LOGIC MODELS TO SUPPORT PROGRAM DESIGN, IMPLEMENTATION AND EVALUATION

A WORKBOOK CREATED BY
THE REGIONAL EDUCATIONAL LABORATORY-NORTHEAST AND ISLANDS

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ISBE 21ST CCLC PROGRAM EVALUATION WEBINAR

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EDC

Table of Contents

Introduction to Logic Models to Support Program Design, Implementation, 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 decision-making 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 workshop 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, and utilize logic models as a tool for program evaluation.

The workshop was presented for three different REL-NEI research alliances in 2013, in two different formats. The Puerto Rico Dropout Prevention Research Alliance participated in a face-to-face 3 hours workshop focused on supporting the alliance's effort to generate a common vision for dropout prevention work. The Urban School Improvement Alliance and the Northeast Educator Effectiveness Research Alliance both participated in virtual webinars for a broad audience of practitioners interested in developing skills and capacity to develop and utilize logic models to increase individual and group capacity to design and evaluate programs.

Learning about Logic Models

Annotated Agenda

3 Minutes	**Welcome and Overview**	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 review the elements of a logic model ✓ To discuss the value of logic models for their program
5 Minutes	**Introducing the Case**	Facilitator reviews the case that will be used as an example throughout the workshop. **Activity**: Facilitator then introduces initial activity to brainstorm the goals of the program in the case and the types of questions that might be appropriate to ask about the case. 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 discusses overall idea of inputs-outputs-outcomes that drives logic model development. **Activity**: Participants respond to multiple-choice questions about inputs, activities/strategies, outputs, and outcomes for the College Ready case.
30 Minutes	**Elements of a Logic Model**	Facilitator will walk through all elements of a logic model in this section of the webinar. (1) **Problem Statement:** Includes a discussion on what a problem statement is and the questions that need to be considered in developing an appropriate problem statement. (2) **Outcomes**: Includes discussion of short- to long-term outcomes and impacts, as well as review of what outputs are and how they differ from outcomes. (3) **Strategies and activities** is the next element of

the model. An example will be given on what the strategies and activities are for one of the cases.

(4) **Resources**. In this section material and intangible resources will be discussed.

(5) **Assumptions:** Assumptions will be briefly discussed.

(6) **Context:** How external factors impact programs will be discussed

| 7 Minutes | **Next Steps & Closing** | Facilitator closes workshop with discussion of some next steps for developing a logic model and a reminder of how logic models can support effective program design and evaluation. There will be an invitation to be in touch with further questions. **Activity**: Participants indicate a next step for their work in the chat. |

Purpose

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 and policy design, implementation, and evaluation;
➢ Review the elements of a logic model;
➢ Discuss the role and value of logic models for your program.

Agenda

3 Minutes	**Welcome and Overview**
5 Minutes	**Introducing the Case**
15 Minutes	**What is a Logic Model?**
30 Minutes	**Elements of a Logic Model**
7 Minutes	**Next Steps and Closing**

Introducing the Case

What follows here is one case, based on a real program or policy that we use as an example throughout the workshop. This case provides a common language for discussing all aspects of the logic model.

Case Study: College Readiness High 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 provided 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.

The purpose of this case and the activity associated with it is to provide some common examples for use as you work through the exercises in the workshop.

Activity: Discussion of Case

1. <u>Individually</u>

   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. <u>Large Group "Discussion"</u>

   Directions: What are your ideas about the goals of the program and what you might want to know about it?

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.

In most basic terms, logic models provide a kind of map for a program or initiative, helping to clarify a program or policy's destination, the pathways toward the destination and markers along the way.

Consider:
➢ Where are you going?
➢ How will you get there?
➢ What will tell you you've arrived?

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 Monitoring
➢ Program Evaluation

Why use a logic model? 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.

What are the limitations of a logic model?

➢ A logic model is <u>not</u> a fully developed plan for designing or managing a program or policy;

➢ A logic model is <u>not</u> 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 college readiness, a theory approach logic model might help clarify the assumptions implicit in the push for programs for low-income students and families, and describe the relationship between initiating the college going process 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?

Inputs-Strategies/Activities-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 strategies/activities; 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?
    o Quiet time
    o Water
    o A hot compress
    o Two aspirin

  ➢ What is the strategy/activity? (e.g. what do you <u>do</u> with the inputs?)
    o Sit quietly for 5 minutes
    o Drink a full glass of water
    o Put hot compress on
    o Take aspirin

  ➢ What is the output?
    o You are hydrated
    o You are starting to feel more relaxed

  ➢ What's the outcome?
    o You are relaxed
    o Your headache goes away
    o You are able to return to your work
    o You are happy

Activity: Inputs-Strategies/Activities-Outputs-Outcomes

Now take the case example above. Consider the inputs, strategies/activities, outputs, and outcomes.

Directions: <u>Review the College Ready case and include the possible inputs, strategies/activities, outputs, and outcomes below.</u>

Case: _____

Inputs	Strategies/Activities	Outputs	Outcomes

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 case.

- ➢ Problem Statement
- ➢ Resources (inputs)
- ➢ Strategies and Activities
- ➢ Outputs
- ➢ Short-term Outcomes
- ➢ Long-term Outcomes
- ➢ Impact
- ➢ Assumptions
- ➢ Context

Problem Statement

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

- ➢ Consider:
  - o What is the problem/issue?
  - o Why is this a problem? (What causes the problem?)
  - o For whom (individual, household, group, community, society in general) does this problem exist?
  - o Who has a stake in the problem? (Who cares whether it is resolved or not?)
  - o 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?

Finally, ask yourself: is the problem too big? Is it too small? Your final problem statement should be targeted and specific, but it should not be a simple restatement of the program as a need. For example, in the college ready case, you would not want the problem to read: "Low income students are not attending college in comparison to their middle class peers" In this example, the problem is really a statement of the lack of the program. Rather, you want the problem to address the real issues underlying the need for the program, such as "students lack knowledge on the college going process".

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. Model your brainstorm after the example below, in terms of brevity.

Example: College Ready Case

> - o Low income students' college going rates are very low
> - o Low income students have more limited opportunities
> - o There are higher rates of unemployment among low income workers
> - o Low income workers earn less wages throughout their lifetime than their middle class counterparts.

Your Brainstorm: _____

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 is the difference that the resources, and strategies and activities, taken together, have on the various participants in these efforts?

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
- 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. Sometimes, short-term is considered to be as short as 6 months or as long as 3 years. Long-term might be 2 years or as long as 6 years. 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.

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.

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, using the College Ready example, will increased parent participation in workshops on college readiness lead to students completing more college applications? Will mentoring students increase matriculating in college? 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 the readiness program lead to students not applying to college? 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.

Strategies and 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 College Ready example: Perhaps there are a series of workshops related to the college going, such as how to appropriately complete college applications, filling out the FAFSA, and educating parents on the process and what is required of them, that bundle together as an overarching strategy. Perhaps this is the "Student and Parent education" strategy. This may be different from other strategies associated with the initiative, such as mentorship 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 workshop materials for student readiness program	1st	Student and parent education
Deliver student readiness workshops	2nd	Student and parent education
Recruit community mentors	1st	Mentorship development

Activities	Sequence	Strategy

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)

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.

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
    - o Materials and equipment

- ➢ Intangible resources include:
    - o People
    - o Time
    - o Partnerships
    - o 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 case)
- o Community mentors
- o Local university space for parent meetings
- o Volunteer college admissions directors for application workshop
- o Student volunteers for childcare at parent meetings

Brainstorm: Intangible Resources

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. Being 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 that college enrollment will lead to a better life for their participants. Often the assumptions embedded in a program or policy is 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.

Context

Context is the set of circumstances, environments, policies or facts that surround a particular event, situation, etc. These include but are not limited to, history, culture, climate, social strata, region, and political circumstances. Context can determine how the program will be implemented, how it will operate, how program participants will receive it, and how it will be sustained.

Let's return to the College Ready case. The program's main clientele are those students who receive free or reduced lunch, so socio-economic status will likely effect how parents and students participate. For instance, if families are low income, they might have multiple jobs that might impact participation. This factor might affect the times of day that the program is offered, as well as the expectations for family participation.

Consider the aspirin example. It might be a good idea to take aspirin to relieve a headache, but what is the culture in your household about taking the over the counter medication? Is this a norm within your family? If not, you may not make use of that strategy to relieve your headache. What strategies are culturally appropriate? Clarifying the context of the program can help articulate under what circumstances the program will operate and be successful.

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.

Internal Assumptions	External Assumptions

Activity: Identifying Contextual Factors

Directions: Consider your program or initiative. Brainstorm external factors that influence how the program is administered and how it operates.

Contextual Factors	How Our Program Operates to Address Them

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 College Ready case:

➢ If we develop a series of student workshops focused on the college going process.
➢ If we develop a series of student workshops focused on the college going process, then students may attend.
➢ If students attend, then they will have more knowledge on what it takes to apply to college.
➢ If they have more knowledge on what it takes to apply to college, they may be more willing to consider college as an option.
➢ If consider college as an option, college applications increase.

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. 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.

IF _____ THEN/IF _____

THEN/IF _____ THEN/IF _____

THEN/IF _____ THEN _____

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

(2) Parents 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.

(6) Parents attend the workshops.

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: Discussion

Directions: Take a moment to consider how you can use logic models in your work.

- Who is using logic models around you?
- How are they being used?
- What makes them useful? What do you see in the overview of logic models here that might be helpful or relevant to your work?
- What more do you need to make them useful and effective in your work?

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 that 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 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!

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Appendix A: Simple Logic Model Template

Problem Statement:

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

Assumptions:
Context:

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/Inputs	Strategies and Activities	Outputs	Short-term Outcome	Long-term Outcomes	Impacts
What resources are or could reasonably be available?	*What will the activities, events, etc. be?*	*What are the initial products of these activities?*	*What changes are expected in short-term?*	*What changes wanted after initial outcomes?*	*What are hoped for changes over long haul?*
-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	-Local college mentorship program -Peer mentors -Student readiness program (workshops) -Parent education (workshops)	-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.	-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	-Participating students are accepted to and attend college, remaining enrolled into the 3rd semester of college -Participating students GPAs above 3.0 at college, into the 3rd semester -Increased parental engagement in participating high schools' students education	-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.

Context: College preparation is a family affair; Targeting students of low socio-economic status; previous college readiness programs.

Appendix B: Resources for Additional Examples

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: http://www.uwex.edu/ces/lmcourse/# 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-logic-model-development-guide.aspx

Harvard Family Research Project and Coffman, J. (1999). Learning from Logic Models: An Example of a Family-School Partnership Program. Retrieved 3/16/2013 from http://www.hfrp.org/publications-resources/browse-our-publications/learning-from-logic-models-an-example-of-a-family-school-partnership-program

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

The Administration for Children and Families, Office of Planning, Research, and Evaluation (2010). The Program Manager's Guide to Evaluation, Second Edition. Retrieved 3/16/2013 from http://www.acf.hhs.gov/programs/opre/resource/the-program-managers-guide-to-evaluation-second-edition

Bond, S., Boyd, S., and Rapp, K. (1997). Taking Stock: A Practical Guide to Evaluating your own Programs. Horizon Research, Inc. Retrieved 3/16/2013 from http://www.gao.gov/products/GAO-12-208G http://www.horizon-research.com/reports/1997/taking_stock.php

Centers for Disease Control (August, 2012). Implementing Evaluation: Learning and Growing Through Evaluation. Retrieved 3/16/2013 from http://www.cdc.gov/asthma/program_eval/guide.htm

Chinman, M., Imm, P., and Wandersman, A. (2004). Getting To Outcomes 2004: Promoting Accountability Through Methods and Tools for Planning, Implementation, and Evaluation. Rand Corporation: Santa Monica, CA. Retrieved 3/16/2013 from http://www.rand.org/pubs/technical_reports/TR101.html

Patton, M. Q. (1997). Utilization-Focused Evaluation: The New Century Text. SAGE Publications: Thousand Oaks, CA.

United States Government Accountability Office (January 2012). Designing Evaluations. Retrieved 3/16/2013 from http://www.gao.gov/products/GAO-12-208G

W.K. Kellogg Foundation Evaluation Handbook. Retrieved 3/16/2013 from http://www.wkkf.org/knowledge-center/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: http://www.cdc.gov/eval/resources/index.htm

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