

Faculty of Design, sLAB (Strategic Innovation Lab)

Co-creating foresight culture in government

Van Alstyne, Greg

Suggested citation:

Van Alstyne, Greg (2013) Co-creating foresight culture in government. In: WorldFutures 2013, 21 Jul 2013, Chicago, USA. Available at http://openresearch.ocadu.ca/id/eprint/1823/

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.

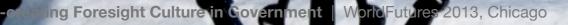
The OCAD University Library is committed to accessibility as outlined in the <u>Ontario Human Rights Code</u> and the <u>Accessibility for Ontarians with Disabilities Act (AODA)</u> and is working to improve accessibility of the Open Research Repository collection. If you require an accessible version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

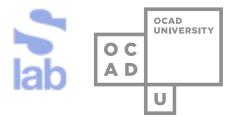
Co-Creating Foresight Culture in Government



Greg Van Alstyne Associate Professor, Faculty of Design Director of Research, Strategic Innovation Lab (sLab) OCAD University, Toronto

WorldFutures 2013 Chicago, IL, 21 July 2013





How might we foster foresight culture in government?

Can co-creation, science fictioning and other innovative, design-centered foresight techniques find fertile ground within those shiny, marble halls?

Three projects:

 Economic Futures for Ontario 2032 (not public)
 SSHRC — Imagining Canada's Future (public)
 What is Foresight? video Policy Horizons Canada (forthcoming/public) What is meant by co-creation and co-design?

OCAD UNIVERSITY UNIVERSITY

"Companies must learn to **co-create** value with their customers" – Prahalad & Ramaswamy (2002), The Co-Creation Connection

"From designing *for* people to **designing** *with* **us**" —Thackara (2005), *In the Bubble*

"**Co-design** refers to the creativity of designers and people not trained in design, working together in the design development process"

-Sanders & Stappers (2008), Co-creation and the New Landscapes of Design

CoDesign: International Journal of CoCreation in Design & the Arts (Taylor & Francis) **Co.Design**: business + innovation + design <u>www.fastcodesign.com</u>/ (Fast Company)

About me



Co-founder / Director of Research, sLab, OCAD U Teacher, MDes in Strategic Foresight & Innovation Designer, teacher, researcher, futurist MS, Integrated Digital Media Research in complex systems, 'design for emergence' Generalist (not an expert in gov't, economics, etc)



OCAD U Master of Design in Strategic Foresight and Innovation (est. 2009)

We are enterprising agents who tackle complexity, see patterns, and lead in dynamic contexts We develop human capacity to explore, challenge, find meaning, create sustainable, vibrant futures and design, responsibly.





Strategic Innovation Lab (sLab) (est. 2008)



sLab at OCAD University is a growing community for applied foresight and innovation research.

Rooted in a heritage of **design thinking**, sLab's approach places human needs, desires, behaviour and culture at the heart of

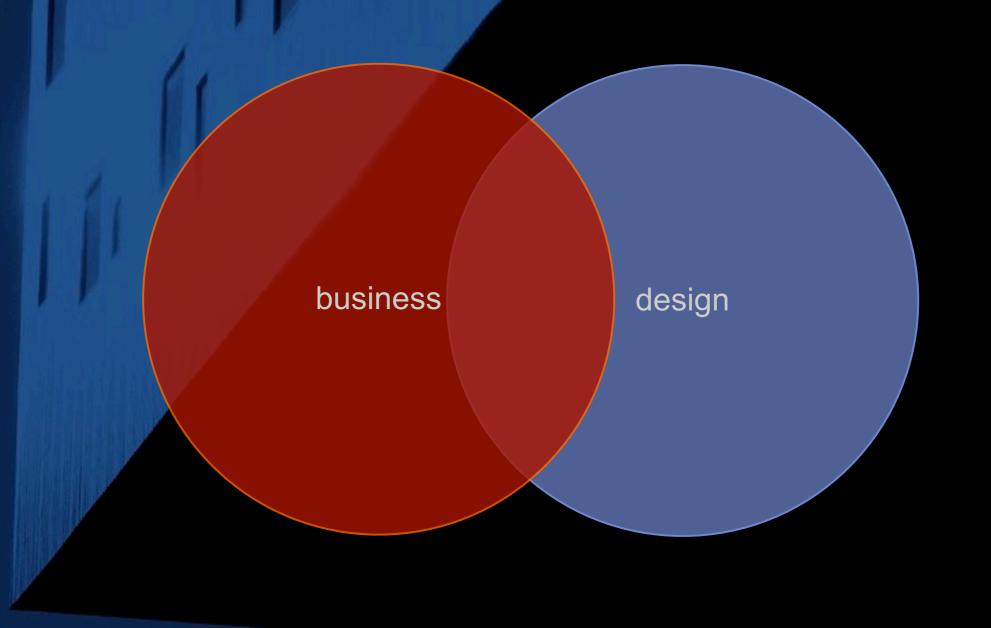
- problem finding
- problem framing
- problem solving

foresight strategy design



OCAD U foresight and innovation model

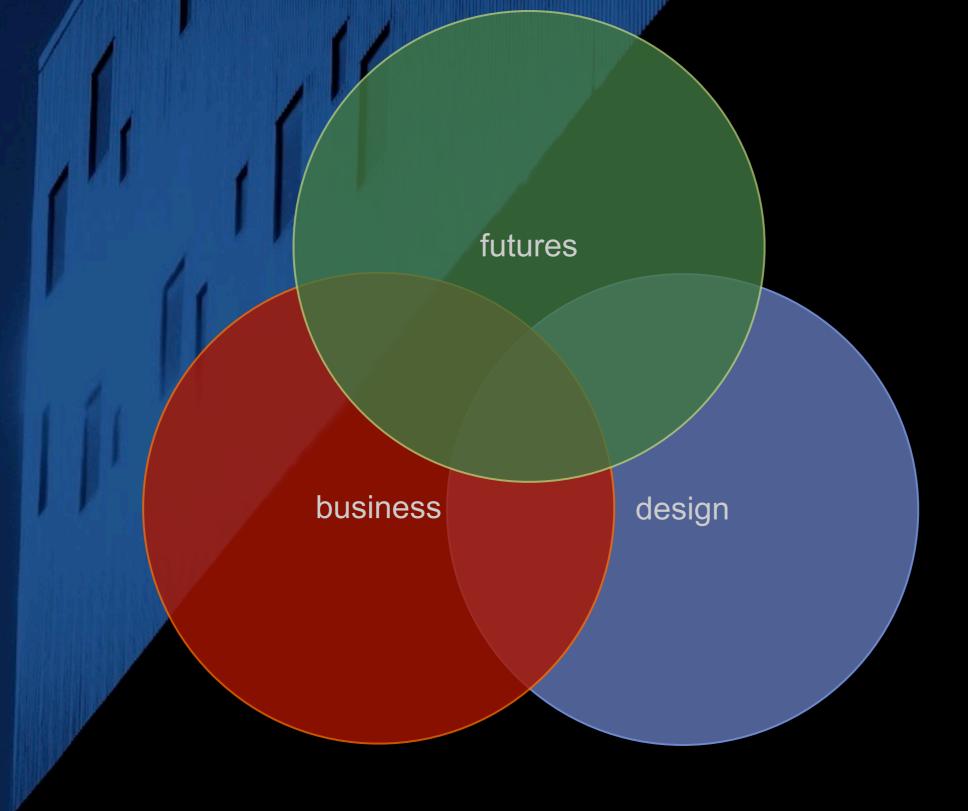




Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago

OCAD U foresight and innovation model

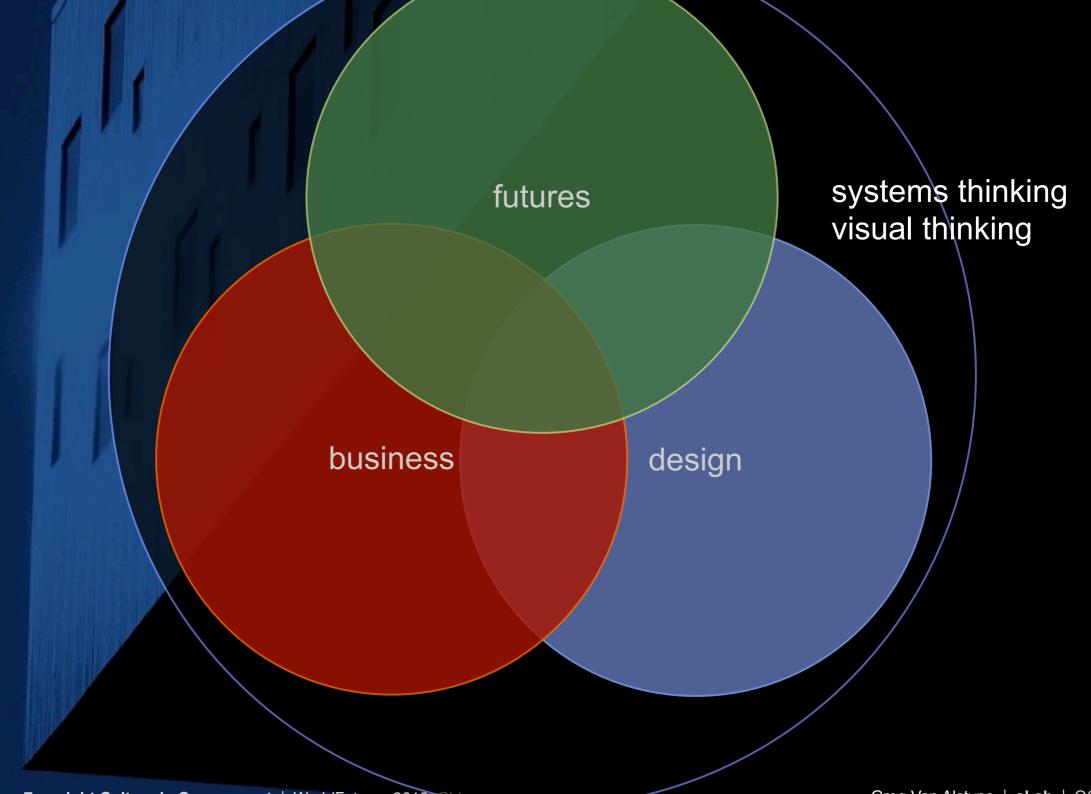




Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago

OCAD U foresight and innovation model





Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago

Selected sLab Projects

Economic Futures for Ontario 2032 Ontarian-Centred Foresight Project for the Government of Ontario

SSHRC: Imagining Canada's Future, Expert Panel for Southern Ontario Top ten future challenges for the Social Sciences & Humanities

What is Foresight?

Educational video for Policy Horizons Canada

Visualizing Emergence Understanding innovation through data visualization

2020 Media Futures Strategic Foresight for Ontario's Cultural Media Industries

United Way Centraid Canada (UWCC) Strategic Plan Guiding Canada's largest philanthropic organization

OCAD U Strategic Foresight

Scenarios and implications for OCAD U Strategic Plan 2012–2017

Access for All

Inclusive Design online training for Ontario's Public Employees

http://www.flickr.com/photos/santos/27538777/

Co-creating Foresight Culture in Government | WcrldFutures 2013, Chicago

Why foresight... in policy making?



"Research foresight is...the only plausible response to resolving conflicts over priority-setting.... Foresight provides...a systematic mechanism for coping with that complexity and interdependence as it affects long-term decisions on research, in particular facilitating policy-making where integration of activities across several fields is vital"

-Martin & Irvine (1989, 3) [emphasis mine]

Project 1



Economic Futures for Ontario 2032 (EFO) An Ontarian-Centred Foresight Project

Over the next twenty years, how might changes on the horizon alter Ontario's economy?

What might an Ontarian living in that future expect?



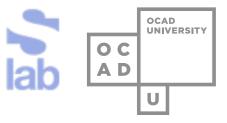
http://www.ontariotravelinformation.ca/ Greg Van Alstyne | sLab | OCAD University

Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago

International Precedents

International technology and Innovation foresight programs, 1990–2008				
UK	United Kingdom Foresight Program			
France	FutuRIS; AGORA 2020; INRA2020			
Germany	T21; Delphi series; Futur program			
Finland	Finnsight; SITRA Foresight			
Norway	VERDIKT			
European Union	FOREN; COST; eFORESEE; NEM			
USA	Metaverse Roadmap; 21st Century Challenges GAO			
Japan	Delphi series, 1969-present			
Brazil	Brazil 3 Moments; Prospectar; TFP Brazil			
China	TF Toward 2020; TF of Priority Industries			

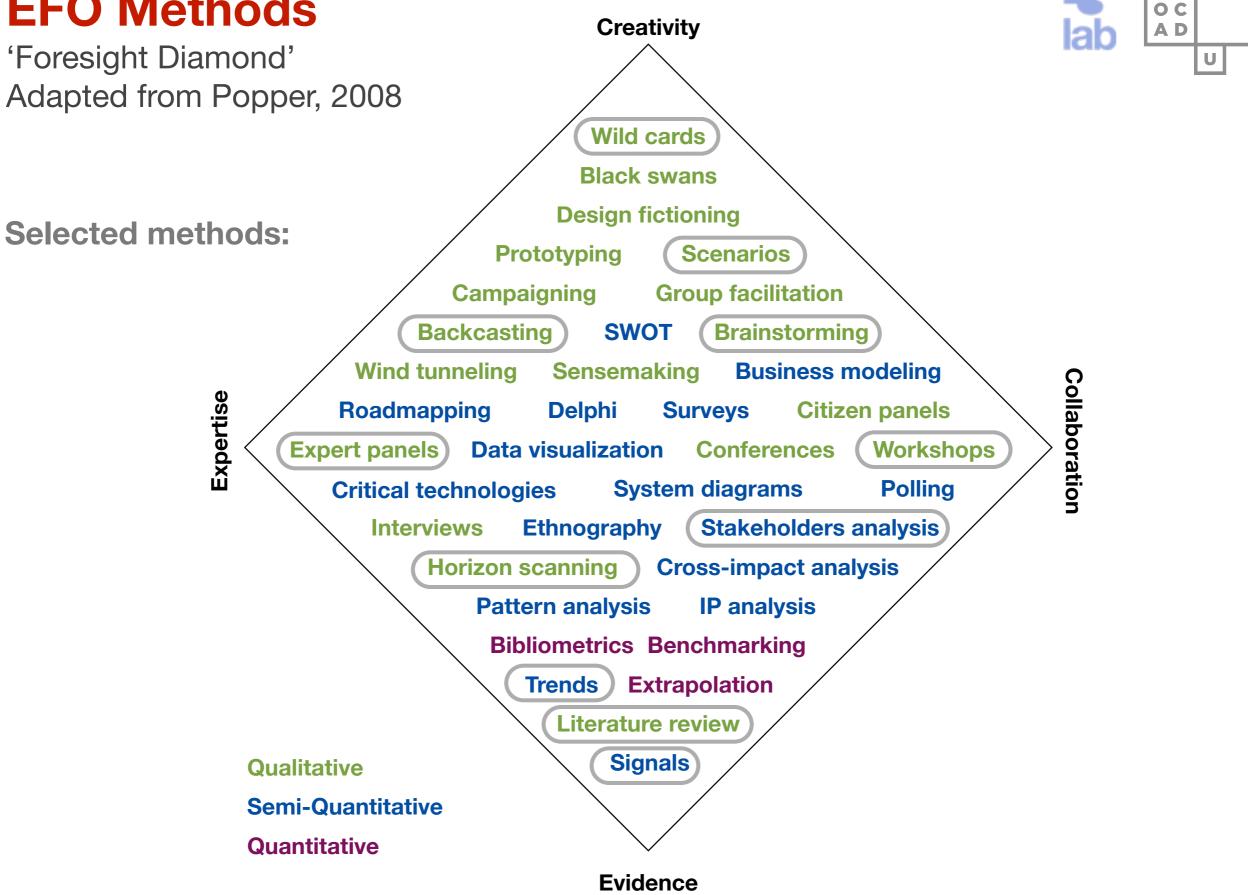
Adapted from: Miles et al. (2008) "The Many Faces of Foresight" in The Handbook of Technology Foresight, ed. L. Georghiou et al.



The Economic Futures for Ontario 2032 project (EFO) developed a set of plausible future stories—foresight scenarios—to reveal insights for decision-makers.

Insights and capacity gained from this process can be used to inform the development of longer-term strategies and policies today, and aid government's preparedness in conditions of rapid change. It is important to note that these scenarios describe *possible futures* driven by key *uncertainties*. They are not predictions of the future but they are highly useful in preparing for it.

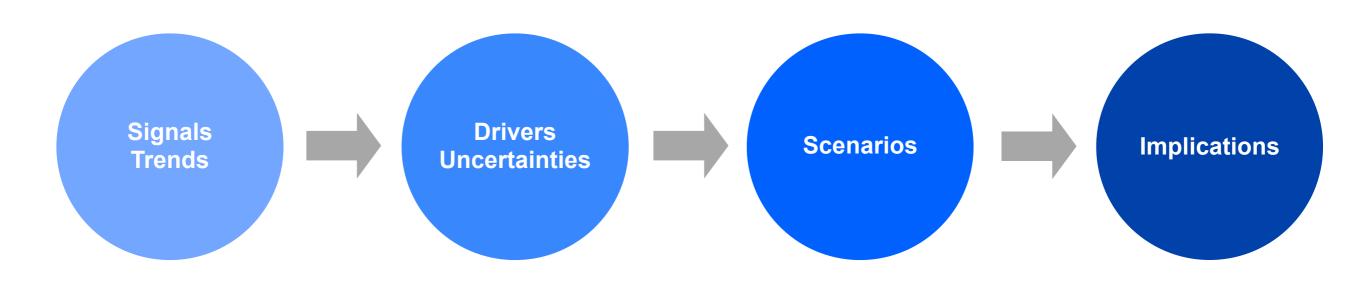
EFO Methods



OCAD UNIVERSITY







750 Signals: tangible evidence of change
30 Trends: patterns in signals
28 Drivers: structure behind the trends
3 Uncertainties: most critical and unpredictable drivers
4 Scenarios: possible futures driven by key uncertainties
Implications: how to think about and use the scenarios

Trends / STEEPV Scan



Society

Workforce Mash-up Superhuman Not-so-Private Lives Webucation Global Citizens

Technology

Energy Shift Digitization of Everything Combination Acceleration Pervasive Surveillance Material Innovation

Ecology

Toxic Meltdown Cities Intensified Everyday Extremes Future of Farming Precious Water

Economy

Marketable Renewables Information Economies BRICS + the Next 11 Markets Fiscal Federalism No Growth Economy

Politics

Power Redistribution Politicization of Resources Technology-assisted Government Aboriginal Self-determination Governance Beyond Government

Values

Everyone Together Separate and Apart Opting Out Gamification Distributional Inequality

Technology-Society-Economy

Superhuman

http://www.flickr.com/photos/tom_lin/3268927302/





CLEAN WATER

Political-Economy-Ecology

Precious Water



Economic Futures for Ontario Project – 10.31.2011

Ecology-Economy **Everyday Extremes**



Economic Futures for Ontario Project – 10.31.2011

Politics-Economy

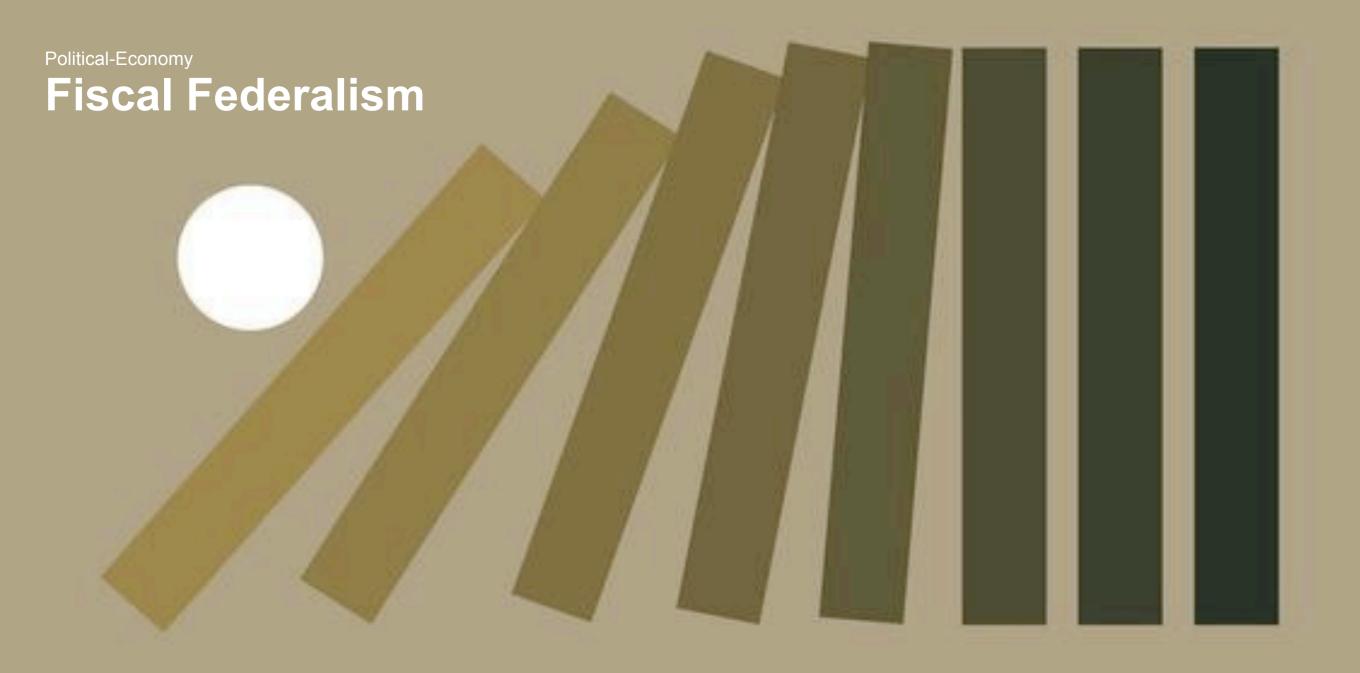
nds

BRICS + The Next 11 Markets

http://www.coxandkings.co.uk/rae_tourdetails.aspx?regioncode=RESHA



Economic Futures for Ontario Project – 10.31.2011

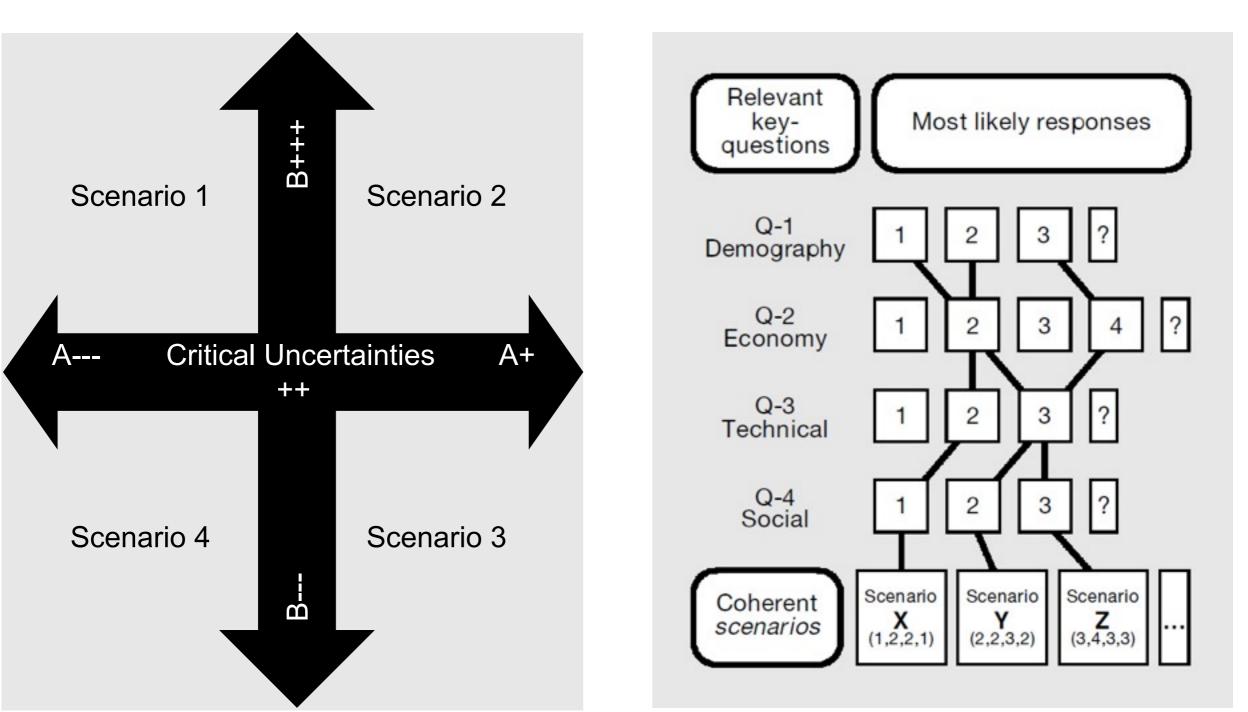


http://www.mymodernmet.com/profiles/blogs/genis-carreras-complex-philosophical-theories



Economic Futures for Ontario Project - 10.31.2011

How to Generate Scenarios? 2x2 Matrix vs Godet's Morphological Analysis



Godet M. The Art of Scenarios and Strategic Planning: Tools and Pitfalls. *Technological Forecasting and Social Change*. 2000 Sep;65(1):3-22.

OCAD UNIVERSITY

U

O C A D

lab

What Differentiates Scenarios?



We selected a 2x2x2 matrix to generate scenarios

This method uses *critical uncertainties* — drivers of change that are judged to possess:

- Relevance to the research question
- Impact through the time horizon (20 years)
- Independence from each other
- Uncertainty

Uncertainty: estimated degree of unpredictability or instability in anticipating direction or nature of effects

Three Critical Uncertainties

Climate change

Will predictability, pace, and human management of climate change be:

Progressive Changing at a manageable pace

Volatile Rapid, unpredictable, challenging change

Emerging and interconnected economies

Will jurisdictional trade relations and economic power balance be:

Friendly Characterized by collaborative competition

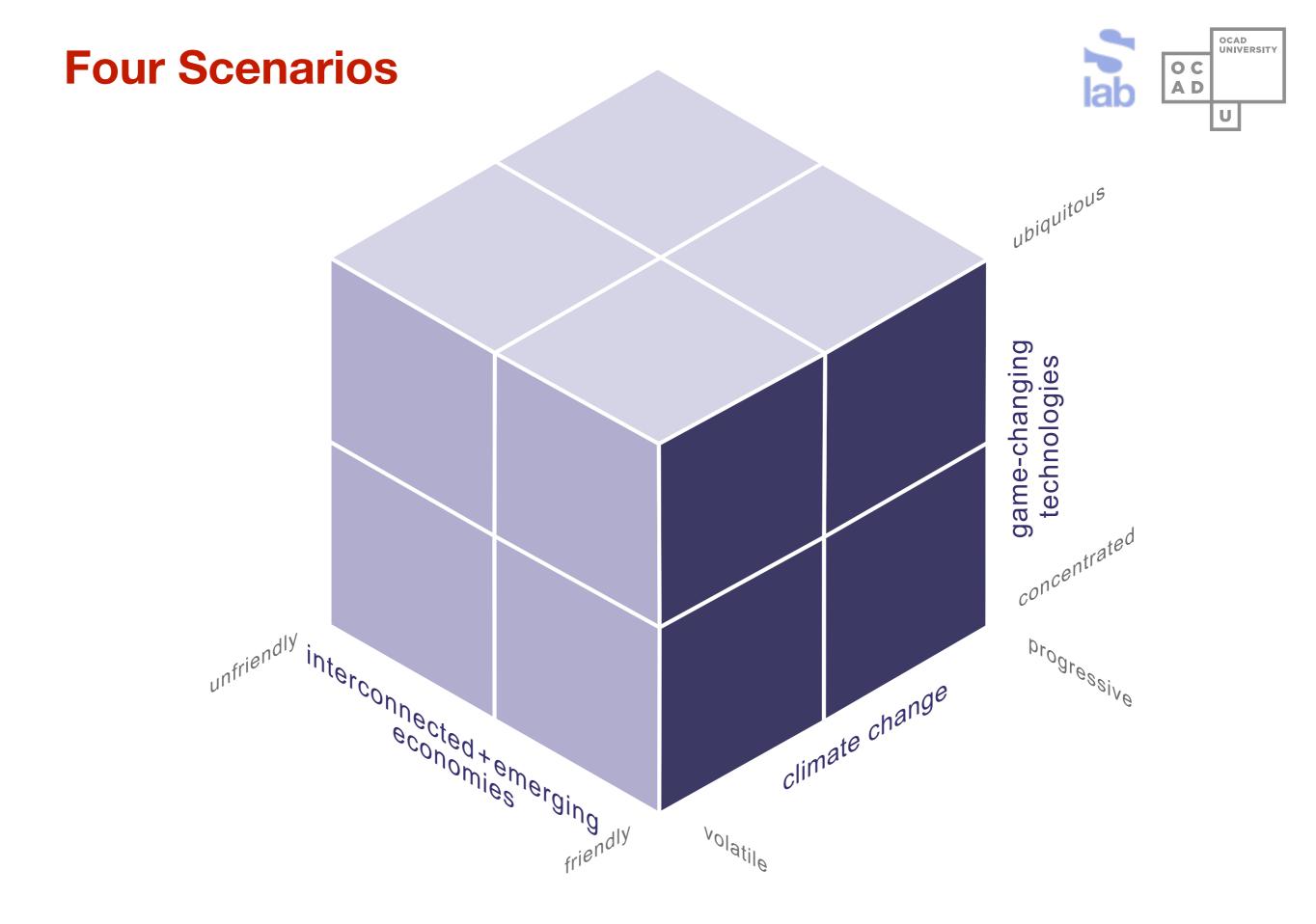
Unfriendly Characterized by selective/ exclusive trade relations

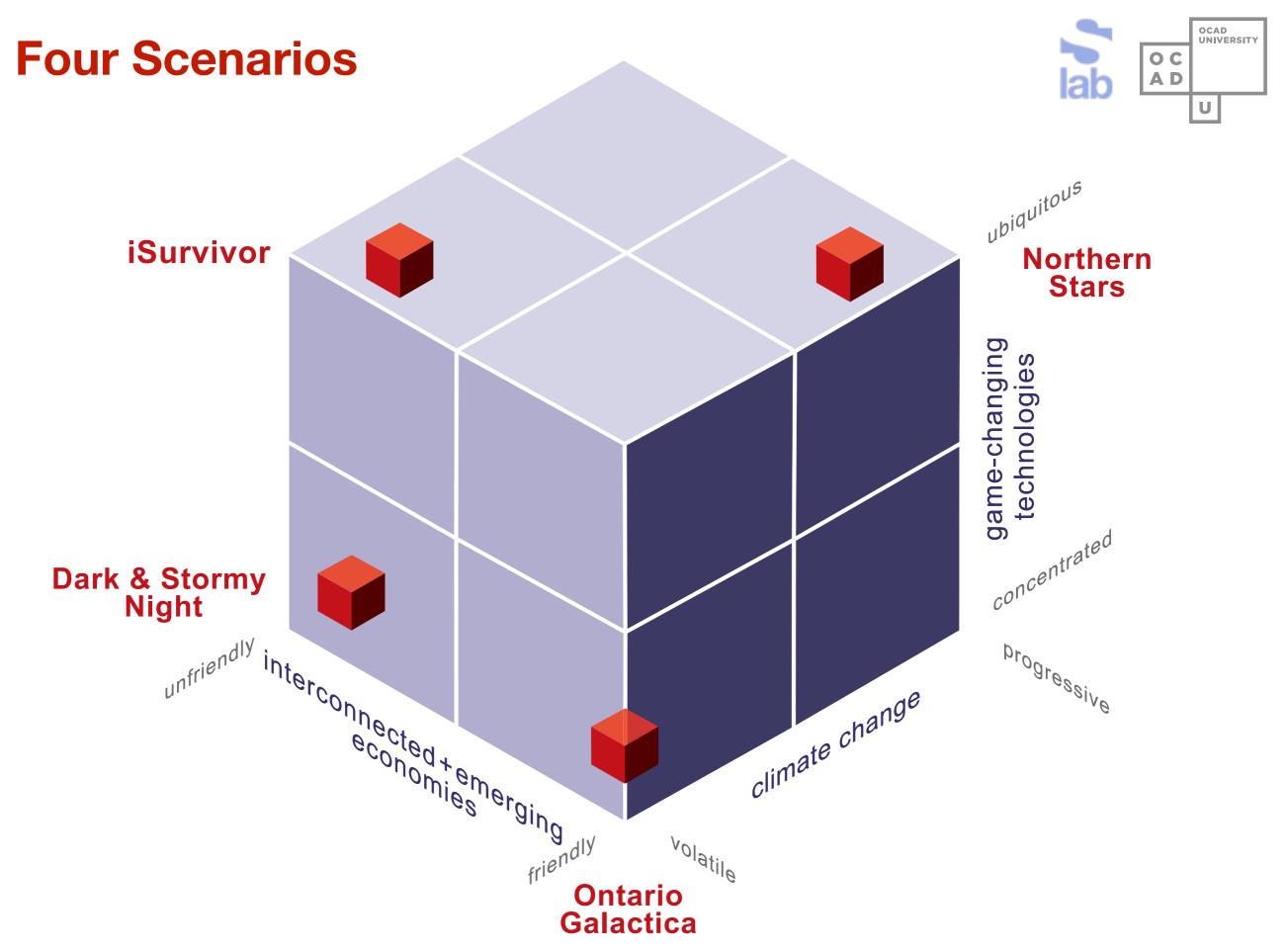
Game-changing technologies

Will diffusion, control and accessibility of key technologies be:

Ubiquitous More widespread, accessible, or open

Concentrated More constrained, controlled, or closed



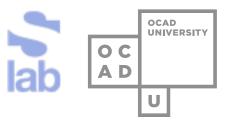


Scenarios Attributes



Interconnected Economies	Unfriendly	Unfriendly	Friendly	Friendly
Climate Change	Volatile	Volatile	Volatile	Progressive
Game-changing Technologies	Ubiquitous	Concentrated	Concentrated	Ubiquitous
Scenario Title	iSurvivor	Dark and Stormy Night	Ontario Galactica	Northern Stars

Developing Scenarios



To develop detailed foresight trends, drivers and scenarios for provocative yet plausible features, rich with 'turning points' and unexpected implications for policy, we convened:

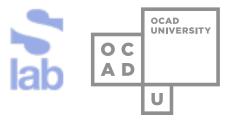
- Internal Working Group (IWG) trends workshop
- IWG drivers workshop
- IWG scenarios workshop (2 days)
- Senior Leaders workshop
- Leaders of Tomorrow workshop
- Implications workshop

Scenarios workshops





Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago



Participants were asked to consider:

- What features can you imagine as part of this world?
- Other characters? activities? events?
- What surprising events might emerge?
- How might we hypercharge the ideas?

It's 2032! Imagine yourself living in this world

- What about this world makes you uncomfortable?
- What are you hopeful about?
- What would you do? What is work? What is fun? What is community?

Scenarios Illustrations

Centering on specific ideas, characters and events in each scenario, hyper-real illustrations were developed by OCADU Illustration graduate Ryan Lake, directed by sLab's Van Alstyne



Scenarios Illustrations

Centering on specific ideas, characters and events in each scenario, hyper-real illustrations were developed by OCADU Illustration graduate Ryan Lake, directed by sLab's Van Alstyne



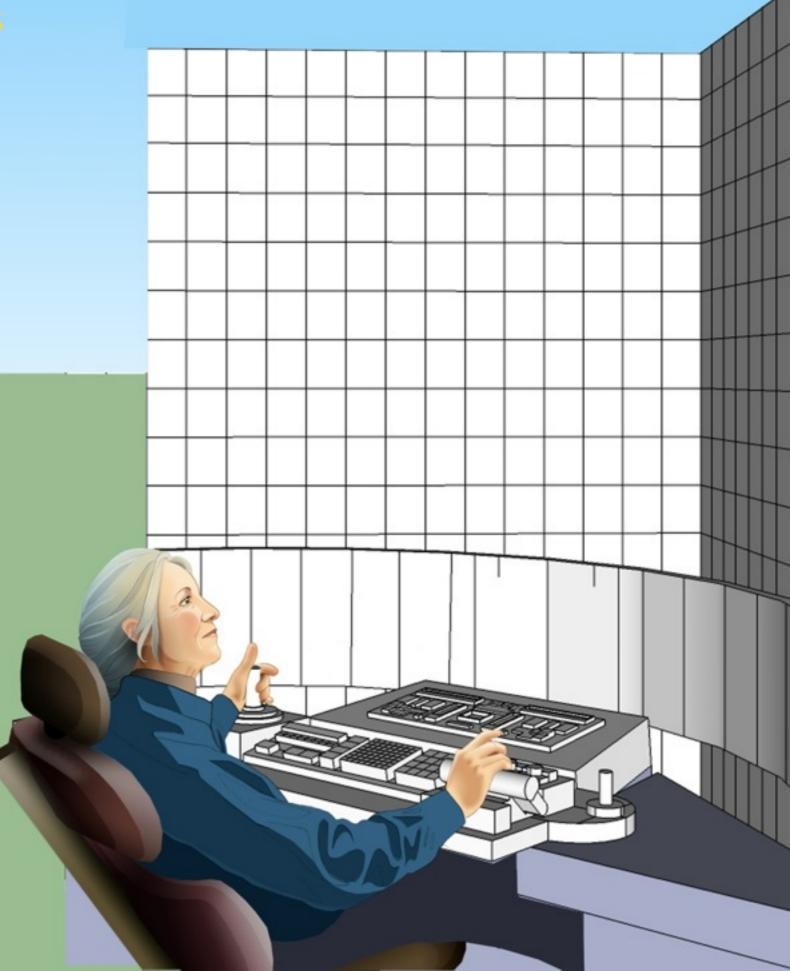
Scenarios Illustrations

Centering on specific ideas, characters and events in each scenario, hyper-real illustrations were developed by OCADU Illustration graduate Ryan Lake, directed by sLab's Van Alstyne



Scenarios Illustrations

Centering on specific ideas, characters and events in each scenario, hyper-real illustrations were developed by OCADU Illustration graduate Ryan Lake, directed by sLab's Van Alstyne



Scenarios Illustrations

Centering on specific ideas, characters and events in each scenario, hyper-real illustrations were developed by OCADU **Illustration graduate** Ryan Lake, directed by sLab's Van Alstyne



Scenarios Illustrations

Centering on specific ideas, characters and events in each scenario, hyper-real illustrations were developed by OCADU **Illustration graduate** Ryan Lake, directed by sLab's Van Alstyne





To cultivate foresight sensibility in government, teams were broad and diverse. One included people from:

sLab, OCAD University Cabinet Office Ministry of Agriculture, Food and Rural Affairs Ministry of Aboriginal Affairs Ministry of Correctional Services Ministry of Economic Development and Innovation Ministry of Health and Long-term Care Ministry of Infrastructure Ministry of Labour

iSurvivor

Climate Change	Volatile
Interconnected Economies	Unfriendly
Game-changing Technologies	Ubiquitous



Illustration: (cc) Ryan Lake

Dark & Stormy Night

Climate Change	Volatile
Interconnected Economies	Unfriendly
Game-changing Technologies	Concentrated

Illustration: (cc) Ryan Lake

Ontario Galactica

Climate Change	Volatile
Interconnected Economies	Friendly
Game-changing Technologies	Concentrated



Illustration: (cc) Ryan Lake Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago

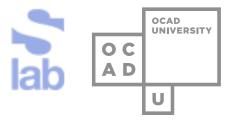
Northern Stars

Climate Change	Progressive
Interconnected Economies	Friendly
Game-changing Technologies	Ubiquitous



Illustration: (cc) Ryan Lake

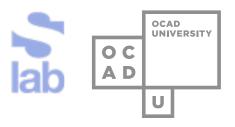
Why does co-creation work?

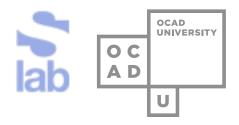


When participants bring something unique into being, they do so with attention, passion, care and creativity less administration and management, more 'parenting'.



(cc) http://commons.wikimedia.org/wiki/File:Baby_on_Back.jpg



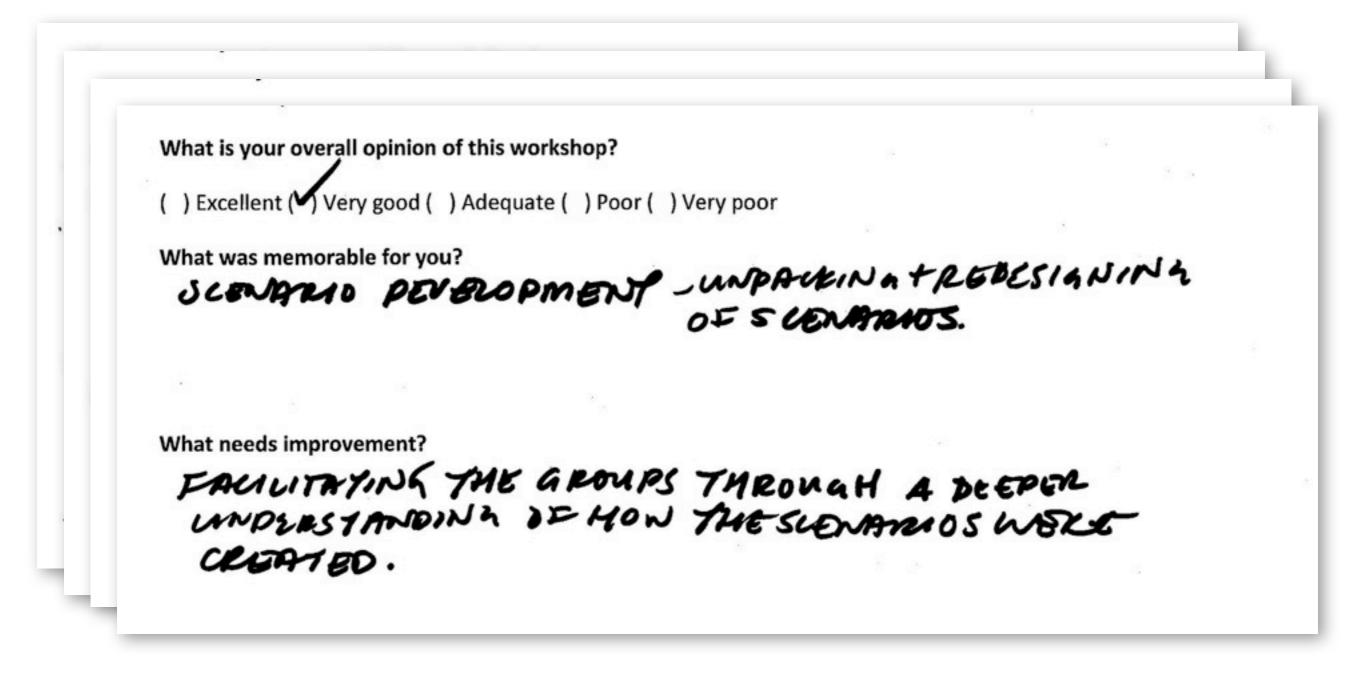


What is your overall opinion of this workshop? (Excellent () Very good () Adequate () Poor () Very poor What was memorable for you? This needs to be canced out among 20 year olds and 10 year olds to determine the appealent outwolks What needs improvement? among ge graps.

O C

What is your overall opinion of this workshop? Excellent () Very good () Adequate () Poor () Very poor What was memorable for you? Hearingthe depth of thought. Youngpeople have experime dopinions - more than perhaps gov't a llows a gives credit for. I.e. fine I decisions / approval What was memorable for you? What needs improvement? One a lways made by senion (+ they we requestly olde decision making the works hop! to play









SSHRC – Imagining Canada's Future

Canada's Social Sciences and Humanities Research Council (SSHRC), to foster "research preparedness," endorsed a project:

"to identify future challenges areas for Canada in an evolving global context that are likely to emerge in five, ten and twenty years and to which the social sciences and humanities research community could contribute its knowledge, talent and expertise."

Process

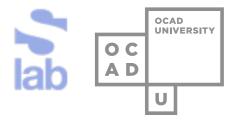
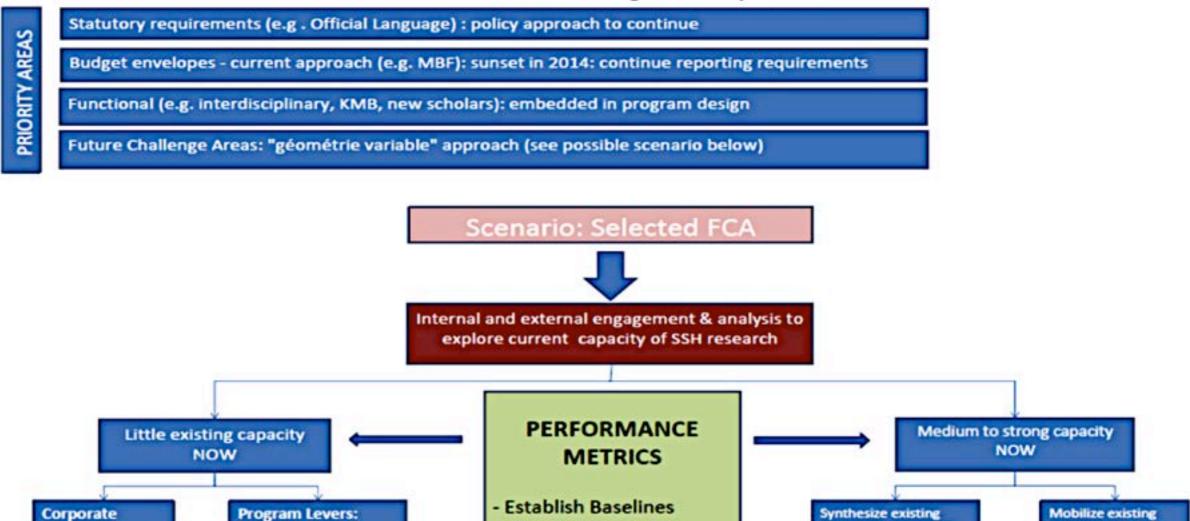


Figure 1: Implementation Flow Chart Future Challenge Areas - April 2013



knowledge to identify Activities: gaps & refocus - Flag in RFP Set Targets & Timelines subquestions Policy & Dedicated funding communications Peer outreach activities by SSHRC **Refresh sub-questions** - Committee structure Measure & Report on a regular basis Experimental Work (sandpits) - Refine & Recalibrate \frown Consider investing resources (time/money) in Mobilize knowledge & realize potential students & new scholars of SSH research for benefit on & beyond **DEVELOPING TALENT + INSIGHT**

Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago

Greg Van Alstyne | sLab | OCAD University

CONNECTIONS:

campus

knowledge

- through PA

 \frown

particularly to non-

academic audience

corporate activities



sLab led a regional panel proposal for Southern Ontario in response to SSHRC's call.

University partners: OCAD, Windsor, York, Ryerson, UOIT

Spanning Windsor to Oshawa, a "Golden Horseshoe" region including large-scale automotive production

Method: Structured Dialogic Design (SDD)



- Designed to address complex social / civic concerns
- Multi-technique foresight methodology
- Highly facilitated, structured inquiry

Dialogic Design offers to participant stakeholders:

- Strong, democratic consensus
- Conservation of autonomy, authenticity, commitment
- Mitigation of group cognitive and power bias
- Diagrammatic clarity

for more on SDD see Christakis and Bausch (2008) *Harnessing Collective Wisdom* http://harnessingcollectivewisdom.com/

Method: Structured Dialogic Design (SDD)



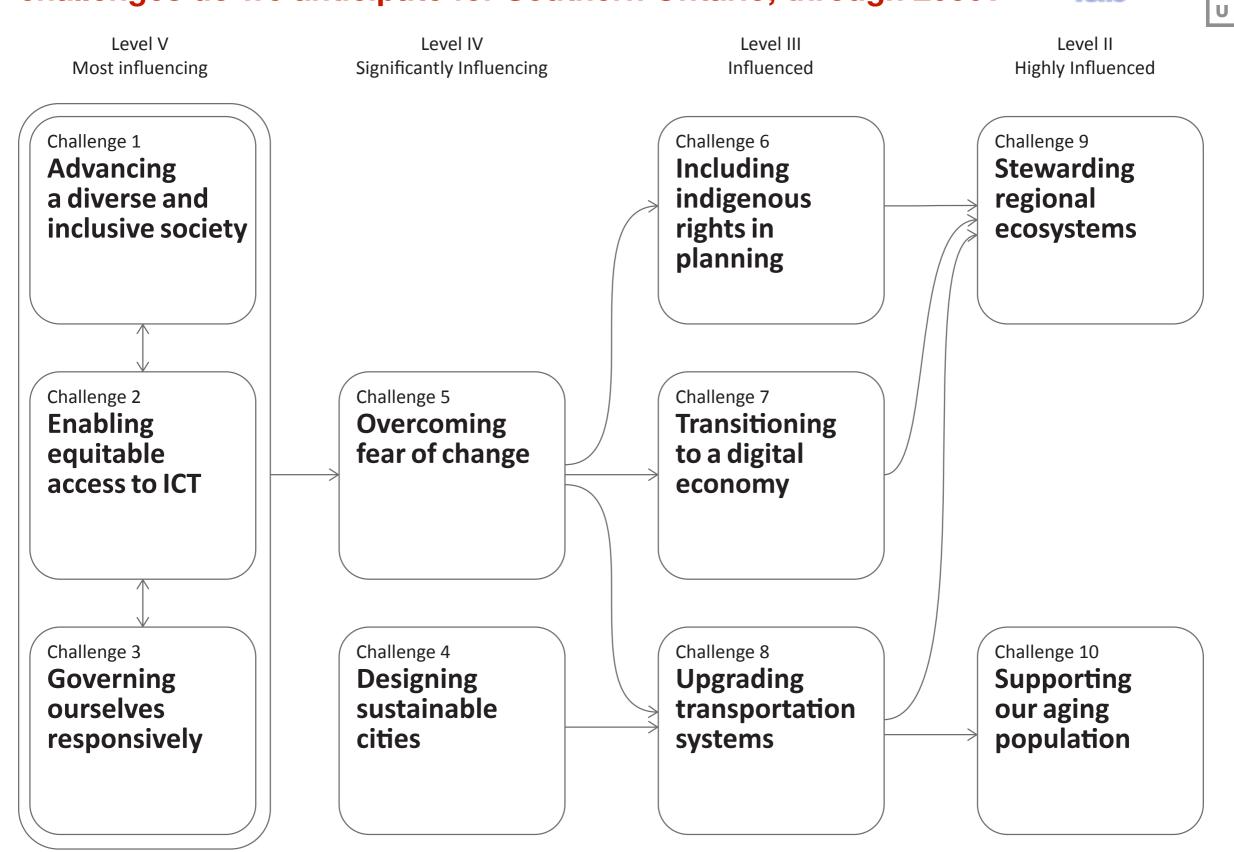




Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago

Greg Van Alstyne | sLab | OCAD University

"In the face of increasing urbanization worldwide, what future challenges do we anticipate for Southern Ontario, through 2030?"



Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago

OCAD UNIVERSITY

O C A D

lab

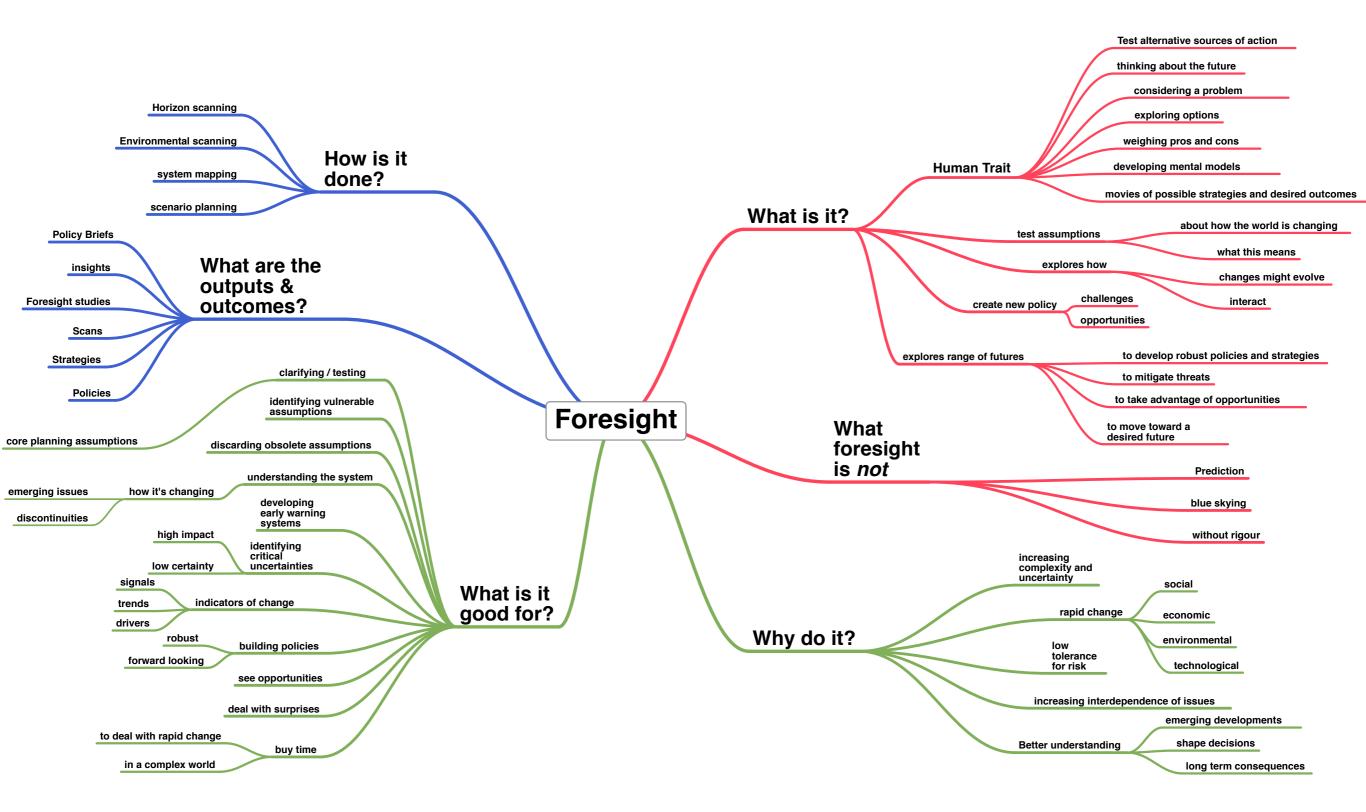


What is Foresight? Video

"Policy Horizons Canada has a mandate from its Deputy Minister Steering Committee (DMSC) to experiment with new ways of visualizing and communicating complex information. We are looking for new and effective ways to visualize and communicate our findings to our DM Community and the larger policy community across the government. This project engages an external professional...to build our capacity and to prepare a video on the meaning and benefits of foresight." -Policy Horizons Statement of Work

Planning and Scripting



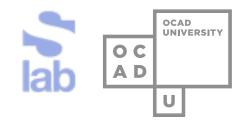


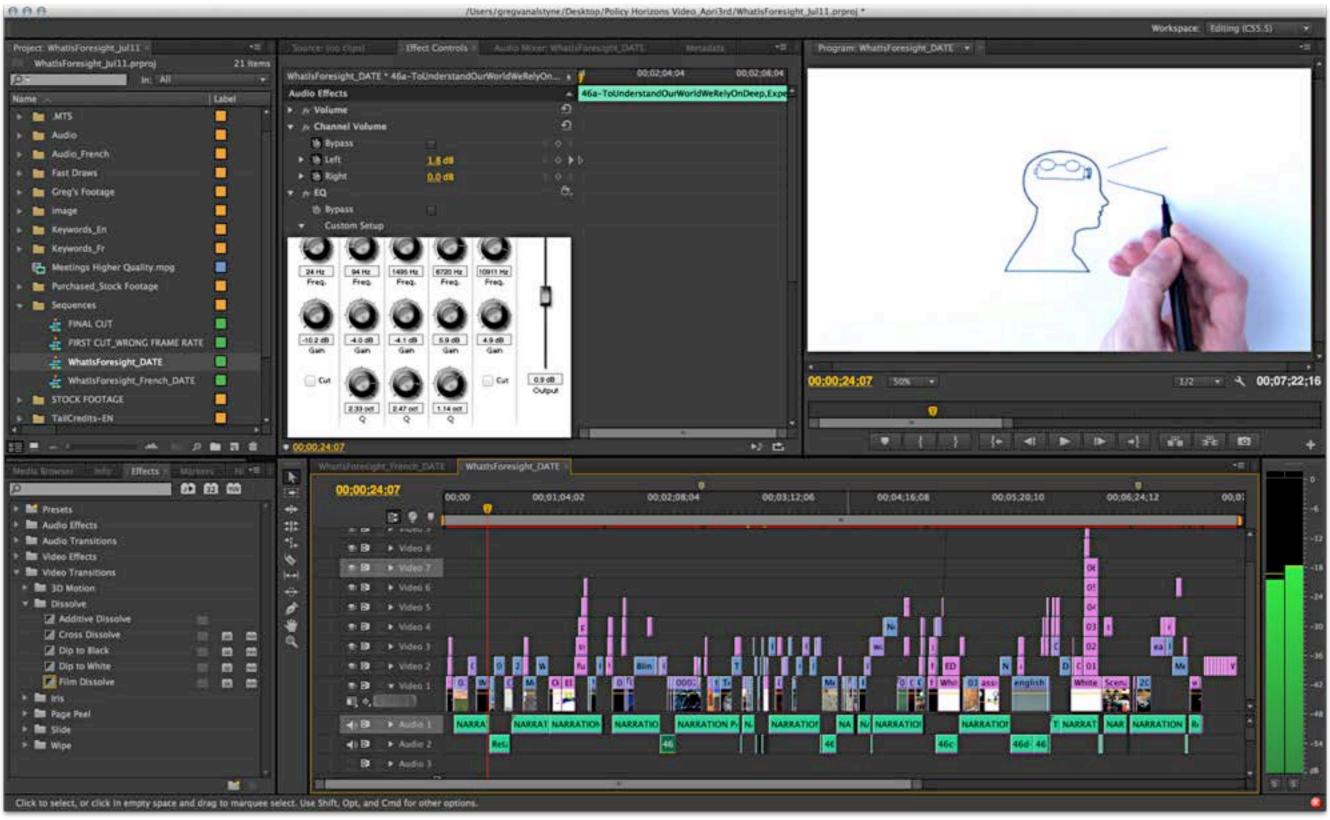
Planning and Scripting





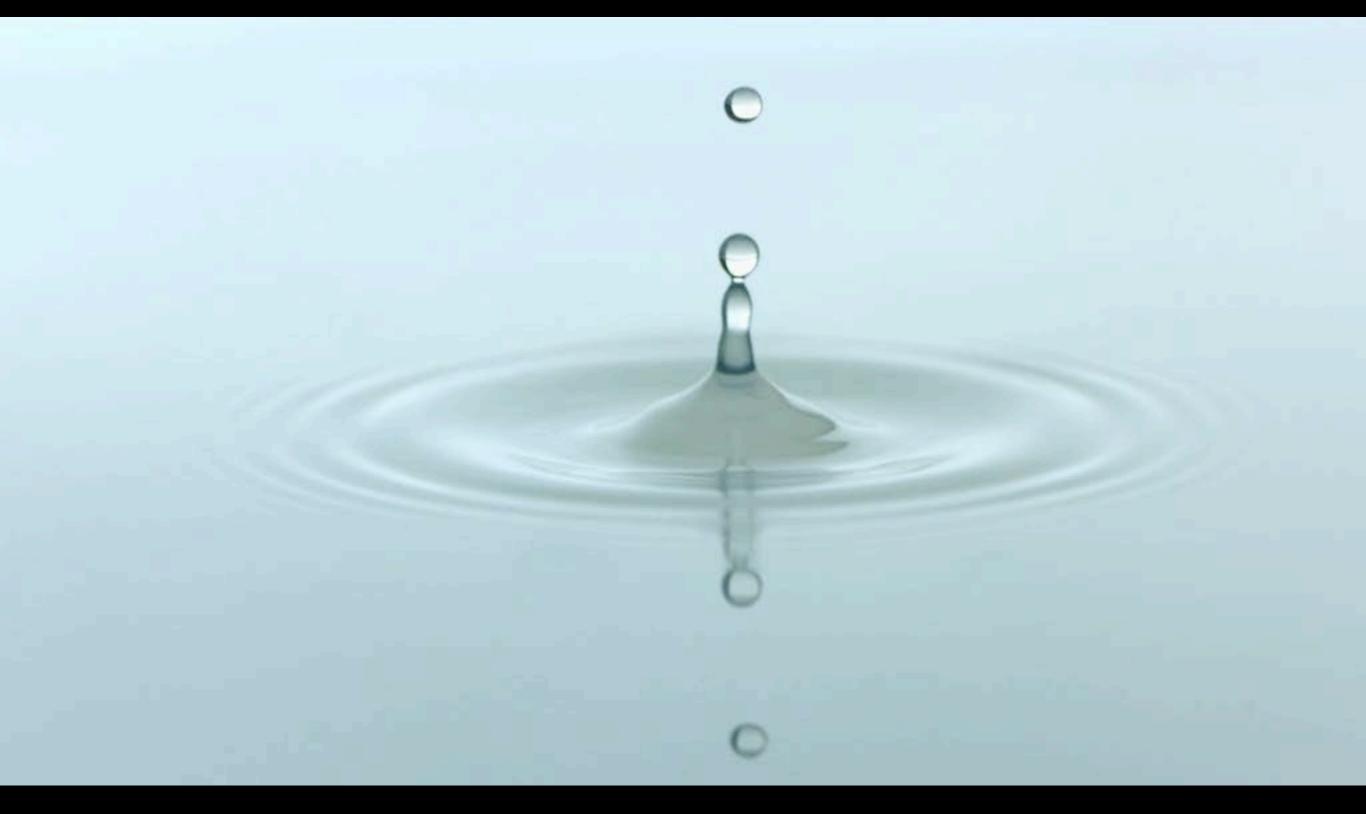
Shooting, Sharing, Curating, Editing





What is Foresight? (excerpt) Policy Horizons Canada and sLab with Zancom Media





Co-creating Foresight Culture in Government | WorldFutures 2013, Chicago

Greg Van Alstyne | sLab | OCAD University

sLab researchers on these projects



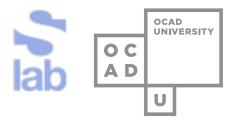
OCAD Faculty

Jeremy Bowes Nabil Harfoush Peter Jones Helen Kerr Lenore Richards Suzanne Stein Greg Van Alstyne

Research Assistants

Alex Appugliesi Madeline Ashby Zan Chandler Bev Dywan Jazeen Hollings Uma Maharaj **Richard Norman** Chloë Philip Karl Schroeder Petri Tanninen Rob Tilley Jonathan Veale Josina Vink

Thank you! More information:



Economic Futures for Ontario 2032 Internal project, not for publication.

SSHRC Panel on Urbanization through 2030 http://slab.ocad.ca

Policy Horizons Canada "What is Foresight?" Video http://www.horizons.gc.ca (coming soon)

Greg Van Alstyne gvanalstyne@faculty.ocadu.ca