Using Program Theory and Complexity Science to Improve Adaptive Management





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CHART YOUR COURSE: Adaptive management at a glance:

Determine your project's degree of complexity

- - Determine your strategy to respond to that degree of complexity

Establish your adaptive management process to Review, Reflect, Respond (RRR)

needs based on that degree of complexity

Determine leadership, staffing, and resource

Implement, assess and revise your plan

How can a program "do" evidence-based adaptive management? Successful adaptation requires not only an effective monitoring plan that provide timely data, but also a culture of critical reflection, the right resources, supportive leadership, and a whole-of-team approach, among others.

Effective adaptive management also requires a system tailored to the unique needs of a program's operating context, its objectives, and its implementation strategy.

Pact has conceptualized adaptive management as an iterative process rooted in complexity science and program theory.

With program theory, Pact differentiates a program by its underlying theory of context, theory of change, and theory of action:

THEORY OF

problem were to be

addressed, and the

extent to which there

are evidenced causal

relationships to realize

that improved system

CHANGE

9 THEORY OF CONTEXT

A theory for how the system produces the problem the project wishes to address, and the extent to which that system can be understood

A theory for how an improved system would operate if the

A theory for what can be done through an intervention to effect that change, and the extent to which there are evidenced approaches that will lead to the desired results

O

THEORY OF

ACTION



Using a simple program theory questionnaire, Pact is able to categorize a project as either simple, complicated, complex, or chaotic:

SIMPLE



COMPLICATED

Complicated operating environments and associated problems have moderately evidenced theories, so project strategy can rely on **good** practice

Simple operating environments and associated problems have highly evidenced theories, so project strategy can rely on proven best practice.





Complex operating environments and associated problems do not have well-evidenced theories, so projects have little ability to transfer successes from one context to the next. Projects must rely on emergent practice by testing and scaling to ensure theories



CHAOTIC

Chaotic operating environments and associated problems have little to no evidence to develop theories of change. Project strategy must rely on **novel** practice and consistently test and adapt approaches.



Based on a project's degree of complexity, the project team can tailor its adaptive management system. For example, depending on its degree of complexity, a project will differ regarding:

MONITORING FRAMEWORK

adaptive management needs?

appropriate for facilitating

What monitoring framework is the most

appropriate for projects with different

EVALUATION DESIGN/APPROACH

What evaluation design is the most

decision-making and adaptation?

ACTIVITY ADAPTATION

What level of adaptation should you expect for project strategies or activities?

THEORY REVIEW How often should you review and

potentially revise the theory of context, change, or action?

BUDGET FLEXIBILITY AND CONTENT

How flexible does your budget need to be to allow for adaptation? What additional items should you consider including in your budget during project design or modifications?



With clarification on the kind of system a project needs. a project team can then build its customized system based on Pact's "RRR" process:

> REVIEW Rapid assessments, performance monitoring, and in-depth research are all ways in which projects can rigorously collect and analyze data to generate useful evidence about the project context, theory of change, and implementation and

operations

Use flexible grant or technical assistance mechanisms, strategically add or change approaches, activities, partners or geographies to attain the project's ultimate goal and impact

> For all of these steps, Pact has an Adaptive Management Toolkit with step-by-step

Adaptive Management Intensity Self-1. Questionnaire

guidance:

- 2. Staff Roles and Responsibilities in Adaptive Management
- 3. Scenario Planning Decision Matrix and Template
- 4. Context Indicator Guide for Adaptive Management



5. RRR Meeting Agenda Template

- 6. RRR Slide Deck Template
- How to Prepare for Learning Review Meetings

REFLECT

Through management meetings, learning

summits, pause and reflect sessions, and

scheduled site visits, projects should review and analyze evidence to determine its

8. Decision Tracker for Adaptive Management





Please find a link to the Adaptive Management Guidebook here

https://www.pactworld.org/library/adaptive-management-practical-guide-mitigating-uncertainty-and-advancing-evidence-based For more information, please contact Pact's Results and Measurement team (<u>rm@pactworld.org</u>).

