i2S News

October - December 2022, #61

Welcome to the October-December 2022 i2S News with the latest developments in Integration and Implementation Sciences (i2S), especially in the 3 repositories we curate.

Most of our attention is currently directed to i2Insights (our community blog and repository) and the i2S Talks YouTube channel, and we therefore feature these first. These are the two major ways in which we are developing Integration and Implementation Sciences (i2S). In addition, as we briefly report, we are in the midst of some major changes to the main i2S website, which provides detailed information about i2S.

In this i2S News we highlight the value to i2S of building a global i2S community. The repository of resources for tackling complex societal and environmental problems is strengthened when researchers from all countries contribute their insights and tools. Each country's perspectives, experience and wisdom enhance every country's ability to better address complex problems. Currently i2insights contributors come from a small number of countries, and while we encourage these country contributions to continue, we are actively seeking to increase and strengthen additional country contributions.

This is the last i2S News for 2022. We hope your year is wrapping up well and that you are looking forward to 2023.

Feedback and suggestions for i2S News are always welcome!
Gabriele Bammer and Peter Deane

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i2INSIGHTS

Building a global community: Highlighting activities in Armenia, Georgia, India and Brazil

A key aim of i2Insights is to build a truly global community. So far, we're doing reasonably on readership, with visitors to i2Insights coming from 188 of 193 countries (for our purposes, countries are defined by membership of the United Nations). But we still have a way to go when it comes to contributors, with only 47 countries represented among the more than 550 i2Insights authors (see Figure 1 on https://i2insights.org/about/i2insights-statistics/). If you come from one of the countries that is unrepresented or poorly represented, we would love to work with you on a contribution.

Three of the contributions in 2022 demonstrate why a global community is important in developing a repository of resources for tackling complex societal and environmental problems. Each country benefits from being able to draw on every country's experiences, insights and tools.

For example, understanding what is happening elsewhere can help us reflect more effectively on context in our own countries, as demonstrated by these two contributions from Armenia and Georgia, and India and Brazil, respectively:

- Implementing transdisciplinary research in post-Soviet Armenia and Georgia by Tigran Keryan and Tamara Mitrofanenko
  https://i2insights.org/2022/01/25/transdisciplinarity-in-post-soviet-countries/
  This highlights, among other things, that political instability hampers the ability of universities to play a societal role and must be addressed when seeking to stimulate interest in transdisciplinary research and education.
- Insights into interdisciplinarity and transdisciplinarity in India and Brazil by Marcel Bursztyn and Seema Purushothaman
  https://i2insights.org/2022/08/09/crossdisciplinarity-in-india-and-brazil/
  This particularly highlights long experience that to effectively address social inequalities, interdisciplinary and transdisciplinary research need to be citizen-inclusive, making grassroots stakeholders active partners rather than passive beneficiaries.

Furthermore, concepts and processes developed in the specific context of a country's problems can help those in other countries with different contexts look at ways of addressing their own problems with fresh eyes. This is demonstrated in:

- Adaptive skilling by Seema Purushothaman
  https://i2insights.org/2022/10/18/adaptive-skilling/

Seema demonstrates how "adaptive skilling" can address the challenge of finding a healthy equilibrium between improving the economic prosperity of India's Adivasi farmers and maintaining the quality and security of their traditional lifestyles. She concludes that "adaptive skilling" not only has relevance for other tribal societies, but may also be a global civilisational necessity as we craft informed, deliberative and adaptive mechanisms to plan and manage biodiversity, nutrition, healthcare, livelihoods and lifestyle.

Highlights from i2Insights statistics

We monitor the progress of i2Insights, publishing updated statistics every three months at https://i2insights.org/about/i2insights-statistics/. To end September there were 438 contributions by 552 authors from 47 countries. Since i2Insights started there have been viewers from 188 of the 193 countries that are members of the United Nations. The median lifetime views is 781, with the upper end of the range at just over 270,000 views.

Blog posts added since the last i2S News

Integration and implementation insights (i2Inisghts) has added the following blog posts to its repository since the last i2S News:

Improving cross-disciplinary collaboration with strategy knotworking and ecocycle planning
By Nancy White
https://i2insights.org/2022/11/22/strategy-knotworking-and-ecocycle-planning/

Dealing with differences in interests through principled negotiation
By Gabriele Bammer
https://i2insights.org/2022/11/15/principled-negotiation/

Creative destruction
By Keith McCandless
https://i2insights.org/2022/11/08/creative-destruction/

Why complex problems need abductive reasoning
By Mariana Zafeirakopoulos
https://i2insights.org/2022/11/01/abductive-reasoning-for-complexity/

Extending the DPSIR (Driving forces, Pressures, States, Impacts, Responses) framework
By Will Allen
https://i2insights.org/2022/10/25/extending-dpsir-framework/

Adaptive skilling
By Seema Purushothaman
https://i2insights.org/2022/10/18/adaptive-skilling/

Three narratives describing interdisciplinary and transdisciplinary researchers
By Laura Norton, Giulia Sonetti and Mauro Sarrica
https://i2insights.org/2022/10/11/inter-and-transdisciplinary-narratives/

Replacing conferences with effective online learning experiences
By Maha Bali, George Station and Mia Zamora
https://i2insights.org/2022/10/04/effective-online-conferences/

Resolving disagreements by negotiating agreements in the right way
By Lawrence Susskind
https://i2insights.org/2022/09/27/resolving-disagreements/

Systems thinking in public policy: Making space to think differently
By Catherine Hobbs
https://i2insights.org/2022/09/20/process-for-thinking-systemically/

What transdisciplinary researchers should know about evaluation: Origins and current state
By Wolfgang Beywl and Amy Gullickson
https://i2insights.org/2022/09/13/evaluation-origins-and-current-state/

Multidisciplinary perspectives on unknown unknowns
By Gabriele Bammer
https://i2insights.org/2022/09/06/perspectives-on-unknown-unknowns/

i2S TALKS

Highlighting the new video primer on Understanding Diversity

These selected videos by a range of presenters (https://www.youtube.com/playlist?list=PLxRQR5u7p9sdfkEB0EVIUuEEY8j-uWgP7) provide an introduction to eight less commonly considered aspects of diversity and complement the written primer on Understanding Diversity at https://i2insights.org/primers/understanding-diversity-primer/.

The video and written primers focus on understanding diversity in a research context, involving both discipline-based investigators and stakeholders, especially:
- how they understand the world (mental models)
- how they set research standards (perceptions of good research)
- how they understand and use their ability to influence others (power)
- what they care about (values)
- what they want (interests)
- the social behaviours and norms of the groups they belong to (culture)
- the traits that predict their behaviours (personality)
- the ways in which they most effectively work with others (team roles).

A list of the videos is provided below.

Videos added since the last i2S News

The following videos have been added to the i2S YouTube channel since the last i2S News:

Leading a large interdisciplinary organization on environmental sustainability
By Margaret Palmer (2022; 57 min)
https://youtu.be/7Hof_fjgCBE
(Playlists: Interdisciplinarity and Transdisciplinarity; NITRO-Oceania)

Research Development Professionals Stepping Outside Institutional Habit Boundaries
By Melanie Bauer (2022; 57 min)
https://youtu.be/fSZ7FQsTmFo
(Playlist: Intereach Webinar Series)

Spanning Boundaries, Creating Sparks and Reimagining the Future of Research Universities
By Pips Veazey (2022; 58 min)
https://youtu.be/_If8vlrfBnA
(Playlist: Intereach Webinar Series)

Integrating the integrator! Academic careers for integration experts
By Sabine Hoffmann (2022; 1 hr and 2 min)
https://youtu.be/48ru9u-y2ck
(Playlists: Interdisciplinarity and Transdisciplinarity; NITRO-Oceania)

What are mental models and how do your students use them?
By Christopher Moore (2019; 7 min)
https://youtu.be/AbAfM7AFO3k
(Playlist: Understanding Diversity: Video Primer)

Mental models can be deadly
By Cabrera Research Lab (2020; 1 min)
https://youtu.be/A4_WvmBcMU4
(Playlist: Understanding Diversity: Video Primer)

Epistemology, ontology, and axiology in research
By Alex Lyon, Organizational Communication Channel (2017; 8 min)
https://youtu.be/AhdZOsBps5o
(Playlist: Understanding Diversity: Video Primer)

Whose knowledge counts: A lecture from the IDS (Institute for Development Studies) course on shaping policy with evidence
By John Gaventa (2021; 26.5 min)
https://youtu.be/LdRoUiCVtVw
(Playlist: Understanding Diversity: Video Primer)

Schwartz's theory of basic values
By Anna Horodecka (2020; 10 min)
https://youtu.be/WC_zuks_25Q
(Playlist: Understanding Diversity: Video Primer)

Getting to yes: Interests vs positions
By William Ury (2015; 4 min)
https://youtu.be/MuJyDRgONls
(Playlist: Understanding Diversity: Video Primer)

Geert Hofstede introduces Dimensions of Societal Culture 2013
By Geert Hofstede (2013; 8 min)
https://youtu.be/mvznxUkDLkQ
(Playlist: Understanding Diversity: Video Primer)

Cross-cultural communication
By Pellegrino Riccardi, TEDx (2014; 20 min)
https://youtu.be/YMyofREc5Jk
(Playlist: Understanding Diversity: Video Primer)

The Big 5 OCEAN Traits Explained – Personality Quizzes
By Theodore Thudium, Practical Psychology (2019; 6 min)
https://youtu.be/KCwHV9HCxH0
(Playlist: Understanding Diversity: Video Primer)

Who are you, really? The puzzle of personality
By Brian Little, TED (2016; 15 min)
https://youtu.be/qYvXk_bqlBk
(Playlist: Understanding Diversity: Video Primer)

Belbin team roles Video Scribe,
presenter not given, TP Human Capital (2013; 4 min)
https://youtu.be/-efhOLVgEvM
(Playlist: Understanding Diversity: Video Primer)

What is the Belbin team profile?
By Mike Clayton, Project management in under 5 (2020; 6 min)
https://youtu.be/yUidm6-3G54
(Playlist: Understanding Diversity: Video Primer)

i2S WEBSITE

Changes in train

Three important changes are in train on the i2S website:
1. The repositories of journals, professional associations and networks, and conferences that were developed between 2002 and 2021 have been transferred to the website of the ITD-Alliance (Global Alliance for Inter- and Transdisciplinarity at https://itd-alliance.org/resources/).
2. We are in the process of removing tools from the resources repository on the i2S website and instead making i2Insights the consolidated repository of all tools relevant to i2S. We are not quite half-way and you can follow progress on https://i2s.anu.edu.au/resources/list-of-relocated-resources/
3. We have decided not to proceed with the development of FAQ (frequently asked questions) which we trialled in the first two issues of the new-look i2S News, as these often duplicate resources in i2Insights. Instead, each issue of i2S News will highlight specific contributions to i2Insights and i2S Talks.

OTHER UPDATES

One new video by Gabriele Bammer about aspects of i2S is also available

This talk on "Effectively using transdisciplinary approaches in public interest technology" was presented as part of the series *Transdisciplinarity and Public Interest Technology* organised by the Arizona State University (ASU) School for the Future of Innovation in Society. In the same video, this talk is preceded by a presentation on "Thinking abductively about national security" by Mariana Zafeirakopoulos. The video is available at https://www.youtube.com/watch?v=plLgyZ7wS9U

Special article collection in the journal *Humanities and Social Sciences Communications*

The academic journal *Humanities & Social Sciences Communications*, published by Springer Nature, is currently welcoming submissions of original research for a thematic collection (or 'special issue') entitled: 'Practice-based Research of Interdisciplinary Higher Education' (Collection Editors: Iris van der Tuin, Ida Kemp, Simon Scott and Catherine Lyall). Original Research and Review Papers are invited and can address a range of perspectives including theoretical, methodological, quantitative and qualitative studies. Submissions will be welcomed at any point up until 22 September 2023.

In the July-September issue of i2S news we featured another special article collection on "Expertise in integration and implementation for transformative research".

ABOUT i2S NEWS

The aim of this newsletter is to provide regular updates (4 times per year) about what's new in Integration and Implementation Sciences (i2S), especially in three major repositories:

- the i2S website (http://i2s.anu.edu.au), which provides a range of information about Integration and Implementation Sciences
- Integration and Implementation Insights (http://i2Insights.org), which functions as a community blog, as well as a repository, for sharing concepts, methods and other research tools for understanding and acting on complex real-world problems
- the i2S YouTube channel (https://www.youtube.com/user/i2sTalks), which provides a range of videos about various aspects of i2S.

Other updates about i2S are also provided and, from time to time, we also post news that is not directly related to i2S, but that is in line with i2S objectives.

Our target audience is researchers who tackle complex societal and environmental problems and who are interested in:

- Synthesizing knowledge from different disciplines and stakeholders,
- Understanding and managing diverse unknowns, and
- Supporting improved policy and practice responses to problems by government, business and civil society.

The three i2S repositories therefore provide new tools, as well as compiling and sharing existing tools, in 11 main areas:

- understanding the processes involved in *change*
- improving *communication*
- understanding *context*
- effective *decision making*
- incorporating, harnessing and managing *diversity*
- *integration* of multiple and varied perspectives about any problem and insights into acting on it
- *research implementation*
- *stakeholder engagement*
- taking a *systems* perspective
- *teamwork*
- understanding and managing *unknowns*.

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
- i2Insights blog and repository: http://i2Insights.org
- i2S on YouTube: https://www.youtube.com/user/i2sTalks
- Twitter: @GabrieleBammer
- LinkedIn group "Global Network for Research Integration and Implementation": https://www.linkedin.com/groups/4888295/

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