

Applying Theory of Change for Project Planning, Adaptive Management, and Evaluation: Experience and Ways Forward

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Sustainability Research Effectiveness Program

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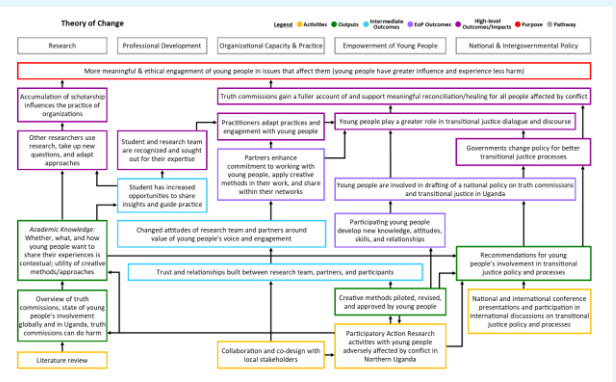
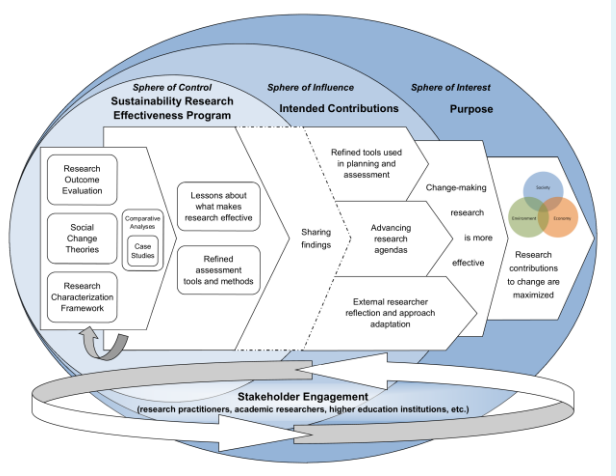
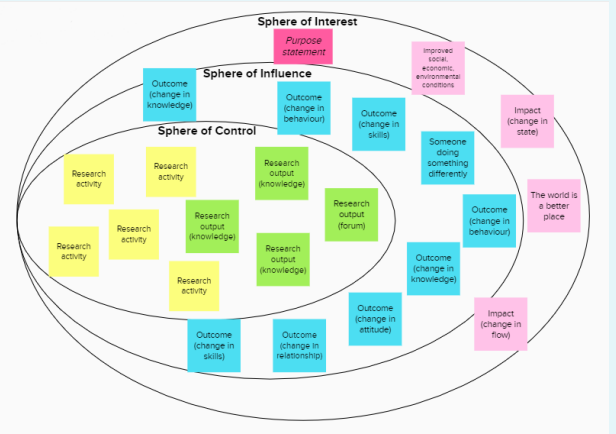


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Application Experiences

- **Research planning:**
 - Supporting Royal Roads doctoral students in early stages of project design
- **Monitoring and adaptive management:**
 - Revisiting our program's theory of change, supporting non-profit monitoring and evaluation strategies
- **Evaluation:**
 - 10 (*ex post*) evaluations of completed international research for development projects/programs
 - 5 (*ex post*) evaluations of completed Royal Roads graduate student projects



Experience Demonstrates...

- Utility in project/program planning (**inception phase**):
 - Guides outcome-oriented design and implementation
 - Encourages critical thinking, integration, and collective visioning
 - Helps identify and engage boundary partners
- Utility in monitoring and adaptive management (**implementation phase**):
 - Provides structure for learning and reflection to adjust/adapt planned activities, take advantage of unexpected opportunities
- Utility in evaluation (**post-project phase**):
 - Can be tested empirically to qualify the extent to which and how a project/program contributed to change

Context-sensitive Methodology

- ToC development process considers participant, time, and resource constraints
 - Document review (e.g. of proposals) helps to frame specific questions, guide probing, and triangulate intentions
- ToC output provides adaptable analytical framework
 - Encourages systematic reflection on intended outcomes to determine appropriate methods for realization and measurement
- ToC evaluation process considers the intended outcomes
 - Mixed methods support evaluation of outcomes – flexible method pairing
 - Mixed methods we have applied: outcome evaluation approach, document review, semi-structured interviews, surveys, qualitative coding and analyses, bibliometric and altmetric analyses, transdisciplinary research quality assessment framework

Challenges Encountered

- In ToC development:
 - Confusion of concepts (outputs, outcomes, impacts, assumptions, indicators)
 - Facilitators need to provide clear consistent definitions and careful guidance
 - Difficult to measure outcomes
 - Use of KASRB framing has been effective
 - Facilitators can support participants to identify progressive indicators (expect to see, like to see, love to see)
- In adaptive management:
 - Tendency to remain static, not used effectively for learning
 - We encourage and facilitate continuous use and periodic revision of ToC
- In evaluation:
 - No reliable counterfactual estimate
 - Need to elicit expert judgment of significance and consider alternative explanations

Next Steps

- Package and share research ToC training
- Develop user-friendly data management tools to support ToC development and use
- Improve theoretical basis of ToC and explicitly document and test assumptions
- Share learning from successes and failures broadly