valuating ommunity mpact CAPTURING AND MAKING SENSE OF COMMUNITY OUTCOMES





Special thanks to our event partners



Saskatoon Poverty Reduction Partnership





Office of Community Engagement and Outreach



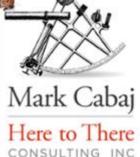
United Way Saskatoon & Area











TAMARACK

#ECISASK2017

www.tamarackcommunity.ca



Module 9:

Contribution Analysis



#ECIHAM2016

www.tamarackcommunity.ca

Find an example of where you are wondering if your efforts or intervention had some influence on a community change or result.



#ECISASK2017



"Dear Mr. Gandhi, We regret we cannot fund your proposal because the link between spinning cloth and the fall of the British Empire was not clear to us."

> Written by M. M. Rogers and Eliastrated by Artic R. Fatzal, Wabyu S., Ary W.S. Creative team for Search for Common Ground in Indonesia



Main Ideas

- Social innovators and those who support them want to get a sense of the extent to which their **activities are responsible** for hoped for outcomes, results or changes.
- The traditional approach to assessing attribution ' experimental designs, including randomized controlled trials are impractical except in a few niche situations.
- The alternative is contribution analysis, an approach that is in early phase of development.
- The contribution analysis **framework includes five steps** with examples, techniques and principles that can guide other contribution analysis innovators.
- It will take a lot of practice and peer sharing to more fully develop a strong pattern of contribution analysis practice.



#ECISASK2017

www.tamarackcommunity.ca

The Challenge

Table Exercise

- From 1974 to 1989, incidences of violent crime increased 80% in the US. Within years, dropped back to levels not seen since 1950s.
- What are the top three reasons for this drop?



Popular Crime Drop Explanations in Media and Research

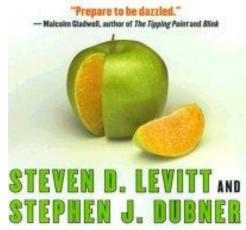
Crime Drop Explanation	Number of Citations
1. Innovative Police Strategies	52
2. Increased Reliance on Prisons	47
3. Changes in crack/drug markets	33
4. Aging of population	32
5. Tougher gun control	32
6. Strong economy	28
7. Increased # of police	26
8. All other (capital punishment, concealed weapons laws, buybacks, etc.)	34



Results of Contribution Analysis

- Top Three Likely Reasons:
 - Crack Bubble Bursts a key driver of violent crime.
 - Tougher prison sentencing prevents existing offenders from reoffending (for the time being). .
 - Wade Versus Roe =Reduction in the number of at-risk young men – demographic dip and legalized abortion

FREAKONOMICS A ROGUE ECONOMIST EXPLORES THE HIDDEN SIDE OF EVERYTHING



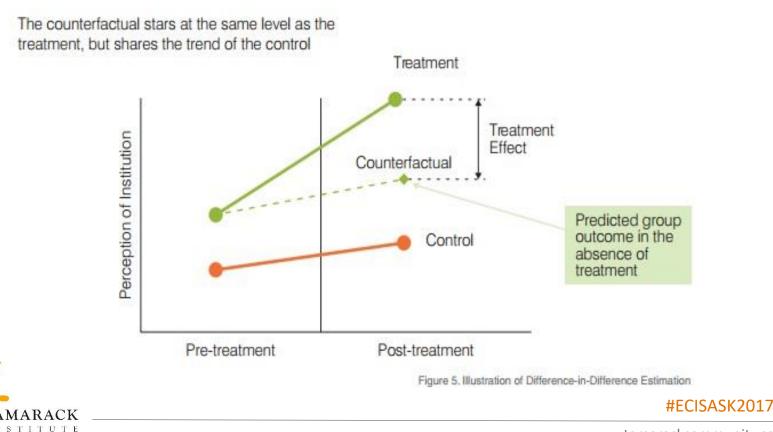


#ECISASK2017

www.tamarackcommunity.ca



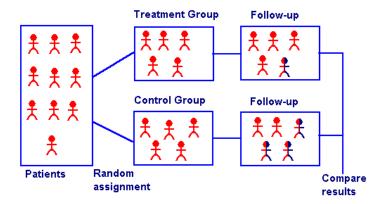
The Challenge: What would have happened in absence of the intervention (aka the counterfactual)?



www.tamarackcommunity.ca

The Traditional Approach: Attribution Analysis

- The traditional approach to establishing the counterfactual or assess attribution, is experimental design, used to be the widely accepted 'gold standard'.
- Experimental designs are impractical, except in a few niche situations, because of costs, time, requirements imposed on intervention, ethics and complexity of many community change interventions.



Experimental Methods

- Randomized Controlled Trials
- Quasi-Experimental Designs
- Comparison Groups
- Various Statistical Models & Techniques

The Alternative

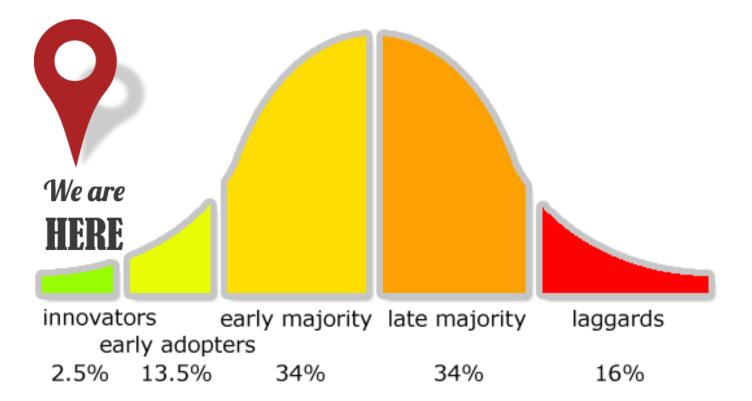
Attribution Versus Contribution

Attribution	Contribution
Attribution Analysis	Contribution Analysis
Employs a narrow-angle lens that assumes a linear cause-and-effect relationship between intervention activities and observed changes.	Embraces a wide-angle lens on the non-linear cause-and-effect relationships between intervention and non-intervention factors that influence changes.
Asks: To what extent did out intervention cause the change?	Asks: To what extent did our intervention contribute to the change?
Seeks to prove the link between activities and change.	Seeks to establish a plausible link between the intervention and change.
Privileges experimental design as the 'gold standard' methodology.	Emphasizes triangulation of methods and stakeholder verification of findings.

"Far better an approximate answer to the right question, which is often vague, than an exact answer to the wrong question, which can always be made precise."

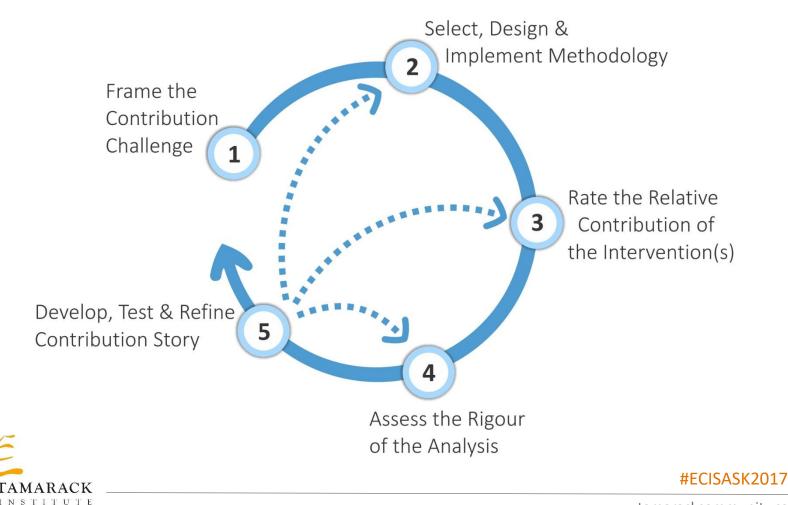
John Tukey, Mathematician

Early Days in the Practice



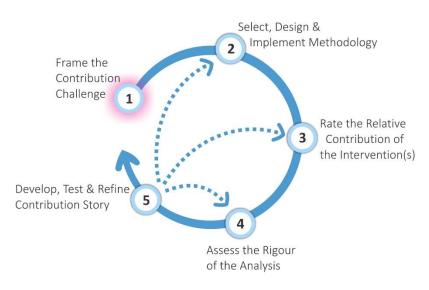






www.tamarackcommunity.ca

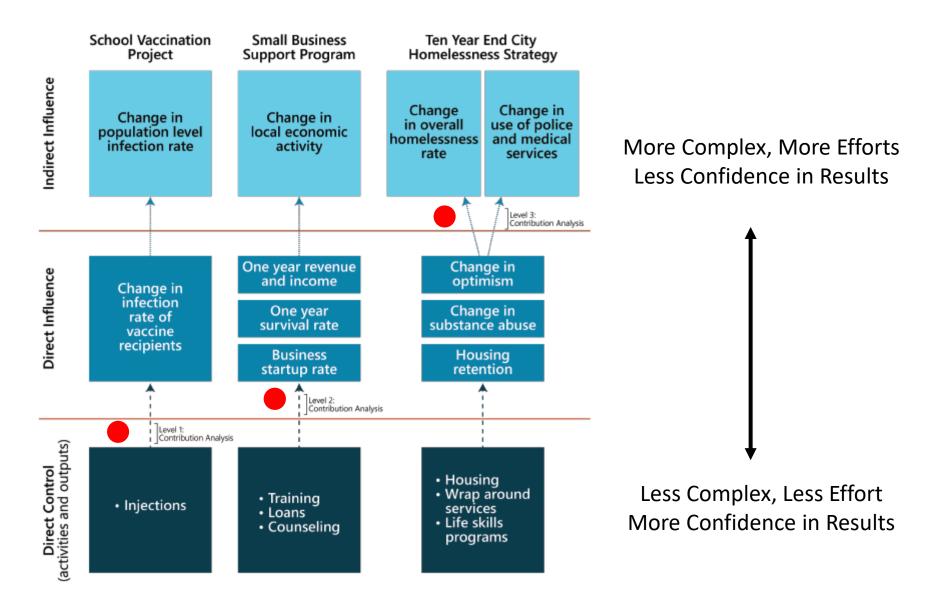
Step 1: Frame Contribution Challenge



Tasks

- Select the outcome(s) for which you want to assess contribution.
- Determine if they are direct or indirect analysis.
- Confirm audience and implications for assessment.

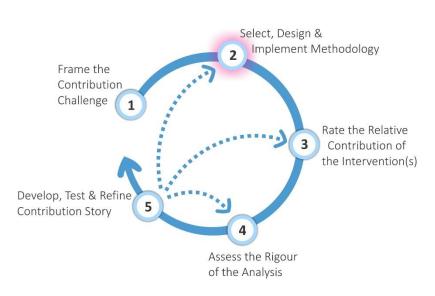
Task: Select Outcomes & Level of Analysis



Task 2: Confirm User & Use

Туре	User/Use	Implications	
Developmental or Formative	To help innovators get feedback to affirm or guide changes in direction.	Internal document; level of rigor requires varies.	
Summative	To determine the merit or worth of an intervention.	External document: high level of rigor and transparency required.	
Accountability or Marketing	To demonstrate progress and/or secure more resources to external bodies (e.g., funders, policy makers, public).	Greater level of suspicion about the credibility of results; third party verification important; important to be careful about claims.	

Step 2: Select Method



Tasks

- Select methodology.
- Design, implement and adapt.

#ECISASK2017

#1: Stakeholder Assessment: (aka The Journalist)





Aim

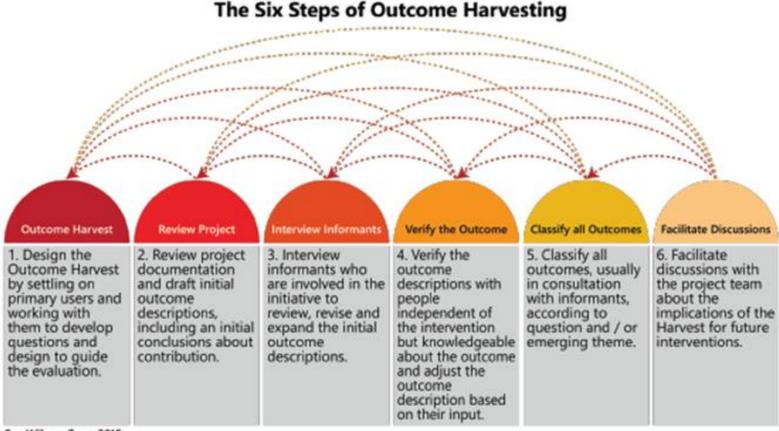
• To engage stakeholders in assessing the relative contribution of an intervention to an observed outcome.

Steps

- 1. What are the possible factors underlying this outcomes?
- 2. Which ones based on our evidence can be eliminated?
- 3. Which explanations are the most compelling?

#ECISASK2017

Example: Outcome Harvesting



See Wilson-Grau, 2015

Source: http://outcomeharvesting.net/



Chakua Hatua: Tanzania 2012/13

The Chukua Hatua (CH) is a five-year governance and accountability initiative being implemented by Oxfam GB and partners in five regions in Tanzania. The goal of Chukua Hatua is to increase the accountability and responsiveness of government to its citizens. The programme aims to achieve this by creating active citizenship; that is citizens who know their rights and responsibilities, are demanding them, and are able to search for and access information. The programme's approach rests on three key assumptions:

 If we build citizen's awareness and capacity, assist them to overcome fear, and action is in the interest of their livelihoods, then they will act.

2. If there is increased pressure from citizens, then duty bearers will be increasingly compelled to respond.

3. If we increase capacity of local elected leaders then the proportion of positive responses to citizens will increase.

The Chukua Hatua programme has been continuously evolving since its inception, in response to changes in the context and learning about what works and what doesn't.

Sample of Outcome Contributions

Outcome	Rating	Commentary	Contribution of other evidenced explanations (high, medium, low)
Outcome 1: Councillors more responsive and aware		Outcome realised in full & evidence that intervention made a crucial contribution	The outcome would not have occurred without CH. Other contributing factors: High profile of public accountability issues (medium) Existence of traditional accountability systems (medium) Other NGOs (medium) Implementing partner experience (medium) Laws and guidelines (medium) Community project funds (low) Timely planning guidelines (low)
Outcome 2: Animator mobilisation		Outcome realised in part & evidence that intervention made a crucial contribution	The project was crucial in securing the outcome and for pace and extent of outcome achievement, building on base of past training of animators Other contributing factors: Past and current inputs of other NGOs (medium) Animator experience (medium) Responsive leaders (medium) Existence of traditional accountability systems (medium) High profile of public accountability issues (low)
Outcome 3: Community forest ownership		Outcome realised in full & evidence that intervention made a crucial contribution	The outcome would not have happened without CH. Other contributing factors: Prior NGO inputs on land rights (medium) Councillor inputs (medium) High profile of public accountability (low) Prior village sensitisation / mobilisation (low)

#2: The General Elimination Method (aka Detectives)



Aim

 To trace the 'factors' that may have led to an outcome or event and then systematically eliminating factors – one by one until the most compelling explanation(s), supported by the evidence, remains.

Steps

- 1. What are the possible factors underlying this outcomes?
- Which ones based on our systematic review of evidence can be eliminated?
- 3. Which explanations are the most compelling?

#ECISASK2017

Method: Process Tracing

#1: Set Context & Surface Hypotheses

Table 2 Overview of "Silver Blaze"

Causal Puzzle

To explain the murder of John Straker and, secondarily, the disappearance and whereabouts of the racehorse Silver Blaze.

Main Characters

Silver Blaze, the racehorse that is the favorite for the Essex Cup, has disappeared.

John Straker, the horse's trainer, has been killed by a terrible blow that shattered his head.

Fitzroy Simpson, a prime suspect, has been lurking around the stable seeking inside information about the race.

Ned Hunter, a stable boy, has been drugged with opium concealed in curried mutton. He therefore fails to guard Silver Blaze on the night of the horse's disappearance.

Colonel Ross is the owner of King's Pyland Stables and of Silver Blaze.

Hypotheses

Independent Variables

- H1. Romantic entanglement started chain of events
- H2. Chain of events started in Straker household
- Intervening Variables H3. Straker abducted horse H4. Straker planned to harm horse

H5. Straker practiced the injury

- Dependent Variables
- H6. Simpson killed Straker
- H7. Straker killed himself
- H8. Horse killed Straker

#2: Review evidence, spot clues and dig.



#3: Draw Conclusions



Straw in the Wind: maybe, investigate further.



Hoop Test: promising, keep looking.



Smoking Gun: points in this direction.



Doubly Decisive: appears conclusive Example: NGO Efforts to Advocate For a Specific Supreme Court Decision in the USA

Evaluation Conclusion

Based on a thorough review of the campaign's activities, interviews with key informants and key knowledgeables, and careful analysis of the Supreme Court decision, we conclude that:

The coordinated final-push campaign contributed significantly to the Court's decision.





#ECISASK2017

Method #3: Counterfactual Scenarios (aka Time Machine Travelers)



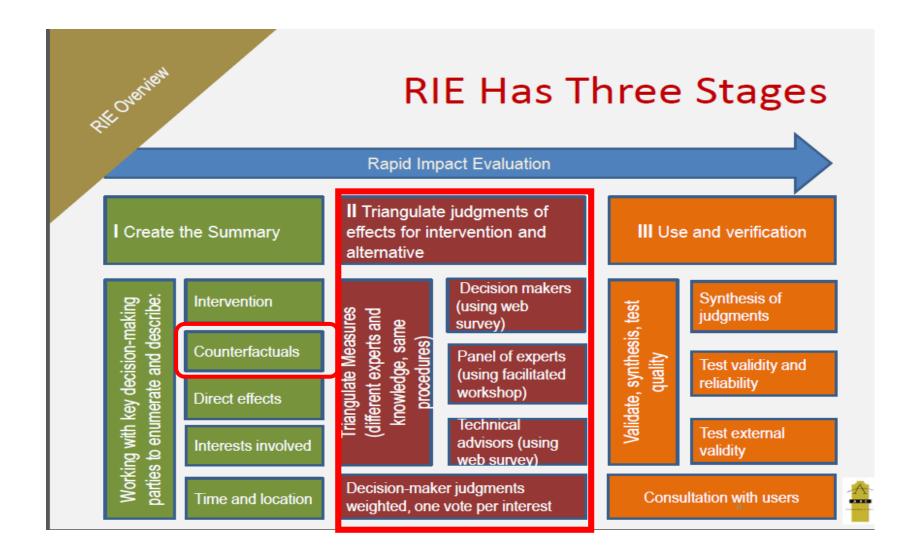
Tested in refugee resettlement programs, climate change, sustainable development, public health, with the Federal government. Aim

 To explore 'counter-factual scenarios' that are logical, plausible, feasible and likely to imagine what else may or may not have occurred by 'triangulating' the perspectives of stakeholders, experts and decisionmakers.

Questions

- What are other plausible scenarios – including 'do nothing for how we could have approached this challenge?
- 2. What are the estimated (direct) effects of each scenario?
- 3. What is the difference between the scenarios?

Example: Rapid Impact Evaluation



Producing Estimates

Producing Our Estimates

0

Each expert in the three groups judges probability and magnitude for each effect for intervention and alternative

Weight so each interest has one vote, combine probability and magnitude to form an index for each effect and for each expert group, calculate difference between intervention and alternative for each effect to estimate change attributable to intervention

Using external knowledge sources identify and weight effects by relative contribution to impacts, combine to estimate impacts expressed as a % change attributable to the intervention

Assess validity of estimates of effects and impacts using external data and consultations

Estimates of changes in impacts attributable to intervention and quality of estimates







Example: Addressing Collapse of Fish Stocks In a Region of Fiji

Nothing 00

There is an ad-hoc approach to fishery management, with community piggeries generating waste into water system, the uncontrolled cutting of mango trees, and mismanaged local and regional harvesting of fish.

Establish and enforce a (no take) zone on the reefs, prevent poaching by local and outside fishers, stop dynamic fishing, yet allow for ceremonial harvests of select species.

Mgmt

ocal Fisheries

Offer fishing community technical assistance for resource management and new harvesting methods, conduct regular stock assessments on reel and shoulder areas.

International NGO funded to enforce a no-take zone, with support from conservation authorities.

rvatio Entry would be permitted for traditional or ceremonial purposes, but no harvesting **(**) would be allowed. Š

National government is cooperative, with resistance and possibly non-compliance - from national fisheries, local community and national politicians..



Method #4: Theory Based Evaluation (aka The Scientist)





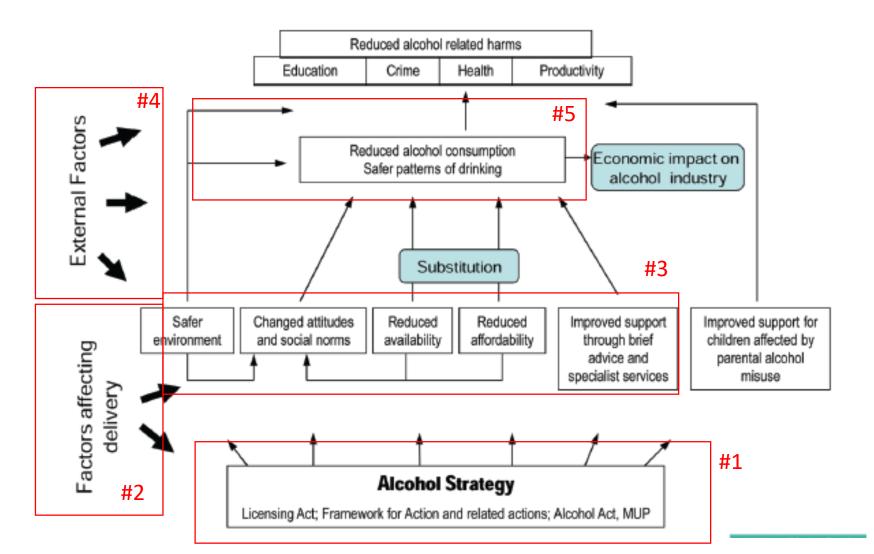
 To explore the extent to which a group's theory of change – or other factors – provides a reasonable explanation for observed outcomes.

Questions

- 1. What is our theory of change? Is it plausible?
- 2. To what extent did our theory unfold as planned?
- 3. To what extent are the key elements confirmed by new or existing evidence?
- 4. To what extent have other influencing factors been identified and account for?
- 5. To what extent have the most relevant alternative explanations been disproved?

Reports from this evaluation can be found at http://www.healthscotland.com/scotlands-health/ evaluation/planning/MESAS.aspx

cominຮັ



Conclusion

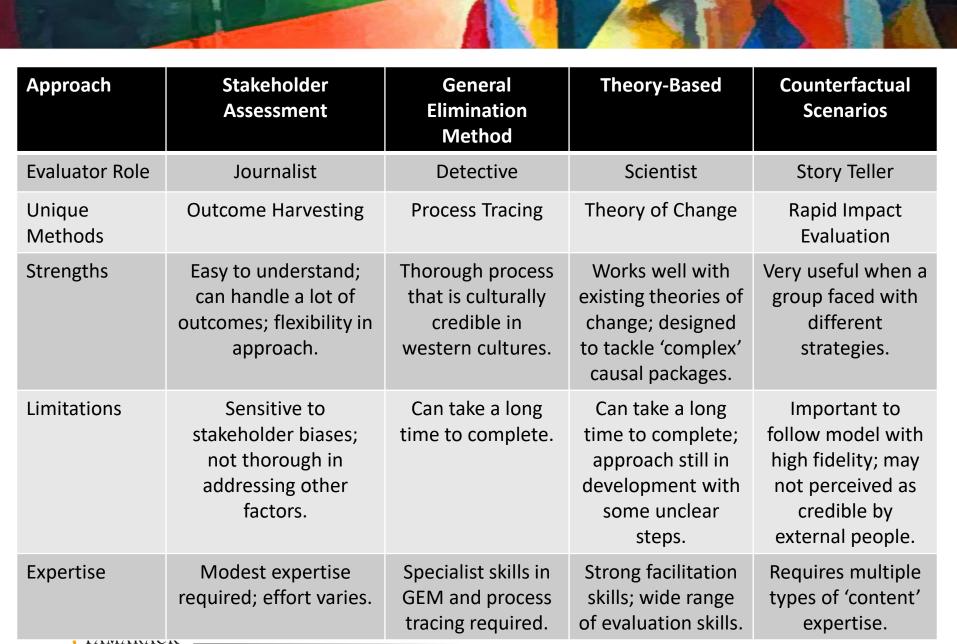
Alcohol-related harm in Scotland has declined in recent years. There was evidence that the evidence-based interventions studied were implemented, although there were difficulties operationalising some aspects. There was evidence of impact on several of the intermediate outcomes, although lack of data and/or data limitations meant impact was not assessable for others.

Two factors external to the strategy were considered to have made a contribution to the mortality trends: falling disposable income (and hence alcohol affordability) for

people living in the most deprived areas, and a vulnerable cohort responsible for a wave of alcohol-related mortality, that increased in the 1990s and decreased from the mid-2000s as the cohort aged and died.

It was impossible to quantify precisely the impact of these external factors, nor determine the relative contribution of the external factors and the strategy to the declines. The declines in both mortality rates and hospitalisation rates have been much steeper in Scotland than England/England & Wales and, given the evidence-base, the strategy may be contributing to these improvements.

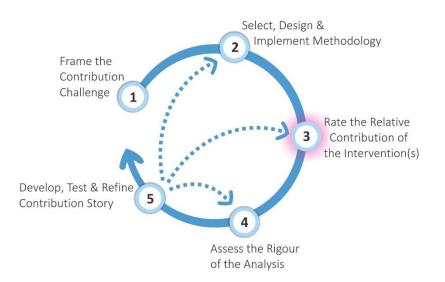
Despite these recent improvements, rates of alcohol-related mortality and morbidity in Scotland continues to be higher than in the 1980s and higher than England & Wales. Inequalities in alcohol-related harm persist, with those living in the most deprived areas, especially men, having the highest rates. There is, therefore, a continued need for action to further reduce alcohol-related harm in Scotland and to address these health inequalities. Minimum unit pricing has not been implemented and this is likely to have constrained the strategy's contribution to declining alcohol consumption and related harm. There is some evidence that the downward trends in both alcohol consumption (sales) and alcohol-related mortality may have stalled, with no decreases in 2013 and 2014. To say whether this marks the start of a longer-term change in trend requires continued monitoring.



INSTITUTE

www.tamarackcommunity.ca

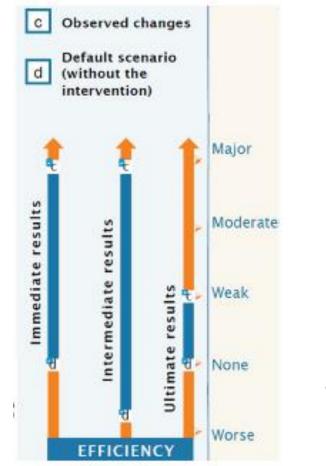
Step 3: Rate the Contribution

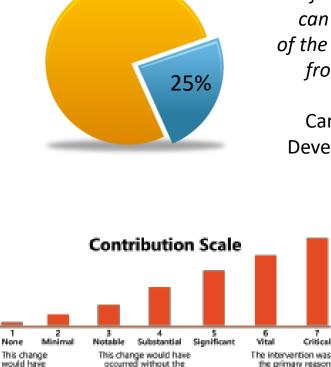


Tasks

 Assess the relative strength of the contribution of the intervention to the outcome(s).

Some Rating Options





intervention, but the

intervention influenced the

scale, quality, impact

of the change.

the change occurred

and the most powerful

influence on it's scale, quality and impact

happened

eithout the

intervention.

We feel that the program can claim 25% credit of the start-up businesses from this program.

Canadian Business Development Program

> Local partners felt that the contribution of Opportunities Niagara (a collective impact Group) to a new housing Project was a 6.5 out of 7.

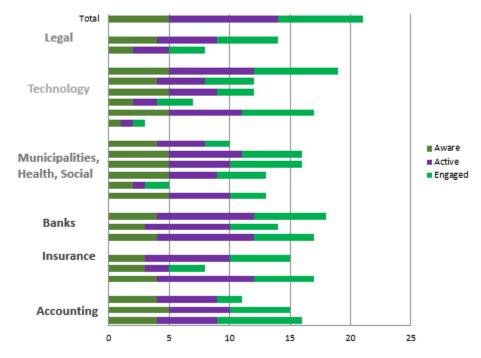
Our project had major contributions to immediate results and weak contribution to impact results. International Development Program

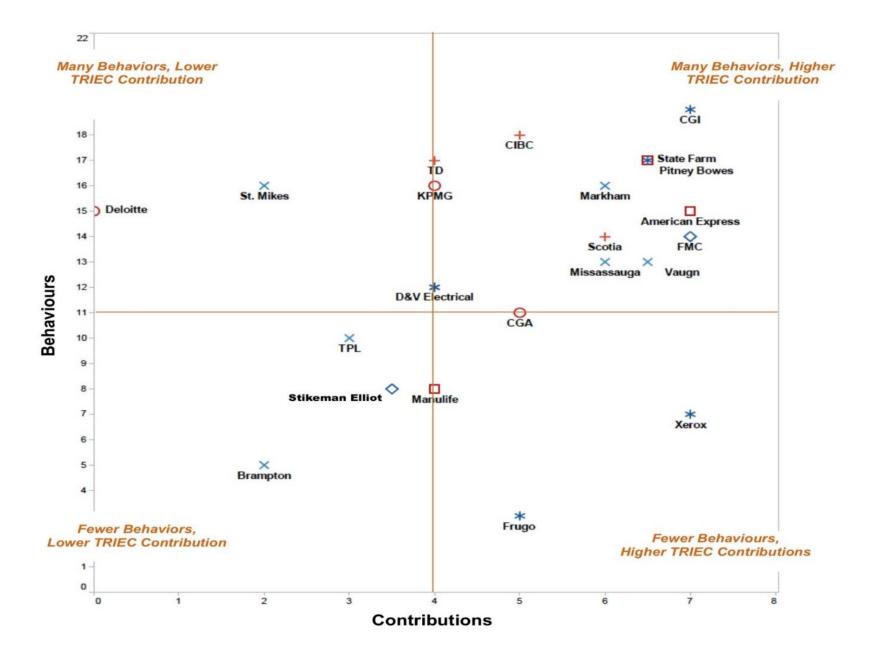
Local Heroes: CAW 199 Example: The Toronto Region Immigrant & Employment Council

> To what extent did TRIEC's cluster of programs and supports contribute To employers' efforts to learn more, hire and promote skilled immigrants?

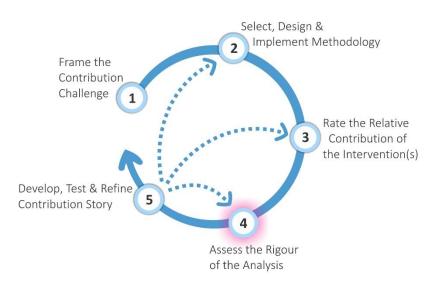


Survey Results: Employer Behaviours by Sector





Step 4: Assess Rigor (optional)



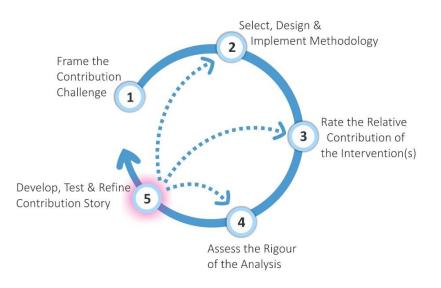
Tasks

 Assess the overall strength of the contribution analysis.

#1 Hypothesis Exploration: the extent to which t explaining observed outcomes.	the analysts consider multiple hypotheses in
Low Rigor: minimum weighing of alternatives.	High Rigor: incorporating multiple hypotheses and identifying best / most probably explanations.
#2 Information Search: the depth and breadth of	of the search process used in collecting data.
Low Rigor: does not go beyond routine and readily available data sources.	High Rigor: attempts to exhaustively explore all data potentially available.
#3 Information Validation Process: the level at v cross-validated.	which data sources are corroborated and
Low Rigor: little effort is made to use converging evidence to verify source accuracy.	High Rigor: a systematic approach for verifying information.
#4 Stance Analysis: the evaluation of data with to of the source and placing it into a broader conte	the goal of identifying the stance or perspective ext of understanding.
Low Rigor: analyst may notice a bias in the source.	High Rigor: research into data source background with the intent of gaining insight into how their perspective on the data or analysis.
#5 Sensitivity Analysis: the extent to which the a assumptions and limitations of their analysis.	analyst considers and understands the
Low Rigor: explanation seems appropriate and valid on the surface.	High Rigor: analyst employs a strategy to consider the strength of explanations if individual supporting sources were to prove valid.
#6 Specialist Collaboration: the degree to which domain experts into their assessment.	an analyst incorporates the perspectives of
Low Rigor: little effort made to seek out expertise.	High Rigor: analyst talks to, or may be, a leading expert in the domain area under study.
#7 Information Synthesis: refers to how far beyo analyst went in their process.	ond simply collecting and listing data an
Low Rigor: an analyst simply compiles the relevant information in a unified form.	High Rigor: an analyst extracts and integrates information with a thorough consideration of diverse interpretations of the data.
#8 Explanation Critique: refers to how many difference examining the primary hypotheses.	ferent perspectives were incorporated into
Low Rigor: little use of other analysts to give input into explanation quality.	High Rigor: peers and experts have examined the chain of reasoning and explicitly identify which inferences are stronger and weaker.

One Framework

Step 5: Develop Contribution Story



Tasks

 Develop a contribution story, test it with key stakeholders, and refine it based on feedback, include returning to earlier steps if necessary.

Elements of a Contribution Story

- The context of the intervention
- The causal package (factors and outcome) being analyzed
- The methodology & limitations
- The findings and claim
- Additional insights and questions







Main Ideas

- Social innovators and those who support them want to get a sense of the extent to which their activities are responsible for hoped for outcomes, results or changes.
- The traditional approach to assessing attribution ' experimental designs, including randomized controlled trials are impractical except in a few niche situations.
- The alternative is **contribution analysis**, an approach that is in early phase of development.
- The contribution analysis **framework includes five steps** with examples, techniques and principles that can guide other contribution analysis innovators.
- It will take a lot of practice and peer sharing to more fully develop a strong pattern of contribution analysis practice.



#ECISASK2017

www.tamarackcommunity.ca



1. An <u>innovator</u> willing to help build a contribution practice.

- 2. An <u>early adopter</u> keen to proceed once the practice and results are more clear.
- 3. A prospective <u>early/late majority</u> that is open to contribution analysis but will wait until the evidence, practice and ecology are firmly established.
- 4. A <u>skeptic</u> that would prefer overwhelming evidences to be convinced or has a 'funny feeling' about this.
- 5. Other

- What insights or questions (if any) emerged for you during this session?
- 2. Where might you employ contribution analysis in your evaluation scope of work?





Questions?





#ECISASK2017

www.tamarackcommunity.ca



tamarackcommunity.ca

Building a connected force for community change.

- Online Learning Communities
- Communities of Practice
- Monthly online seminars
- A monthly online journal Engage! magazine
- Face to face learning events

To learn more email: tamarack@tamarackcommunity.ca







www.tamarackcommunity.ca