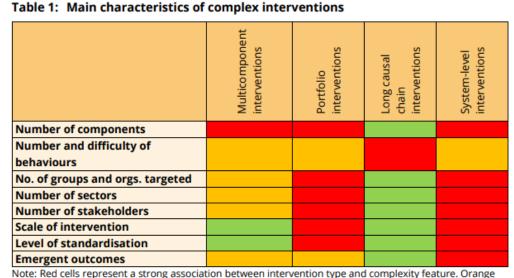
### Evolution; emergence; bricolage

Dr. Tom Aston, Independent

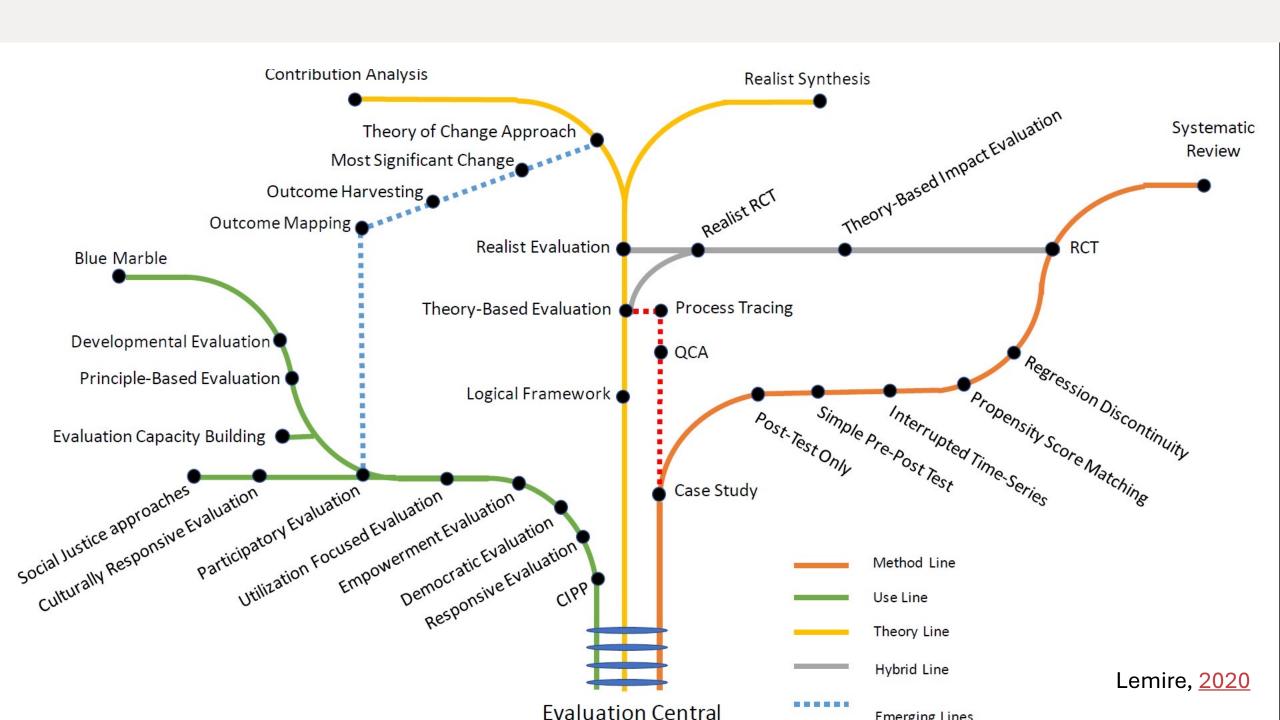
## The problem(s)

- Many evaluation practitioners are stuck with the issues of complexity
- There are a growing multitude of methods, and we don't always know which are best for our purposes
- How can we be both pragmatic and rigorous?



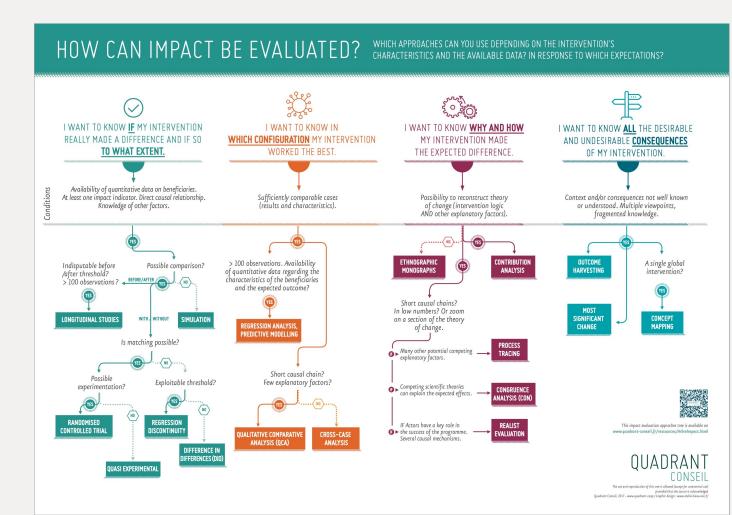
squares represent a moderate association. Green squares represent low association.

Masset et al. 2021



#### Evolution and emergence

- History of impact
   evaluation tells a story of
   evaluation more broadly
   (Delahais, 2022)
- A story of diversification, disruption, & hybridization

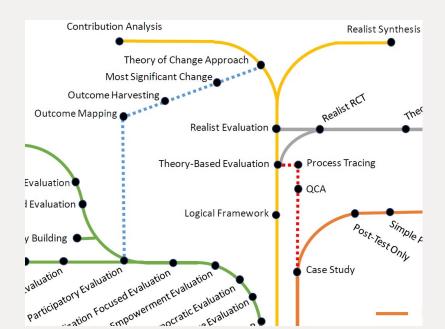


## **Emerging lines**

#### **Case Study**

- Qualitative Comparative Analysis
- Process Tracing

#### ... Theory-based evaluation



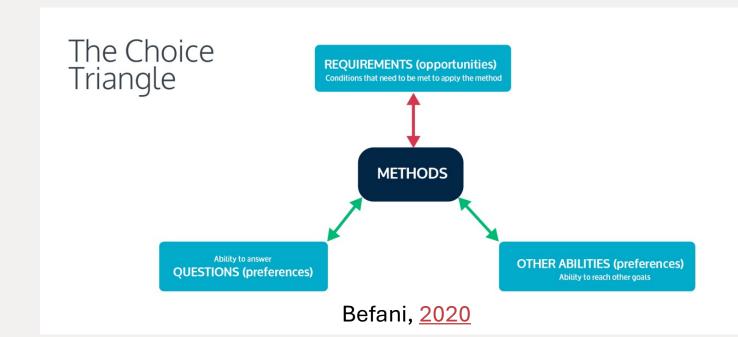
#### **Participatory Evaluation**

- Outcome Harvesting
- Outcome Mapping
- Most Significant Change

... Theory of change approach

#### Pause to think

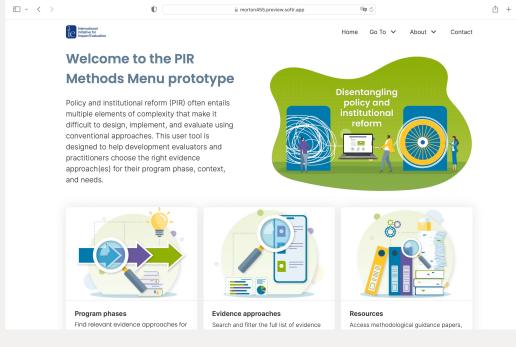
- How do you choose methods?
- What criteria do you use to choose those methods?



# Choosing between methods

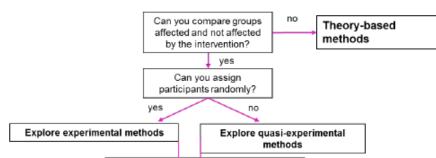
- Either/or options can be comforting, but misleading
- The common, but insufficient, answer proposed is "mixed methods"

A	В	С	D	E	F	G	Н	I	J	K	Ĺ	M	N	0	P
	RCT	Difference-	Statistical	Instrument	Outcome	Most	Soft	Causal Loop	PSM	BBN	ABM (Agent	Realist	QCA	Process	Contribution
IMMADV DECILITE ALL STAGES	(Randomised	in-	Matching	al Variables	Mapping	Significant	Systems	Diagram	(Participato	(Bayesian	Based	Evaluation	(Qualitative	Tracing/	<u>Analysis</u>
DIVINIANT RESULTS - ALL STAGES	Contol Trial)	Difference		(RDD)		<u>Change</u>	Modelling		ry Systems	Belief	Modelling)		Comparative	Bayesian	
									Mapping)	Networks)			Analysis)	<u>Updating</u>	
ge 1: Which Method is Best Suited to Answering My Key	1	00/100	60/100	1	20/100	40/100	20/100	20/100	20/100	60/100	90/100	20/100	40/100	20/100	20/100
luation Question(s)?	1	80/100	00/100	1	20/100	40/100	20/100	20/100	20/100	00/100	80/100	20/100	40/100	20/100	20/100
ge 2: Which method is most able to address my other	01/100	60/100	60/100	74/100	47/100	42/100	E7/100	E0/100	EE /100	E0/100	62/100	62/100	E0/100	E0/100	62/100
erests?	81/100	00/100	09/100	74/100	47/100	43/100	3//100	39/100	33/100	39/100	62/100	62/100	30/100	39/100	62/100
ge 3: Which Method has the fewest essential methodological															
uirements that cannot be met by my intervention? (Which	6	6	6	4	0	0	0	0	0	0	0	0	0	0	0
thod is most feasible to use?)															
8 8	IMMARY RESULTS - ALL STAGES  (e 1: Which Method is Best Suited to Answering My Key uation Question(s)? (e 2: Which method is most able to address my other rests? (e 3: Which Method has the fewest essential methodological uirements that cannot be met by my intervention? (Which	IMMARY RESULTS - ALL STAGES  [Randomised Contol Trial]  19: 1: Which Method is Best Suited to Answering My Key uation Question(s)?  10: 2: Which method is most able to address my other rests?  10: 3: Which Method has the fewest essential methodological uirements that cannot be met by my intervention? (Which	IMMARY RESULTS - ALL STAGES  Part of the state of the sta	IMMARY RESULTS - ALL STAGES  RCT (Randomised Control Trial)  Per 1: Which Method is Best Suited to Answering My Key uation Question(s)?  Per 2: Which method is most able to address my other rests?  Per 3: Which Method has the fewest essential methodological uirements that cannot be met by my intervention? (Which	RCT   (Randomised Contol Trial)   Instrument   Matching   Matching   Instrument   Matching   Matching   Instrument   Matching   Matching   Instrument   Matching   Matching   Instrument   Matching   Instrument   Matching   Matching	RCT (Randomised Contol Trial)   Difference (RDD)   Matching   Matching (RDD)	MMARY RESULTS - ALL STAGES   RCT (Randomised Contol Trial)   Difference   In- Difference   Mapping (RDD)   Most Mapping (RDD)   Mapping (RDD	MMARY RESULTS - ALL STAGES   RCT   (Randomised Contol Trial)   Difference   Statistical Maching   Instrument   All Ariables   Mapping   Significant   Systems   Modelling   Modelling   Maching   Maching	MMARY RESULTS - ALL STAGES   RCT   (Randomised Contol Trial)   Difference   Statistical in- Matching   Maching   All Variables   Mapping   Significant   Systems   Modelling   Modelling   Modelling   Difference   Mapping   Significant   Systems   Modelling   Modelling	MMARY RESULTS - ALL STAGES   RCT   (Randomised Contol Trial)   Difference   In- (Difference Unit of Participator (Participator	RCT (Randomised Contol Trial)   RCT (Randomised Contol Trial	RCT (Randomised Contol Trial)   MARY RESULTS - ALL STAGES   ROTO   Maching Difference   Mac	MMARY RESULTS - ALL STAGES   RCT (Randomised Contol Trial)   Difference   In- Difference	MMARY RESULTS - ALL STAGES  RCT (Randomised Contol Trial) Difference 2 Statistical in-Difference 3 Statistical in-	RCT (Randomised Contol Trial)   Matching   Instrument (RDD)   Matching   Ma



3ie, <u>2023</u>

Figure 3.1. Selecting experimental and quasi-experimental methods



HM Treasury, 2020: 47

## Increasing method hybridization

Theory-based Theory-based impact **Experimental** evaluation (White, 2009) systematic reviews (White, Realist RCTs (Bonnel et al. 2012) 2017) Configurational QCA (Ragin, <u>1987</u>) Realist Evaluation & QCA (Befani et al. 2007) **Generative** Realist Evaluation Realist Synthesis **Oualitative** (Pawson & Tilly, <u>1997</u>) (Pawson et al. <u>2004</u>) Impact **Contribution Analysis** Contribution Analysis Protocol (Mayne, 2001) & Process Tracing

**Process Tracing** (Van Evera, <u>1997</u>) (Befani & Mayne, 2014)

(Copestake et al. 2019)

Outcome **Evaluation** Approach (Belcher et al. 2020)

Contribution

Rubrics

(Aston, <u>2019</u>)

Outcome Trajectory **Evaluation** (Douthwaite et al. 2023)

**Participatory** 

**Outcome Mapping** (Carden et al. 2001) **Outcome Harvesting** (Wilson Grau & Britt, 2012)

Outcome Evidencing, (Paz-Ybarnegaray & Douthwaite, 2016)

Most Significant Change (Davies & Dart, <u>2005</u>)

Collaborative **Outcomes Reporting** (Dart & Roberts, <u>2014</u>)

## From comparison to integration

#### Qualitative Impact Protocol (QuIP)

#### Table 2.1 How the QuIP compares with other impact evaluation approaches: a summary

Group 1. Approaches with some overlapping features with the QuIP

Appreciative enquiry; case studies; causal link monitoring; collaborative outcome reporting; critical systems heuristics; goal-free evaluation; outcome mapping; positive deviance; success case method; utilization focused evaluation.

Group 2. More quantitative approaches than the QuIP Cost benefit analysis; difference-in-difference evaluation; qualitative comparative analysis; randomized control trials; social return on investment.

Group 3. Broader approaches, with which the QuIP is congruent Beneficiary assessment; contribution analysis; developmental evaluation; innovation history; institutional histories; outcome harvesting; process tracing; realist evaluation.

Group 4. Approaches with stronger participatory and formative goals than the QuIP

Democratic evaluation; empowerment evaluation; horizontal evaluation; most significant change; participatory assessment of development; participatory impact assessment for learning and accountability; participatory evaluation and participatory rural appraisal.

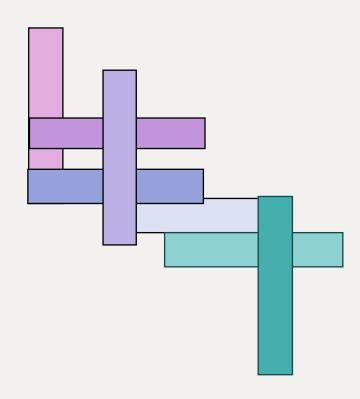
#### Outcome Trajectory Evaluation (OTE)

Evaluation Approach	Similarities to OTE				
Process tracing (Collier, 2011)	- Focus on unfolding events or situations over time to make causal inferences;				
	<ul> <li>The idea that causal inferences can be affirmed through building up a weight of evidence the robustness of which may by established through various tests (e.g., straw in the wind, smoking guns, etc.).</li> </ul>				
	<ul> <li>Use of criminal justice system analogies in explaining how the approach works</li> </ul>				
Outcome harvesting (Wilson-Grau, 2018)	<ul> <li>The practice of "back-casting" from an established outcome to understand what has contributed to it</li> </ul>				
,	<ul> <li>Interviews with knowledgeable stakeholders to validate or repudiate causal claims</li> </ul>				
Contribution analysis (Mayne,	- Use of a contribution story, similar to the timeline used in OTE				
2012)	- The development and refinement of a ToC as a part of the analysis				
Episode study (Carden, 2009)	- Back-casting from a well-defined policy change				
	- Development of a historical narrative to explain the policy change along with important documents and events, and identifying key actors				

Douthwaite et al. 2023: 14

## Bricolage

- Bricolage is a way to combine (or triangulate)
   the best bits of methods
- Attempt to reuse a heterogeneous repertoire of available materials to solve new problems (Lévi-Strauss, 1968)
- Not new, but gaining prominence in recent years (Patton, <u>2011</u>; Hargreaves, <u>2021</u>; Aston et al. <u>2021</u>; Aston & Apgar, <u>2022</u>)



#### Bricolage criteria

- Reasoning: Critical thinking, alternative explanations and interpretations, and search for outliers
- Credibility: Internal validity, contextually sensitive "probative value" of evidence
- Responsiveness: Reflect local stakeholders' values and cultural context, sensitive to their experiences and definitions of success, and evaluation criteria
- Utilization: Actionable evidence, utilization of evaluation findings
- Transferability: External validity, focused on moderating factors and how the outcomes of an intervention are afforded by the context (Aston et al. 2021)

# Functional bricolage

- "Threats to validity" bolstering method weaknesses (Ton, <u>2012</u>)
- Invert to focus on methodological strengths

Table 1 How functions support rigour criteria through methods				
Function	Connection to rigour criteria			
Context analysis of potentially contributing factors and conditions	Provides boundaries for causal mechanisms, enhances external validity of evaluative judgements, and supports transferability (e.g. context, mechanism, outcome configurations in Realist Evaluation).			
Developing outcome pathways for causal processes	Helps to structure evaluative reasoning, enhances evaluability, and can bolster credibility of findings. If developed through a participatory process, this can contribute to responsiveness and utilisation (e.g. theory of change in Contribution Analysis, or developing causal chains in Process Tracing).			
Appreciative inquiry of stakeholders to begin with an understanding of what matters to them, how they envision change, and what they want to learn about	Helps to ensure that evaluation is relevant and representative of stakeholders' experiences, and supports utilisation when orienting evaluation to learn from and about these experiences (e.g. collect significant change stories in Most Significant Change, or social inquiry in Collaborative Outcomes Reporting).			
<b>Articulating outcome narratives</b> to explain outcomes and contributions	Enhances evaluative reasoning and the testability of effect patterns, which raises credibility, and can increase responsiveness if these are developed in a participatory way (e.g. draft outcome statements in Outcome Harvesting or progress markers in Outcome Mapping).			
Appraising significance of outcomes to explain why a change is important	Enhances evaluative reasoning and improves responsiveness if appraisal is a participatory process (e.g. collecting significant change stories in Most Significant Change or collecting significance data for outcome statements in Outcome Harvesting).			
<b>Iterative sensemaking</b> of hypotheses and contribution claims	Helps to strengthen reasoning and enhance credibility and can also be conducted in a participatory way to enhance responsiveness (e.g. assessing a contribution story and seeking additional evidence in Contribution Analysis or revising the conceptual model in Multiple Lines and Levels of Evidence).			
Testing strength of evidence underpinning contribution claims	Appraising evidence strength stress-tests evaluative reasoning. It strengthens internal validity and thus increases the credibility of findings and evaluative judgements (e.g. evidence tests and rival hypothesis assessment in Process Tracing; ruling out possible alternative explanations in General Elimination Methodology).			
Validation of outcomes with communities, peers and/or experts	Strengthens the credibility of evaluative judgements (internal validity). If conducted in a participatory way, it can contribute to responsiveness (e.g. outcome panel in Collaborative Outcomes Reporting; contribution trial in Process Tracing with Bayesian Updating).			
Causal pattern comparison between outcomes	Can help identify trends and outliers, thereby contributing to evaluative reasoning and transferability of findings (e.g. data matrix and truth tables in Qualitative Comparative Analysis; SenseMaker's visualisation of patterns).			
Supporting utilisation of evaluation	Enables use of evaluation findings and supports transferability through adapting			

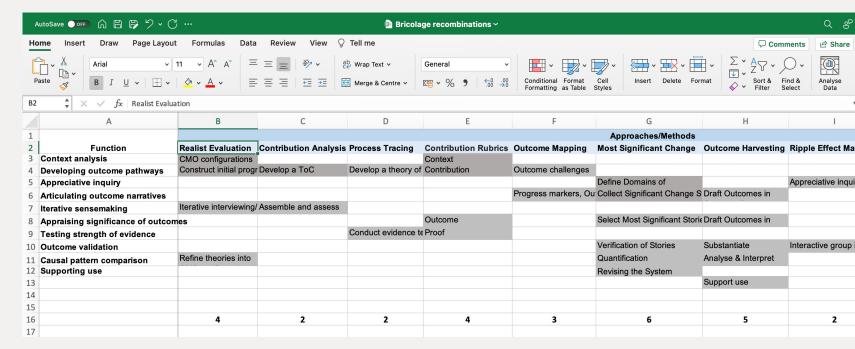
Harvesting).

programming and informing new programming (e.g. supports use in Outcome

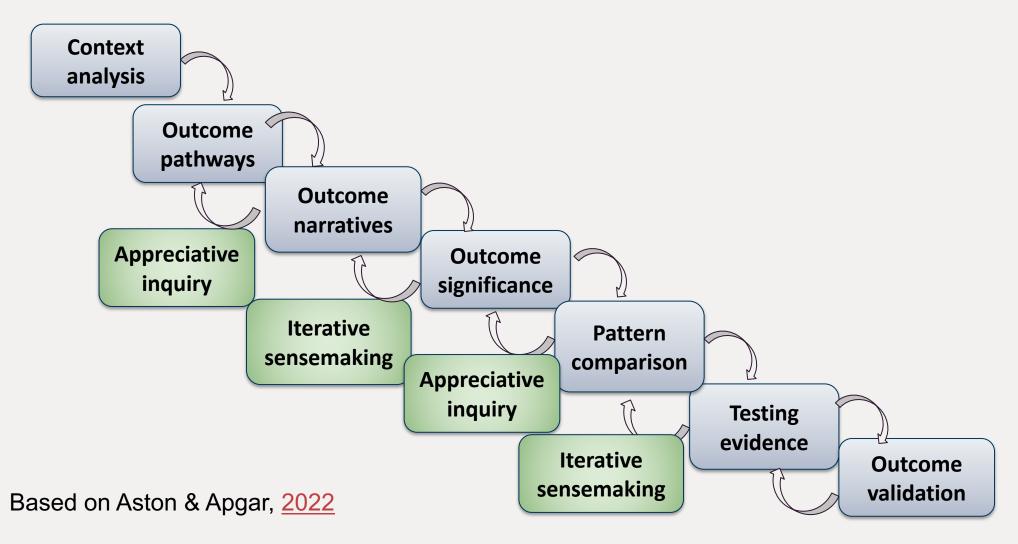
findings to inform future programming

## Choosing among options

- Comparable steps, fulfilling similar functions
   Substitutable
- Substitutable steps



#### Finding the right combination: function, not form



## Further reading

- Downes and Gullikson, <u>2020</u> and Schwandt and Gates, <u>2021</u> and Aston, <u>2022</u> on valuing criteria
- Stern et al. 2012; HM Treasury, 2020; Befani, 2020; and 3ie, 2023 on selecting evaluation methods
- Patton, <u>2011</u>; Hargreaves, <u>2021</u> and Aston & Apgar, <u>2022</u> on **bricolage** with case-based methods
- Aston et al. <u>2021</u> and Raimondo, <u>2023</u> on rigour in case-based methods