

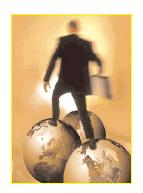
Measuring Foresight Impacts

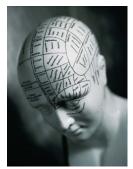
European Foresight
Platform
September 27-28 2012

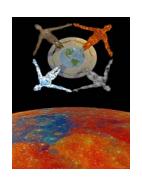
Jack Smith,
Telfer School of Management,
University of Ottawa
and
TFCI Canada Inc.



A key recurring challenge has been how to demonstrate the value of foresight investments for government sponsors and stakeholders - who are mindful of accountability, value for government mandates and comparative costefficiency and cost-effectiveness with other prospective applications of limited government funds.









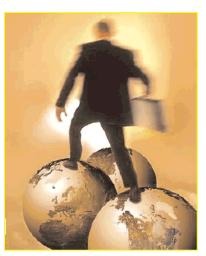
Implications for Government Led Foresight

- More Governments (adopting, supporting, leading)
- Critical Success Factors
- Systemic Foresight with more methodological diversity
- Integrated Foresight better alignment with Policy Cycle
- Measuring Foresight Impact











Systemic Foresight; Integrated Decision Support Methodology



SFM as a conceptual base for the design, organization and deployment of Integrated Foresight + Intelligence + Business Analytics exercises

Systemic Understanding

Creates shared understanding and mutual appreciation of issues at hand

Systems Synthesis and Modeling

Scanning is translated into conceptual models of the situations involved in the real world

Systemic Analysis and Selection

Analyzes the alternative models of the future and 'prioritizes' them, to create agreed model of "the future" i.e. multiple, plausible, contingent;

System Transformation

Establishes the relationship between the future and the present for a change program - applies Intelligence to rigorously analyze foresight results

Systemic Action

Creates plans, and applies Business Analytics
Dashboard to inform present day decisions for
immediate change to provide structural and behavioural
transformations



Manchester Foresight Framework

3

Mental Acts & Methods Understanding | Synthesis & Transformation Actions Analysis & Models Selection SWOT Information/Creativity/Expertise Scanning Gaming Backcasting Priority Lists analysis Multi Criteria Critical/Key Scenario Road Bibliometrics planning analysis Mapping technologies Wildcard Cross Impact Relevance R&D Literature review analysis analysis planning trees Prioritisation Action Interviews Weak signals Logic Charts / Delphi planning Operational Scoring Linear Trends/Drivers Modelling Indicators / Rating programming planning System Benefit/Cost Strategic Impact Systems simulation Risk analysis analysis planning assessment **Panels Panels Panels Panels** Panels Conferences Conferences Conferences Conferences Conferences



Saritas-Smith Systemic Foresight Model 2011-12

Phases, Functions, Activities and Methods for Agile Foresight Learning

i5 Phases	INTELLIGENCE	IMAGINATION	INTEGRATION	INTERPRETATION	INTERVENTION
Functions	Scoping / surveying	Creative phase	Ordering phase	Strategy phase	Action phase
Activities	Survey, scan, evidence	Concept model, visions,	Priorities, analysis, negotiations	Agendas, strategies	Plans, policies, actions
		scenarios	J		
Diverge nt Methods (more open,	EHS – Environme nt-al Horizon Scanning	AFV – Alternative Future Visions	STH – Six Thinking Hats	FPE – Forward Policy Engagement	RBD – Robust Decision Making
creative)	SOP – State of the Play in the futures field	ISS – Interactive Scenario Strategies	EPS – Expert Panel Synthesis	FDM – Foresight Decision Models	ARI – Accelerating Radical Innovation
	SFI – State of the Future Index	CSA – Causal Layered Analysis	SBC – Situational Back Casting	CIA – Cross Impact Analysis	THI – Triple Helix Integration
Converg ent method	CTI – Competitiv e Technical Intelligenc e	ABM – Agent Based Modelling	CSF – Critical Success Factors	TRM – Technology Road Mapping	CTG –Critical Thinking Game
s (more specific, quantita tive)	STM – Statistical Trend Modelling	SAG – Simulation and Games	RTD – Real Time Delphi	TSA – Technology Sequence Analysis	APM – Action Priority Matrix
	TDM – Text Data Mining for Technolog y Insights	GFI – Genius Forecasting and Intuition	CSC – Computerise d Scenario Comparison s	FRT – Factor Relevance Trees	CKT – Critica & Key Technologies



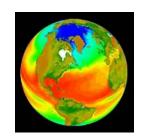
Measuring Foresight Impact

- 2009-2011 meetings of the Govt Foresight Leaders Forum – Hartwell House UKFO; OECD Paris; Policy Horizons Canada;
- Foresight Success Vignettes;
- APEC Center for Technology Foresight Bangkok International Advisory Board;
- Special Issue of Foresight Volume 14 #1 February 2012; Foresight Impacts Around The World; (incl: lan Miles, Ron Johnston, NISTEP, Calof & Smith, Riel Miller, Michael Jackson & more
- September 2011: Foresight Impact Measurement Instrument TFCI Canada Inc.





Foresight and Policya Symbiotic Relationship



Foresight is varied and has many distinct stakeholders – so we need multiple measures to assess performance and measure impacts; The TFCI – Telfer School instrument relies upon 7 groups:



- Roles that foresight plays for business, government and academia;
- **2. Benefits** that can be realized by foresight sponsors, participants;
- **3.** Critical Success Factors how well designed, planned, aligned wit sponsors, clients knowledge opportunities etc.
- **4. Meta Measures** e.g. degrees of learning, awareness, exposure to new ideas etc.
- **5. Pre-Policy Measures** how foresight provides direction, insights, strategies for R&D, policy options- analysis;
- Policy Support Measures ways that foresight provides ongoing support for policies and their implementation;
- **7.** Post-Policy Actions, Communications, where foresight helps ensure ongoing credibility, adaptiveness of policies.



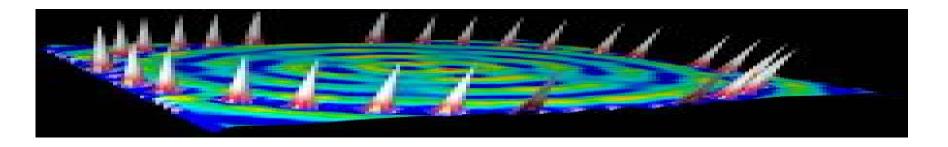






Key Roles Perspective (R. Johnston)

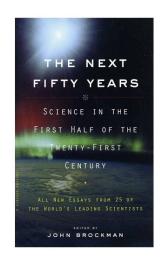
Table 1. Foresight Value Roles & Clients					
Key Role & Clients Impacted	PM, Minister	Political Advisors	Senior Govt Executives	Govt Policy Advisors	Public Opinion Leaders
1. Awareness raising					
2. Informing	Each stakeholder group will have different				
3. Enabling					
4. Influencing	emphasis on each domain				
5. Evaluating					





Benefits Perspective (Yuan et al)

Table 3. Foresight Benefits Perspective			
Foresight Benefits Categories	Benefits Who Most?		
1. Generating national strategy			
2. Prioritising resources			
3. Changing existing institutions and building partnerships among	From a government viewpoint, the benefits		
actors	are quite widely		
4. Enhancing intelligence systems and stimulating the exchange of	distributed. The		
information	impact framework includes all of these		
5. Building early warning systems	measures, but in a		
6. Communication and coordination	manner aligned with		
7. Propelling societal learning processes	the policy staging familiar to		
8. Knowledge management	governments. Still, it		
9. Stimulating innovative policy making	is important to disaggregate benefits		
10. Enhancing the environment for innovation	or impacts by distinct		
11. Impacting on organizational strategy	client or stakeholder group.		
12. Impacting on new product –service development.	διοαρ.		



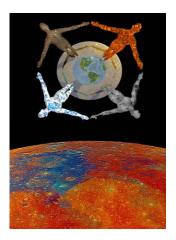


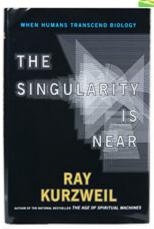


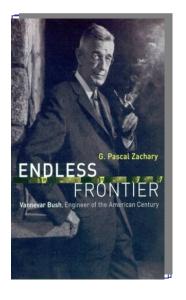






Table 2. Government Foresight Critical Success Factors & Impact Context			
Critical Success Factors	Context for Impact Analysis		
 Focus on a clearly identified client 	Each client will have unique impact priorities - the framework presented in Table 4 broadly addresses the diversity		
 Establish a clear link between foresight and today's policy agenda 	The nature of the impact will depend upon the stage and emphasis of the policy agenda - the framework identifies four relevant stages, with measures unique to each stage.		
Nurture direct links to senior policy-makers	Champions are the key element and to build political - organizational support - for which demonstrated impacts of various kinds will be essential.		
 Create strong public- private partnerships 	There are a lot of choices for how one measures the effects of partnership- the framework explores several methods or measures.		











Critical Success Factors Perspective (5-8)

Table 2. Government Foresight Critical Success Factors & Impact Context

•	Develop and employ
	methodologies and skills
	that are not always used in
	other departments

This "useful novelty" feature of foresight suggests the need for comparative impact measures as well - a theme also explored in the draft impact framework.

 Ensure a clear communication strategy

Measuring impact through the assessment of how effective one's communications are, is clearly relevant to the larger issues of why and how foresight adds value through impacts.

 Integrate stakeholders into foresight programs

Impact analysis should be two way- combining both effects on foresight operations from having stakeholders involved and impacts on them as well

 Take advantage of or create a national-local academic receptor and training capacity.

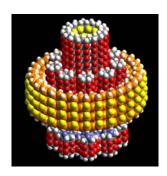
Ultimately, impact involves extending influence and learning beyond those most directly affected, hence the relevance over an extended time period for having an academic and training dimension included





Building A Foresight Impact Measurement Framework

Meta Measures				
Learning & Education (L&E)	Foresight essentially is a learning process- each foresight project educates someone, and usually all participants.	e.g. Testimonials, anecdotes, resonant personal and institutional stories, evidence of new skills mastery, recognition of terms, stages and insights; calls for advice by leaders based upon past work; reputation for new insights-education. Add your measures here		
Training & Skills Development (T&S)	Foresight is often motivated by sponsors wanting to strengthen readiness, resilience and preparedness skills	e.g. Courses, seminars, training sessions attended; enhanced abilities and capabilities as described by stakeholders, clients, champions; certificates of proficiency, acceptance by professional societies such as the APF.		
Strategic Directions (S&D)	Foresight is often initiated to provide guidance, to initiate change in direction, priorities etc.	e.g. Acceptance of new strategies by one's organization; assignments to strategic teams; evidence of foresight in adopted priorities; new direction with foresight derived origins.		
Risk – Uncertainty Reduction (R&U)	Foresight is a key tool for risk assessment, and management of uncertainty.	e.g. Statements of risks linked to future uncertainties and the (foresight)process of determining levels of perceived risk and management approaches to these risks.		
Design & Planning (D&P)	Foresight is closely aligned with design and planning	e.g. Recognition, evidence and examples of how foresight can or did provide resilience in the form of contingency design and planning for those aspects of design and planning which are inevitably uncertain.		









Pre - Policy Developmental Measures

Research & Development Priorities	2-4	2.85
New Insights & Knowledge	2-5	3.30
Adding Creativity, Invention & Imagination	1-5	3.58
• Contribute to Policy Research, Options-Analysis	1-5	3.40
Educate Leaders on Foresight -Policy Issues	1-5	3.12
Affect Attitudes & Beliefs	2-5	3.25
Develop Connections & Networks	2-5	4.33

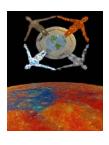




Policy Support Measures

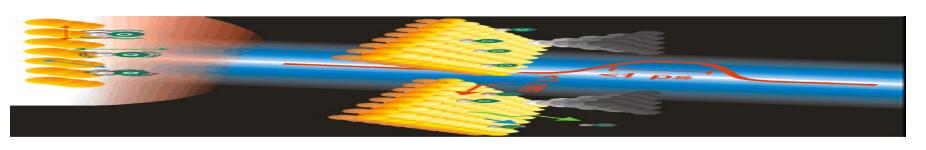
• Stakeholder Engagement & Characterization	1-5	3.42
• Framing Policy Issues, Options &	1-5	3.36
Decisions	2-5	3.41
Validation & Legitimacy Advise for Policy Champions	2-4	3.32
Advice for Policy ChampionsChange Factor Analysis	2-5	3.39
Socio-Economic Threats &	2-4.5	3.25
Opportunities		
Filter for Future Robustness	2-4	3.19
Manage Complexity, Ambiguity &	2-5	3.83
Horizontal Issues		





(Post)Policy Implementation Measures

• Communication Channels – Identification , Interface	1-5	3.09
 Public and Professional Perception and Appreciation 	2-5	2.92
• Innovation, Integration and Implementation Dynamics	2-5	3.33
• Infrastructure Alignment , Resilience	1-4	2.91
Organizational Development, Adaptation and Renewal	2-4	3.37
Media Attraction and Messaging	2-4	2.72
Appeal to Prospective Staff	3-4	3.11
• Lens for Evaluation, Assessment of other Tools	1-5	3.28





Highest & Lowest Impacts – 54 Measures



Top Five Impacts

# 38 Develop Connections & Networks	2-5	4.33
# 1 Awareness raising	1-5	4.27
#12 Integrate stakeholders into foresight	2-5	4.25
programs		
# 10 Develop and employ methodologies	1-5	4.15
and skills that are not always used in		
other departments		
#31 Seeding opportunity and innovation -	1-5	3.87
creating strategic directions		



# 15 Prioritizing resources	1-5	2.43
# 6 Focus on a clearly identified client	1-4	2.58
# 52 Media Attraction and Messaging	2-4	2.72
#8 Nurture direct links to senior policy-makers	1-4	2.73
# 27 Training & Skills Development	1-4	2.77

