

ADB-3ie Workshop - Making Impact Evaluation Matter Manila, 1st-5th September 2014

Programme Theory and Theory of Change Analysis

Radhika Menon, Birte Snilstveit, Philip Davies, International Initiative for Impact Evaluation [3ie]



The Policy Cycle

Understanding the Problem (Conceptualisation)

Monitoring and Evaluation (M&E)

Developing Solutions (Policy Development)

Putting Solutions
Into Effect
(Implementation)



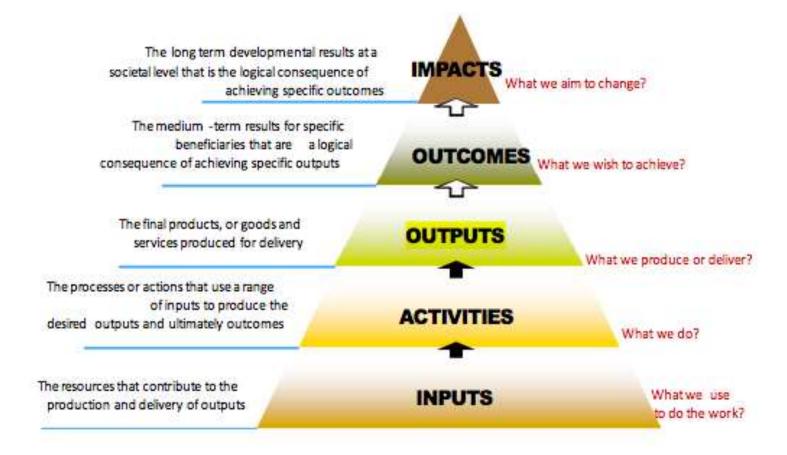
Evaluation:

Programme Theory/Theory of Change/Logic Model

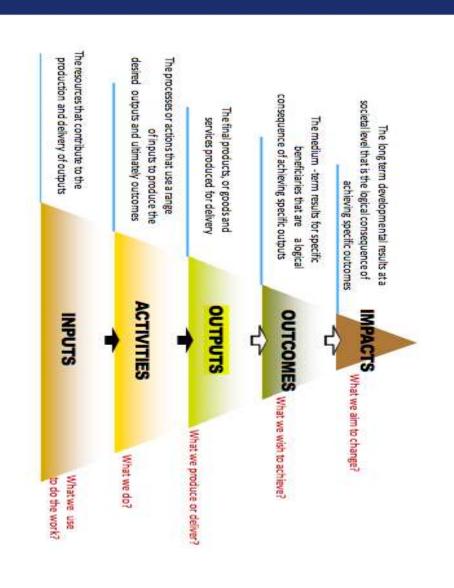
- How is a policy/programme supposed to work?
- What activities, mechanisms, people have to be in place?
- And in what sequence what is the causal chain?
- What resources are required and are available?
- What data are required and are available?
- Is the policy/programme feasible/achievable?



Building a Theory of Change: From Inputs to Outcomes

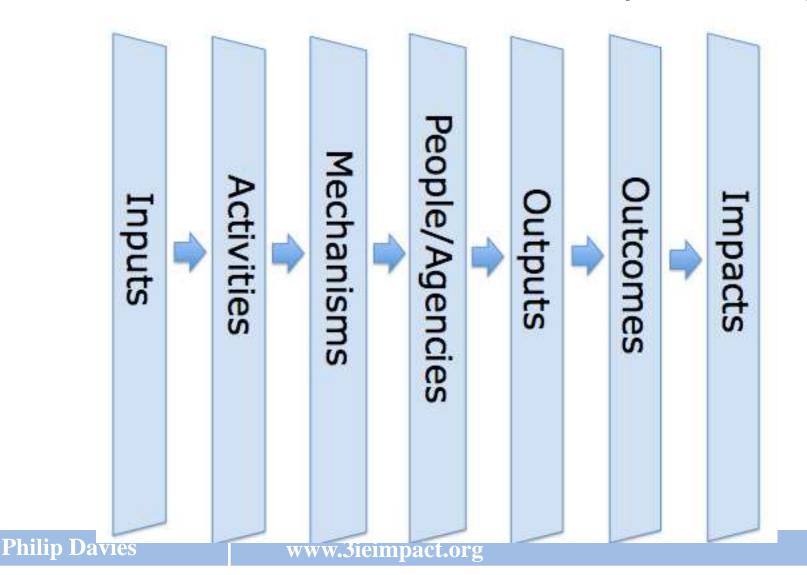






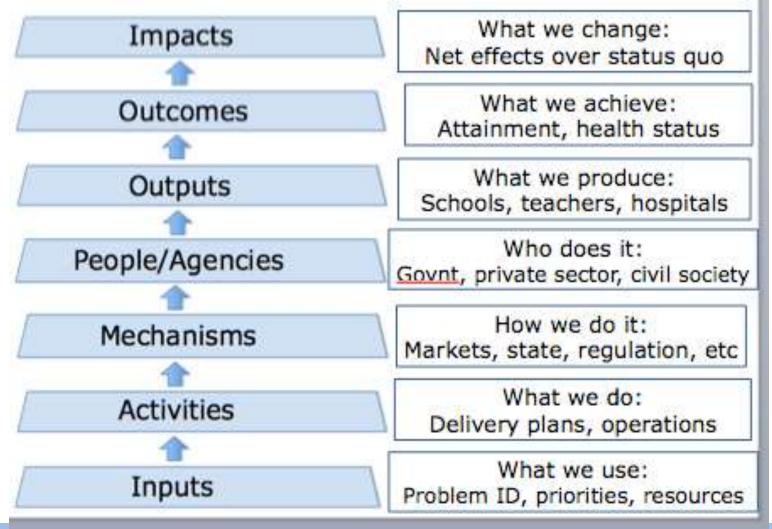


Constituent Features of a Theory of Change





Constituent Features of a Theory of Change



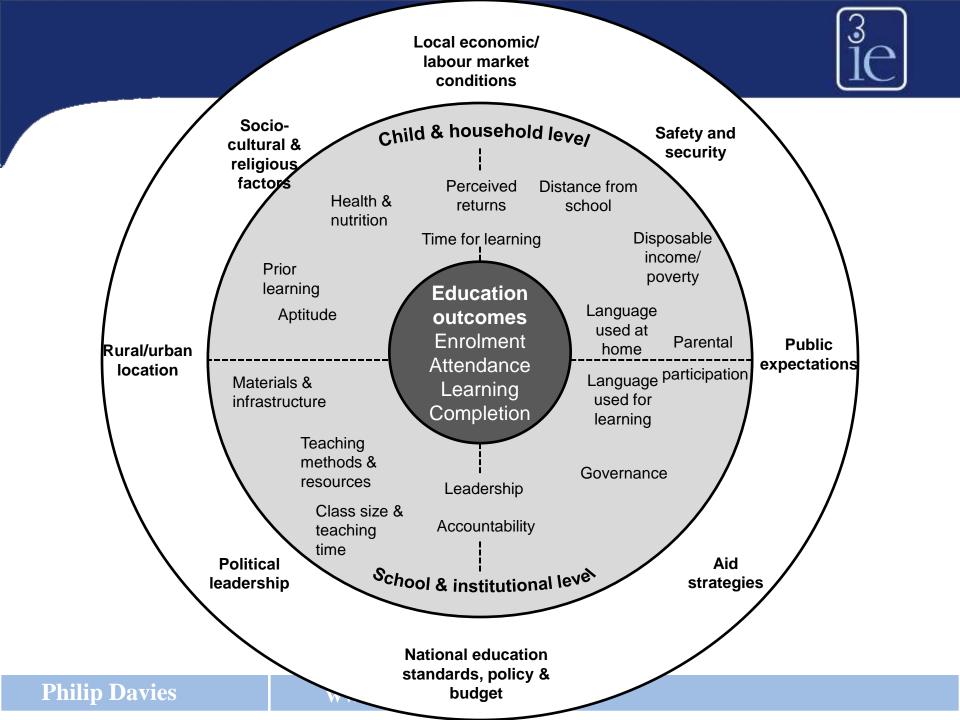


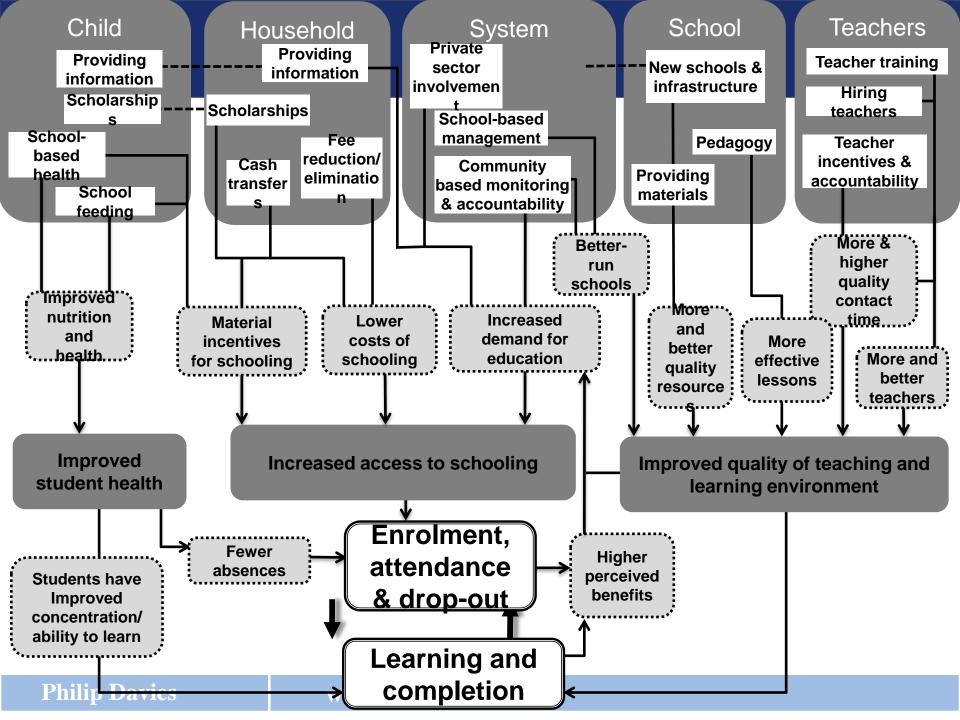
Establishing the Policy Logic/Theory of Change Basic Principles

- Map out the causal chain
- Understand context
- Anticipate heterogeneity
- Rigorous evaluation of impact using an appropriate counterfactual
- Rigorous factual analysis
- Use mixed methods



Example: Using program theories for SR of education interventions







Inputs

Financial resources Staff Educational Material

Assumptions:

- Adequate resources are available to pay for educational material, staff delivering training
- Staff is qualified to deliver appropriate training and facilitate information campaigns

Activities

Information Campaign (via radio, newspaper, door to door. village or parents meetings)

Training on the use of tools to monitor education service providers (eg: score cards)

Outputs

Citizens participate in monitoring activities such as public forums, school /village committees, school visits, parent meetings /associations; make complaints if services are lacking

Intermediate Outcomes

responsiveness and accountability of providers and politicians: greater teacher effort and better resource allocation

Final Outcomes

Improved education outcomes: increase in student learning and completion

Assumptions:

- Community participants receive adequate information on the performance of educational services provided as well as training/ instructions on how to use the tools to monitor education service providers
- The information solves potential information gap/ asymetry and attention span problem.

Assumptions:

- Community members are aware of the program
- Participants want and are able to participate in decision- making and hold public officials to account as they believe that it will improve
- Participants are able to coordinate action to collectively pressure providers (high degree of social cohesion/ low expectation of free- riding)
- Institutions are in place to avoid elite capture of monitoring process

Assumptions:

- Political authorities are accountable and the given community is important to the politician's electoral strategy
- Providers (schools/ teachers) are accountable to politicians and the community
- Community members/ parents have sufficient capital and voice to change providers' behaviour

Assumptions

- Children are able to attend school regularly
- Available resources are sufficient to improve student outcomes

Exercise 1



- Develop a program theory for your selected intervention, identifying key inputs, activities, outputs, intermediate and final outcomes.
- Identify assumptions associated with each stage of the causal chain



Testing the ToC

What types of data/ information do you need to test the program theory of change?

Theories of Change – Data Required

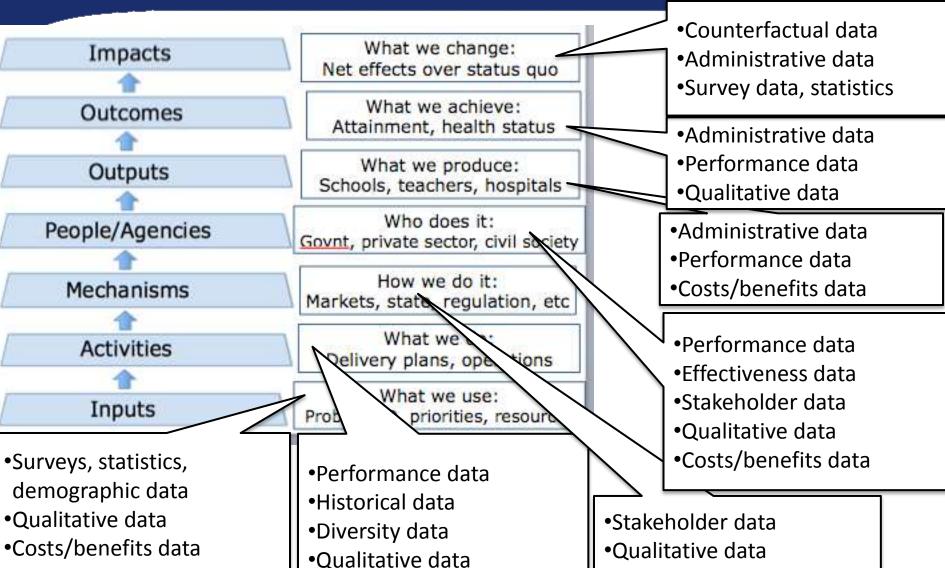
Systematic review data

Documentary analysis



Public opinion data

Effectiveness data



Effectiveness data

International Initiative for Impact Evaluation



Unpacking the theory of change of an education intervention

Radhika Menon
International Initiative for Impact Evaluation

Enhancing learning in India



This 3ie supported impact evaluation was conducted in **Mahendragarh and Kurukshetra districts** of Haryana, India.

Researchers from J-PAL collaborated with the Government of Haryana.

Impact evaluation of two interventions:

- Continuous and Comprehensive Evaluation system (CCE)
- Learning Enhancement Programme (LEP)

Mainly looked at impact on children in grades 1-4



Duflo, E, Berry, J, Mukerji, S and Shotland, M, 2014. A Wide Angle View of Learning: evaluation of the CCE and LEP Programmes in Haryana, 3ie Impact Evaluation Report

Continuous and Comprehensive Evaluation



The Right to Education Act (2009) eliminated 'high stake' final exams.

Continuous and Comprehensive Evaluation emphasises:

- Frequent and broad based feedback on student performance
- Assessment of academic and non-academic performance
- Variety of techniques to assess performance





Learning Enhancement Programme



Story

Developed by **Pratham**, a large Indian NGO focussing on basic literacy and numeracy

Programme involves quick oral assessment of students

Classes are regrouped according to learning level rather

than grade.

Paragraph

Letter

क खग घ ङ

Word

Photo © Devanagari_velars/wikimedia,Bhasha/wikimedia,Hindi_Sahitya_puraskar/wikimedia

Beginner

Process monitoring



On the request of the government, researchers revived school monitoring system.

The system includes block and district supervisors, field level monitors.

Monitoring consisted of

- Surprise visits to each of the schools
- Extensive questionnaires on implementation, availability of inputs such as text books and uniforms

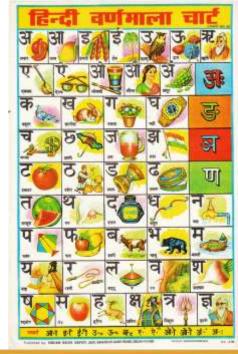


Observations of randomly selected teacher in the classroom

Research questions



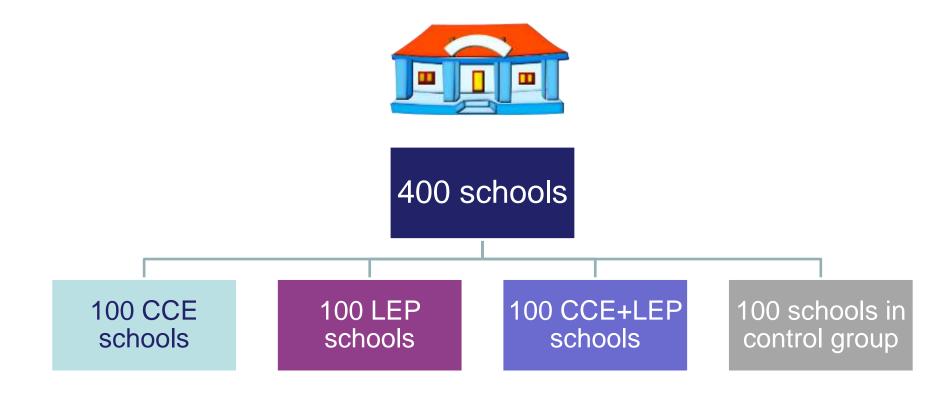
- Does Continuous and Comprehensive Evaluation improve test scores in Hindi and Maths?
- Does the Learning **Enhancement Programme** improve test scores in Hindi and Maths?
- Does a combination of both improve test scores in Hindi and Maths?





Randomised Controlled Trial le





Results



Students in CCE schools did not perform significantly better than students in control schools.



- ❖ LEP had a large, positive and statistically significant effect on students' basic Hindi reading abilities, both oral and written tests.
- LEP had a larger effect for girls than boys.



❖ Combining LEP and CCE had no significant effect on test scores relative to the LEP programme alone.



Why didn't CCE work?



Process monitoring showed:

 CCE training did not lead to change in teaching practices.



- School headmasters thought requirements to be burdensome and time consuming. Guidelines were unclear
- Overall, CCE not well implemented.
- LEP on the other hand had a high level of compliance and was well implemented

CCE Theory of Change lie





Frequent evaluation of students

Customised teaching approach

Improvement in learning

Assumptions not met

Teacher training is adequate.

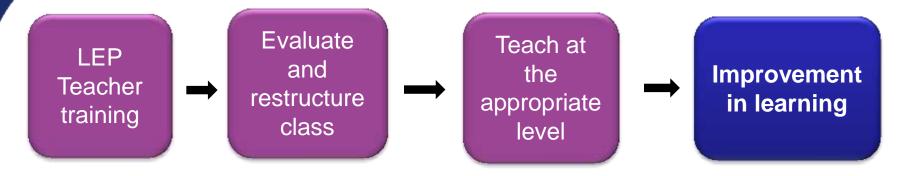
Teachers have time and resources to implement.

Teachers have pedagogical tools.

Teachers attend training

LEP Theory of Change





Assumptions met in most part

Teacher training is adequate.

Teachers have time and resources to implement.

Teachers have pedagogical tools.

Teachers attend training

Key takeaways



- Process monitoring helped collect data along the causal chain
- Process monitoring is important for implementation



- It helped answer the question of 'why' the programme worked or did not work
- Theory of change maximises the value of research for policy and practice

Exercise 2



- Identify questions that would allow you to test the program theory
- What type of data would you need?



Thank you Radhika Menon, Birte Snilstveit, Philip Davies on

Email: pdavies@3ieimpact.org
+44 (0)207 958 8350

Visit www.3ieimpact.org