

Faculty of Design

## <sup>2019</sup> Collaborative foresight for long-range problem discovery in complex R&D

Weigand, Kirk and Jones, Peter

Suggested citation:

Weigand, Kirk and Jones, Peter (2019) Collaborative foresight for long-range problem discovery in complex R&D. In: Relating Systems Thinking and Design (RSD8) 2019 Symposium, Oct 13-15 2019, Chicago, USA. Available at http://openresearch.ocadu.ca/id/eprint/3230/

Open Research is a publicly accessible, curated repository for the preservation and dissemination of scholarly and creative output of the OCAD University community. Material in Open Research is open access and made available via the consent of the author and/or rights holder on a non-exclusive basis.

The OCAD University Library is committed to accessibility as outlined in the <u>Ontario Human Rights Code</u> and the <u>Accessibility for Ontarians with Disabilities Act (AODA)</u> and is working to improve accessibility of the Open Research Repository collection. If you require an accessible version of a repository item contact us at <u>repository@ocadu.ca</u>.

## Collaborative Foresight for Long-Range Problem Discovery in Complex R&D

Kirk Weigand, United States Air Force Research Laboratory

&

Peter Jones, OCAD University

Public Release by the United States Air Force, Approved date: 2012-08-03, PA Approval Number: 88ABW-2012-4261





Fig. 6. Strategic pathway 3: Cognitive systems research to enable trusted systems.



Fig. 4. Cross-impact mapping of technology enablers to S&T challenges.

## A Figurative, tangible representation in a sand tray



## Visual Narrative Summary





"What challenges ought AFRL lead for autonomous response to the unexpected in "pick-up" games enabling effective Strike, EW/Cyber & ISR?"







Lower

system

costs

"What challenges ought AFRL lead for autonomous response to the unexpected in "pick-up" games enabling effective Strike, EW/Cyber & ISR?"







