

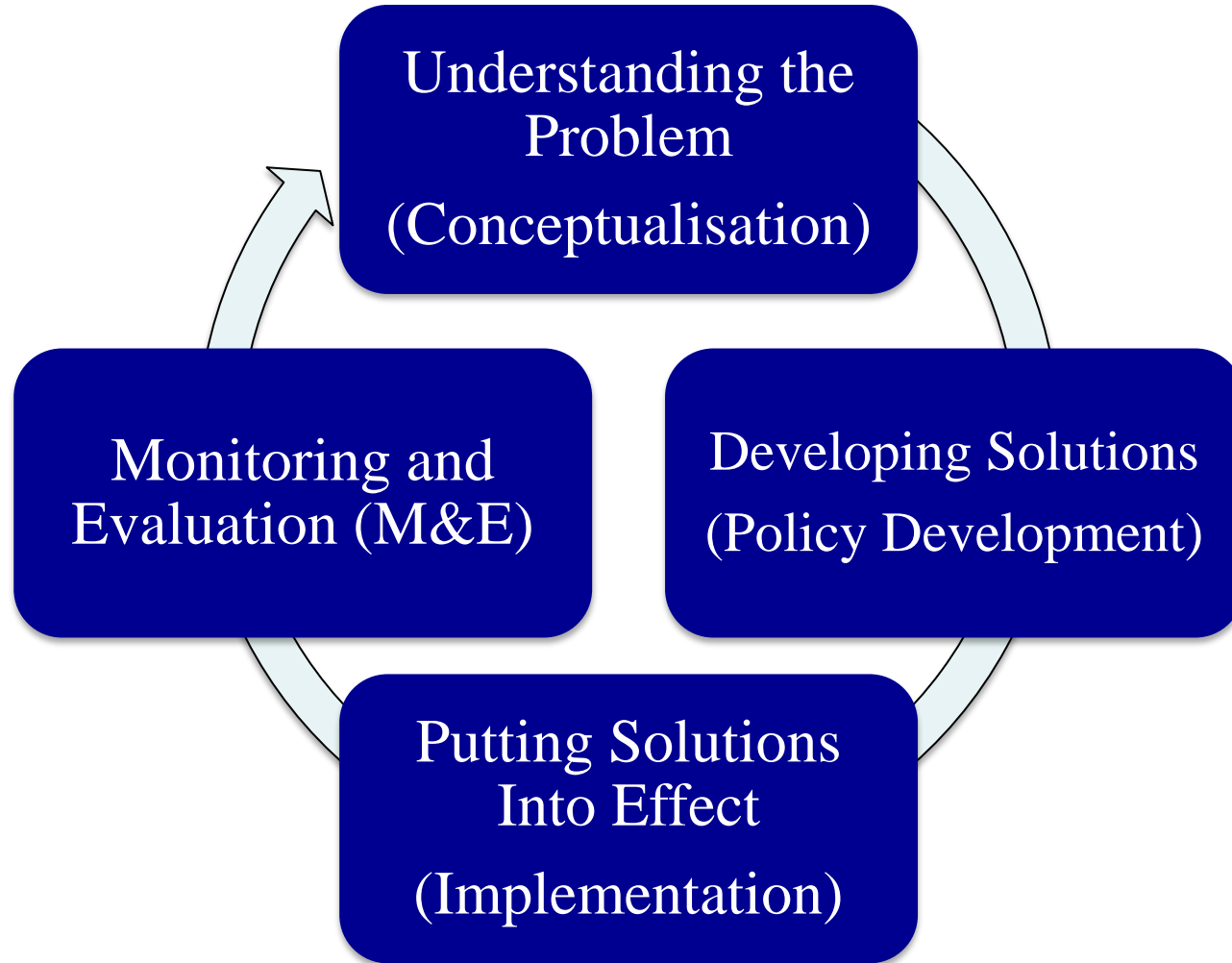


ADB-3ie Workshop - Making Impact Evaluation Matter
Manila, 1st-5th September 2014

Programme Theory and Theory of Change Analysis

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

The Policy Cycle

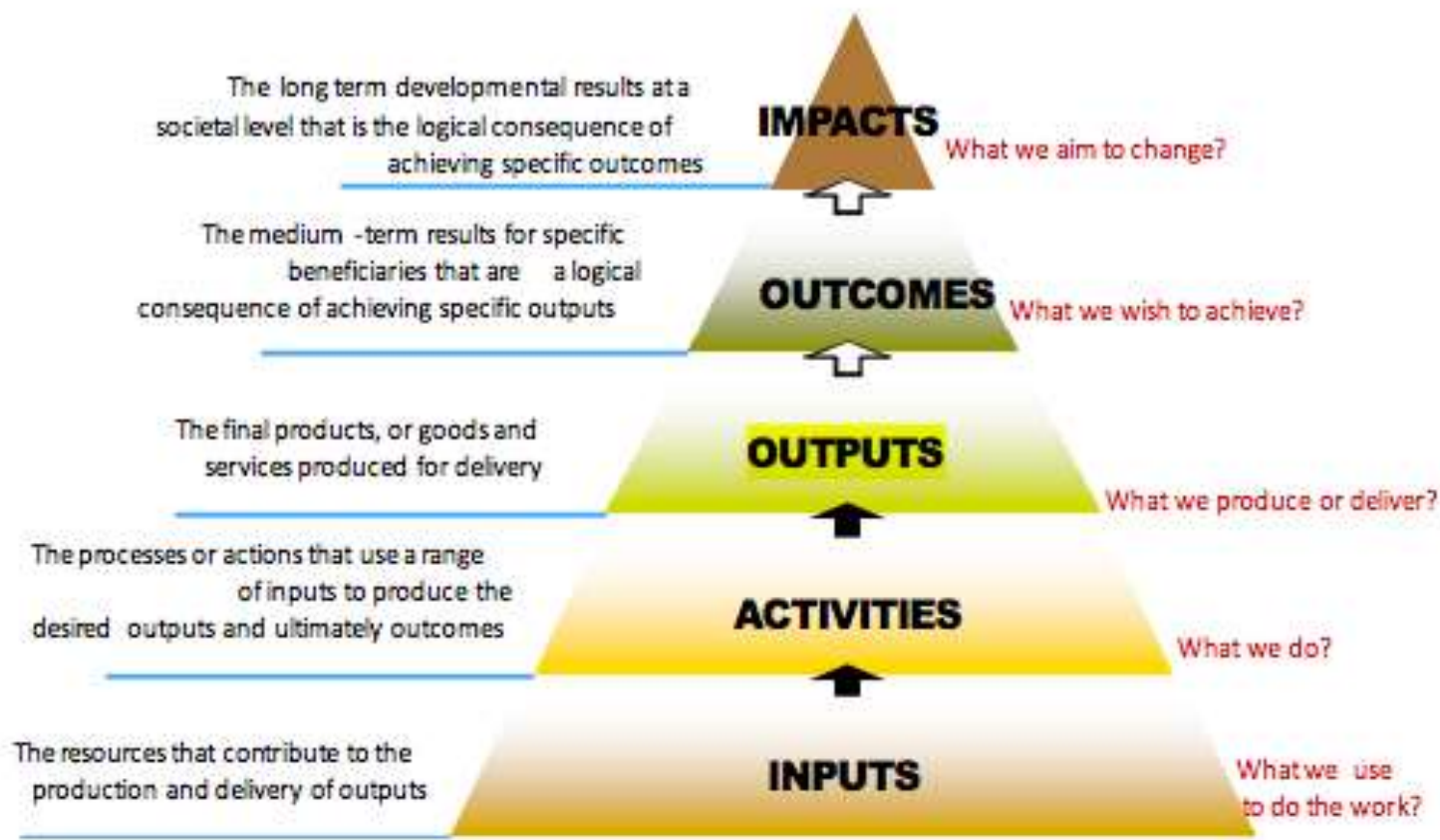


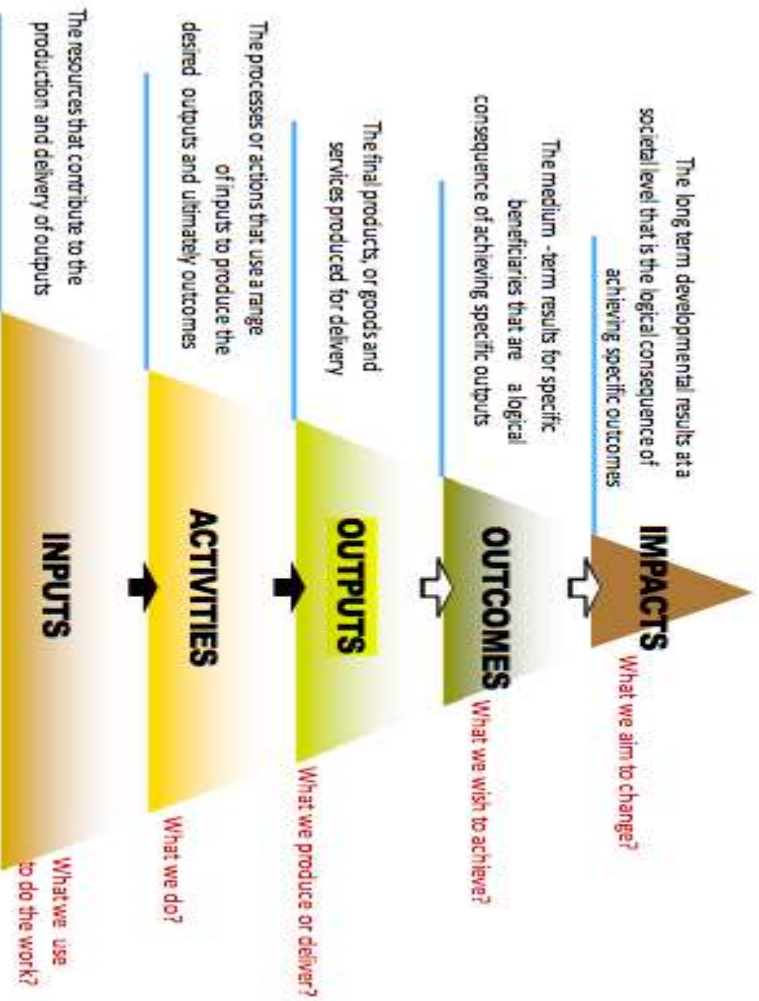
Evaluation:

Programme Theory/Theory of Change/Logic Model

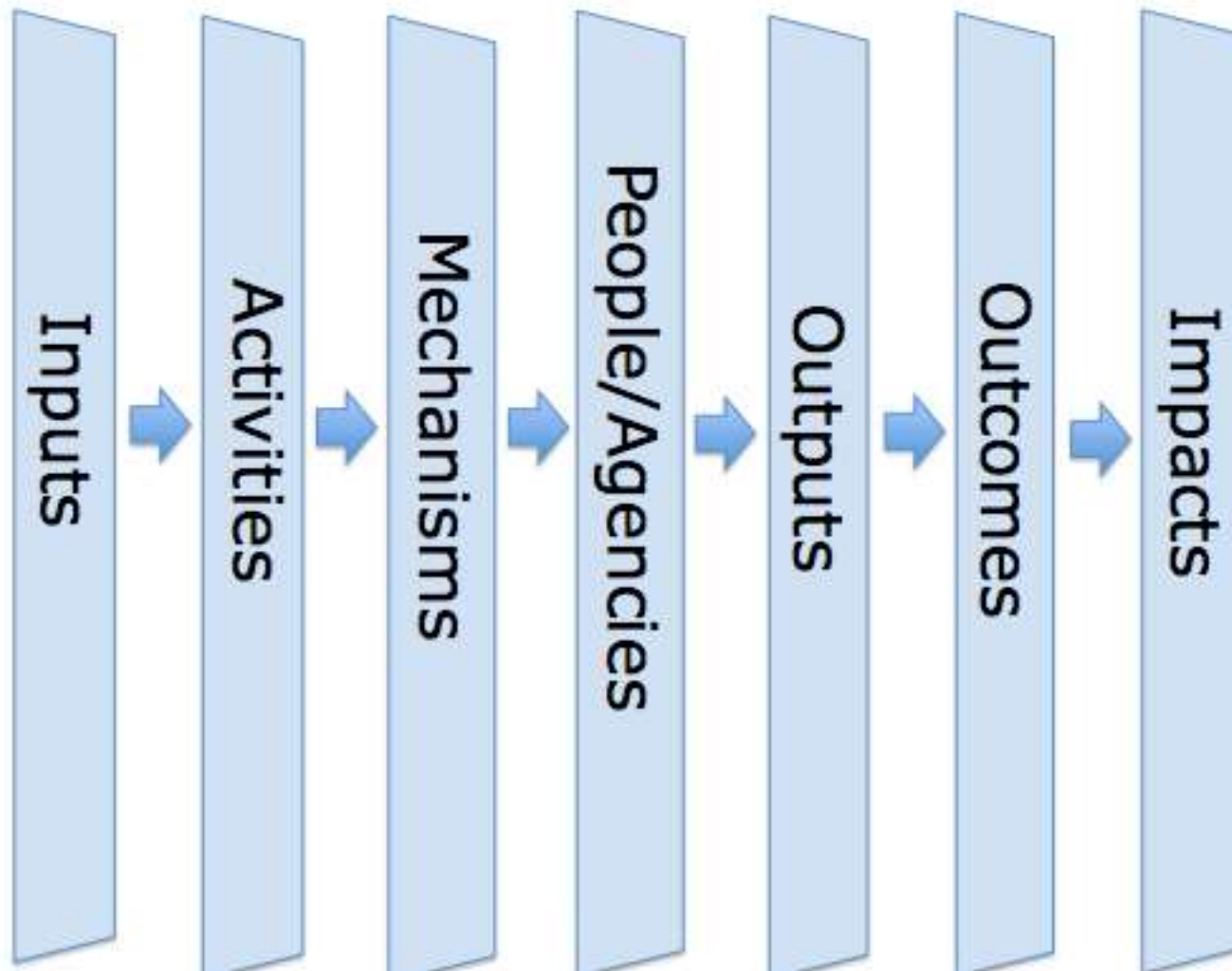
- How is a policy/programme supposed to work?
- What activities, mechanisms, people have to be in place?
- And in what sequence – what is the causal chain?
- What resources are required – and are available?
- What data are required – and are available?
- Is the policy/programme feasible/achievable?

Building a Theory of Change: From Inputs to Outcomes





Constituent Features of a Theory of Change



Constituent Features of a Theory of Change

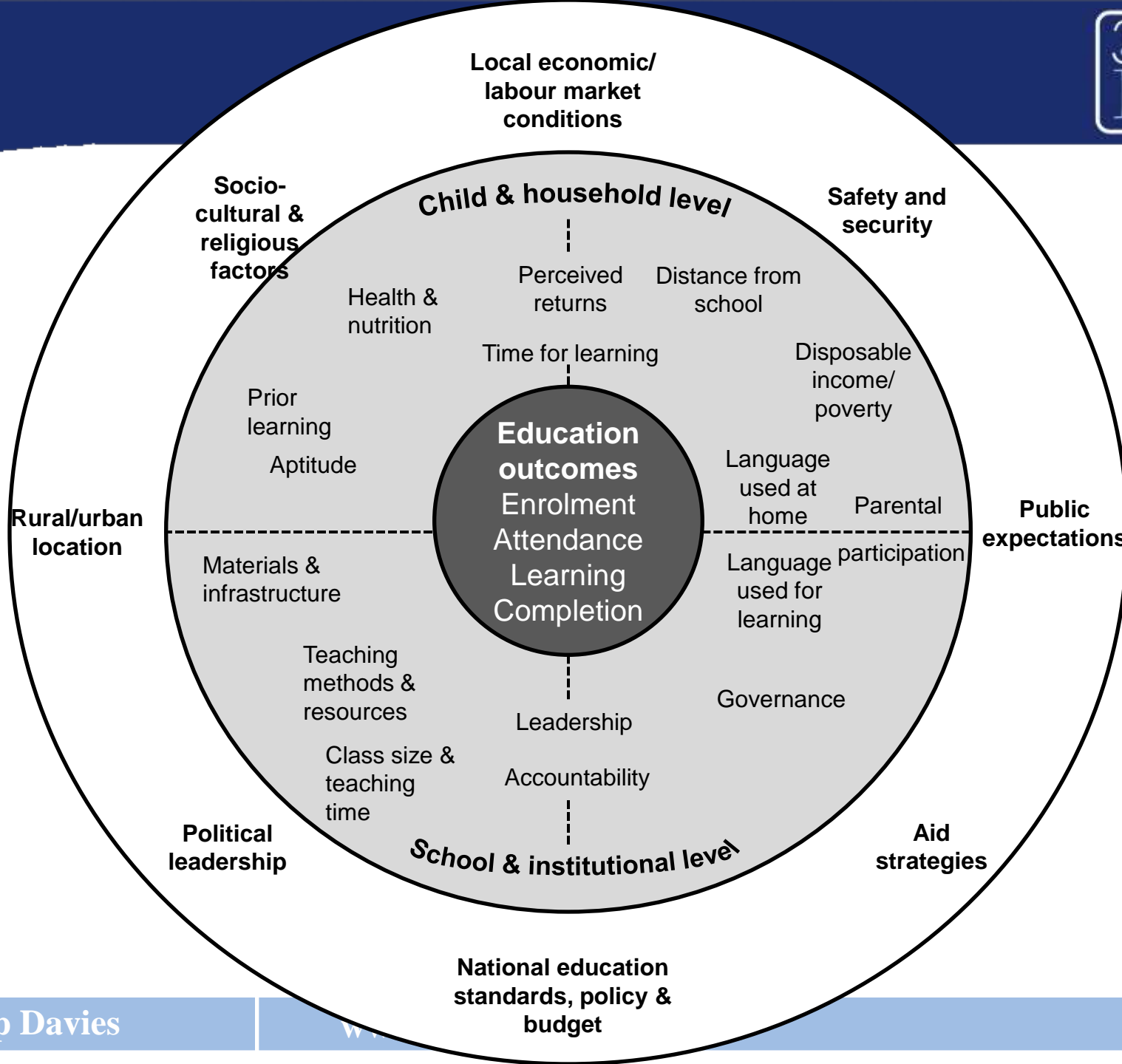


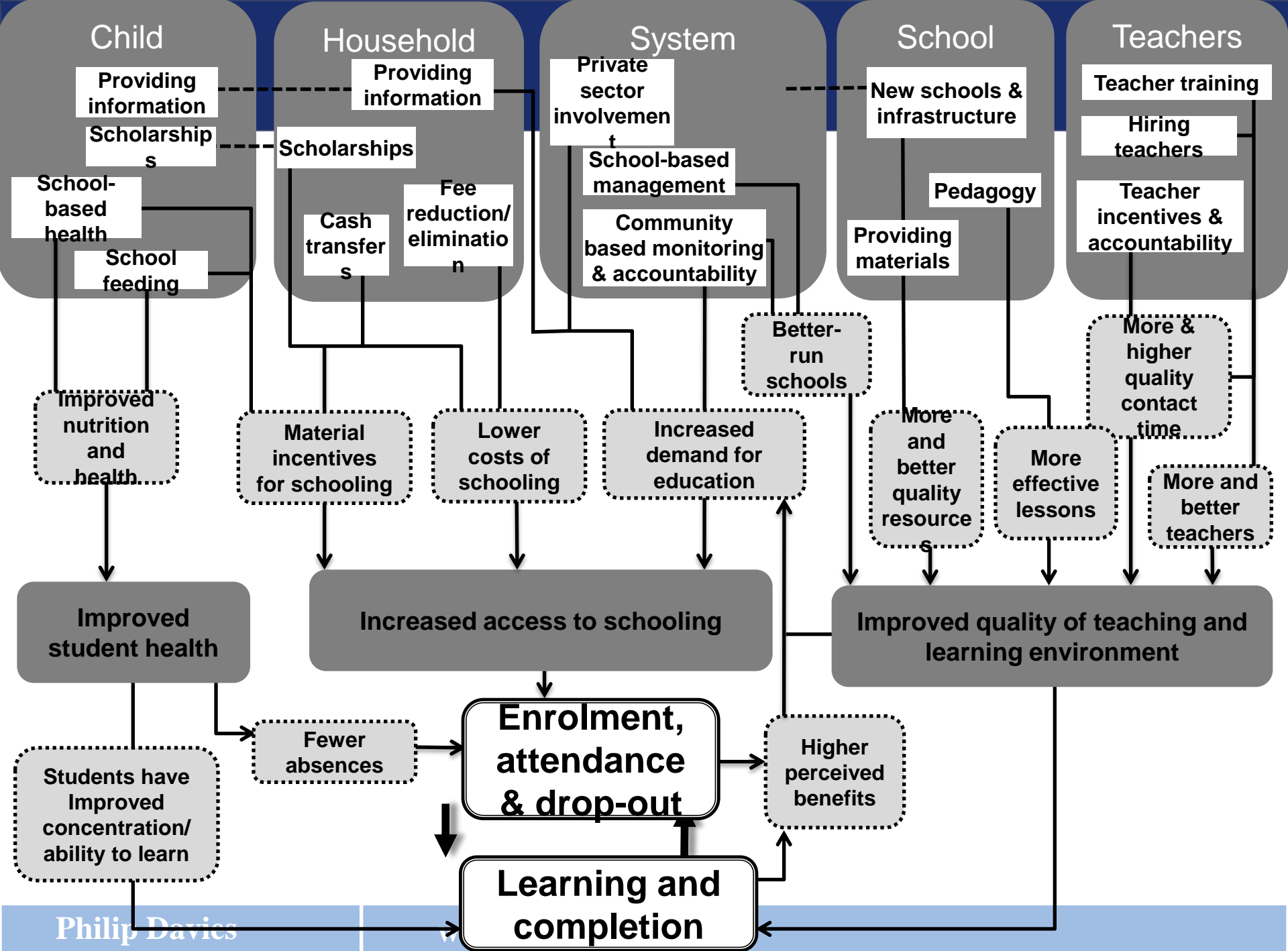
Establishing the Policy Logic/Theory of Change

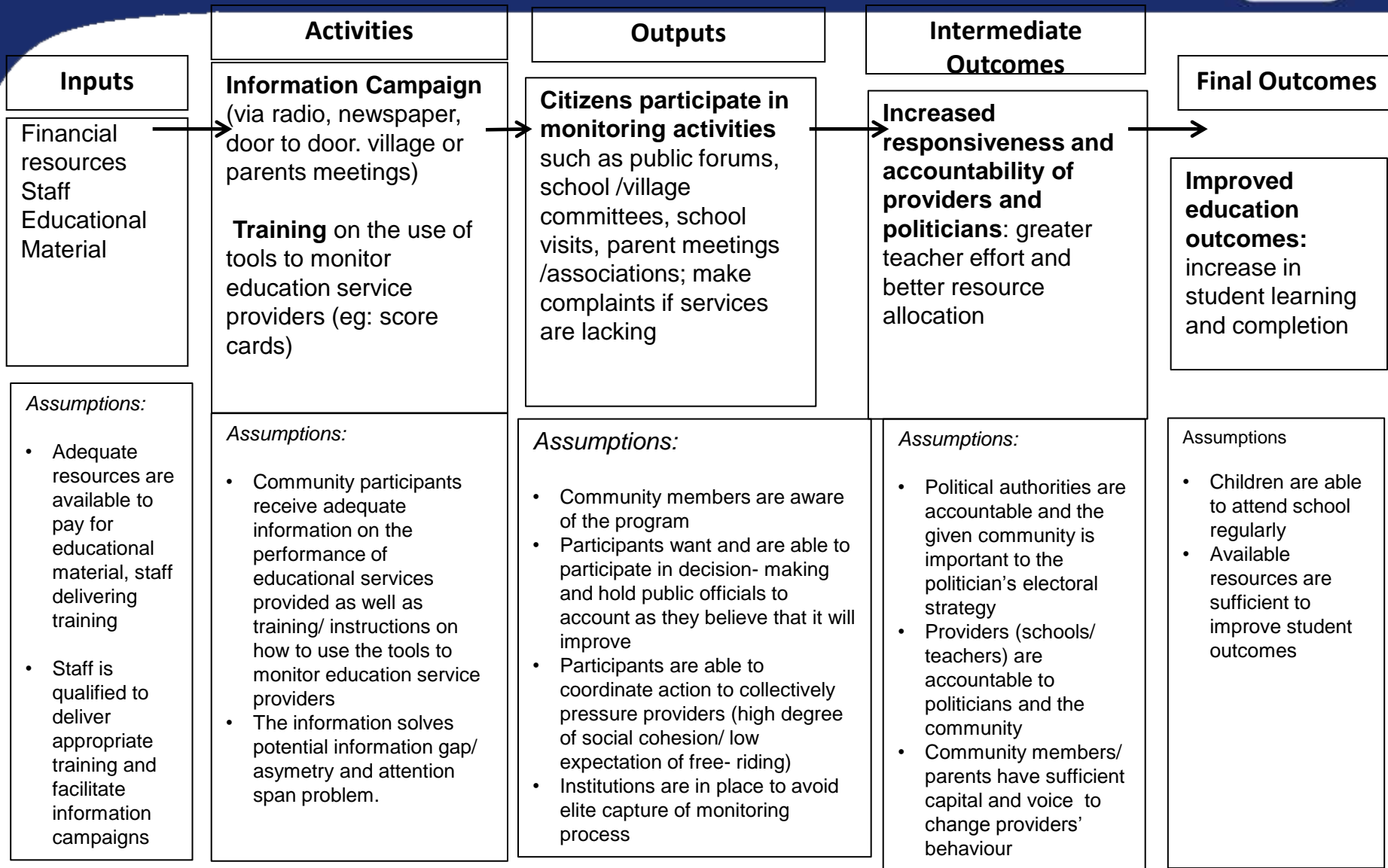
Basic Principles

- 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







Exercise 1

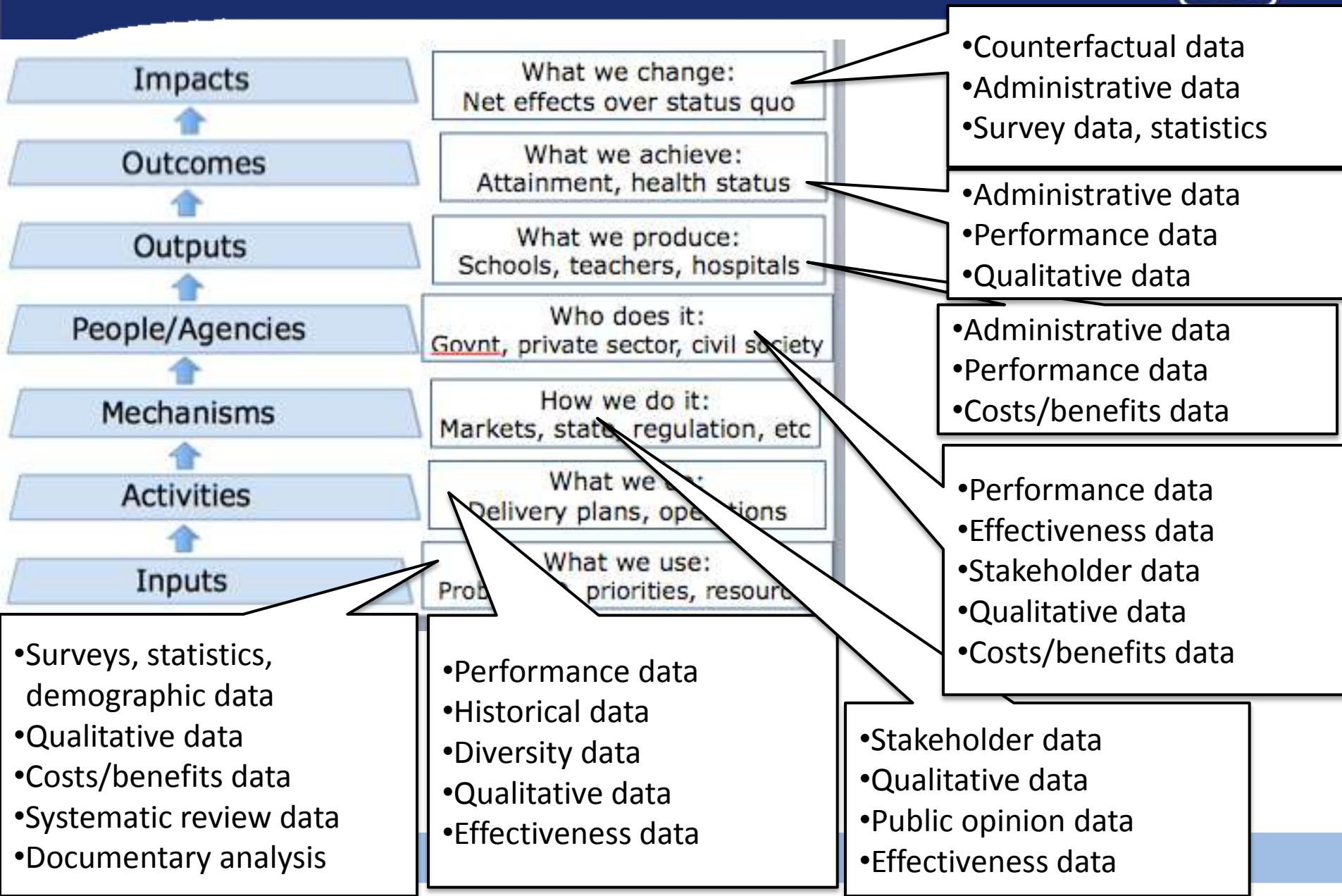
- Develop a program theory for your selected intervention, identifying key inputs, activities, outputs, intermediate and final outcomes.
- Identify assumptions associated with each stage of the causal chain

Testing the ToC



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

Theories of Change – Data Required



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



Photo © Haryana_in_India/wikimedia

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

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

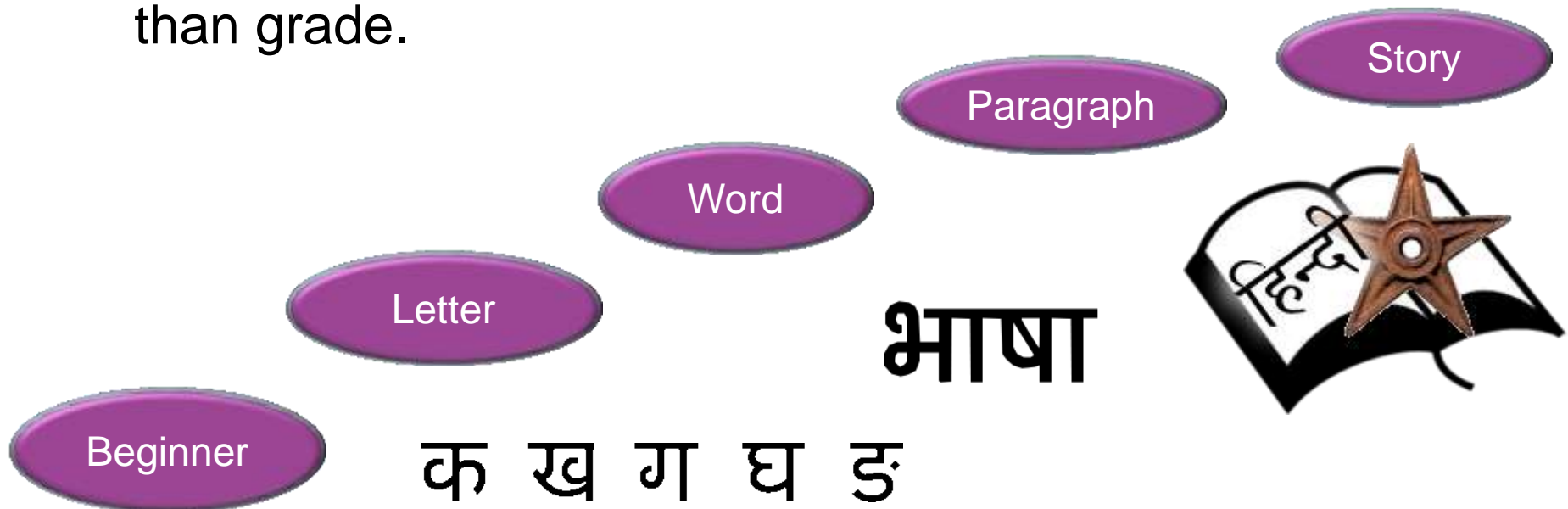


Learning Enhancement Programme



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.



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?



Photo © Counterclockwise/Flickr, Magic Pathshala.com

Randomised Controlled Trial



400 schools

100 CCE
schools

100 LEP
schools

100 CCE+LEP
schools

100 schools in
control group

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?

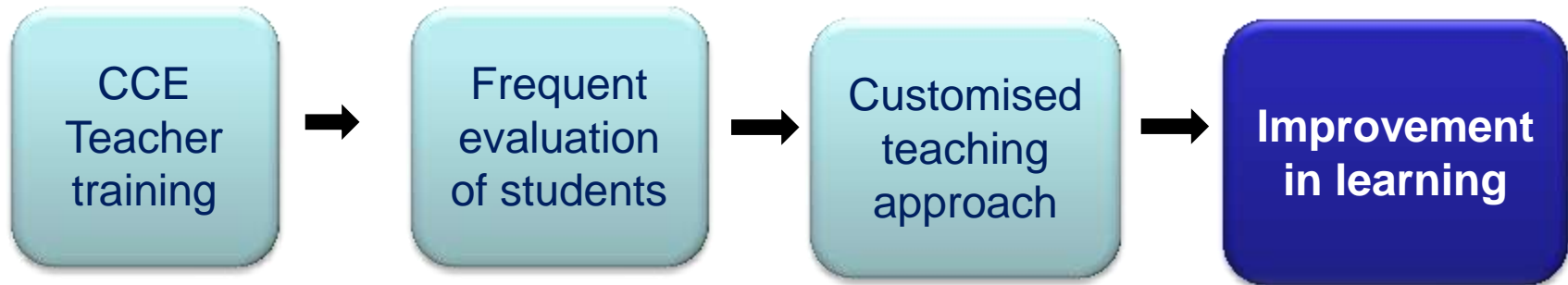


Process monitoring showed:

- 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



Assumptions not met

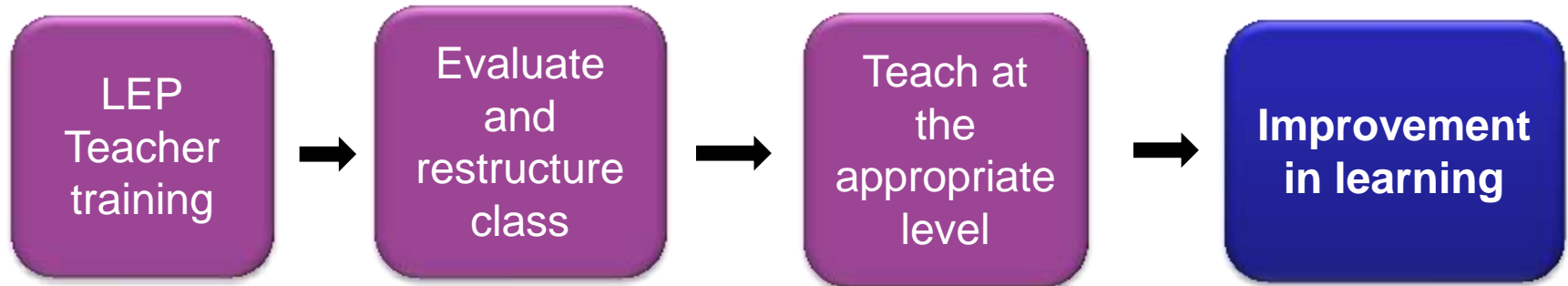
Teacher training is adequate.

Teachers have time and resources to implement.

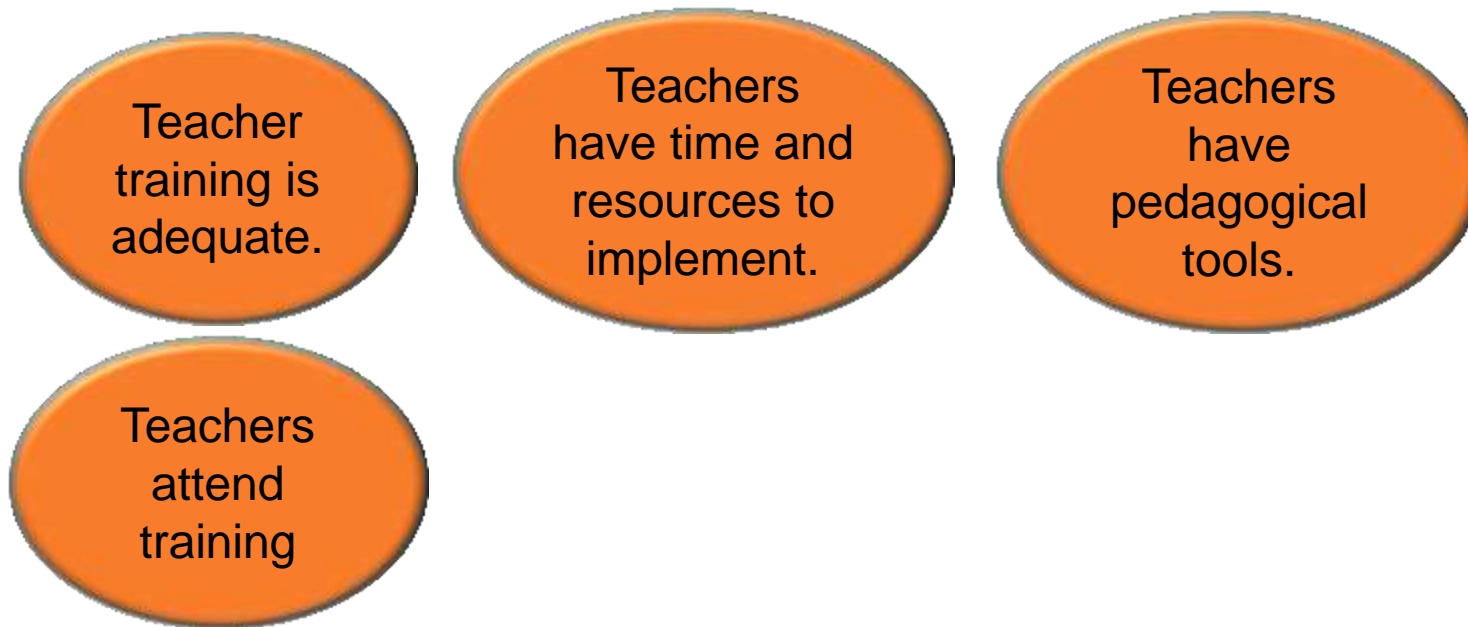
Teachers have pedagogical tools.

Teachers attend training

LEP Theory of Change



Assumptions met in most part



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

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