

LOGIC MODELS TO SUPPORT PROGRAM DEVELOPMENT AND EVALUATION IN URBAN DISTRICTS

A WEBINAR SPONSORED BY THE URBAN SCHOOL IMPROVEMENT ALLIANCE



Introduction to Logic Models to Support Program Development and Evaluation in Urban Districts

What is this workshop?

This workshop is designed as a tool for representatives of school districts and schools to learn about how to utilize logic models for effective program design, implementation, monitoring and evaluation.

What is the purpose of this work?

Beginning in 2012 the ten Regional Educational Laboratories have undertaken building and supporting research alliances on topics of importance to states or local school districts. Some examples of these topics include *educator effectiveness* and *supporting all students to become ready for college and careers*. Each of these alliances established a research agenda that includes questions that will guide their work over the next three to five years. The Regional Educational Laboratory Northeast and Islands (REL-NEI) has been involved in work with a set of eight research alliances that are intended to be sustained collaborations among researchers, administrators, policymakers, and practitioners. These alliances focus on a particular priority for the purpose of increasing state and local capacity to use data and research to inform decisionmaking in that priority area. We developed this workshop to build state and district leaders' capacity to design, implement, and evaluate programs and policies that address some of the most pressing educational issues.

Why the workshop?

This Workbook was developed to assist groups, like the alliances as a whole as well as members of the alliances within their own educational contexts, to learn about and build logic models to support effective program designs and evaluations. Based on feedback from alliance members, REL-NEI learned that many of our district- and state-based members would like to build their capacity to develop logic models that may be utilized to both evaluate their own programs as well as to work more effectively with evaluators whom they engage to conduct evaluations on their behalf. This workshop is designed to provide a primer on logic modeling, a useful tool for program design, implementation, and evaluation. REL-NEI has designed a second workshop that demonstrates how to utilize logic models as a vehicle for building effective evaluation designs.



Logic Models to Support Program Development and Evaluation in Urban Districts: Virtual Meeting (1.5 hours)

Annotated Agenda

5 Minutes	Welcome and Purpose	 Facilitator introductions, followed by overview of agenda and purposes of workshop. Purposes: ✓ To introduce logic models as an effective tool for program or policy design, implementation, and evaluation ✓ To practice the elements of a logic model ✓ To provide guidance in appropriate steps for building a logic model for a program or initiative
5 Minutes	Introducing the Cases	Facilitator reviews cases that will be used as examples throughout the workshop. Activity : Facilitator then introduces initial activity to brainstorm the goals of the programs in the cases and the types of questions that might be appropriate to ask about the cases. Participants enter comments in virtual chat.
15 Minutes	What is a Logic Model?	 Facilitator introduces logic models as a useful tool for program design, implementation and evaluation. Facilitator then introduces three types of logic models with three different purposes. Facilitator discusses overall idea of inputs-outputs-outcomes that drives logic model development and the logic of logic models. Activity: Participants respond to multiple-choice questions about inputs, outputs, and outcomes for
50 Minutes	Elements of a Logic Model	 the College Ready case. Facilitator will walk through all elements of a logic model in this section of the workshop. Several of the elements have an activity associated with the element. (1) Problem Statement Activity Participants brainstorm their own problem statements. (5 min) (2) Outcomes Includes discussion of short- to long-term outcomes and impacts, as well as review of







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Purpose of the Workshop

The purpose of the Workshop is to introduce logic models as a tool for effective program or policy design, implementation, and evaluation. The workshop will:

- Introduce logic models as an effective tool for program or policy design, implementation, and evaluation;
- > Invite participants to practice the elements of a logic model;
- > Provide guidance in appropriate steps for building a logic model for a program or initiative.



Pre-Work Assignment

Pre-work Assignment Directions: Consider a program or policy that you lead or are actively involved in designing, implementing, or evaluating. Come to the session with the following materials or information:

- ➢ For whom is the program or policy designed?
- > What are the main goals of the program or policy?
- > What is the timeline and duration of the program or policy?
- > What are the major activities associated with the program or policy?



Considering Program o Policy to Evaluate

You may wish to use this organizer to make notes on the pre-workshop questions on the preceding page.

Program or Policy Initiative: _____

For Whom	Main Goals or Objectives	Major Activities	Timeline/Duration



Workshop Agenda

5 Minutes	Welcome and Purpose	
5 Minutes	Introducing the Cases	
15 Minutes	What is a Logic Model?	
50 Minutes	Elements of a Logic Model	
10 Minutes	The Logic in Logic Models	
5 Minutes	Closing and Next Steps	



Introducing the Cases

What follows here are two cases, based on real programs or policies, that we will use as examples throughout the workshop. These cases provide a common language for discussing all aspects of the logic model. You may also draw on your pre-work, in which you generated your own example, to use throughout the workshop.

Case Study: College Readines Hig School Program

College Ready is a school-based college access program for 9th-12th grade students. Students are identified for the program based on Free and Reduced Lunch status, recommendations from school guidance counselors, and/or recommendations from 8th grade English and Math teachers. Students participate in monthly meetings as a group with the College Ready staff, are provide with one-on-one counseling with College Ready staff, are assigned an adult mentor and a peer mentor, and participate in a series of evening and summer workshops. In addition, families make a commitment to the program and attend a series of workshops specifically designed to prepare the whole family for the college application process. The goal of the program is to significantly increase college attendance among the low-income students.

Case Study: Blended Learning Schools

An urban district is going to convert a few of its schools into blended learning schools (in which students learn both online and with a face-to-face teacher to personalize their instruction). The schools will be using a model called the individual-rotation model that allows students, within a given course or subject, to rotate on an individually customized, fixed schedule, between online courses and a variety of classroom environments. Each student has his/her own netbook and a unique schedule for where he/she needs to be and when. Students spend time with face-to-face teachers and with online content. The model includes both online and face-to-face teachers, as well as site coordinators and a principal who is involved in daily classroom observation. The goal of this model is to improve student achievement and individualize instruction.

The purpose of this section of the workshop is to provide some common examples for use as we work through the exercises in the workshop. Participants may use these examples or examples they have brought with them to the workshop.

Activity: Virtual Discussion of Cases

1. Individually (2 Minutes)

Directions: Working on your own, consider the College Ready case above. What are the goals of the program? What might we want to know about it?

2. Large Group "Discussion" (3 Minutes)



Directions: <u>On Adobe, enter your ideas about the goals of the program and what you might want to know about it.</u>

The purpose of this exercise is to provide some common examples to use throughout the workshop as well as to make the connection between existing programs and how a logic model can support program design, implementation, and evaluation.

Facilitator will make connections between the comments/questions raised and why we use logic models. This is covered in the next section.

Supporting materials for this section include:

• Slide 9



Case Study Brainstorm

Work independently for two minutes to list the potential goals and questions that we might have about the program. Consider questions of implementation, effectiveness, and impact.

What are the goals of the program/policy?	What do we want to know about the program/policy?



What Is a Logic Model?

In this section of the Workshop we provide a primer on logic models, including different types of logic models and their potential purposes. Logic models provide a simplified picture of the relationships between the program or policy inputs (resources, strategies, activities) and the desired outcomes of the program. Logic models present a theory of action or change that drives the program or policy, and makes explicit any assumptions about both the resources at the disposal of the program as well as the rationale behind the effort.

A logic model is valuable in supporting:

- Program Planning
- Program Implementation
- Program Evaluation

Why use a logic model?

- Brings detail to broad goals;
- Helps identify gaps in program logic and clarify assumptions;
- Builds understanding and promotes consensus;
- Makes explicit underlying beliefs;
- Helps clarify what is appropriate to evaluate and when;
- Summarizes complex programs for effective communication.

A logic model is very useful in designing program and policy evaluation, as a logic model helps to clarify both what the program, initiative, or policy is and what it isn't. This kind of clarification is very helpful in building an evaluation design that can capture the program's or policy's influence and impact. A logic model is not a fully developed plan for designing or managing a program or policy, nor is it an evaluation plan. While logic models are useful tools for building program plans or evaluation designs, additional work is necessary to create both programmatic and evaluation plans.

Types of Logic Models

Not all logic models are the same, nor are they designed for the same purpose. Just as logic models may aid in program design, implementation, and evaluation, the type of model developed varies somewhat based on its purpose. There are three main types of logic models:

- > Theory Approach Model
- Activities Approach Model
- Outcomes Approach Model



Theory Approach Models

Logic models that describe the overall theory of change provide a "big picture" of the program and may be useful for program design and overall communication of the program theory. These models provide a clear description of why the developers believe the program or policy will be effective in achieving the goals. For example, in the example of blended learning, a theory approach logic model might help clarify the assumptions implicit in the push for alternatives to traditional brick and mortar classrooms, and describe the relationship between initiating blended learning and the expected outcomes for students who participate.

Consider:

What might be the logic in a theory approach model for your own program or policy? (The "big picture" theory of change about your initiative?)

Activities Approach Models

The Activities Approach model is most focused on laying out the specific strategies and activities associated with a program. These models closely examine the relationship among the activities, considering questions of sequence and timing of implementation, as well as how these activities link to outcomes. This type of logic model is most useful in program implementation, monitoring, and management. In the College Ready example, this type of logic model would consider the different elements of the program and how they would be optimally ordered and managed. For example, what role would the different mentoring components have? How would they relate to one another? In this type of model, relationships among variables are made explicit with arrows, concentric circles, and other graphic representations of relationships.

Consider:

Why consider the sequence and relationship among activities in a logic model? How might that help you?

Outcomes Approach Models

Outcomes Approach models are most useful for program evaluation. They consider the strategies and activities as they relate to the desired results of a program or policy. In these models, the focus is on outcomes, and they often divide the outcomes into short-term and long-term outcomes, and impacts. A theory of change drives these models just as it does the others. However, in an outcomes approach logic model, the emphasis is on examining the outcomes and making the case that the program or policy is responsible for the desired outcomes.

Consider:

Why divide outcomes into short- and long-term? What is the difference between outcomes and impacts?

Supporting materials for this section include: Slides: 10-17



Inputs-Outputs-Outcomes

In its simplest form, a logic model is a graphic representation of the relationship among a program's or policy's inputs (what's invested in the program); the outputs (what's done with these investments); and what the outcomes are (what results).

Take a very simple example: you have a headache and you want it to go away.

- > What is the input?
 - Quiet time
 - o Water
 - A hot compress
 - Two aspirin
- > What is the output?
 - Sit quietly for 5 minutes
 - Put hot compress on
 - Drink a full glass of water
 - Take aspirin
- ➢ What's the outcome?
 - You are more relaxed
 - You are hydrated
 - Your headache goes away
 - You are able to return to your work



Activity: Inputs-Outputs-Outcomes

Now take one of the case examples above (College Ready). Consider the inputs, outputs, and outcomes.

Directions: On Adobe, you will be provided with three multiple choice questions, one for inputs, one for outputs, and one for outcomes, all related to the College Ready case. Select all the options that apply for each question. (The chart below may be useful if working through the activities without the webinar).

Inputs	Outputs	Outcomes

Supporting materials for this section include:

• Slides: 18-22



Elements of a Logic Model

The purpose of this section is to provide an overview of—and opportunities to practice—all elements of a logic model. The elements of a logic model are listed below. In the pages that follow, we will delineate these elements and use examples from the two cases.

- Problem Statement
- Resources (inputs)
- Strategies and Activities (outputs)
- Short-term Outcomes
- Long-term Outcomes
- ➤ Impact
- > Assumptions

Problem Statement

The problem statement is the problem or challenge you face that the program or policy is designed to address.

- ➤ Consider:
 - What is the problem/issue?
 - Why is this a problem? (What causes the problem?)
 - For whom (individual, household, group, community, society in general) does this problem exist?
 - Who has a stake in the problem? (Who cares whether it is resolved or not?)
 - What do we know about the problem/issue/people that are involved? What research, experience do we have? What do existing research and experience say?

Activity: Problem Statement

Consider the problem statement most appropriate to the challenge you face in your work, related to a program you have in place or one you would like to initiate. Brainstorm key ideas associated with the relevant problem.

Directions: <u>On Adobe, enter some notes (modeled after the example in terms of brevity) related</u> to the problem you intend to address through your program or initiative.

Example: Blended Learning

- Students are not actively engaged in their learning
- Courses are sometimes monotonous
- \circ $\;$ Students have limited one-on-one attention from adults
- Students' courses are not personalized
- Students are expected to all work at the same pace



Your Brainstorm: _____

Supporting materials for this section include:

• Slides: 24-26

Outcomes

While outcomes are not the next item one sees when one looks from left to right across a traditional logic model, they are a logical next step to discuss when examining the elements of a logic model. Outcomes ask, "What difference does it make?" In other words, what i the difference that the resources, and strategies and activities, taken together, have on the various participants in these efforts? For example, in the College Ready case, what difference does the mentoring program have on students' daily school attendance? On their grade point average? On their college attendance? In the Blended Learning case, what difference does the integration of online courses and different learning modalities have on students' school achievement?

Outcomes usually come in stages and fall along a continuum from short- to long-term outcomes. The language to describe these outcomes varies, but for the purposes of this workbook, we use short-term outcomes, long-term outcomes, and impact. Other terms you may encounter include:

- Short-term: initial, immediate, proximal
- o Long-term: medium-term, intermediate, midpoint
- Impact: long-term, final, ultimate, distal outcome
- Short-term outcomes: Short-term outcomes are the most immediate and measurable results for participants that can be attributed to the strategies and activities. For example, a program that promotes increased parent engagement in students' college planning might have a short-term goal of increased parental participation in the provided parent sessions.



- Long-term outcomes: Long-term outcomes are the more distant, though anticipated results of participation in the collection of strategies and activities. When it comes to short- and long-term outcomes, it is good to think about the overall time frame for the program. Often, short-term is considered to be 1-3 years, and long-term is considered to be 4-6 years. That is only a suggested timeframe and may not always apply. The important point here is to consider the program and identify the timeframe, specific to the initiative, for shorter- and longer-term outcomes.
- Impact: When we use the term "impact", we mean the desired outcomes that occur as a result of long-term implementation of the strategies and activities. These more long-range goals are dependent on some conditions that go beyond the program's scope of strategies. These may be called the "blue skies" or the big picture types of objectives for the program and ones that are more distant from the actual strategies and activities, and less within the control of the program or policy to realize. Often these are considered to be 7-10 years out from initial implementation.

A Word About Outputs

Some logic models include both outputs and outcomes in the model. Outputs differ from outcomes in that they capture data about what we do rather than what we expect to achieve as a result of what we do. Outputs can best be described as activity data and are useful for tracking program implementation. Outputs often provide detail about the breadth and reach of the strategies and activities. Outputs capture size and scope; they describe or count strategies and activities, such as the number of parent sessions delivered, program participation rates, the number of materials developed or distributed, and so forth. Using the College Ready program as an example, another way to think about the difference between outputs and outcomes is to consider the questions:

Is the parent education program being delivered as intended? (output question) vs.

Is the college acceptance rate for participating students increasing? (outcome question)

Outputs are most useful for the activities approach logic models, or those that are focused on supporting program implementation and monitoring.

One final word: it is important not to confuse outputs for outcomes. A program that is good at delivering activities and services may achieve its outputs without achieving its outcomes. Yet, it is the outcomes that make the difference in response to the problem identified.



Activity: Focus on Outcomes

Being clear about program outcomes is essential for both focused program implementation and for effective evaluation. The table below is designed to promote a step-by-step approach to outcome development. The columns are:

- Who is the target? Who is the group you are targeting with your strategy? Is it students? Parents? A school? In this example, based on the college ready case, the target is participating high school seniors in three high schools that participate in the program.
- What is the change desired? Here the important idea is to use an action verb to demonstrate a kind of change or an impact. For example: increase, improve, engage...
- In what? What is the activity, strategy, or program in which the target population is going to enact this desired change? What is the resulting action in which the target population will engage to achieve the goal?
- By when? Here is where you begin to clarify the timeline for outcomes. Is a particular outcome a short-term or long-term outcome?

Directions: For each of the column headers (the target, change desired, etc.), enter an example from your own context, related to a program or policy initiative you have in place or would like to develop. <u>On Adobe, type in the target you have identified</u>.

The Target	Change desired? (action verb)	In what? (results)	By when?
Participating high school seniors in three urban high schools	Increase	Completed and submitted applications to post-secondary institutions	By June 2014



Outcomes Checklist

Consider the following criteria when examining your outcomes:

- Are the outcomes important? Are the end outcomes important? Do they represent significant change or improvements that are valued by participants and key stakeholders? Outcomes may be achievable but not really worth the effort. Apply the "Who cares?" test.
- Are the outcomes reasonable? Are the outcomes (from short-term to long-term to impact) connected to one another and linked in a reasonable order? Is it likely that one will lead to the next? Another way to think about this is to consider the "if-then" statements (or logic statements) embedded in a chain of outcomes. For example, will increased parent participation in workshops on college readiness lead to students completing more college applications? Will access to online courses lead to increased student engagement and increased student achievement? Issues of sequence and timing of activities and intended outcomes is important to consider.
- Are the outcomes realistic? Are the outcomes that you suggest realistic given the nature of the problem, your resources, and your abilities? Will the program lead to or help contribute to these outcomes? (Be careful to ensure that the outcomes are realistic given the level of effort.) In other words, if you deliver one parent education class, is it realistic to expect an increase in student achievement? Ask hard questions about the outcomes as they relate to the actual program or policy.
- Are you attending to unintentional or potentially negative outcomes? Finally, it's important to anticipate and consider the unintended or potentially negative outcomes that might result from the set of strategies and activities. What are potential negative effects of the program or policy? What else might happen that is different from what we intend? Or, how else might the sequence of events unfold? For example, could access to online courses lead to lower student attendance? Considering the unintended consequences allows program and policy designers to consider how to prepare for these possible outcomes, and also helps evaluators to be attuned to these possible consequences in the evaluation design.

Another common set of criteria for outcomes are the S.M.A.R.T. goals. These are:

- ➢ Specific
- ➢ Measurable
- Action-oriented
- ➢ Realistic
- ➤ Timed

Supporting materials for this section include:

• Slides: 27-34



Strategie an Activities

Strategies and activities are the program components, or the game plan for the program or policy. This is an inventory of all the strategies and activities designed to achieve the outcomes. However, it is more than a simple listing of activities. There are two questions to ask yourself when you inventory the activities, services, products, and events that make up the program or policy:

> What is the appropriate sequence or order of these activities?

Consider the College Ready case: It may be important that the mentoring element of the program come prior to the delivery of the parent workshop series. Or perhaps these activities should be concurrent. Consider the appropriate order of activities and how they relate to one another.

Are there certain activities that, taken together, add up to a kind of overall strategy? Do certain activities "bundle" or "cluster" together?

Consider the Blended Learning example: Perhaps there are a series of training needs related to instituting the blended learning model, such as new professional development offerings for teachers, new demands on the technical support staff at the schools, and new requirements for paraprofessional support to the classrooms, that bundle together as an overarching strategy. Perhaps this is the "professional training" strategy. This may be different from other strategies associated with the initiative, such as infrastructure or family engagement. Creating these clusters of activities helps to streamline the logic model and also supports evaluation; the evaluation will then assess a set of strategies, rather than individual activities.



Activity: Strategies and Activities in Sequence

Consider a series of activities that are a part of your own work. List some relevant activities, their sequence or order in which they are supposed to occur, and consider the overarching strategy within which these activities fall. In other words, does your chosen program or initiative have a core set of strategies that guide the activities, events, programs, etc. that you provide? (Note: the webinar will not include this activity but this is something you are encouraged to do on your own.)

Activities	Sequence	Strategy
Develop teacher training materials	1st	Professional training
Deliver summer institute for teachers	2nd	Professional training
Conduct technology audit	1st	Infrastructure

Activities	Sequence	Strategy

Supporting materials for this section include:

• Slides: 35-36



Resources (inputs)

Resources include both the material and the intangible contributions that are, or could reasonably be, expected to be available to address the problem.

- Material resources include:
 - o Money
 - Materials and equipment
- Intangible resources included:
 - o People
 - o Time
 - Partnerships
 - Other?

Activity: Intangible Resources

Consider: What are the intangible resources at your disposal? Brainstorm at least 5 non-monetary resources that are available to you in a program you operate or manage.

Brainstorm: Intangible Resources (example from college ready program)

- Community mentors
- Local university space for parent meetings
- Volunteer college admissions directors for application workshop
- o Student volunteers for childcare at parent meetings

Brainstorm: Intangible Resources

Supporting materials for this section include:

• Slides: 37-38



Assumptions

Assumptions are the beliefs we hold about participants, staff, and the program, as well as our assumptions about how the change or improvement we hope to see may be realized. Bein explicit about these assumptions is one of the first and most important things you can do as you consider program design, implementation, and evaluation.

Consider the College Ready case: the program assumes that students who participate in the program want to go to college, and further assumes the college enrollment will lead to a better life for their participants. Often the assumptions embedded in a program or policy are critical to the success or failure of the overall initiative. Assumptions may be <u>internal</u> (assumptions about participants, resources, and how the program will function) or <u>external</u> (beliefs about how change occurs, values embedded in the program, or findings from prior research).

Let's use a simple example. Remember the headache? You had a headache, you tried a few things to get rid of it (water, aspirin, etc.) and you felt better. The outcome was that the headache went away. However, between the problem (the headache) and the outcome (no headache) were several assumptions. For example, you assumed no allergy to aspirin, that there was no loud noise persisting in the background, and so forth. Clarifying and making explicit the assumptions behind the program, both in terms of the specific elements related to implementation and the assumptions embedded in the theory driving the initiative, is critical to the development of a thoughtful logic model.

In the Blended Learning case example, internal assumptions might include a belief that the school leadership will support the blended learning classrooms going forward and that the staffing that is available will be adequate to support implementation. External assumptions related to the blended learning case may include a belief that access to varied learning modalities will increase student engagement and that increased student engagement will yield increased student achievement. These external assumptions are both related to the theory of action or change driving the initiative.



Activity: Uncovering Internal and External Assumptions

Directions: Consider your program or initiative. Brainstorm the range of assumptions embedded in the program design and in the overall theory of action driving the initiative. <u>In Adobe, include</u> <u>one example of an assumption behind your program or initiative.</u>

Internal Assumptions	External Assumptions

Supporting materials for this section include:

• Slides: 40-42



The Logic in a Logic Model

The purpose of this section is to understand the logic embedded in logic models and recognize the need to identify the possible relationships and connections among various elements of the logic model.

The Theory Embedded in the Model: If-Then Statements

Understanding these *if-then* relationships is essential to uncovering the theory of action or theory of change driving a program or policy. If you have access to and apply resources, you will be able to develop programs that will be designed to reach the target participants, and when you reach these populations with the programs or services that you have developed, then you will be able to meet the unmet needs and change circumstances that will lead to solving the problem that initiated this work.

To make this more real, let's consider the Blended Learning case:

- If the district applies funds to support blended learning in three schools, then the schools will provide teachers with professional learning opportunities and establish the infrastructure to support blended learning.
- If the schools provide teachers with professional learning opportunities and establish infrastructure to support blended learning, then students' access to online courses and varied learning environments will increase.
- If students have increased access to online courses and varied learning environments, the teachers will be able to personalize instruction and the students will be more engaged in their learning.
- If the teachers personalize instruction and students are more engaged in their learning, then students will be able to master content and develop their skills at a pace appropriate to the individual student.
- If students master content and develop their skills at a pace appropriate to the individual student, they will perform better on standardized assessments of their learning.

Note that the *then* clause in one statement becomes the *if* clause the proceeding statement. This is important; when we change the language from the *then* to the *if* statement, changes in the intention of the statement may occur. In some logic models, these *if-then* statements are written right into the model to make the theory of change explicit.



Activity: If-Then Statements

Directions: Consider the College Ready case. <u>On Adobe, respond to the prompts to order the *ifthen* statements. If you want to try this on your own, move the statements around to make a series of logical *if-then* statements below. Consider the sequencing of events. The statements below include strategies and activities, traditional outputs, and outcomes.</u>

THEN/IF		
THEN/IF		
,,		
THEN		
	THEN/IF THEN/IF THEN	

(1) We develop a series of college readiness workshops for parents.

(2) Parents use the materials from the workshops to help their students with the application process.

- (3) We recruit parents to participate in the workshops.
- (4) Parents better understand the timelines and demands of the college application process.
- (5) Students meet financial aid and college application deadlines.
- Supporting materials for this section include:
 - Slides: 43-45



Next Steps and Closing Words

In building a logic model, it is important to consider the following questions:

- > Do I understand the different elements of the logic model and how they differ?
- Who should I consult in the development of the logic model? What colleagues and stakeholders should be participants in the development of the logic model?
- > Who will be responsible for seeing this through?
- > How do I know I have captured the theory of action guiding the program?
- ➢ How will we use the logic model once it's developed?

Activity: Next Steps

Directions: <u>On Adobe, take a moment to type in what your next step might be with regard to</u> <u>logic models</u>. Consider where you are in the development of a new program, or an evaluation of a program already in place and how logic models can support this work.

Supporting materials for this section include:

• Slides: 46-53

Final Thoughts on Logic Models

Here are a few quick reminders about what a logic model is, and what it isn't. A logic model is:

- > A graphic representation of the theory of change driving a program or policy;
- > A framework for planning, implementation, and evaluation.

A logic model is not:

- A strategic plan;
- An evaluation design.

While a logic model is not a strategic plan or an evaluation design, it can be useful in developing either of these more detailed resources.

A logic model is likely to be much more effective, useful, and honest if the process of generating the logic model has engaged a broad range of stakeholders in the design process. Including key voices such as staff, parents, students, funders, and others, in discussions about program design and evaluation will promote the buy-in and ongoing support of these participants as well as increase the authenticity of the model.

Logic models should be living documents that are referred to throughout the life of the program and the evaluation, and amended as needed. They are also helpful to guide a program as it evolves, and ensure that the work of the program remains focused on the key goals and outcomes.



Logic models are useful for program evaluation, especially when evaluation is considered in concert with the creating the logic model at the early stages of program development. It is much better to consider evaluation at the outset of a program or policy's development rather than as an afterthought or halfway through program implementation.

Good luck with this work and please contact us with questions!

Karen Shakman, Workshop Facilitator: kshakman@edc.org

Supporting materials for this section include:

• Slides: 54-55

Please complete the evaluation: https://www.surveymonkey.com/s/USIA10242013



References and Resources

There are many terrific resources available online for logic modeling and program and policy evaluation. Many of these were used in the development of this workshop. Several of the resources below provide links to additional resources, also available online.

Logic Model Resources

University of Wisconsin Extension School: <u>http://www.uwex.edu/ces/lmcourse/#</u> The University of Wisconsin Extension School has several useful resources related to logic models and evaluation.

W.K. Kellogg Foundation Logic Model Development Guide. Retrieved 3/16/2013 from http://www.wkkf.org/knowledge-center/resources/2006/02/wk-kellogg-foundation-logicmodel-development-guide.aspx

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Innovation Network, Inc. (date unknown). Logic Model Workbook. Retrieved 3/18/2013 from *http://www.innonet.org/client_docs/File/logic_model_workbook.pdf*

Evaluation Resources

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W.K. Kellogg Foundation Evaluation Handbook. Retrieved 3/16/2013 from http://www.gao.gov/products/GAO-12-208G: http://www.wkkf.org/knowledgecenter/resources/2010/w-k-kellogg-foundation-evaluation-handbook.aspx

The CDC has a range of evaluation resources, some produced at the CDC and some from other sources: <u>http://www.cdc.gov/eval/resources/index.htm</u>

These checklists, created by The Evaluation Center at the Western Michigan University may be useful in planning and monitoring evaluation: <u>http://www.wmich.edu/evalctr/checklists/</u>

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Appendix A: Simple Logic Model Template

Problem Statement:

Resources	Strategies and	Outputs	Short-term	Long-term	Impacts
	Activities		Outcome	Outcomes	
What resources are	What will the	What are the initial	What changes are	What changes do you	What are the hoped
or could reasonably	activities, events, etc.	products of these	expected in short-	want to after the	for changes over the
be available?	be?	activities?	term?	initial outcomes?	long haul?

Assumptions:



Appendix B: College Ready Sample Logic Model

Problem Statement: Low-income high students in selected communities attend college at a lower rate than their middle class peers, leading to more limited opportunities, higher rates of unemployment, and lower earnings.

Resources	Strategies and	Outputs	Short-term	Long-term	Impacts
What resources are or could reasonably be available? -Partnership with 3 public high schools -Community mentors -Local university space for parent meetings -Volunteer college admissions directors for application workshop -Student volunteers for childcare at parent meetings	Activities What will the activities, events, etc. be? -Local college mentorship program -Peer mentors -Student readiness program (workshops) -Parent education (workshops)	What are the initial products of these activities? -Recruit adequate # of mentors for student cohort -Develop and deliver 12 workshops on college application process; SAT/ACT; FAFSA; college life -Develop and deliver 6 workshops for parents -High interest and attendance at all workshops for parents and students.	OutcomeWhat changes are expected in short-term?-Participating students apply to at least one college on time -Parents report increased understanding of the college application process -Students report increased readiness for college -Participating students complete FAFSA forms on time	Outcomes What changes wanted after initial outcomes? -Participating students are accepted to and attend college, remaining enrolled into the 3 rd semester of college -Participating students GPAs above 3.0 at college, into the 3 rd semester -Increased parental engagement in participating high schools' students education	What are hoped for changes over long haul? -Low-income students in participating communities attend college at same rate as middle class peers -Low-income students in participating communities graduate from college at some rate as middle class peers -Participating high schools see increase in parent and student engagement -Participating high schools state test scores increase by x%

Assumptions: College attendance is desired goal for participating communities; high school leaders will remain consistent and support program; parents will show interest and participate in program.



Appendix C: Logic Model Example & Resources for Additional Examples

Educator Evaluation Systems Theory of Action

DOE Context: Implement four pillars of effective teaching: (1) Teacher Evaluation (2) Teacher Preparation (3) Teacher Induction (4) Professional Development

Strategies	Participants	Implementation Outcomes	Intermediate	Impact/Long-Term
Design and implement new teacher evaluation systems that employ multiple measures including: • Teacher observations • Evaluator and teacher	Teachers Classroom and school specialists Administrators (school & district)	District teacher evaluation plans correspond with state guidelines District teacher evaluation systems have been implemented as designed with regard to multiple measures of	Outcomes Based on information gained from evaluation of implementation: • Program changes/ modifications to framework for teacher evaluation	Outcomes Alignment of evaluation and professional support systems; Improvement in teacher practice; Improvement in student
 conferences Student learning objectives Professional growth plans that place teachers in "tracks" based on experience 	Department of Education Students Parents	 student learning and teacher performance including: Teacher observations Evaluator and teacher conferences Student learning objectives 	 DOE provides guidance, training, and support materials for districts Individual district 	 Higher achievement on standardized assessments Decreased dropout rate
 Multiple rating categories Teaching standards based on the Danielson framework 	Other stakeholders (e.g. school committees, school board)	 Professional growth plans District teacher evaluation systems have been implemented with fidelity with regard to use of multiple rating categories 	modifications to teacher evaluation systems Systems differentiate among teachers based on level of experience and performance	

ASSUMPTIONS: (1) DOE assumes that educator evaluation is one of four essential pillars of effective teaching, so to maximize long-term outcomes, all pillars need to be in place and integrated. (2) DOE assumes that if districts implement reformed teacher evaluation systems, that map onto NH Blueprint, then district level systems will lead to long-term outcomes indicated above. (3) DOE hypothesizes that achievement of outcomes will be influenced by professional climate. Schools with favorable climate will be more likely to have successful implementation.



Links to other logic model examples available online:

Several logic model examples at University of Wisconsin Extension: http://www.uwex.edu/ces/pdande/evaluation/evallogicmodelexamples.html

Harvard Family Research Project Family Involvement Project Logic Model: http://www.hfrp.org/var/hfrp/storage/fckeditor/File/logic_eval_diagram1.pdf

Centers for Disease Control Example State Education Agency Logic Model for Healthy Youth program: <u>http://www.cdc.gov/HealthyYouth/evaluation/pdf/sp_kit/logicmodel.pdf</u>

