisciplinarity

by Tilo Weber

<http://i2insights.org/2018/10/02/language-matters/>

Twelve ways to kill research translation

by Lewis Atkinson

<https://i2insights.org/2018/09/25/killing-research-translation/>

You are biased!

by Matthew Welsh

<https://i2insights.org/2018/09/18/confirmation-bias/>

Ten steps to strengthen the environmental humanities

by Christoph Kueffer and Marcus Hall

<https://i2insights.org/2018/09/11/strengthening-environmental-humanities/>

Maximizing use of research evidence - how can funders help?

by Bev Holmes

<https://i2insights.org/2018/09/04/funders-and-research-implementation/>

Assessing research contribution claims: The "what else test"

by Jess Dart

<https://i2insights.org/2018/08/28/contribution-claims-what-else-test/>

Long-term collaboration: Beware blaming back and blaming forward

by Charles Lines

<https://i2insights.org/2018/08/21/blame-in-collaboration/>

Producing evaluation and communication strategies in tandem

by Ricardo Ramírez and Dal Brodhead

<https://i2insights.org/2018/08/14/evaluation-and-communication/>

Introducing interdisciplinary postgraduate degrees? Seven meta-considerations

by Dena Fam, Scott Kelly, Tania Leimbach, Lesley Hitchens and Michelle Callen

<https://i2insights.org/2018/08/07/institutionalising-interdisciplinary-postgraduate-degrees/>

A checklist for documenting knowledge synthesis

by Gabriele Bammer

<http://i2insights.org/2018/07/31/knowledge-synthesis-checklist/>

Collaboration and team science: Top ten take aways

by L. Michelle Bennett and Christophe Marchand

<https://i2insights.org/2018/07/24/ten-collaboration-tips/>

Institutionalising interdisciplinarity: Lessons from Latin America / Institucionalizar la interdisciplina: Lecciones desde América Latina

by Bianca Vienni Baptista, Federico Vasen and Juan Carlos Villa Soto

<https://i2insights.org/2018/07/17/institutionalising-interdisciplinarity-latin-america/>

Linking learning and research through transdisciplinary competences

by BinBin Pearce

<https://i2insights.org/2018/07/10/transdisciplinary-competences/>

Synthesis of knowledge about participatory modeling: How a group's perceptions changed over time

by Rebecca Jordan

<https://i2insights.org/2018/07/03/knowledge-synthesis-group-change/>

FEATURED JOURNAL AND JOURNAL NEWS

EURO Journal on Decision Processes

"The *EURO Journal on Decision Processes* (EJDP) promotes and publishes scientific knowledge on the theoretical, methodological, behavioural and organizational topics that contribute to the understanding and appropriate use of operational research in supporting different phases of decision making processes. Methodologically, EJDP covers both qualitative and quantitative approaches to the scoping, modelling and solution of decision problems.

The scope of EJDP is focussed on the connections between operational research and decision processes." Example areas of interest are to: "(i) present relevant advances in problem structuring, decision analysis and multi-criteria decision aiding, (ii) address questions of process design, model validity and communication in connection with techniques like data mining, forecasting, optimization, simulation, and performance measurement, (iii) provide reflective accounts of decision processes that exemplify uses of operational research in application domains such as energy, engineering, environment, finance, health care and operations management."

This is the journal of the *Association of European Operational Research Societies* (EURO).

- Website:
 - <https://link.springer.com/journal/40070>

GAIA column on 'Frameworks for Transdisciplinarity' Research #4 and #5

Cabrera, D. and Cabrera, L, (2018), Frameworks for Transdisciplinary Research: Framework #4 - Four building blocks of systems thinking. *GAIA*, **27**, 2: 200 [online] URL: <https://doi.org/10.14512/gaia.27.2.3>

Muhar, A. and Penker, M. (2018). Knowledge co-production: An analytical framework. Frameworks for Transdisciplinary Research #5. *GAIA*, **27**, 3: 272. Online (DOI): <https://doi.org/10.14512/gaia.27.3.3>

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

FEATURED NETWORK AND PROFESSIONAL ASSOCIATION

Complex Systems Society

The *Complex Systems Society* "aims to promote complex systems research [both] pure and applied..., assist and advise on problems of complex systems education, concern itself with the broader relations of complex systems to society, foster the interaction between complex systems scientists of different countries, establish a sense of identity amongst complexity scientists, and represent the complexity community at all international levels." It focuses on Europe, "as well as the whole international scientific community", and hosts an annual *Conference on Complex Systems* in different parts of the world.

The society was founded in 2004.

- **Website:**
 - <https://cssociety.org/>

Additional professional associations and networks can be found at: http://i2s.anu.edu.au/resources/associations_networks

FEATURED CONFERENCES

Action Research+ Transformations Gathering

"*AR+ Transformations Gathering* is a community organizing space, designed by and for those committed to action oriented transformations research. [This] gathering convenes a new global community to enable creative interaction around the question of how to do science/learning with stakeholders".

The *AR+ Transformations Gathering* is made for those who are "engaged in creating transformative knowledge, emphasizing participation, (self-) inquiry [and] action [with a] deeper

values orientation... [This] transdisciplinary work [exists] not only as an alternative, but also as a complement, to conventional ways of doing "objective" science".

Aims for the *AR+ Transformations Gathering* are:

- "Inter-personal action-oriented connections for:
 - Finding research colleagues and institutions,
 - Learning with and creating from each other's leading practices;
 - Developing projects together; and
 - Nourishing yourself!
- Collective connections to explore big ideas, such as:
 - Contributing to/creating a virtual university;
 - Defining and developing big action-oriented research opportunities;
 - Working on opportunities to develop the field of action-oriented research, and reduce the impediments.

Because our global community has not been connected up to date, we welcome like-hearted scholars, practitioners and activists to connect, to feel replenished and find new strengths for our next experiments in a global learning community".

The conference will be held in Gothenburg, Sweden, on March 8-10, 2019.

- For further details see:
 - <https://actionresearchplus.com/community-gathering/>
 - Registration closes 21 January 2019

Leverage Points 2019: International Conference on Sustainability Research and Transformation

"This conference is inspired by the seminal essay by Donella Meadows [Leverage Points: Places to intervene in a system](#)". It aims "to explore (in theory, methods and praxis) the deep leverage points that can lead to sustainability transformations. This conference will ask: how do we transform ourselves, our science, our institutions, our interventions and our societies for a better future?"

The conference is premised on three principles:

1. The importance of searching for places where interventions can lead to transformative change.
2. Open inquiry, exchange and co-learning across multiple theoretical, methodological and empirical research approaches focused on sustainability science and transformative change.
3. The need to reflect on modes of research and processes of change in leverage point and sustainability transformation related research.

The conference will have a number of core themes:

- Re-structuring institutions for transformative change
- Re-connecting people and nature as a deep leverage point
- Re-thinking how we know and act in relation to sustainability transformations
- Systems thinking and complexity as tools for transformation
- Transformative research practices in sustainability science

In the spirit of Meadows' work there will also be emergent themes dictated by inspiring research that falls outside the confines of the themes outlined above."

The aim is for "this conference [to] help us move from incremental to transformational change; extend our thinking about complex sustainability challenges and deepen our collective and transdisciplinary research practices."

The conference will be held in Lüneburg, Germany, on February 6-8, 2019.

- For further details see:
 - <https://leveragepoints.org/conference/>

Science of Team Science 2019 Conference

The Science of Team Science (SciTS) field builds "the evidence base for how to conduct, manage, and support effective and efficient team-based research," and the 2019 conference brings "together thought leaders from a broad range of disciplines and fields including, communications, management, social and behavioral sciences, information technology, systems science, and translational research" in supporting the growth of the field.

The SciTS conference "provides investigators, academic administrators, and funders with state-of-the-art knowledge, strategies, and connections. SciTS scholars, scientists engaged in team-based research, institutional leaders who promote collaborative research, policymakers, and federal agency representatives will be in attendance."

The conference will be held in Lansing, Michigan, on May 20-23, 2019.

- For further details see:
 - <https://www.inscits.org/>
 - Abstract submission deadline - 15 January 2019: <https://www.inscits.org/call-for-abstracts>

Additional conference information can be found at:

<http://i2s.anu.edu.au/resources/conferences>

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 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":

<https://www.linkedin.com/groups/4888295/> (when these occur) 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":
<https://www.linkedin.com/groups/4888295/>
- i2Insights blog: <http://i2Insights.org>

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