



TAKING CHARGE CHANGE

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Foreword

What a great ride my journey with *Taking Charge of Change* has been. This little book resulted from the work of the Concerns-Based Adoption Model (CBAM) team at the University of Texas at Austin Research & Development Center for Teacher Education (R&DCTE), where the constructs of the model were created. Our CBAM team was able to identify very early the roles that principals play with faculty in the change process, initiating the conversation about principals' instructional leadership that continues so actively today.

Working on that research and development team has been just part of the journey. Since the center closed, my role has been one of observation and support, giving advice and counsel to those adopting and implementing the diagnostic parts of the model covered in *Taking Charge of Change*—Stages of Concern, Levels of Use, and Innovation Configurations. In addition, it has been professionally rewarding to use the CBAM prescriptive framework of “game plan components” to designate the research-based strategies necessary for successful change. I have always thought of *Taking Charge of Change* as the “primer” or the first read that a student of change should undertake.

In 1987, Ron Brandt, executive editor of ASCD’s *Educational Leadership*, charged us with sharing the tools and techniques of the model with busy practitioners who did not have much time for lengthy reading materials. He said to be crisp and straightforward and leave out much of the research. He advised us to put in what a novice needed to know about our work that would be helpful in schools and districts struggling with change.

We followed Ron’s advice, and this book was the product. In the past 27 years, it has been used on many college campuses, in untold numbers of school districts and schools across the United States and Canada, and on other continents. Individuals all around the globe have discussed *Taking Charge of Change* and its relationship to their change project in person, via phone calls, emails, and webinars. How they have used this little book as an

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introduction to their understanding and guidance of their change projects has been very exciting indeed.

We are always clear to share that this book is the streamlined version. There are other books that include descriptions of the research studies and their results that underpin the model. Gene Hall and I wrote *Implementing Change: Patterns, Principles, and Potholes*, one such volume in 2001 that was published by Allyn and Bacon. Subsequent revisions and the 4th edition, published by Pearson, ©2015, of this work are available, with new insights and understandings gained since the earlier publications were created.

We have been saddened by the loss of two of the researchers who were significant contributors to the CBAM work. We lost Susan Loucks-Horsley in an accident in 1999; William (Bill) L. Rutherford succumbed to cancer in 2002. Both Sue and Bill served multiple years on the original CBAM team, and Bill did significant work on *Taking Charge of Change* as a member of the writing team. To them we remain indebted.

Ed Tobia, EdD, SEDL program associate, and I rewrote Chapter 5 “The Role of Effective Change Facilitators” in *Taking Charge of Change* for this new print-on-demand version. In this chapter, we present strategies and actions to support change, game planning with the strategies, a thorough treatment of the facilitator team, and guidance for initiating the change process as well as frequently-asked questions (and answers) about facilitators and interventions.

In addition to Ed, SEDL staff Dale Lewis, PhD, and Jason LaTurner, PhD, who currently train and consult on CBAM initiatives, contributed to this 2014 revision of *Taking Charge of Change*. We sprinkled citations to newer publications throughout this work while maintaining references to seminal readings on practical applications of CBAM theories originally established at UT’s R&DCTE.

My personal hope is that this little book has helped practitioners gain an initial understanding of the complexities and demands of change efforts—and that *Taking Charge of Change* will continue to contribute to the successful improvement of educational practice, and thus, to the increased successful learning of all our students.

Shirley M. Hord, PhD
2014

1. You Are In This Book

In Springdale School District, student achievement scores had declined for five years. Alarmed, the school board directed Julia Jenkins, the assistant superintendent for instruction, to develop a plan and recommend ways of turning the scores around. Jenkins, too, had been concerned and had been looking into some ways to address the problem. After exploring a number of alternatives, she prepared to introduce an effective teaching program used by a number of other districts in the area. In this program, teachers consider particular instructional decisions when planning and delivering instruction. Furthermore, teaching is structured in a step-by-step approach that has effectively increased student learning. Jenkins found that participating administrators and teachers in the other districts were enthusiastic about the program. They believed they were starting to see improvements in student learning as a result of its use.

Jenkins and two elementary and two secondary instructional coordinators attended a week-long training session to learn firsthand how teachers could be trained in the skills of the effective teaching program. When they returned to Springdale they were enthusiastic about introducing it in their district. Assistant Superintendent Jenkins recommended to the school board that the district make a three-year commitment to implementing the new program. "Three years!" The school board president could not understand the need for devoting three years to

bringing the program to teachers. “Didn’t we do science in nine months last year?” After an intense four-hour discussion, the board reluctantly appropriated 60% of the requested funds to support the program, instructing Jenkins to proceed with the program with teachers at all grade levels. It was to be Jenkins’s program, and the board wanted regular reports of its results.

With the board’s directive, Jenkins became responsible for a school improvement effort.

IN THIS SCENARIO, WE SEE AND FEEL JULIA JENKINS’S QUANDARY. Some of us know it from our own experiences; others can foresee it in their own future. In this hypothetical case study we see a program that promises to improve the instructional practices of teachers, and thus increase learning outcomes for students, but one that is allotted barely sufficient time and support for integration in classrooms. The program is sure to seesaw between pressures for immediate results urged by the board and demands of time, energy, and actions needed for its successful implementation. “Why three years?” the board asks. Clearly Jenkins must “school” the board in understanding just what is required for effective school change and improvement. At the same time, she faces a pressing demand to mobilize resources and people—there is not a moment of the three years to waste.

Why This Book

You are in this book.

In your professional life you have been or will be involved in processes of institutional change—as a manager, as a person assisting the process, or as one expected to adopt an innovation. Primarily, this book is about and for people like Julia Jenkins who are responsible at the district level for improving schools, and for others at the school level who facilitate change in their schools; its concepts, however, touch the lives of each of us in the ever-changing world of education.

The focus is on change facilitators and on methods to make their job more effective. To these change facilitators we offer concepts, constructs, tools, and techniques.

This book, then, is written for each of you who wishes to become a more effective facilitator of change. It does not address directly the abstract concerns of scholars who observe and study school change, although we believe scholars may find the book’s applications of research to be of interest, as will policymakers who must make decisions that thrust change on schools.

In this first chapter, we explain the term “change facilitator” and discuss who change facilitators are. We describe the knowledge base that supports this

book and relate how we had the opportunity to help develop this knowledge. In the last part of the chapter we share some early learnings and the conclusions on which our work rests; finally, we provide an overview of the remaining chapters.

Who Is a Change Facilitator?

A change facilitator can be anyone. You may be one yourself. Facilitators are found in central offices of school districts where they may be curriculum coordinators or consultants; subject specialists or directors; assistant, associate, or deputy superintendents; and perhaps (in small districts) even superintendents. Facilitators are also found at the school level among principals, vice principals, and assistant principals. Department chairs, mentor teachers, master teachers, grade-level chairs, or teachers on special assignment may be change facilitators. And teachers frequently relate to each other in less formal ways as facilitators.

It's not important where on the organizational chart the person falls; what is important is that facilitators support, help, assist, and nurture. Sometimes their task is to encourage, persuade, or push people to change, to adopt an innovation and use it in their daily schooling work. ("Innovation" is our generic term for any program, process, or practice—new or not—that is new to a person). We have chosen the name for these supporters thoughtfully; we believe the term "facilitator" embodies the spirit and behaviors of the tasks mentioned above. Some would use the label "change agent." We prefer "change facilitator," as we believe this person, in working directly with people who are expected to change, must engage this very human challenge in a personalized, caring way. For brevity, we frequently refer to the change facilitator as the "CF."

Interestingly, we observe school improvement efforts in which facilitators are not clearly identified. Central office staff may think a principal is the CF, while the principal may believe this role resides in the central office. A basic tenet of successful change management is that someone must be in charge, the locus of control for the change process must be clearly identified, and the facilitator must be skilled and prepared to act.

If your dilemma is that you do not have the requisite skills or know what to do, then this book is for you. Our goal is to help you acquire some basic understandings and skills to facilitate change in your school setting.

How We Got Started

For more than a decade, we worked in an uncommon alliance, centered on federally funded research conducted at the Research and Development Center for Teacher Education (R&DCTE), at The University of Texas at Austin. Along with other other colleagues, we engaged in a collabora-

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tive enterprise to learn how schools might go about the process of changing. We did not focus on what schools should do; there has long been a ready supply of research-based advice on that matter. What we were about was an unflinching pursuit to learn about the school improvement *process*; what it is, whom it involves, what are its effects, and how it might be managed. Our findings integrate research studies on teachers and administrators, are seasoned by our experiences in classrooms and schools, and are refined with craft knowledge and clinical judgment.

In addition, we have been fortunate to study and plan for school improvement with international colleagues. We have worked with schools, school administrators, and researchers in Australia, Belgium, Canada, England, France, Germany, Italy, Japan, The Netherlands, Norway, Sweden, and Switzerland, all in settings where attention and concern is being focused on improving teachers' and administrators' practice. We have looked through different lenses at school improvement and have gained insights from different cultures and perspectives. These experiences have sharpened our images of our own schools. What we share, then, is both experience-based and research-based, although we will not use this book as a research forum. We have sprinkled modest research citations throughout the book, but we determinedly kept them to a minimum. For those who seek to know more and at greater depth, the appendix provides relevant references.

Why was this team given an opportunity to study change in schools? The headwaters lie in the late '50s, when a critical school reform movement was initiated, subsequent to the widely publicized launch of Sputnik, stimulating a major examination and assessment of U.S. schools. As a result, a great deal of time, energy, and fiscal resources were given to the development of new curricula, primarily in mathematics and science. Accompanying this development effort was an innocent but unfortunate assumption that if a curriculum program was sufficiently appealing and attractively packaged, it could be delivered to teachers and, without further ado, the program would appear in their day-to-day classroom work (Hord 1987).

Classroom teachers in the '60s were faced with the introduction of "new math" into their schools. They received corresponding math textbooks, a quick orientation to the curriculum, and a "good luck" bestowed upon them. The teachers describe the experience as having the teacher's guide permanently affixed to their arms. Nightly study for preparing the next day's lesson became the norm. The frustration of trying to use this radical new approach to mathematics—to enable students to understand mathematical operations rather than simply doing rote computing—caused many teachers to give up and return to their old, familiar texts.

By the time new, inquiry-oriented science curriculums were being sent to schools, an understanding dawned that teachers needed more than the “stuff” of the program. As a result, the National Science Foundation began to experiment with providing summer institutes for training in using the materials and equipment.

Providing both the materials for new programs and training in their use was expected to make program implementation a certainty. One year after a new program was introduced, an evaluator typically appeared to find out how well students were learning as a function of the new curriculums. Great surprise and consternation followed the evaluation results, which usually reported no significant improvement in scores. The typical conclusion drawn from such discouraging data was that the program was not a good one. Thereafter, the program was rejected and a new one brought on board. Thus, an annual cycle developed: introduce a new curriculum, allow it one year, evaluate its results, and then discard it.

The introduction/evaluation/rejection cycle became so commonplace that after a few years teachers accepted this peculiar state of affairs. Upon hearing that yet another new program was on its way, they were wont to say, “Hang loose, this too will fade away.” And many are still saying it.

Frustration mounted in the nation’s schools until one day a bright idea dawned: “Hey, wait a minute, maybe the program isn’t to blame; maybe there’s a problem with the process being used to change schools.” Thereupon, a decision was made to investigate this national dilemma. The federal government, through the National Institute of Education, funded studies to look into educational change and improvement processes in an effort to understand how change could become a successful enterprise.

What We Have Learned about Change

Our R&DCTE team was awarded the opportunity to study how schools might go about improving successfully. In doing so, we verified a number of assumptions about change that were the basis of a model upon which our research was founded: the Concerns-Based Adoption Model (CBAM). Let us share these conclusions:

1. *Change is a process, not an event.* One of the most persistent tendencies of those who do not appreciate the complexities of change is to equate change with handing over a new program, which is an event. This, in fact, was the false tenet on which school improvement was based in the past. We now know that change is a process occurring over time, usually a period of several years. Recognition of this is an essential prerequisite of successful implementation of change.

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2. Change is accomplished by individuals. A common notion in considering change is to think about it in ambiguous, impersonal terms. But change affects people, and their role in the process is of utmost importance. Therefore, individuals must be the focus of attention in implementing a new program. Only when each (or almost each) individual in the school has absorbed the improved practice can we say that the school has changed.

3. Change is a highly personal experience. What we mean here is that individuals are different; people do not behave collectively. Each individual reacts differently to a change, and sufficient account of these differences must be taken. Some people will assimilate a new practice much more rapidly than others; some will engage in the process more readily than others. Change will be most successful when its support is geared to the diagnosed needs of the individual users. If change is highly personal, then clearly different responses and interventions will be required for different individuals. Paying attention to each individual's progress can enhance the improvement process.

4. Change involves developmental growth. We have discovered from studies of change that the individuals involved appear to express or demonstrate growth in terms of their feelings and skills. These feelings and skills tend to shift with respect to the new program or practice as individuals pass through an ever-greater degree of experience. We will consider these feelings and skills in the pages that follow as we see that they can be diagnosed and prescribed for. The techniques for doing so are presented in this book, and they are valuable tools for school leaders and other change facilitators to use in guiding and managing change.

5. Change is best understood in operational terms. Teachers, and others, will naturally relate to change or improvement in terms of what it will mean to them or how it will affect their current classroom practice. What changes in their own or their students' values, beliefs, and behavior will it require? How much preparation time will it demand? By addressing these and other questions in concrete, practical terms, facilitators can communicate more relevantly and reduce resistance to improvement efforts.

6. The focus of facilitation should be on individuals, innovations, and the context. We tend to see school improvement in terms of a new curriculum, a new program or package—something concrete that we can hold onto. But in doing so, we forget that books and materials and equipment alone do not make change; only people can make change by altering their behavior. The real meaning of any change lies in its human, not its material, component. Furthermore, effective change facilitators work with people in an adaptive and systemic way, designing interventions for clients' needs, realizing that those needs exist in particular contexts and settings.

Functioning in a systemic way recognizes that the school as a whole will be affected by whatever is done with respect to even its smallest part. Interventions in one arena may well produce unexpected results in another. Therefore, notions about the speed with which successful school improvement can be accomplished, the specific actions needed to achieve it, and even the shape that implemented change will ultimately take may have to be altered along the way.

In summary, because the CBAM model is client-centered, it can identify the special needs of individual users and enable the change facilitator to provide vital assistance through appropriate actions. This approach helps to maximize the prospects for successful school improvement projects while minimizing the innovation-related frustrations of individuals.

A Few More Observations about School Change

School change can have vastly different meanings to educators in individual schools, districts, and countries. Indeed, we have observed these differences across the constituent groups within a school community and certainly within a single country. One of our cross-national observations has been the different meanings that the term “school improvement” connotes. In Japan, for instance, school improvement seems to be viewed as permeating all activities, focusing on steadily becoming better, in all ways and in all things. School improvement is perceived as “a way of life.” The Swedish view is concerned with altering the overall ethos and aims of the schools. In North America, however, school improvement appears to be associated with specific, frequently single-focused or single-subject curriculum initiatives introduced by local school districts, with increasing input from the state level. Because U.S. school improvement efforts have traditionally translated into the adoption of such curriculum innovations, the CBAM work has addressed this topic, and this book contains useful insights into the process.

A second observation that seems worthy of sharing involves the issue of bottom-up versus top-down change strategies. The word “versus” reflects this issue and the typical bias that persons engaged in the debate about these two different approaches express. We do not engage in the debate except to observe that we have seen both approaches work successfully. Obviously a change or improvement endeavor that originates with a single teacher or small group of teachers, who believe in the change and persuade the entire faculty of the worthiness of the change, has the advantage of a committed core of teachers.

When change begins at a higher level—at the principal’s desk or in the district’s central office—there is a different kind of advantage: the

possibility for more change to occur more rapidly if appropriate kinds of interventions are provided. We have seen both approaches result in effective change and in improved practices in the classroom, school, and school district. The important factor in all cases, whether at the single teacher level or at the level of all teachers across a district is the support and assistance provided to make the change. If properly facilitated, both strategies can work.

An Overview of the Book

We have structured this book and developed its chapters in a way that we hope is practical and provides the reader a clear sense of CBAM and its applications. We have chosen to thread the chapters together by means of the story of Springdale School District, a district that could be urban, suburban, or rural, and (with slight modifications) be of any size. By using the story, we hope to make the messages of each chapter more concrete and more relevant to the reader. Springdale does not represent a specific school district, although it could; rather, it is a composite of many schools and districts we have known. We considered using a different school story for each chapter, but because some explanation of each school's context would be necessary, we decided to save space by retaining the same school district throughout. We should note that while some schools, such as Springdale, use the whole CBAM model, most schools select those dimensions of the model they deem most useful to their particular situation.

So that you might know in advance the book's sequence or in case you wish to jump and sample around, we offer here a brief description of each of the chapters.

Chapter 2. The Various Forms of an Innovation. Innovation Configurations (IC), one construct of CBAM can be used for introducing change and monitoring its implementation. This construct's tool focuses on identifying and describing the various forms of an innovation (or an "improvement" identified for implementation) that different teachers adopt. Innovations are almost always altered by individual teachers to fit the conditions and needs of their students and classrooms. By using IC, innovation component checklists can be developed to identify and describe the various operational patterns of innovations that could be found in classrooms. To describe these different configurations, CBAM researchers developed a methodology and measure that was initially labeled a checklist in the early work on IC. As further study and more complex and sophisticated insights were revealed, the tool became known as an Innovation Configuration Map (IC Map), subsequently becoming known solely by that label. Sample IC Maps are used to show how

to apply this concept in introducing, communicating, and monitoring implementation of a new school improvement practice.

Chapter 3. From the Teacher's Perspective. A primary diagnostic concept that forms a basic tool of CBAM is one that focuses on the “concerns” that teachers experience during change efforts. These concerns range from early self-concerns to task and ultimately impact concerns about change. In Chapter 3, the seven Stages of Concern are introduced and explained. Illustrations of teachers’ concerns are also included. Readers are guided in how to identify Stages of Concern and shown how to use this diagnostic tool in everyday practice.

Chapter 4. Use of an Innovation in Classrooms. A third diagnostic tool comes from the concept of Levels of Use. These Levels of Use portray the way teachers and others work with innovations or new school improvement practices. Levels of Use can identify those teachers who are actually employing the new practices efficiently, those who are still experimenting with them, and those who have not yet started. The eight levels are described and illustrated to give readers a basic understanding of the concept and how to assess Levels of Use as part of daily interactions with teachers.

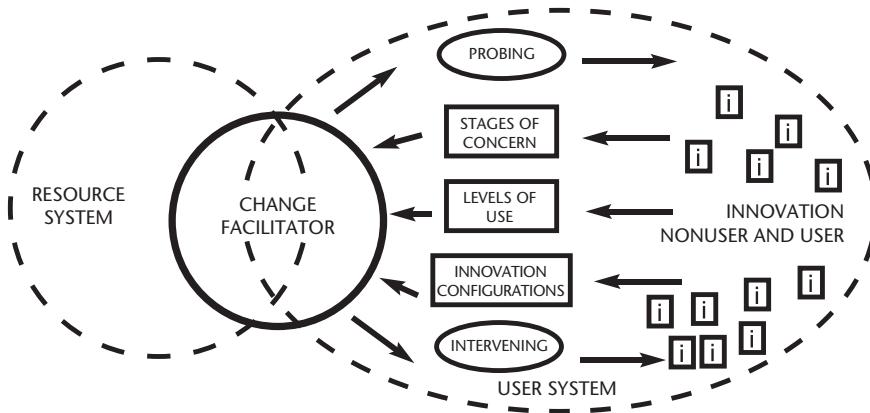
Chapter 5. The Role of Effective Change Facilitators. In this chapter the emphasis is on “game planning” for an overall implementation effort, based on an understanding of Stages of Concern, Levels of Use, and Innovation Configurations. We describe how six functional areas of interventions are provided by change facilitators. Principals are not the only players; others (such as teachers, internal resource persons, and external support people) also play major roles. How these individuals work together to provide the necessary facilitation for those involved in changing is the primary thrust of this chapter. It also demonstrates uses of the ideas and techniques presented in previous chapters.

Finally, we present CBAM’s implications for school management and policy development in a brief conclusion to this book that contains important messages for all who are interested in educational innovation and the improvement of schools.

For readers who appreciate graphic overviews of such models and their parts, see Figure 1.1 on page 10, which organizes the CBAM phenomena that will be described in Chapters 2–5.

In Figure 1.1, note the position of the change facilitator (CF) in the framework and this person’s central importance. The CF is a major factor in the CBAM model and is a person or persons who deliver actions based on the needs of the individuals (denoted by “i” in the drawing) or groups of individuals involved in change and improvement. Facilitators

Figure 1.1. The Concerns-Based Adoption Model



have a resource system available to help individuals change. The resources may be rich or quite thin. Which resources and how and when to use them is grounded in a “concerns-based diagnosis.”

For the diagnosis, the CF uses various techniques for probing the people involved in order to understand them and their needs; such diagnosis can be accomplished through use of Stages of Concern, Levels of Use, and Innovation Configurations. The hypothesis underlying the CBAM model suggests that with diagnostic information the CF can make decisions about how to use resources and provide interventions to individuals to facilitate the school improvement process. This book will show you how to be a change facilitator and how to make the model work for you.

Before we begin our reading and study journey through this book, it is probably wise to be sure that our readers understand our use of the word interventions, for it is used extensively to denote the work of change facilitators.

After extensive fieldwork and research team debate, we settled on the following definition of intervention ...

Any action or event that influences the individual(s) involved or expected to be involved in the process or the change itself is an intervention (Hall & Hord 1984, 2015, p. 27).

2. The Various Forms of an Innovation

In Springdale, Assistant Superintendent Jenkins believed it important for all administrators to be knowledgeable about the new effective teaching program. For this reason administrators would receive advance professional learning before teachers would be expected to use the program. She arranged to have program trainers come to the district and conduct a large group learning session for the entire central office instructional staff and all principals in the district. Teachers received their professional learning session during the summer, and began using the program in the fall.

By October, it became clear to Jenkins that many teachers were uncertain about how the program was to be used. Teachers in one elementary school complained that the new approach was too time consuming, that restructuring all their lesson plans into the new format was creating too much paperwork, and that the approach was so structured that it was stifling their creativity. The secondary coordinators reported that many high school teachers had not changed their teaching practice because it was their understanding that they could choose whether to use or not to use the program. Both the elementary and secondary coordinators reported that teachers were upset when they received a classroom visit because they thought only “weak” teachers were being targeted for visits and were expected to use the program.

In fact, several teachers had mentioned that they thought the district was penalizing the group for the shortcomings of a few by requiring everyone

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to attend the professional learning session. Finally, Jenkins was especially distressed to hear that one principal had told his faculty not to worry about the program, that the teaching approach recommended was mostly common sense, and that good teachers were already doing most of it anyway.

SPRINGDALE'S SITUATION ILLUSTRATES THE COMMON DIFFICULTY IN communicating to all teachers clear and consistent information about the specific elements of a new program and expectations for its use. Moreover, even when clear information is shared with teachers, you, the facilitator, will often find extensive variations in how teachers implement a new program in their individual classrooms. For example, a new reading program may consist of a textbook, a set of supplementary materials, a record-keeping system, and a set of assessment tests. One teacher may use all pieces of the program in exactly the ways the trainer suggested they be used. A second teacher may use the textbook but not the supplementary materials, use some of the assessment tests, and modify the record-keeping system. A third teacher may use only the textbook.

It is important for a number of reasons for you as a facilitator to be able to identify the specific ways in which teachers put a program into operation. (You can help yourself in this task, and greatly improve teachers' understanding of their tasks, by always communicating in specific operational terms what the program is to look like in classroom practice.) Once implementation is under way, you must be able to identify exactly what specific teachers are doing with the program in order to determine how best to assist them. For example, in the reading program example described above, the teacher who is using only the textbook needs a completely different type of assistance than the teacher who is using all parts of the program. You will also need detailed information about how the program is being implemented to be able to report with confidence to parents, school board members, and others. Finally, before you can consider student outcome data in an attempt to answer the question of how well a certain program works, you must be certain to what degree the program actually has been implemented. It is impossible to determine whether a program has merit if, in fact, it has been poorly or only partially implemented.

The Concept of Innovation Configurations

The concept of Innovation Configurations (Hall and Loucks 1981) emerged from our research on the change process. In our studies, we often attempted to answer the question, "How are teachers using X Program?" It soon became obvious that we needed to address a prior question: "What exactly is X program?"

Answering this question is not always as straightforward as it might seem. Often educational programs are defined in terms of their attributes, ultimate goals, or implementation requirements. One might describe a new program in general terms such as “It’s easy to use,” or “It’s been shown to increase student achievement,” or “It’s fun and students enjoy it.” Such statements may be helpful in some ways, but they do not help the teacher to know what to do with the program.

Describing a program in terms of its ultimate goals also offers little help with the task of implementation. For example, an art program might be intended to develop stronger relationships between teachers and the local art museum, thus encouraging students to visit the museum and bring their parents. While teachers need to be aware of the purpose of what they are doing, goals alone cannot tell them how to implement the program in the classroom. Implementation requirements are another common, but inadequate, way of describing programs. A computer program might require that teachers attend four days of training and that each classroom be equipped with ten student terminals. Again, these requirements are important, but do little to specify how the program is to be operated.

While attributes, goals, and implementation requirements are important, we believe it is critical to be able to talk about an educational program in clear, operational terms. To be truly helpful to teachers, you must be able to describe how a program will look in actual practice in the classroom. This concern guided our research and led to the development of the concept of Innovation Configurations.

Innovation Configurations (IC) represents the patterns of innovation use that result when different teachers put innovations into operation in their classrooms. In the course of our early work, we noted that individual teachers (and professors) used different parts of an innovation in different ways. When these parts were put together, a number of patterns emerged, each characterizing a different use of the innovation. We called these patterns Innovation Configurations. We developed a tool, initially named the IC component checklist (Heck, Stiegelbauer, Hall, and Loucks 1981), now called an Innovation Configuration Map for use in identifying the components, or parts, of an innovation and variations in the use of each part. This procedure has helped to answer the question “What is it?” Before we focus our attention on the IC Map, however, it is important to explain some of the basic terms we use in talking about IC (Hord, Stiegelbauer, Hall, and George 2006).

Terminology Related to IC

We use the term *component* to mean the major operational features or parts of any innovation. With instructional innovations, component descriptions are usually based on materials, teacher behaviors, and student activi-

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ties. A simple example would be a math program with three components:

Component 1: Use of instructional materials

Component 2: Grouping of students

Component 3: Testing and use of test results

A language arts program might consist of the following four components:

Component 1: Use of sequenced program objectives

Component 2: Use of program materials

Component 3: Use of prescribed writing process

Component 4: Student recording of writing progress

In some programs, those components that have been determined to be essential to innovation use are designated as *critical*. Other, *related* components are not considered essential to the innovation but are recommended by the developer or facilitator as “nice to have.” Designation of a component as critical or related can be done by a developer, change facilitator, user, or evaluator, preferably through a consensus-reaching process involving all these persons. Also, the designations may change during the life cycle of the innovation. For example, in the case of the math program, the facilitator may decide that during the first year of use, only component 1 (use of program materials) is critical. In other words, teachers must use the program materials, but they may choose to use or not to use components 2 and 3. As implementation progresses and teachers use component 1 successfully, however, the other two components will be given attention and perhaps be designated as critical.

Within each component, there are a number of possible *variations* that might be observed during implementation. Variations represent the different ways in which a teacher can put a component into operation in the classroom. Note the variations in each of the three components of the math program:

Component 1: Use of instructional materials

- a. program materials only
- b. program materials plus basic text
- c. text only
- d. teacher-made materials only

Component 2: Grouping of students

- a. large, heterogeneous group

- b. large, homogeneous group
- c. small groups
- d. completely individualized

Component 3: Testing and use of test results

- a. testing once every six weeks but nothing done with test results
- b. testing weekly with test results fed back to students
- c. student self-testing upon completing each objective

As we have mentioned, configurations are the operational patterns of an innovation that result from implementation of different component variations. In the example above one teacher of the math program might be teaching students as a large group using program materials plus the basic text (component 1, variation b), with testing done every six weeks but nothing done with test results (component 3, variation a). “Component 1, variation b; component 2, variation b; and component 3, variation a”; or “bba” represents this teacher’s configuration. Other combinations of component variations represent other configurations. When configurations for a large number of teachers have been identified, it is possible to determine the most common ones and to identify the teachers who are using identical or similar configurations and those who are not. Again, this information is helpful in determining what types of assistance are most appropriate for specific teachers.

Another term that often comes up in relation to IC is that of *fidelity*. Often people assume that as developers of the IC concept, we must be proponents of strict fidelity, expecting teachers to use a program exactly as it was envisioned by an innovation developer. Actually, we do not take a stand on the fidelity issue; that is, we do not propose that one particular configuration of use of an innovation is what all teachers should be doing. We do, however, argue for the need for facilitators to be well informed about how teachers are using a program, whatever their use may be. It is up to the facilitators of each specific program to determine what “ideal” practice is and to determine how much variation from that ideal is acceptable.

More about IC Maps

As mentioned earlier, the IC Map is a tool for identifying specific components or parts of an innovation and the variations that might be expected as the innovation is put into operation in classrooms or schools. An innovation-specific IC Map should be developed for each program that is to be the focus of a school improvement effort. Once you have developed

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the map, you can use it to introduce the program and communicate how the components and variations might be phased in for classroom use. Once implementation is under way, you can use the map to monitor program progress by interviewing teachers about their use of the program and their typical classroom practice. During or immediately after each interview, you can complete an IC Map for each teacher by circling the number or letter of the variation that best describes that teacher's practice within each component.

The IC Map can be organized by listing components vertically, as is seen for the math program and language arts program (shown on the previous two pages). Then, under each component, left to right, variations of each component are organized across the page. Using this format, you can place the variation judged to be the ideal or most acceptable variation of each component in the far left column, with the other variations ranging in order of descending acceptability across the page so that the least desirable variation appears in the far right column. An example of an IC Map organized in the left-to-right format is shown in Figure 2.1. This format provides a graphic picture of ideal or preferred practice, valuing some variations over others.

In constructing a map, you will find that there is no set number of components that an innovation should have and no set number of variations that a component should have. The number of components will be determined by the major parts of the innovation. Most innovations will have between three and eight major parts, although some complex innovations will contain more. Variations within components should represent meaningful differences in classroom practice and yet not be so numerous as to make it difficult to identify patterns of use. Generally, you will find three to five variations, although in some cases only two variations will exist (as in the case when something is or is not present). Occasionally you may identify more than five variations within a component.

You can identify components of an innovation and variations within components by reviewing written materials on the program and interviewing the developer or some other authority on the program. From this information a preliminary list can be developed. This preliminary list can be useful in communicating what the program is and clarifying expectations for its use. If implementation is already under way when the preliminary list is developed, you can use it to observe and interview a small number of users to verify the initially identified components and variations and to identify others. This produces an initial map. Using the information gained through this initial data-gathering activity, you (often in collaboration with the developer/program authority) can then revise and expand the map to better reflect actual classroom practice. At this time, decisions are usually made about which variations are more

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Figure 2.1. Tutoring Program IC Map

*1. Materials and Equipment

(1)

At least 5 different program materials are used with each child each session.

(2)

At least 3 different program materials are used with each child each session.

(3)

Fewer than 3 different program materials are used with each child each session.

*2. Diagnosis

(1)

Children are diagnosed individually using a combination of tests and teacher judgment.

(2)

Children are diagnosed individually using teacher judgment only.

(3)

Children are not diagnosed individually.

3. Record-Keeping

(1)

Individual record sheet is used to record diagnosis and prescription.

(2)

No individual record sheets are used.

*4. Use of Teaching Technique

(1)

Continually readjusts task according to child needs; uses rewards to reinforce success.

(2)

Does not continually readjust task according to child needs; does not use rewards.

5. Grouping

(1)

Children are taught in pairs.

(2)

Children are not taught in pairs.

*6. Scheduling

(1)

Children are taught for 30 minutes 3 times per week. Each session is equally divided between children.

(2)

Children are taught for 30 minutes 3 times per week, time for each child and each task varies slightly when necessary.

(3)

Children are not taught for 30 minutes per week 3 times per week, or time for each child and each task varies markedly or is not considered.

* Denotes critical components

From: Heck, Stiegelbauer, Hall, and Loucks 1981.

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desirable than others. The revised map then can be used to interview a larger number of users in different adopter sites, and further revisions can be made if necessary.

Constructing maps is a complex task. One- and two-day workshops are available to train facilitators in developing skills in map construction. Our intent here is to introduce you to the concept of IC, the process of IC Map development, and the application of the IC Map in facilitating the implementation of educational programs. For those of you who desire more in-depth information, we have included references at the end of the book.

IC and the Springdale Effective Teaching Program

When Springdale's Assistant Superintendent Jenkins began to realize that teachers felt uncertain about how the effective teaching program was to be used, she met with the instructional coordinators and later with school principals to discuss the matter. The discussions revealed that while everyone seemed to have a general understanding of the program, few people understood *exactly* what was expected of teachers in their use of the program in daily classroom practice. Jenkins realized that a large part of the confusion could have been avoided if she had prepared an IC Map at the outset. Certainly at this time it was important to develop an IC Map in order to communicate expectations about the program and how it was to be implemented.

Working with several of the instructional coordinators and the program trainer who had provided training for the district, Jenkins developed a preliminary map. In mid-November, she used the map to interview and observe a small sample of teachers. Using information gained from these interviews, she and the instructional coordinators made revisions, developing a map shown in Figure 2.2 (pp. 20–21). For the first year of implementation, they decided that component 2: selecting and stating objectives, component 3: explaining and modeling, and component 5: providing guided practice, were most important. (Note the asterisk on the IC Map by these components, indicating that they are considered critical.) When collecting IC data and doing teacher observations, facilitators would focus most attention on these components. Jenkins and her associates identified variations within each component as ideal, acceptable, or unacceptable, to use as a guideline on which to base their expectations for the first year of implementation. In the second year of implementation they would focus more attention on the remaining three components as well as on the initial three components identified as critical during the first year.

In late November, copies of the IC Map were shared with all principals to communicate the district's expectations concerning imple-

mentation of the effective teaching program. The principals decided to meet with their teachers before the winter break, in departmental and grade-level meetings, to discuss the program and explain the district's expectations and priorities for the first year of implementation. Prior to this meeting, principals were encouraged to collect information about teacher concerns (more about this in Chapter 3). Principals then structured their meetings around the concerns and issues raised by teachers. The principals reported that teachers found the meeting helpful and asked numerous questions about how much time they would have before they would be expected to begin using the program and how they would be evaluated on its use.

In January and February, instructional coordinators scheduled a series of grade-level and subject-area meetings focused on the specific components of the program identified as critical in year 1: selecting and stating objectives, explaining and modeling, and providing guided practice. In March and April, teachers were provided opportunities to observe "veteran" teachers using the program in a neighboring school district. A schedule was worked out in order to provide release time for each teacher who wanted to participate in this observation activity; substitutes were hired to cover the classes teachers missed while observing. In May, the principals and instructional coordinators completed an IC Map on each teacher as one part of their assessment of the new program's first year of implementation.

Display and Interpretation of IC Data

Springdale School District's use of an IC Map demonstrates how IC can be used to help clarify a program in the initial phases of implementation. IC can also be helpful in monitoring an implementation effort in progress and in identifying innovation components that may need attention. Depending on the purpose for which the data are to be used, IC data can be organized and displayed in a number of ways. Two ways of organizing data that we have found to be especially useful are by individual user and by innovation component. Let's use the example of The Science Program (TSP) to demonstrate the utility of organizing data in these two ways (Hall, Hord, Rutherford, Loucks, Huling, and Heck 1982).

TSP is a second generation science curriculum based on the science curriculums developed in the '60s and the experiences of those who have used them over the years. TSP places equal emphasis on learning the basic principles and theories of science and learning to design, conduct, and interpret scientific investigations. The program emphasizes students' working with materials, with the teacher serving in a tutorial role. The program is divided into a series of units; each unit has a theme that gradually emerges as the activities of the unit are covered. A set of standardized

Figure 2.2. Springdale Effective Teaching Program IC Map

<u>Component 1: Using an Anticipatory Set</u>	
(1)	(2)
Teacher typically uses an anticipatory set including the elements of review, preview, motivation, and direction	Teacher typically uses an anticipatory set that includes 1-2 appropriate elements
(3)	(4)
Teacher typically uses an anticipatory set that consists mainly of focusing attention	Teacher seldom uses an anticipatory set
(5)	(5)
Teacher never uses an anticipatory set	Teacher never uses an anticipatory set
<u>*Component 2: Selecting and Stating Objectives</u>	
(1)	(2)
Teacher typically uses an objective that is relevant to students and states it in student terms	Teacher typically uses an objective that is relevant to students but seldom states it
(3)	(4)
Teacher typically states objectives, but not in student terms	Teacher seldom uses an objective
(5)	(5)
Teacher never uses an objective	Teacher never uses an objective
<u>*Component 3: Explaining and Modeling</u>	
(1)	(2)
Teacher typically explains and models so that students see and understand	Teacher typically explains so that students understand but does not model
(3)	(4)
Teacher typically gives explanations that are not on the student's level	Teacher typically makes assignments with no explanation or modeling

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<u>Component 4: Checking for Understanding</u>	(1)	Teacher typically checks for understanding and gives immediate feedback after each section of the lesson	(2)	Teacher occasionally checks for understanding and gives feedback during the lesson	(3)	Teacher typically checks for understanding at the end of the lesson and gives feedback	(4)	Teacher occasionally checks for understanding at the end of the lesson	(5)	Teacher typically assigns work without checking for understanding
<hr/>										
<u>* Component 5: Providing Guided Practice</u>	(1)	Teacher typically checks work as students practice	(2)	Teacher occasionally checks work as students practice	(3)	Teacher does not check work as students practice	(4)	Teacher typically does not provide practice for students		
<hr/>										
<u>Component 8: Providing Independent Practice</u>	(1)	Teacher typically assigns independent practice that is appropriate for all students in length and difficulty	(2)	Teacher typically does not independent practice that is appropriate for most students, but inappropriate for a few	(3)	Teacher typically assigns provide for independent practice				
<hr/>										

* Denotes critical component

Note: This map is an integration of maps focused on the Madalyn Hunter Effective Teaching Program developed by two North Carolina principals in the "Even Champions Have Coaches Training Program" (Draughon and Hord 1986).

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TSP tests have been designed to assess achievement in science content and science process. The IC Map for TSP is shown in Figure 2.3.

To illustrate our approaches to organizing data, we will examine hypothetical IC data collected from ten teachers in the program midway through the first year of implementation. In Figure 2.4, the data from the ten teachers are displayed by individual user. These data indicate that Teacher D appears to be the farthest along in use of the program, while Teachers E and F show the least degree of implementation. Using this information, a facilitator might ask Teacher D to assist other teachers with their use of the program and investigate why Teachers E and F are not using the program more. The facilitator then can provide personalized assistance to help them improve their use of the program. The data also indicate that all teachers except Teachers A, B, and D could benefit from assistance in how to balance the content/process emphasis of the program, while Teachers B, E, and F need assistance focused on student grouping.

Organizing and displaying IC data by individual user helps to reveal what types of assistance would be most valuable to individual users. Also, with data organized this way, it is possible to identify individuals who are using identical or highly similar configurations of the program. For example, Teachers H and J are using the exact same configuration of the program; the configurations of Teachers G and I are also identical, and are highly similar to those of Teachers H and J. Teachers E and F have configurations highly similar to each other and probably could benefit from similar types of assistance.

Additional insights can be gained by examining the IC data by innovation component, as shown in Figure 2.5. These data provide a more global overview of the implementation of TSP. The chart indicates that, considering the short time implementation has been under way, teacher use of the program is progressing well. Teachers are teaching many of the units and activities and, in some cases, students are being allowed to manipulate the program materials. Teachers should be congratulated for their rapid progress with these aspects of the program. However, the IC data indicate some problems with the process/content emphasis of the program. There are also variations in how teachers are grouping students. The IC data, reorganized by innovation component, can provide insight into the parts of the program on which facilitators should focus. In this case, it appears that facilitators need to focus on helping teachers begin to use TSP tests and encourage the equal emphasis of content and process. The data indicate that using professional learning sessions to reemphasize the use of units, activities, and materials probably would not be the best approach. Rather, Teachers E and F, who most need this type of assistance, should receive personalized attention.

Figure 2.3. (TSP) Science Program IC Map

*Component 1: Units Taught:	(1)	(2)	(3)	(4)	(5)
All units and most activities are taught	Most units and activities are taught	Some units are taught	A few selected activities are taught	No units or activities are taught	
*Component 2: Use of Materials:	(1)	(2)	(3)	(4)	(5)
Students are constantly manipulating science materials	Only the teacher and selected students handle the materials most of the time	Typically, the teacher does demonstrations and the students watch			
Component 3: Student Grouping:	(1)	(2)	(3)		
Students work individually and in small groups	Students are kept in 3-5 permanent groups	The whole class is taught as a group			
*Component 4: Process/Content Emphasis:	(1)	(2)	(3)	(4)	
Science content and science processes are emphasized equally	Science content is given major emphasis	The processes of science are given major emphasis	Memorization of facts and reading about science are emphasized		
*Component 5: Assessment:	(1)	(2)	(3)	(4)	
All TSP assessment activities are used	Some TSP assessment activities are used	Teacher-made tests are used on a regular basis	Tests are not given regularly		

* Denotes critical components.

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Figure 2.4. Teachers Use of Each Component by Variation Numbers

Components

Teacher	1. Units Taught	2. Use of Materials	3. Student Grouping	4. Process/Content Emphasis	5. Assessment
A	1	2	2	1	3
B	2	3	3	1	3
C	1	1	1	3	2
D	1	1	1	1	1
E	5	3	3	2	3
F	4	2	3	4	4
G	2	2	2	2	3
H	2	2	2	3	3
I	2	2	2	2	3
J	2	2	2	3	3

Summary

In this chapter we have discussed the concept of Innovation Configurations (IC) and its application in school improvement. IC

Figure 2.5. Percentage of Teachers Using Each Variation of Each Component

Component 1:	1	2	3	4	5	
	Units Taught	30%	50%		10%	10%
Component 2:	1		2		3	
	Use of Materials	20%		60%		20%
Component 3:	1		2		3	
	Student Grouping	20%		50%		30%
Component 4:	1		2		3	4
	Process/Content Emphasis	30%		30%		10%
Component 5:	1		2		3	4
	Assessment	10%		10%		70%

represents the different ways individual users implement an innovation in their own settings. It is important for you as a change facilitator to be able to identify the specific ways teachers are using a program so that you can make informed decisions about how to offer support and assistance. The concept of IC is particularly useful in helping to clarify and communicate expectations related to the use of an innovation during the initial implementation phase and in monitoring implementation in progress to identify the individuals and parts of the program that require the facilitator's attention.

The IC Map is a tool for summarizing the descriptions of identified component parts of an innovation and the variations in how parts are put to use. In some programs some components are considered critical while others are considered related. A critical component is one that must be used if the innovation is to be considered implemented, while a related component is not considered essential to the innovation, but is recommended by the developer or facilitator. Critical components are designated on the IC Map with an asterisk (*).

A variety of IC Map formats can be used, but organizing the map in a left-to-right format, with the variations of each component organized across the page, has the advantage of graphically displaying those variations valued over others.

IC data can be displayed and used in a number of ways. Two particularly useful ways of organizing data are by individual user and by innovation component. When IC data are organized by individual user, it is possible to identify what types of assistance would be most valuable to specific persons. When IC data are organized by innovation component, it is possible to identify the parts of the program that are being used most successfully and those that require additional time and attention from the facilitator.

IC can be used for purposes of formative evaluation, to help pinpoint areas in need of attention, and to help facilitators decide how best to intervene. IC is also useful in summative evaluation; it addresses the question of how well a program has been implemented and thus helps evaluators decide how much confidence to place in the outcome data. If a program has been implemented to a high degree, facilitators usually can be confident that their outcome measures are a fair reflection of the program's success or failure. On the other hand, if the program has not been implemented acceptably, outcome data cannot fairly reflect a program's potential.

Innovation Configurations is a useful concept for change facilitators. Understanding how individuals are implementing a specific program pro-

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vides you, the CF, with information for designing appropriate support and assistance. Used in combination with the other diagnostic dimensions of the Concerns-Based Adoption Model, Innovation Configurations can make a substantial difference in the school improvement process.

Frequently Asked Questions Related to IC

Q: Is it better to collect IC data through observations or interviews?

A: When collecting IC data, the more information the facilitator has the better. Ideally, the facilitator should visit with the teacher about the program several times and observe the teacher's classroom use of the program a number of times. We feel it is essential that an interview be conducted so that the facilitator can talk with the teacher about typical practice. A small number of observations is not sufficient to assess typical practice.

Q: If an interview is used, how can you be sure the teacher will be truthful about his or her use of the program?

A: The quality of IC data collected will depend on the rapport that the facilitator can establish with the teacher. The teacher must be made to feel that the facilitator honestly wants to be helpful, and that the visit is for purposes of collecting information about the program, not about the individual. A good place to start is for the facilitator to explain to the teacher that he or she is interested in the teacher's experience with the new program. The facilitator should then explain that the purpose of gathering information is to pinpoint where teachers stand with the program in order to be able to decide what types of assistance teachers will find most helpful. The focus should be on the innovation/program, not the teacher.

Q: Can you ask teachers to complete their own IC Map in order to save the facilitator's time?

A: That depends. When teachers are given a copy of an IC Map, they usually draw conclusions about what ideal or most acceptable practice should be even if it is not marked on the instrument. In this situation, it is difficult for teachers to indicate on the map that their practice is less than ideal, perhaps even unacceptable. For this reason, we strongly recommend that IC data be gathered via person-to-person discussion. On the other hand, if the CF has previously established a helping relationship with teachers and they understand the supportive nature of the instrument's use, reliable data may be obtained from a written questionnaire. If IC data are to be gathered through a manual measure, questions should be formulated so that teachers can respond freely about their typical class-

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room practice without feeling the pressure of having to compare their practice to an ideal standard. The facilitator could then complete the IC Map using the information the teacher has provided.

3. From the Teacher's Perspective

When Springdale's Julia Jenkins became aware of teacher uncertainties about how the program was to be used, she visited the schools and talked with teachers about the program. She was somewhat disappointed that most teachers did not comment more about how the program was serving students. Instead, the teachers had questions about whether written lesson plans were required and, if so, in what format, and when and how they would be evaluated in the teacher appraisal system. They were concerned about how to balance reteaching tasks with the need to cover all the objectives designated for their specific grade level or discipline.

A CENTRAL AND MAJOR PREMISE OF CBAM IS THAT THE SINGLE most important factor in any change process is the people who will be most affected by the change. Certainly, the innovation itself and the organization into which it is to be incorporated are important variables, but they are secondary in importance to the people who are the intended innovation users.

The importance of focusing on people can be seen in the Springdale situation. When Julia Jenkins visited schools to talk to teachers about the new effective teaching program, she was surprised and disappointed by

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the teachers' comments and questions. The teachers expressed personal or self-concerns (how would they be evaluated) and task, or management, concerns (balancing reteaching with the need to cover all objectives). Informational concerns were also voiced (we need to know what is expected of us regarding lesson plans).

Jenkins was disappointed because she expected the teachers to talk to her about the effects or impact of innovation on students, and they did not do so.

At this point, a tempting option for Jenkins might be to try to "correct" the problem she perceives by recommending additional training for teachers. Suppose that additional professional learning is planned, and it is designed to emphasize how effective the innovation has been in other school districts and how it can be equally effective in the Springdale schools. Teachers might also be encouraged to find ways to evaluate the effects of the program on students. How do you think the teachers will respond to this type of professional learning delivered at this time, just several months into the implementation effort? Our answer to this question is presented in this chapter.

Vividly reflected in this illustration from Springdale is the fact that when engaged in any change process, teachers will have specific and individualistic concerns about the change and their involvement in it. Concerns refer to the feelings, thoughts, and reactions individuals have about a new program or innovation that touches their lives. Being concerned about change is universal, even though the nature of the concerns varies from person to person. Concerns exert a powerful influence on the implementation of a change, and they determine the kinds of assistance that teachers find useful.

Stages of Concern

The Stages of Concern (SoC) dimension of CBAM focuses on the concerns of individuals involved in change (Hall 1979). Research has identified seven kinds of concerns that users, or potential users, of an innovation may have. These concerns are organized in the model as Stages of Concern (Figure 3.1). While the seven Stages of Concern are distinctive, they are not mutually exclusive. An individual is likely to have some degree of concern at all stages at any given time, yet our studies have documented that the stage or stages where concerns are more (and less) intense will vary as the implementation of change progresses. These variations in intensity mark the developmental nature of individual concerns. The developmental nature of concerns is further reflected in the three dimensions—self, task, and impact—into which the seven stages may be grouped (Figure 3.1).

Figure 3.1. Stages of Concern: Typical Expressions of Concern about the Innovation

	Stages of Concern	Expressions of Concern
I M P A C T	6 Refocusing 5 Collaboration 4 Consequence	I have some ideas about something that would work even better. I am concerned about relating what I am doing with what other instructors are doing. How is my use affecting kids?
T A S K	3 Management	I seem to be spending all my time getting material ready.
S E L F	2 Personal 1 Informational	How will using it affect me? I would like to know more about it.
	0 Unconcerned	I am not concerned about it (the innovation).

When a change effort is in its early stages, teachers are very likely to have *self-concerns* (stage 1, informational; stage 2, personal). They will want to know more about the innovation—what it is and how it is similar to and different from what they already are doing. Teachers may also want to know when the new program will begin, the kind of preparation they will receive, the source of the new program, who is endorsing it and why, and how it is supposed to work.

Personal concerns are also likely to be intense during this time, although they may not be expressed as openly as informational concerns. The teachers who asked Julia Jenkins how they would be evaluated in the new program were expressing personal concerns. Teachers may also be concerned about their ability to execute the new program as expected and about making mistakes that would make them look foolish. Another way teachers express personal concerns about a change is to characterize the innovation as nothing new, but as something they have always done or used to do. With this conviction, they may convince themselves they really do not have to change.

Task concerns (stage 3, management) typically become more intense as final preparations are made for beginning use of an innovation and during the early period of use. Jenkins's teachers who wanted to know how to balance the need to reteach with the need to cover all objectives were expressing management concerns—how do we get the time to do this, and how do we arrange to have different students doing different things at the same time? Expressions related to the management of time are common when concerns at this stage are intense. Teachers who say they are staying just one day ahead of the students or that they are having problems getting necessary teaching materials ready and organized are also expressing management concerns.

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When teachers' most intense concerns are about the effects of an innovation on students and what can be done to improve the effectiveness of the program, they have reached the impact level. Stages 4 (consequence), 5 (collaboration), and 6 (refocusing) compose the impact dimension. Many teachers will never have intense concerns at stages 5 or 6. Stage 5 pertains to concerns about collaborating with others to improve the outcomes of an innovation, and for those teachers who have no opportunity or need for collaboration this concern may never emerge. When teachers have used an innovation with efficiency for some time they may become concerned about finding even better ways to reach and teach students. Only a few teachers have these types of concerns, but when they do, these concerns are indicative of stage 6 (refocusing).

Developmental Nature of Concerns

While concerns about a change typically progress through the stages in a developmental manner, the progression is not absolute and certainly does not happen to each person in a like manner. Everyone will not move through the stages at the same pace nor have the same intensity of concern at the various stages. It is most probable that concerns will develop in a wave pattern. That is, self-concerns will be most intense early in the change process and abate with time, and task or management concerns will rise. Only after management concerns have been reduced in intensity can impact concerns be expected to intensify. The pattern and intensity of concerns people experience during a period of change are directly affected by the nature of the change and the kind and, especially, the amount of assistance provided. The effective teaching program being implemented in the Springdale schools might be considered a complex innovation. As noted in Chapter 2, the program has several components, and many teachers will be required to make a number of changes in their classroom procedures. This innovation will affect concerns more markedly than would a simpler change that would have little or no direct effect on teaching practices. The more complex an innovation, the greater the need for skilled facilitation of the change, facilitation that carefully attends to the concerns of teachers. More will be said later about facilitating change.

Procedures for Assessing Concerns

Three procedures may be used to determine concerns. The most practical is face-to-face conversation. This works best if the conversation is an informal talk rather than a formal, scheduled conference. During the conversation, the facilitator should ask questions that stimulate the

teacher to express feelings and concerns. In the Springdale district, a useful question would be, "How are you feeling about the teaching effectiveness program?" Or you might ask for reactions to specific aspects of the program, such as the new approach to planning or the step-by-step procedure for teaching. Responses to each of these questions may cue additional questions.

Asking appropriate questions in an informal, relaxed manner is the first key to successfully using one-to-one conversations. A second requirement is that the questioner be a good listener, and this means several things: after asking a question, allow respondents time to say all they wish without interruption; do not try to direct the responses or to "put words in their mouths"; give respondents evidence that you really are listening (this can be done by asking elaborative questions or by restating certain statements to ensure clarity of understanding); finally, listen to the whole response and try to avoid selective listening.

A third requirement in this procedure is to be able to analyze the content of the response for the concerns being expressed. When analyzing the content, be sure to consider the entire response, not just part of it. Suppose a teacher states, "The program is not working very well with my classes because I just don't have time to develop the materials I need." The first portion of the statement might indicate that the teacher is expressing concerns about the impact of the program on students (stage 4, consequence). When the second portion of the statement is considered, however, it becomes apparent that the teacher's concerns are really focused on time and materials (stage 3, management).

A second procedure that can be used for determining concerns is the open-ended statement (Newlove and Hall 1976). This procedure is more formal than the conversational approach described above and is not ordinarily used with one person. It is more appropriate for soliciting information from groups. With this technique, individuals are asked to write complete sentences to answer a question such as, "When you think about _____, what are you concerned about?" In the Springdale district, "the effective teaching program" could be inserted in the blank, or any other phrases representing areas in which the facilitator may wish to gain information. Respondents should be encouraged to answer in complete sentences so as to provide enough information for accurate analysis. As a rule, brevity of response is not a problem, in fact it is not uncommon to get paragraphs.

When analyzing written statements, we recommend that each sentence be considered separately (when there is more than one sentence) and then that all sentences be considered collectively. The following examples offer a guide to analyzing open-ended statements.

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(1) Almost every night I wonder if I'll be able to locate and organize the material I will be using the next day. (2) I can't yet prevent surprises that cause a lot of wasted time. (3) I am not yet able to anticipate what things I will need to requisition for next week.

Sentence 1 indicates the teacher's concern about materials and their organization, which are management concerns (stage 3). Concern about wasted time (sentence 2) is another expression of management concerns. Finally, sentence 3 also reflects management concerns. Collectively, these sentences show that this person's greatest concern is managing the innovation. Pinpointing concerns is not always so clear cut, as can be seen in the following paragraph.

(1) I seem to spend most of my time giving and scoring the criterion tests. (2) I would like to observe some other teachers to see how they handle this problem. (3) At times I feel that I must be a poor teacher.

Management of time (stage 3) is clearly the concern expressed in the first sentence. In the second sentence the teacher is asking for more information (stage 1) that would respond to that management concern. The third sentence is an expression of personal concern (stage 2). In cases like this, when more than one stage of concern is expressed, the collective analysis is straightforward: the individual's greatest concerns are at stages 1, 2, and 3. Do not average stages 1, 2, and 3 to arrive at a single average stage.

Several notes of caution should be heeded when using either one-to-one conferences or open-ended statements. In both cases, people will express only those feelings that are of greatest concern to them. They will also have concerns at the other stages, even though not expressed, and this should not be ignored when responding to their concerns. Secondly, both procedures provide only limited information upon which to base a determination. While the procedures are reliable enough for clinical work, they should not be considered infallible or used for research or evaluation. In addition, information obtained through routine interactions with teachers may be used to enrich these data. Finally, remember that concerns are not fixed; they do change, so they should be periodically reassessed.

A third procedure for assessing concerns is the Stages of Concern Questionnaire (SoCQ) (George, Hall, and Stiegelbauer 2006). The SoCQ is a 35-item measure that typically requires only 10–15 minutes to complete. Scoring can be done by hand or via computer. (An example of the SoCQ and the hand-scoring instrument are included at the end of this chapter.) Because of its formal nature, the SoCQ is most often used with groups when research or program evaluation is being conducted, but a facilitator certainly can use it to assess the concerns of a

school faculty or another subgroup within the school. Julia Jenkins could have used it to get a clear picture of the concerns of Springdale teachers about the effective teaching program.

The SoCQ has several strengths. One is its accuracy of assessment. The instrument was developed through extensive research that has assured its validity and reliability. Beyond that, it identifies concerns by quantitative scores for each stage, eliminating the need for inferring concerns from verbal or written statements. A second major strength of the questionnaire is the completeness of the data it provides. For each individual, a profile is developed (this can be done by computer or by hand). This profile shows the intensity level on each of the seven stages, thereby presenting a useful pattern of concerns (see Figure 3.2). When a facilitator is using concerns as a guide to action, it may be useful to know a person's low, mid-range, and most intense concerns.

Another strength of the SoCQ is its versatility. It can be reliably administered to the same persons several times during the course of a year. When this is done, a profile can be computer generated that not only shows current concerns but any changes that have occurred in the pattern of concerns from one administration to the next. For the facilitator who is targeting assistance in response to concerns, this pattern of changes offers insights into the effectiveness of those actions.

Profiles for groups, rather than individuals, also can be developed from the SoCQ. As is always the case when developing group averages, individual differences are screened out, but there are still times when a group profile can be useful. For example, Jenkins could find it very useful to have a concerns profile for each school in the Springdale district.

Interpreting Concerns

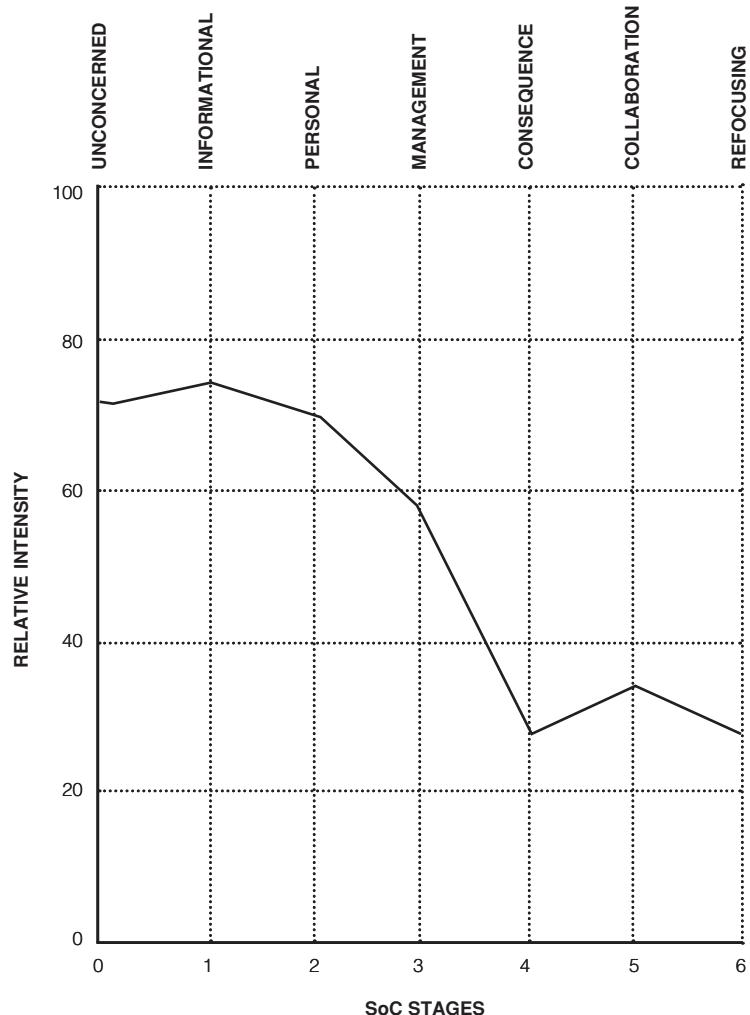
When learning and trying to apply anything new, there is no substitute for experience and training. So it is with concerns and other components of the CBAM model. The information presented here is intended to launch you on a journey toward excellence through understanding and addressing concerns, but special training may be necessary to use Stages of Concern to their full potential.

Several profiles resulting from the SoCQ are presented below and discussed. Skill in analyzing SoCQ profiles is valuable in and of itself, but it also greatly enriches one's skill in understanding information gained from one-to-one conversation and open-ended concerns statements.

Probably the most readily identified and commonly found concerns profile is that of the nonuser, the individual who has not begun using an

innovation. In prior research using the Stages of Concern Questionnaire, the nonuser concerns profile stands out most clearly and consistently. Nonusers' concerns are normally highest on stages 0, 1, and 2, and lowest on stages 4, 5, and 6. There is some variation in the intensity of these concerns depending on the innovation

Figure 3.2. SoCQ Profile A



and the setting where it is being implemented, but the general shape of the pattern is plotted in Figure 3.2.

The profile illustrated in Figure 3.2 is that of an interested person who is somewhat unconcerned about the innovation (stage 0) and is interested in learning more about the innovation from a positive, proactive perspective (stage 1 slightly higher than stage 2). The person does not have a great deal of management concern (medium intensity stage 3) and is not intensely concerned about the innovation's consequences for students (low stages 4 and 5). The low, tailing-off stage 6 score suggests that the person does not have other ideas that would compete with the innovation. The overall profile reflects a person who wants additional information about the innovation but also has some fairly intense personal concerns about its potential use.

In contrast to the first profile, Figure 3.3 depicts various degrees of doubt and potential resistance to the innovation. This can be clearly identified in what is referred to as the "one/two split." When stage 2 concerns are equal to or more intense than the stage 1 concerns, the innovation is perceived much differently than in the previous illustration. In general, when such a "negative one/two split" occurs, personal concerns (stage 2) override concerns about learning more about the innovation (stage 1). The individual is much more concerned about personal well-being in relation to the change than about learning more of a substantive nature about the innovation. For individuals in this situation, stage 2 concerns normally have to be reduced before they can look at a proposed innovation objectively and begin to receive and use information about it.

Single-Peak Profiles

The most common concerns profiles have a single peak at either stage 3, 4, 5, or 6. People with such profiles are almost always involved in using the innovation. In general, profile interpretations can be based heavily upon the definition of the stage that has the highest score. In many cases, the second highest score will be quite a bit lower than the highest stage score. If the second highest score is more than 20 percentile points below the highest, it normally does not account for many of the intense concerns of the respondent. If certain stage scores are dramatically low, they indicate areas where people are reporting minimal or no concerns.

In Figure 3.4, for example, management (stage 3) concerns are relatively intense. The respondent is indicating high concern about time, logistics, or other managerial problems related to the innovation. The respondent is also somewhat concerned about the consequences of the innovation (stage 4), but not concerned about working with others (low

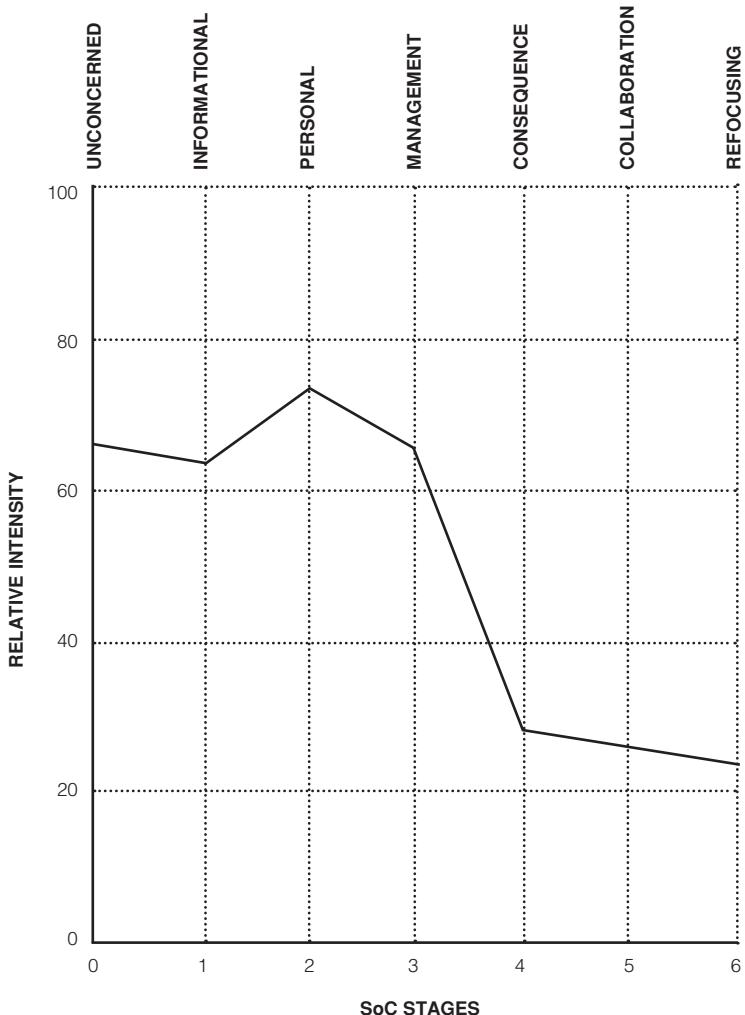
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stage 5). No intense personal concerns about the innovation (low stage 2) are evident.

Multiple-Peak Profiles

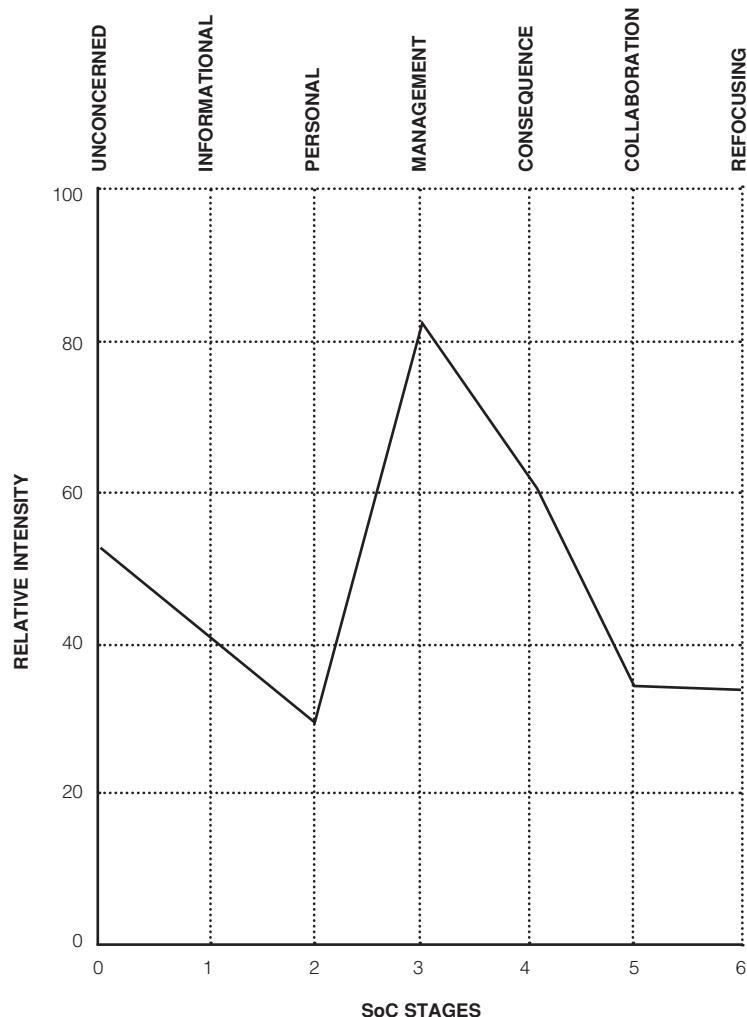
Multiple-peak profiles are not easy to interpret, but some combinations are reasonably straightforward. Figure 3.5 presents one of these

Figure 3.3. SoCQ Profile B



combinations: high concerns on stage 3 (management) and stage 6 (refocusing). This kind of profile signals the need for immediate attention by the change facilitator. The high stage 3 concerns indicate the person is having difficulty doing what is required by the innovation. High refocusing concerns (stage 6) indicate the person has ideas about improvements on the innovation. Most often, what the person thinks

Figure 3.4. SoCQ Profile C

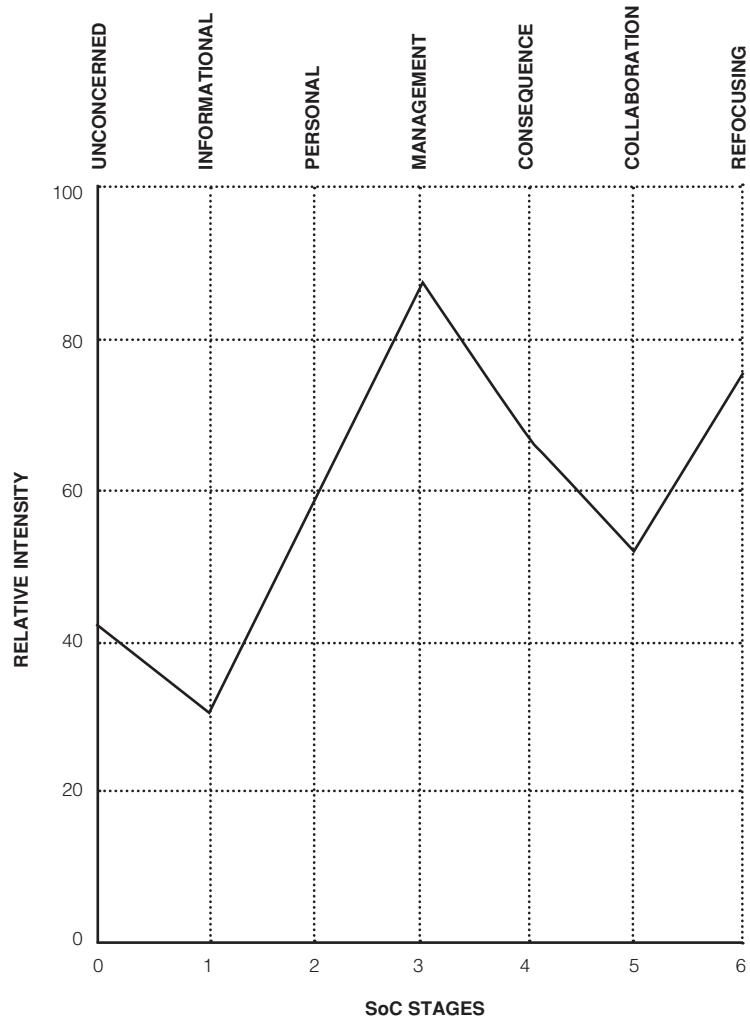


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would be better is a return to old practices. Unless something changes, this person will probably abandon the innovation and go back to more comfortable old practices.

Two other mutiple-peak profiles that occur with some frequency are seen in Figures 3.6 and 3.7. The person represented in Figure 3.6 also has high management concerns (stage 3), but these are accompanied by

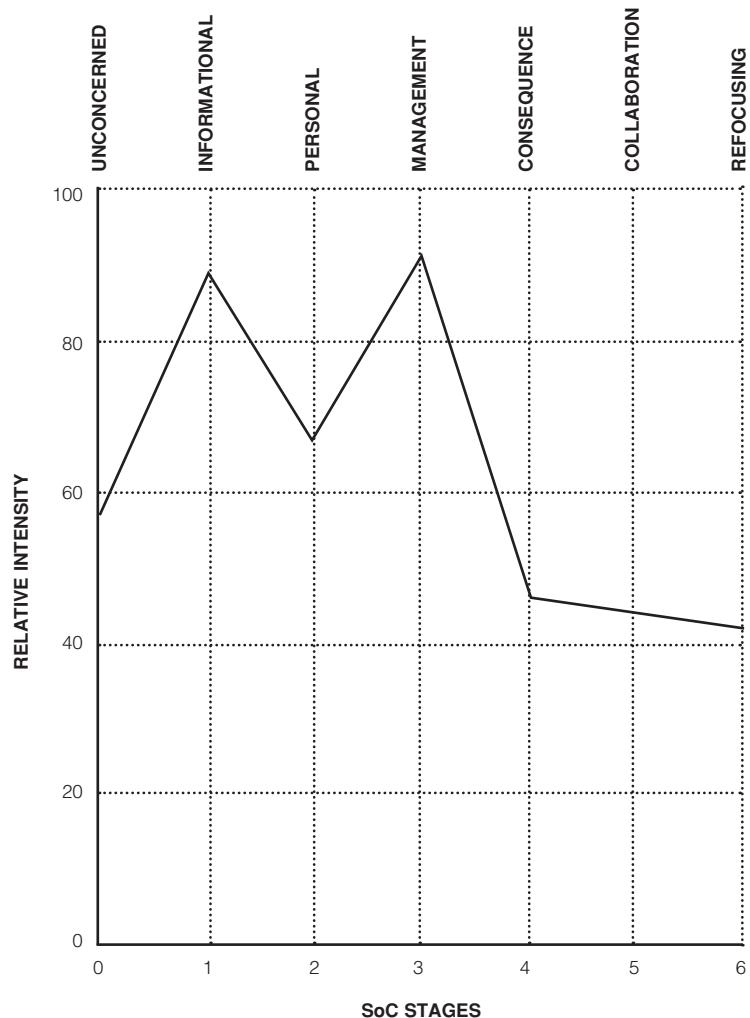
Figure 3.5. SoCQ Profile D



high informational concerns (stage 1). This person is probably in search of information that will aid in managing the innovation and making it work more efficiently.

Figure 3.7 reflects a person who is concerned about how the innovation is affecting students (high consequence concerns). The low intensity of concerns on stages 2 and 3 suggests this person feels secure in using the

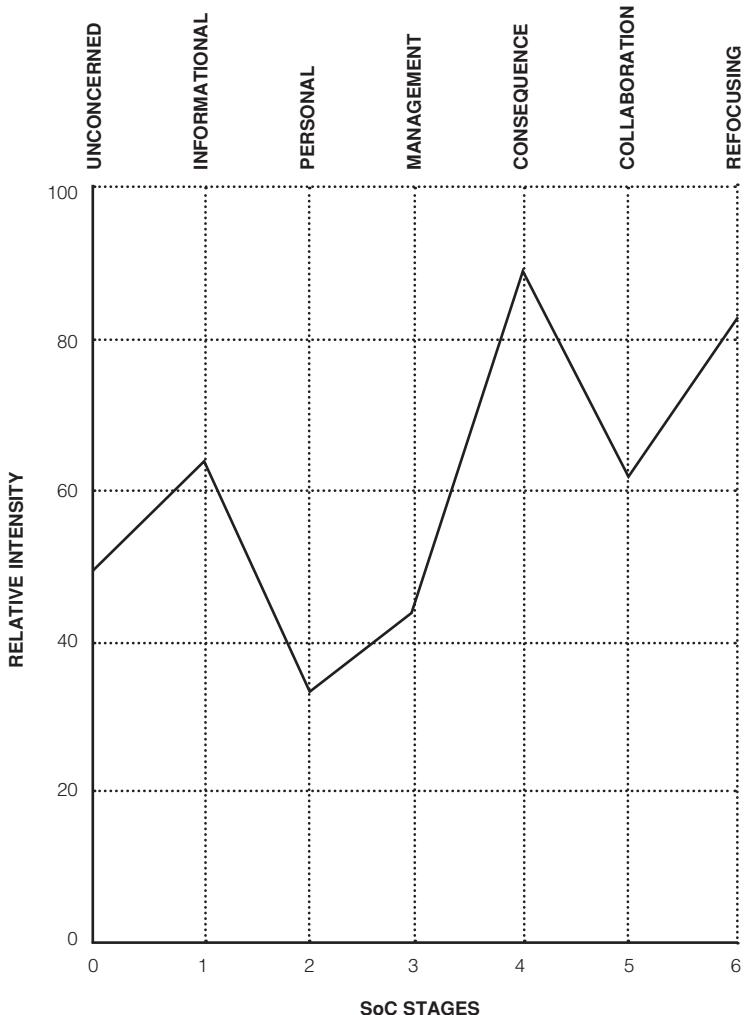
Figure 3.6. SoCQ Profile E



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innovation. This person also has high refocusing concerns (stage 6), but when these are coupled with high consequence concerns, the major concerns are usually about making changes that will benefit students rather than making changes to make teaching life easier (as is the case for the person represented in Figure 3.5).

Figure 3.7. SoCQ Profile F



General Principles of Concerns

Concerns can be a highly effective guide to actions that school leaders or others might take to facilitate the implementation of change. Before offering specific suggestions of how this might be done, it is necessary to establish some general principles.

There is nothing inherently good or bad about a particular stage or pattern of concerns. As an analogy, a chronological age of 16 years is not necessarily better or worse than an age of 6 or 26. But we do not interact with a teenager in the same way as with a 6- or 26-year-old. So it should be with concerns. Our interactions with a person who has high personal concerns may be quite different from those with someone with high consequence concerns, but neither person or Stage of Concern is better or worse than the other.

The developmental and interactive nature of concerns is real and must not be ignored. For example, individuals who have high personal concerns will have little or no receptivity to assistance that is directed toward management or impact concerns unless they find in that kind of assistance something that responds to their personal concerns. In Springdale, had Julia Jenkins arranged for professional learning/training that focused on the impact of the innovation for teachers who had task and self-concerns, it would have been of little or no value. In fact, that kind of learning session could intensify personal concerns by confronting teachers with increased expectations. Once personal concerns have been reduced, it is highly probable management concerns will become the highest. Only after these management concerns are reduced will impact concerns elevate, although it is possible, but rare, that one could move from self-concerns to impact concerns.

Movement through the stages of concern cannot be forced, but, with appropriate support and assistance, it can be aided. At the same time, a lack of assistance or the wrong kind of support can interfere with developmental changes in concerns. Concerns are not fixed. In addition to changing developmentally, they will recycle in response to each new innovation or even to phases of an incremental innovation. However, an individual's pattern of concerns in relation to one innovation may vary greatly from the same person's pattern regarding another innovation.

Concerns do not exist in a vacuum. Concerns are influenced by participants' feelings about an innovation, by their perception of their ability to use it, by the setting in which the change occurs, by the number of other changes in which they are involved and, most of all, by the kind of support and assistance they receive as they attempt to implement change.

Concerns and the Facilitation of Change

A first step in using concerns to guide interventions is to know what concerns the individuals have, especially their most intense concerns. The second step is to deliver interventions that might respond to those concerns. Unfortunately, there is no absolute set of universal prescriptions, but the following suggestions offer examples of interventions that might be useful.

Stage 0—Unconcerned

- a. If possible, involve teachers in discussions and decisions about the innovation and its implementation.
- b. Share enough information to arouse interest, but not so much that it overwhelms.
- c. Acknowledge that a lack of concern is expected and reasonable, and that no questions about the innovation are foolish.
- d. Encourage unconcerned persons to talk with colleagues who know about the innovation.
- e. Take steps to minimize gossip and inaccurate sharing of information about the innovation.

Stage 1—Informational Concerns

- a. Provide clear and accurate information about the innovation.
- b. Use a variety of ways to share information—verbally, in writing, and through any available media. Communicate with individuals and with small and large groups.
- c. Have persons who have used the innovation in other settings visit with your teachers. Visits to user schools could also be arranged.
- d. Help teachers see how the innovation relates to their current practices, both in regard to similarities and differences.
- e. Be enthusiastic and enhance the visibility of others who are excited.

Stage 2—Personal Concerns

- a. Legitimize the existence and expression of personal concerns. Knowing these concerns are common and that others have them can be comforting.
- b. Use personal notes and conversations to provide encouragement and reinforce personal adequacy.
- c. Connect these teachers with others whose personal concerns have diminished and who will be supportive.
- d. Show how the innovation can be implemented sequentially rather than in one big leap. It is important to establish expectations that

- are attainable.
- e. Do not push innovation use, but encourage and support it while maintaining expectations.

Stage 3—Management Concerns

- a. Clarify the steps and components of the innovation. Information from innovation configurations will be helpful here.
- b. Provide answers that address the small specific “how-to” issues that are so often the cause of management concerns.
- c. Demonstrate exact and practical solutions to the logistical problems that contribute to these concerns.
- d. Help teachers sequence specific activities and set timelines for their accomplishments.
- e. Attend to the immediate demands of the innovation, not what will be or could be in the future.

Stage 4—Consequence Concerns

- a. Provide these individuals with opportunities to visit other settings where the innovation is in use and to attend conferences on the topic.
- b. Don’t overlook these individuals. Give them positive feedback and needed support.
- c. Find opportunities for these persons to share their skills with others.
- d. Share with these persons more complex information pertaining to the innovation.

Stage 5—Collaboration Concerns

- a. Provide these individuals with opportunities to develop those skills necessary for working collaboratively.
- b. Bring together those persons, both within and outside the school, who are interested in collaboration.
- c. Help the collaborators establish reasonable expectations and guidelines for the collaborative effort.
- d. Use these persons to provide technical assistance to others who need assistance.
- e. Encourage the collaborators, but don’t attempt to force collaboration on those who are not interested.

Stage 6—Refocusing Concerns

- a. Respect and encourage the interest these persons have for finding a better way.
- b. Help these individuals channel their ideas and energies in ways

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- that will be productive rather than counterproductive.
- c. Encourage these individuals to act on their concerns for program improvement.
 - d. Help these persons access the resources they may need to refine their ideas and put them into practice.
 - e. Be aware of and willing to accept the fact that these persons may replace or significantly modify the existing innovations.

Individuals do have concerns about change, and these concerns will have a powerful influence on the implementation of change. CBAM offers several easy ways to identify these concerns. It is up to those who guide change to identify concerns, interpret them, and then act on them.

Questions Often Asked about Concerns

Q: Is it possible that a person of a particular “personality type” is likely to remain at one particular stage?

A: This is highly unlikely. The nature of an innovation and the demands it places on users have a much greater influence on individuals than does their personality type. Personality type may influence the intensity of people’s concerns but will not prevent them from experiencing the typical Stages of Concern.

Q: Is SoC linear or cyclic?

A: With regard to a specific innovation, individuals will typically move through the stages in a linear manner, at least up to a point. For example, many users never have intense concerns about collaboration and refocusing. It is not uncommon, however, for concerns to recycle to some extent. For example, individuals with high management concerns that go unresolved may develop intense personal concerns. Concerns will recycle, of course, with each innovation.

Q: Is it valid to assume a person “wants to move” to a higher Stage of Concern?

A: No it isn’t. One of the responsibilities of a facilitator is to arouse higher Stages of Concern while responding to existing stages. For example, individuals at the unconcerned stage may never have informational concerns unless something is done to prompt them. Individuals who have intense concerns at stage 2 (personal) or stage 3 (management) will be uncomfortable with an innovation and want to change their situation, but they could do this by ignoring the innovation and not being concerned about it. Effective facilitators are needed to help these people resolve their concerns and advance to consequence concerns.

Q: How can I get the SoCQ?

A: The questionnaire is included here, beginning on the following page. It is also found in the *Measuring Implementation in Schools: The Stages of Concern Questionnaire* (George, Hall, and Stiegelbauer 2006). A fee-based online version of the Stages of Concern Questionnaire (SoCQ 075) is available online at <http://www.sedl.org/pubs/catalog/items/cbam21.html>. Copyright permission to use the SoCQ may be submitted online at http://www.sedl.org/about/copyright_request.html on the SEDL website.

Directions for Using the SoCQ Quick Scoring Device

Developed by Eddie W. Parker and Teresa H. Griffin

The Stages of Concern Questionnaire (SoCQ), on pages 48-49, contains 35 items. The scoring of the SoCQ requires a series of operations which result in an SoCQ profile.

Instructions

The following steps have been carried out on the attached Quick Scoring Device, pages 50-51, for subject number 0001, using this subject's responses on the SoCQ.

- Step 1: In the box labeled A, fill in the identifying information taken from the cover sheet of the SoC Questionnaire.
- Step 2: Copy the numerical values of the circled responses to statements 1 through 18 in the numbered blanks in the Table labeled B. Note that the numbered blanks in Table B are *not* in consecutive order.
- Step 3: Box C contains the Raw Scale Score Total for each stage (0-6). Take each of the seven columns (0-6) in Table B, add the numbers within each column, and enter the sum for each column (0-6) in the appropriate blank in Box C. Each of these seven Raw Score Totals is a number between 0 and 35.

SoCQ Quick Scoring Device

A. Identifying Information

B. Raw Scale Scores (35 Items)

D. Percentile Table

C. Raw Score Totals (Stages 0-6)

E. Percentile Scores (Stages 0-6)

F. SoC Profile

- Step 4: Table D contains the percentile scores for each Stage of Concern. Find the Raw Scale Score Total for Stage 0 from Box C ("5" in the example); locate this number ("5") in the left-hand column in Table D, then look in the Stage 0 column to the right in Table D and circle that percentile ranking ("53" in the example). Do the same for Stages 1 through 6.

- Step 5: Transcribe the circled percentile scores for each stage (0-6) from Table D to Box E. Box E now contains seven numbers between 0 and 99.

- Step 6: Box F contains the SoC graph. From Box E, take the percentile score for Stage 0 ("53" in the example) and mark that point with a dot on the Stage 0 vertical line on the SoC graph. Do the same for Stages 1 through 6. Connect the points to form the SoC profile.

For interpretation of the SoC profile, refer to George, Hall, and Stiegelbauer (2006), *Measuring Implementation in Schools: The Stages of Concern Questionnaire*.

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Stages of Concern Questionnaire (SOCQ 075)

Name (optional) _____

The purpose of this questionnaire is to determine what people who are using or thinking about using various programs are concerned about at various times during the adoption process.

The items were developed from typical responses of school and college teachers who ranged from no knowledge at all about various programs to many years' experience using them. Therefore, **many of the items on this questionnaire may appear to be of little relevance or irrelevant to you at this time.** For the completely irrelevant items, please circle "0" on the scale. Other items will represent those concerns you do have, in varying degrees of intensity, and should be marked higher on the scale. For example:

This statement is very true of me at this time.	0	1	2	3	4	5	6	7
This statement is somewhat true of me now.	0	1	2	3	4	5	6	7
This statement is not at all true of me at this time.	0	1	2	3	4	5	6	7
This statement seems irrelevant to me.	0	1	2	3	4	5	6	7

Please respond to the items in terms of **your present concerns**, or how you feel about your involvement with **this** innovation. We do not hold to any one definition of the innovation so please think of it in terms of your own perception of what it involves. Phrases such as "this approach" and "the new system" all refer to the same innovation. Remember to respond to each item in terms of your present concerns about your involvement or potential involvement with the innovation.

Thank you for taking time to complete this task.

0 Irrelevant	1 Not true of me now	3 Somewhat true of me now	5	6 Very true of me now	7
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Circle one number for each item

1. I am concerned about students' attitudes toward the innovation. 0 1 2 3 4 5 6 7
2. I now know of some other approaches that might work better. 0 1 2 3 4 5 6 7
3. I am more concerned about another innovation. 0 1 2 3 4 5 6 7
4. I am concerned about not having enough time to organize myself each day. 0 1 2 3 4 5 6 7
5. I would like to help other faculty in their use of the innovation. 0 1 2 3 4 5 6 7
6. I have a very limited knowledge of the innovation. 0 1 2 3 4 5 6 7
7. I would like to know the effect of reorganization on my professional status. 0 1 2 3 4 5 6 7
8. I am concerned about conflict between my interests and my responsibilities. 0 1 2 3 4 5 6 7
9. I am concerned about revising my use of the innovation. 0 1 2 3 4 5 6 7
10. I would like to develop working relationships with both our faculty and outside faculty using this innovation. 0 1 2 3 4 5 6 7
11. I am concerned about how the innovation affects students. 0 1 2 3 4 5 6 7

From the Teacher's Perspective

12. I am not concerned about the innovation at this time.	0	1	2	3	4	5	6	7
13. I would like to know who will make the decisions in the new system.	0	1	2	3	4	5	6	7
14. I would like to discuss the possibility of using the innovation.	0	1	2	3	4	5	6	7
15. I would like to know what resources are available if we decide to adopt the innovation.	0	1	2	3	4	5	6	7
16. I am concerned about my inability to manage all that the innovation requires.	0	1	2	3	4	5	6	7
17. I would like to know how my teaching or administration is supposed to change.	0	1	2	3	4	5	6	7
18. I would like to familiarize other departments or persons with the progress of this new approach.	0	1	2	3	4	5	6	7
19. I am concerned about evaluating my impact on students.	0	1	2	3	4	5	6	7
20. I would like to revise the innovation's approach.	0	1	2	3	4	5	6	7
21. I am preoccupied with things other than the innovation.	0	1	2	3	4	5	6	7
22. I would like to modify our use of the innovation based on the experiences of our students.	0	1	2	3	4	5	6	7
23. I spend little time thinking about the innovation.	0	1	2	3	4	5	6	7
24. I would like to excite my students about their part in this approach.	0	1	2	3	4	5	6	7
25. I am concerned about time spent working with nonacademic problems related to the innovation.	0	1	2	3	4	5	6	7
26. I would like to know what the use of the innovation will require in the immediate future.	0	1	2	3	4	5	6	7
27. I would like to coordinate my efforts with others to maximize the innovation's effects.	0	1	2	3	4	5	6	7
28. I would like to have more information on time and energy commitments required by the innovation.	0	1	2	3	4	5	6	7
29. I would like to know what other faculty are doing in this area.	0	1	2	3	4	5	6	7
30. Currently, other priorities prevent me from focusing my attention on the innovation.	0	1	2	3	4	5	6	7
31. I would like to determine how to supplement, enhance, or replace the innovation.	0	1	2	3	4	5	6	7
32. I would like to use feedback from students to change the program.	0	1	2	3	4	5	6	7
33. I would like to know how my role will change when I am using the innovation.	0	1	2	3	4	5	6	7
34. Coordination of tasks and people is taking too much of my time.	0	1	2	3	4	5	6	7
35. I would like to know how the innovation is better than what we have now.	0	1	2	3	4	5	6	7

From *Measuring Implementation in Schools: The Stages of Concern Questionnaire* (pp. 79-80), by A. George, G. E. Hall, and S. M. Steiglitz, 2006, Austin, TX: SEDL. Copyright ©2006 by SEDL.

Taking Charge of Change

SoCQ Quick Scoring Device

SoCQ 075

A

Date: _____

Site: 25 SS#: 6102

Innovation: Unified Math

D

Five Item Raw Scale Score Total	Percentiles for:						
	Stage 0	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6
0	0	5	5	2	1	1	1
1	1	12	12	5	1	2	2
2	2	16	14	7	1	3	3
3	4	19	17	9	2	3	5
4	7	23	21	11	2	4	6
5	14	27	25	15	3	5	9
6	22	30	28	18	3	7	11
7	31	34	31	23	4	9	14
8	40	37	35	27	5	10	17
9	48	40	39	30	5	12	20
10	55	43	41	34	7	14	22
11	61	45	45	39	8	16	26
12	69	48	48	43	9	19	30
13	75	51	52	47	11	22	34
14	81	54	55	52	13	25	38
15	87	57	57	56	16	28	42
16	91	60	59	60	19	31	47
17	94	63	63	65	21	36	52
18	96	66	67	69	24	40	57
19	97	69	70	73	27	44	60
20	98	72	72	77	30	48	65
21	99	75	76	80	33	52	69
22	99	80	78	83	38	55	73
23	99	84	80	85	43	59	77
24	99	88	83	88	48	64	81
25	99	90	85	90	54	68	84
26	99	91	87	92	59	72	87
27	99	93	89	94	63	76	90
28	99	95	91	95	66	80	92
29	99	96	92	97	71	84	94
30	99	97	94	97	76	88	96
31	99	98	95	98	82	91	97
32	99	99	96	98	86	93	98
33	99	99	96	99	90	95	99
34	99	99	97	99	92	97	99
35	99	99	99	99	96	98	99

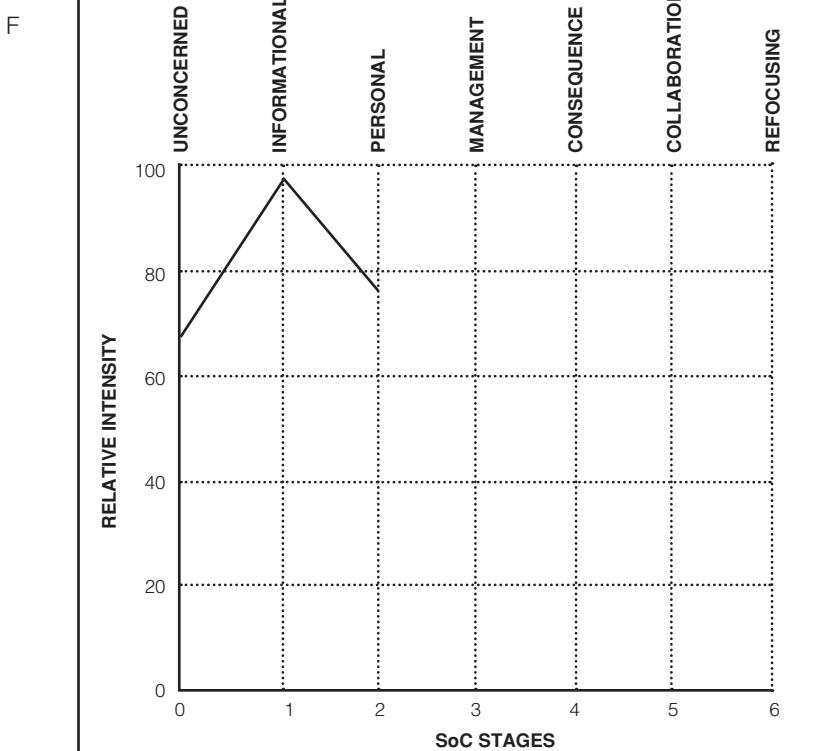
	0	1	2	3	4	5	6
B	3 <u>1</u>	6 <u>6</u>	7 <u>5</u>	4 —	1 —	5 —	2 —
	12 <u>1</u>	14 <u>7</u>	13 <u>1</u>	8 —	11 —	10 —	9 —
	21 <u>2</u>	15 <u>6</u>	17 <u>4</u>	16 —	19 —	18 —	20 —
	23 <u>4</u>	26 <u>6</u>	28 <u>5</u>	25 —	24 —	27 —	22 —
	30 <u>4</u>	35 <u>6</u>	33 <u>2</u>	34 —	32 —	29 —	31 —

Raw Score Totals

C	<u>12</u>	<u>31</u>	<u>17</u>	—	—	—	—
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Percentile Scores

E	<u>69</u>	<u>98</u>	<u>63</u>	—	—	—	—
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From *Measuring Implementation in Schools: The Stages of Concern Questionnaire* (p. 87), by A. A. George, G. E. Hall, and S. M. Stiegelbauer, 2006, Austin, TX: SEDL. Copyright ©2006 by SEDL.

4. Use of an Innovation in Classrooms

By the spring of the first year of use of the effective teaching program, Julia Jenkins was pleased with its progress. Through development and use of the Innovation Configuration Map, she found it easier to communicate what the program entails and to pinpoint variations in its use. Through a series of sessions with the principals and the central office instructional staff, expectations for use of the program were becoming more clear and consistent. In turn, facilitators were working closely with teachers to help resolve their initial information, personal, and management concerns.

Jenkins had noted that although the implementation process was generally going well, there was noticeable variation in the way individual teachers were using the program. And the variations appeared to occur among schools as well.

Jenkins wanted to give the school board a first-year progress report. At the same time, she wanted to educate board members as to why it would probably take longer than a year before the district would realize the desired improvement in achievement scores. For this progress report she decided that, in addition to the information she had about “configurations” of the program and teacher concerns, she would also need to collect and report data on Levels of Use, a third CBAM diagnostic tool.

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SPRINGDALE'S JULIA JENKINS WAS MORE ASTUTE THAN MANY INITIATORS and facilitators of change. She saw the need to know how the innovation was actually being used in classrooms. One of the most common and serious mistakes administrators and change facilitators make is to presume that once an innovation has been introduced and initial training has been completed, the intended users will put it into practice. Unfortunately, implementing an innovation is seldom so simple.

In school after school where changes have been introduced, research has shown that there are people who do not use the innovation at all, even months or years after the introduction. There are others who use only parts of an innovation, while still others try to use it but struggle. Since changes are introduced into organizations for the express purpose of bringing about improvement, who would expect improvement to occur if innovations are not used or are used ineffectively? Of course no one would expect improvement under those conditions, but time after time organizations will seek to assess the effectiveness of an innovation without ever examining how it is being used. As a result, innovation after innovation judged in this way has been discarded (or deemphasized) because it did not produce the expected outcomes.

A prime responsibility of change facilitators is to guide the change process to a point of successful implementation. To accomplish this, the facilitator must monitor how an innovation is being used and act upon that information. CBAM offers administrators and facilitators a proven technique for innovation monitoring—the assessment of Levels of Use (Hall, Dirksen, and George 2006). The Levels of Use (LoU) construct describes the behaviors of the users of an innovation through various stages—from spending most efforts in orienting, to managing, and finally to integrating use of the innovation. Before use actually begins, the individual becomes familiar with and increasingly knowledgeable about the innovation. Initial use is typically disjointed, and management problems are quite common. With continued use management becomes routine, and the user is able to direct more effort toward increased effectiveness for the learners and integrate what he or she is doing with what others are doing. Experience is essential but not sufficient to ensure that a given individual will develop high-quality use of an innovation; appropriate support and assistance are also needed.

It should be noted that the LoU construct describes behaviors of innovation users and does not at all focus on attitudinal, motivational, or other affective aspects of the user. LoU does not attempt to explain causality. Instead, the LoU construct is an attempt to define operationally what the user is doing.

Eight distinct Levels of Use have been identified (Figure 4.1). Each level encompasses a range of behaviors, but is limited by a decision point

Figure 4.1. Levels of Use of the Innovation

DECISION POINT F—Begins exploring alternatives or major modifications to the innovation presently in use.

Level VI—Renewal

State in which the user reevaluates the quality of use of the innovation, seeks major modifications or alternatives to present innovation to achieve increased impact on clients, examines new developments in the field, and explores new goals for self and the system.

DECISION POINT E—Initiates changes in use of innovation based on input of and in coordination with what colleagues are doing.

Level V—Integration

State in which the user is combining own efforts to use the innovation for the benefit of the clients with the related activities of colleagues to achieve a collective impact on clients within their common sphere of influence.

DECISION POINT D-2—Changes use of the innovation in order to increase client outcomes, based on formal or informal evaluation.

Level IVB—Refinement

State in which the user varies the use of the innovation to increase the impact on clients within immediate sphere of influence. Variations are based on knowledge of both short- and long-term consequences for clients.

DECISION POINT D-1—Establishes a routine pattern of use.

Level IVA—Routine

Use of the innovation is stabilized. Few if any changes are being made in ongoing use. Little preparation or thought is being given to improving innovation use or its consequences.

DECISION POINT C—Makes user-oriented changes.

Level III—Mechanical use

State in which the user focuses most effort on the short-term, day-to-day use of the innovation with little time for reflection. Changes in use are made more to meet user needs than client needs. The user is primarily engaged in a stepwise attempt to master the tasks required to use the innovation, often resulting in disjointed and superficial use.

DECISION POINT B—Makes a decision to use the innovation by establishing a time to begin.

Level II—Preparation

State in which the user is preparing for first use of the innovation.

DECISION POINT A—Takes action to learn more detailed information about the innovation.

Level I—Orientation

State in which the user has acquired or is acquiring information about the innovation and/or has explored or is exploring its value orientation and its demands upon the user and the user system.

Level 0—Non-use

State in which the user has little or no knowledge of the innovation, has no involvement with the innovation, and is doing nothing toward becoming involved.

that denotes actions that move the individual to the next level. For example, when a person experiences some initiative to learn about an innovation, he or she has reached decision point A and moves from level 0 to level 1.

Assessing Levels of Use

A chart has been developed (Hall, Dirksen, and George 2006) that permits the application of a wide variety of information in determining a person's Level of Use. A focused interview is used to acquire the information for the chart. The chart and the focused interview are essential tools for research and quantitative evaluation studies, but such use requires training and certification. People who seek information for the purpose of guiding the implementation of change, on the other hand, can use a combination of observations and informal questioning to get the information needed to determine Levels of Use.

Conversations and Observations

Outcomes from a study of an Intermediate Science Curriculum Study (ISCS) program in a middle school (Loucks 1977) illustrate how informal observations and questioning can provide information about LoU. In the study a researcher spent an entire day with one teacher collecting information through these informal techniques. Of course, in a typical school setting a facilitator would probably gather this kind of information in "bits and pieces" over time rather than spending an entire day with one teacher. Excerpts from the study notes are presented below. The descriptions in the notes offer two things: they provide a "feel" for the kinds of behaviors persons at each LoU demonstrate, and they illustrate the kinds of information that help determine each level. To better understand the various levels, you may want to refer to the decision points and descriptions for each level in Figure 4.1.

Level of Use 0—Nonuse—Teacher A

The teacher was asked if he used the ISCS science program in any of his classes. He replied, "No," adding that it would have been all right to use a while back, but that redistricting had changed the student population of the school so that the overall student IQ had dropped by ten points. He said that there were kids who would be reading about one page of ISCS every week, "if they could read at all." He then talked about a teacher who had used ISCS in the school four to five years ago. The teacher had left the school, however, and her replacement had just started using ISCS. The replacement, he said, is not convinced that ISCS is the

answer, “just like me.” When asked if he himself had ever used ISCS in the past, he replied, “No,” saying that he was overly traditional. “I’ve taught science many, many years and have been in the same room almost as many years.” He talked about two or three other science innovations that had been tried unsuccessfully in this school. “They were flops,” he said. “We spent a lot of money, bought books and equipment, and had to throw it out the window. That’s another reason I feel the way I do about ISCS. I have seen too many failures.”

Comment: Teacher A seems to know “something” about ISCS but is making no effort to learn more. In fact, he indicates that he does not plan to use the innovation ever. This absence of any action toward use of the innovation signals clearly LoU 0 (nonuse).

Level of Use I—Orientation—Teacher B

The teacher explained how science was organized in his school and stated that he is considering using ISCS level III. The teacher said he doesn’t know the details of ISCS, that he does know about its being self-paced, and that he has visited in ISCS classrooms in a nearby middle school. Within his building he has also visited classrooms using ISCS levels I and II. While at the other middle school, he looked at the ninth-grade level III textbooks and was interested in their life science content. He thinks using level III may be a worthwhile thing to do in the future. He has also discussed this briefly with the department chairman at his school, who is currently teaching level II ISCS in the ninth grade. Since Teacher B is interested in life science he is considering ISCS level III. He feels that eighth graders are not mature enough for a self-paced, self-motivating course, and he also remains in favor of having a traditionally taught course between ISCS levels II and III. However, he thinks that ninth graders are more ready for a course like ISCS, and using level III could work at this school.

Comment: Teacher B is definitely taking the initiative to learn more about the innovation and even indicates that he will probably use it sometime in the future. No time has been established for beginning use. If and when he does establish a time to begin use, this teacher will have reached decision point B, which moves him to LoU II. Until that happens he remains at LoU I (orientation).

Level of Use II—Preparation—Teacher C

To begin with, this teacher asked what we expected to learn from a teacher who is not using ISCS materials or programs. She said she’s a past user of level I ISCS, but is not now using it at all. She will be teaching two classes of seventh-grade science and three classes of ninth-grade science

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next year. She will use level I ISCS with the seventh grade and level III ISCS with the ninth grade next year. In a conversation before school, she said she had visited Mr. X's class at another school during the last nine-week period. "He helped me anticipate the problems that might arise in the use of level III ISCS. Also, he helped me order the ninth-grade ISCS materials." She stated that the materials will not arrive until next summer, so Mr. X has loaned her copies of the ISCS level III minibooks. She has looked them over, has started learning more about their content, and will again observe Mr. X teaching in about three weeks. "I feel I can ask his help because I got to know him when I taught his children and, besides, he is doing a lot to help with the ISCS level III program, especially with regard to materials."

Comment: A definite time for beginning use of ISCS has been established, thus decision point B and LoU II (preparation) have been reached. Teacher C is taking steps to get ready to begin use but has not actually started using ISCS. When she actually starts using the program she will have reached decision point C and LoU III.

Level of Use III—Mechanical Use—Teacher D

This teacher said, "I'm just on Chapter 8. I know something about Chapters 9–12, but some of my students are on Chapter 14." She had 5' X 8' heavy cardboard cards on a key chain. They were numbered and stopped at Chapter 11. She explained she had made the cards because her manual is too awkward to carry around when she is checking student work. These cards have shorthand explanations of each chapter's focus and the answers to specific questions. "We named it the 'Shorthand Key.'" She said she doesn't know the materials well enough to do without it.

In the classroom Teacher D is observed trying to fix test leads for the electrical system. She finds that alligator clips have come off two of them and they are in short supply. Three students are waiting for clips. The teacher goes to her desk and begins to work trying to repair the leads. She takes the leads with her and works on them as she walks about and helps students. A student asks, "What if you use smaller amounts?" And she responds, "Look back in Chapter 1. Would it increase? Would it decrease?" Teacher D stops and tells the visiting researcher, "In ISCS you are supposed to ask more questions and give fewer answers, an art I have not perfected." She gets scissors, cuts off the lead wire, and pushes on the alligator clip as she works with a student in the back of the room. The teacher still works on test leads. Enough leads are temporarily available as some students have finished them.

While the teacher talked, the students asked her a few questions about how to do things, but many about supplies. There was much

time spent getting equipment from her desk that only she dispensed. Also, she had to leave the room and go to the supply room three times during this class.

In a few minutes, the teacher arrived carrying a heavy cardboard box. In it she had 21 notebooks. She said the students were going to be disappointed. "They always groan when I don't get their 'end of chapters' graded. I'm always behind."

Comment: Obviously Teacher D is struggling with the management of materials and time as she attempts to use ISCS. She is aware of how the program should work ideally but she is not yet able to use it in that way. This is characteristic of mechanical use of an innovation (LoU III). It is not atypical for teachers to remain at this level for quite some time as they struggle with the logistics of a new program. Once they have mastered the logistics and establish a routine pattern of use they have reached decision point D-1 and have moved to LoU IV.

Level of Use IV—Routine—Teacher E

A student brings a test paper to the teacher and they discuss his grade. The teacher suggests he go over the materials once again. He helps him find the correct tote tray. The classroom is well organized. Most of the equipment is labeled to show which ISCS level III book it is for. The ISCS level III books are in a cabinet.

The teacher says that he has the kinks out of the program; he knows what things don't work and has arranged for demonstration or discussion when kids get to them.

He also says he has not made any changes in what he is doing, that since the first year, using ISCS has been pretty much the same. He says that there are some things he could refine; for example, his tests need some minor changes, but he feels that since the better kids do well on them, they must be all right. He says he really doesn't need plans since everything is organized and ready to use and the students all know where they are in the program.

Comment: This teacher has reached routine use (LoU IV) of ISCS and intends to make no changes. He states that his tests might be refined a bit but he does not really plan to do that. Once a user reaches the routine Level of Use it is not uncommon to remain there for an extended time, making only minor adjustments in patterns of use. Other users, after reaching this level, will begin to vary their use of the innovation in an effort to improve outcomes. Users who make these kinds of changes have reached decision point D-2 and are now at LoU IVB.

Level of Use IVB—Refinement—Teacher F

Teacher F spent half of the period walking around, helping when needed. The kids appeared to be working on different chapters in their books. Some were reading and writing; most had set up equipment and were working. They worked individually and only one or two pairs were observed. All were constructively involved.

The teacher appeared to get around to many kids each period, but also spent as much time with each one as seemed necessary. The teacher aide said things were very well organized. Teacher F rarely had to do anything with equipment, since it's all set.

The teacher told me she had been teaching two years and had had no formal training in ISCS. She said she'd still like a minicourse in the next ISCS level (level III) where she could go through each experiment like a kid. She said she thought that would give her a better perspective on what her kids would learn in later years. She also plans to visit some high school classrooms to find out what the kids do in high school so she can help hers be better prepared.

The teacher described a change she had made in the last couple of months. She had decided that the kids would learn more and be more independent if they didn't work in pairs. She therefore had them work individually, and if they needed help with the equipment only, they could help each other. She said that even if this made some accomplish less than before, they still would do their own work and feel success in their own right.

She plans to create some extra units for next year so that the kids will have a break from the individual pacing and will be able to learn some of the other aspects of science that ISCS leaves out. She mentioned that the kids expressed an interest in animals and weather—two units she would like to try to do.

Comment: Having the students work individually rather than in pairs was a variation in use of the innovation Teacher F made because she believed it would benefit the students. Because the change in use was for the benefit of the clients (students), Teacher F is said to be at LoU IVB (refinement). Had she made changes to solve some management problems or to make her own teaching day less hectic she would not be at LoU IVB but at LoU III (mechanical use).

Level of Use V—Integration—Teacher G

Teacher G, who was being observed, and her team teacher, Mr. X, are teaming for the first time this year. As students come into the room, Mr. X

is in the west end of the room discussing supplies with the girl in charge of checking materials out of the storeroom. Teacher G is near the door greeting students as they come in. They stop to talk with her and each other. A few get workbooks, go to the seating section in the east end, and begin to work. Mr. X goes to the front of the room. He quickly determines who is absent. He asks students to do a better job of cleaning up tables at the end of the hour and putting away all textbooks. He asks Teacher G if she has any announcements. She shakes her head.

Teacher G sits at a desk and Mr. X looks over her shoulder as she shows him David's workbook. David has left it with her on his way to the storeroom. Mr. X: "It is amazing." Teacher G: "I don't know." Both leave the desk to respond to two separate groups of students.

A small fire breaks out at one table. Both teachers are there instantly. Mr. X stands back and asks George, "What are you doing about it?" George is frozen. Mr. X takes the fire extinguisher and puts the fire out. Teacher G was so near that she got residue from the chemicals on her clothes. Mr. X reviews fire rules with the class.

Teacher G said that recently several students had told her that Mr. X was an easier grader than she. She felt that would not be good for the students, so she and he checked and informally evaluated their grading. They found it comparable, but want to be sure they expect the same standards for ISCS in order to have a unified effect on students.

Teacher G has the feeling that she is experiencing a growing capacity to make a difference in the lives of her students. She thinks ISCS and teaming provide the best possible vehicle for doing that.

Comment: These teachers decided on their own to collaborate because they thought that by so doing they could provide better learning experiences for their students. LoU V (integration) is determined by two key variables: collaboration between two or more persons and changes in use of the innovation for the benefit of clients. Furthermore, the collaboration must be regular, not just a casual conversation every couple of weeks. Because most teachers tend to work as "solitary craftsmen," the number of persons at LoU V is typically small.

Level of Use VI—Renewal—Teacher H

After a bell rang, signaling the beginning of the first period, the teacher and the visiting researcher walked down the hall from the teachers' lounge to his classroom. There, they began to talk about ISCS as he prepared his classroom for the day. He said that he had taught at the middle school for eight years and that this was his fourth year using ISCS. When asked how he liked the program, he replied, "Oh, not

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really. I don't dislike it, but then I'm really not sure of what I think would be better but, I have an idea."

He then went to the chalkboard and began to describe a model for teaching ninth-grade physical science. He described his model as a combination of traditional elements and ISCS. At the beginning of each unit of study, students would be together for an introduction by the teacher through a traditional lecture/demonstration format. They would then be presented with a number of labs of varying degrees of difficulty from which they would be able to choose one that would suit their learning style and abilities. They would be allowed to work either independently or with other students. Labs would be self-paced. Once the lab work was completed, the students would be pulled together again for a summary discussion by the teacher, a general class discussion of their lab work, and perhaps oral reports by individual students. The whole unit would take between three and five weeks. The teacher felt that this plan would allow for a type of student interaction lacking in ISCS. It would also give him a chance to work with the class as a whole.

"Maybe one could borrow some ISCS ideas and use them in combination with the traditional as a synthesis of the old and the new." He then discussed a new program that is scheduled to begin the next school year. "We are talking about starting an accelerated science class next year, possibly at each level (seventh, eighth, and ninth). I think this is good and I think that we are slowly realizing that the good students have something coming too. We need to have programs for them as well as for the challenged students."

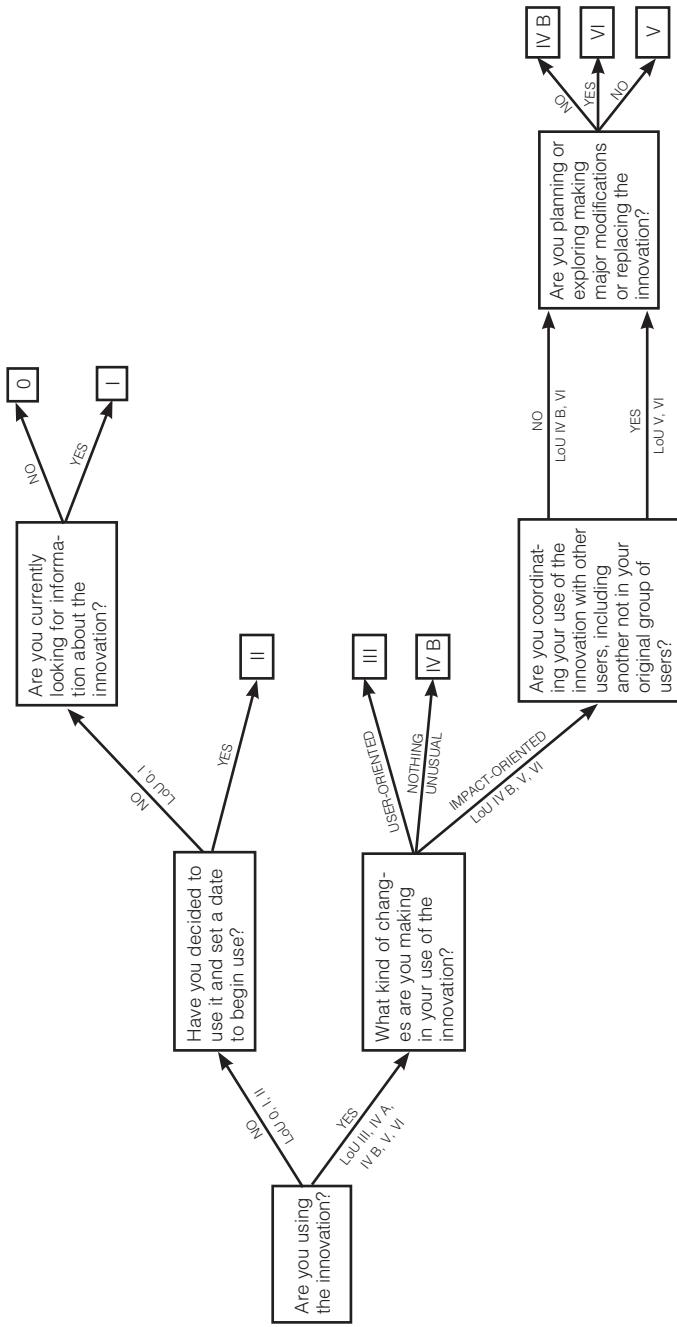
Clearly Teacher H has some ideas for major changes in his use of ISCS. The reasons for the changes center on students and what he feels they need to improve learning. It is important to note how changes or adjustments in the use of an innovation differ between LoU IVB (refinement) and LoU VI (renewal). Changes in both focus on benefiting clients, but it is the magnitude or number of these changes that differentiates the two levels of use. A significant adjustment, a collection of smaller modifications that cumulatively amount to a major change, or outright replacement of the innovation are characteristics of users at LoU VI (renewal). Once Teacher H actually makes the changes, he will probably be dealing with another innovation, not ISCS, and his Level of Use will recycle based on that innovation.

Using an Informal Interview

For those facilitators who may not have the opportunity to gather the kinds of information presented in the above vignettes, the informal LoU interview (Figure 4.2) can be a useful tool. This interview framework is based on the formal LoU research interview. It provides a guide for

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Figure 4.2. Informal Interview



From *Measuring Implementation in Schools: The Levels of Use* (p. 18), by G. E. Hall, D. J. Dirksen, and A. A. George, 2006, Austin, TX: SEDL. Copyright ©2006 by SEDL.

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talking to people about their use of an innovation, and it can be used by any facilitator. The purpose of such an interview is to do more than place a person at a particular Level of Use; it will supply information that can be used to facilitate use.

The interview begins with a question to find out if the person is using the innovation. (Beyond just accepting a “yes” or “no” answer, the facilitator might ask for a brief description of how it is being used. To accurately assess the response to this question, the facilitator should have knowledge of the configuration of the innovation as described in Chapter 2). If the answer to this question is “no,” people can be classified as nonusers, and additional questions should be asked to determine LoU I (orientation) or II (preparation). If they indicate they plan to use the innovation and have set a time to begin, then they are at LoU II, and the interview can be terminated. On the other hand, if they have not made a decision to begin use, another question should be asked to learn if they are seeking any kind of information about the innovation and, if so, what kind. The person who seeks information but has not established a time to begin use is at LoU I (orientation).

When people say in response to the first question that they are using the innovation, then additional questions are needed to determine their actual Level of Use. We have found that the question that provides the most useful information is to ask what kinds of changes, if any, they have made in their use of the innovation. If users are making changes intended for their own benefit, they are at LoU III (mechanical use). These would be changes in how they manage time or materials or classroom arrangements to reduce logistical problems. Typically, users at LoU III will use the pronoun “I” or “me” frequently in descriptions of their use.

Should the users report that use of the innovation is going smoothly and no real changes are being made, they are at LoU IVA (routine). Users who respond with descriptions of changes that are intended to help the learner in some way are at LoU IVB (refinement). Reorganization of a unit, resequencing of content, addition of enrichment materials, and elimination of materials or activities that did not work well are changes commonly mentioned by users at LoU IVB. When describing their changes, these users are likely to make frequent reference to students.

Although the percentage of innovation users who actually reach levels V (integration) and VI (renewal) is fairly small, it is still important to identify those persons and to provide them with the assistance and support they require. When asking users about their collaborative use of the innovation, there is one important caution. The purpose of the integration or collaboration must be for the benefit of students if the

individual is to be classified at LoU V. Often two or more users will work together to solve their management problems. Those who collaborate to serve their own needs are at LoU III (mechanical), not LoU V. Also, the collaboration must be regular and ongoing. Meeting together and sharing once a month or whenever it is convenient do not represent LoU V behaviors.

If users are not at Lou V, continue with your questioning, for they could be at LoU VI (renewal). Those individuals who are at LoU VI will often flood you with ideas and information about the changes they have in mind that will benefit students. The ideas they have are often for a change to a different program. At the least, they will call for significant modifications in the existing innovation. You will hear them say the changes will be better or work better for students. These people are exciting to talk to.

In Springdale, the informal LoU interview was used in May to assess how teachers were progressing with their use of the effective teaching program. The outcomes of these interviews are summarized as follows:

LoU 0	LoU I	LoU II	LoU III	LoU IVA	LoU IVB	LoU V	LoU VI
5%	0	5%	65%	20%	5%	0	0

These data have important implications for the facilitators of the effective teaching program as discussed below.

Levels of Use and the Facilitation of Change

The Levels of Use construct of CBAM offers information that can be of great assistance to any change facilitator. Levels of Use are a reality; they exist for each individual in relation to each innovation. Even if ignored, they persist; they do not disappear. When ignored, however, Levels of Use will take their own course, one that may well be counterproductive to the implementation effort and to the intended outcomes of an innovation. Therefore, it behooves all change facilitators to give serious consideration to Levels of Use.

Of course, many factors may influence a person's and group's Levels of Use, but the most powerful influence is the manner in which the implementation is facilitated. Before discussing some specific ways in which Levels of Use might be facilitated, some general knowledge about use and change should be considered.

People tend to move sequentially (if they move at all) from LoU 0 (nonuse) to LoU IVA (routine). From that point, they may move to a higher level or they may move "back" to a lower level. There is a greater probability, however, that they will remain at that level. After an inno-

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vation has been in use for some time, we find that the majority of users (excluding nonusers) in a sample at any one time will be at LoU IVA (routine). But change does not occur easily or quickly. As a general rule, 60 to 70% of the first-year users of an innovation will be at the mechanical level (LoU III). This is reflected in the Springdale data presented above. When the innovation is reasonably complex, as is the Springdale effective teaching program, many users are likely to continue at LoU III beyond the first year.

Unless the innovation itself calls for collaboration among users (such as in team teaching), usually few users will reach LoU V (integration). Even fewer users reach LoU VI (renewal), and those who do may not remain there long. When they act on their ideas they usually create a new innovation for themselves, and their Level of Use will recycle based on that innovation.

A final and important warning for change facilitators: do not assume people will use an innovation just because it has been introduced. Research conducted in hundreds of schools and involving many innovations has revealed that it is quite common to find at least 20% of the teachers in any school who are nonusers even in the second and third years of implementation. Often the percentage of nonusers is much higher.

A good starting point for change facilitators is with nonusers. The facilitator must first decide if he or she wants and expects these teachers to use the innovation. Assuming this is answered in the affirmative, interventions should be directed at moving the nonusers to user levels. At LoU 0, intended users should be made aware of the impending innovation and the expectation that it be used by all. Ideally, potential users will be involved in developing or at least deciding on the innovation, but this is not often the case with innovations mandated from district- or state-level officials. Individuals at the school level often learn about the innovation from an announcement by the in-school facilitator.

At the orientation and preparation levels (LoU I and II), people need information at two levels. First, they need to be aware of the innovation as a whole, its general requirements and purposes, and the timelines for its implementation. At this level it is important not to overwhelm people with too much information. Make it look possible, not impossible, to implement. Also, do not dwell on how effective the innovation has been somewhere else. This only puts unnecessary pressures on the potential users by implying that if they don't use it successfully right away, they are failures.

Next, after receiving general information about the innovation, and as they move closer to initial use, people need specific information about the basic steps for using the innovation and any materials or equipment

that will be required. Also, it would be good to give them some idea of what the innovation will look like when in use. Keep the focus on immediate use, not ultimate, perfected use, and direct your assistance to their classroom, not to some generalized or theoretical situation.

As first use begins and for some time thereafter, the user is likely to be at the mechanical level (LoU III). Precisely what kind of assistance will be needed at this level will depend to a great extent on the innovation and its requirements. In any event the users will probably be staying just one step ahead of the students in terms of planning and preparations. This may be because they are attempting to use new materials or trying a new plan for classroom organization that makes the management of time and students difficult. It can be beneficial for users at this level to observe other teachers who have worked out similar problems or at least to receive their verbal guidance. Workshops that focus on such problems can also be helpful. Bringing together small groups of teachers with common problems with a facilitator can provide needed technical assistance as well as build a mutual support system. Comfort and caring is one way to describe the kind of assistance needed at LoU III (mechanical use).

People who are at routine use (LoU IVA) typically do not seek assistance, for their use of the innovation is going along rather smoothly. Even so, they should not be forgotten or ignored. If their use is satisfactory and meets the expectations of the facilitator, the user should at least receive the recognition and praise of the facilitator for her or his performance. Check with these users to see if there is anything that can be provided for them that would make their use of the innovation easier or better. Perhaps they would like to have more materials of some sort or would like advice about some of the things they are doing. Even if they accept no assistance, these users will appreciate the attention and concern and that, in turn, will reinforce the fact that using the innovation is important.

A word of caution about users at LoU IVA. It is not uncommon that some of these users will move rather quickly to this level by implementing a less than ideal configuration of the innovation and then stabilizing their performance at that level. For these users, the facilitator should not be too generous with praise and recognition, but should encourage more effective use of the innovation. For example, in Springdale's effective teaching program, some teachers may have established a step-by-step procedure for teaching content with which they are comfortable, but their pacing of the steps may be such that it does not accommodate student differences. A facilitator should intervene to help the teachers improve their pacing. Be aware that because these LoU IVA users are not likely to be particularly interested in modifying their use, they may have

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to be encouraged to change at the same time they are being assisted in doing so.

LoU IVB (refinement) users are fun to work with, for they usually are excited about their use of the innovation. They are making shifts and moderate changes in their use, which they like to talk about. From the facilitator these users need sanction and support for their improvement efforts along with positive reinforcement. One way to support and reinforce is to arrange for these users to visit in other schools or classrooms where they might get new ideas or models for what they are trying to do. Allow others to visit in their classroom, for they will be good models for other users. They can also be effective in helping users who may be having difficulty with the innovation.

Levels of Use V (integration) and VI (renewal) require special consideration from the facilitator, for they are different in some key ways. Because these users differ from the previous six levels, facilitators are cautioned not to move too quickly or vigorously to promote these levels. Movement to these levels is not always desirable or possible.

LoU V (integration) cannot be reached by one user alone. There must be one or more others with whom the user is collaborating. Often collaborative use of an innovation stems from previous sharing relationships between the parties. At other times, the collaboration develops spontaneously as a result of common needs or interests. When LoU V occurs in these ways, the role of the facilitator is one of supporting the arrangement. One way this can be done is by arranging for the time the users might need for joint planning and decision making. If the collaboration involves shared teaching times or shared students, the facilitator can assist by making modifications in the daily schedule. Should the collaboration involve a group, the users may well benefit from workshops or materials that offer guidelines for managing groups.

When collaborative arrangements are desired or expected but do not occur naturally or spontaneously, the role of the facilitator will change somewhat. Instead of being in a supporting role, the facilitator will have to become a promoter of collaboration. But before this is done, the facilitator should consider whether collaboration is essential to effective use of the innovation. Planned cooperation between users can be rewarding apart from any particular innovation, but formal, planned efforts to promote collaboration in connection with an innovation can be counterproductive. Collaboration, if overly stressed, may become an innovation in itself, and the user is put in the position of having to implement two innovations. This does not mean that a facilitator should not promote collaboration, only that it should be done carefully and with an awareness of purpose. Having users share with others the advantages and

rewards of collaboration is one way to promote interest. If others show an interest, the facilitator can provide more details about the ways they can share and what steps they might take to accomplish the process.

For several reasons, facilitators are not likely to devote much time to encouraging users to the renewal level (LoU VI). First, the limited number of people who reach this level usually do so as a result of their own initiative and creativity. Second, users at LoU VI are seeking to replace the innovation or significantly modify it, and this could be disruptive to the efforts of the facilitator who is attempting to help users attain maximum effective use of the innovation. It must be strongly emphasized that in the majority of cases, LoU VI users are a positive force, not a negative force, in the implementation effort. This is especially true if they are viewed positively and not as a threat.

Facilitators who take time to interact with users at this level will be well rewarded. These people not only have creative ideas, but ideas that are usually also logical and sound. Most of all, these users have a sincere concern for their students, and they are dedicated to enhancing their learning opportunities. Their excitement is uplifting and some of their ideas can be beneficial to other users. LoU VI users can be helped by putting them into contact with other users at this level or with other persons who have knowledge that will enrich their thinking. Make available to them any new materials they may be interested in using, or sponsor their attendance at workshops where they can gain information related to their plans. Helping them channel their ideas and energies in a logical and productive manner will also be valuable.

Levels of Use and Implementation Monitoring

The suggestions above are provided for those who facilitate the change efforts of individuals and groups. Another important use for the Levels of Use construct of CBAM is assessing innovation implementation. If this is to be done in a rigorous manner, the evaluators should have formal LoU training.

The information thus derived about the Levels of Use of all persons in a school or a district can then be used to guide the interpretation of innovation outcomes. If a significant percentage of users have not reached routine use (IVA or above), it might be advisable to delay outcome evaluations or at least to interpret such evaluations in light of the distribution of Levels of Use. For example, if many of the users are at LoU III (mechanical use), it means they are still struggling with the “nuts and bolts” of innovation use. Under those circumstances it is not likely the innovation will have a positive influence on students and produce

high student outcomes. As shown in the Springdale data collected in May, 75% of the teachers were at LoU III or below, making it improbable that the effective teaching program would at that time reflect a positive difference in student outcomes.

Levels of Use data can reveal problems that may exist in the implementation process. In our own research we found schools where fewer than 50% of the teachers were actually using an innovation, even in the second year. In other schools a high percentage of users were not moving beyond the mechanical level (LoU III). Still other data revealed some obvious differences in the Levels of Use distribution for the same innovation, but in different schools. In each of these cases, the differences in use seemed to be attributable, at least in part, to the manner in which the innovation was facilitated.

Whether it be for facilitating the performance of individual users or for evaluating implementation, the Levels of Use construct of CBAM is a unique tool that can be valuable to any facilitator responsible for implementing an innovation.

Questions Often Asked about Levels of Use

Q: Can you really determine Levels of Use through an interview? Will people honestly describe what they are doing?

A: Our experience has been that they are more than willing to talk with someone about their use of an innovation and what they are doing with it. However, they may not share with you the kind of information you seek unless you ask for it. This is why the suggested interview questions are so useful. People do not intentionally withhold information as a rule, but they may not be thinking along the same lines as you are.

Q: Is there a questionnaire that can be used to assess Levels of Use?

A: No, there is not. Several attempts have been made to develop a questionnaire that would accurately assess LoU, but none has succeeded. This is because the phenomenon does not match manual measurement. It is similar to trying to read semaphore signals by turning on a radio. The personal interview, coupled with observations when possible, offers the most accurate and useful information.

Q: Can users ever go from a “higher” Level of Use to a “lower” one?

A: Yes, they certainly can. People who are at the orientation level (LoU I) may decide not to use the innovation, at which time they move to nonuse (LoU 0). Persons who have real problems using the innovation and cannot seem to move beyond the mechanical level (LoU III) likely will become weary or frustrated and become nonusers. People who have made recent changes that place them at the refinement level (LoU IVB)

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will automatically return to LoU IVA (routine) once those changes have stabilized and they are making no other changes. When people at LoU VI (renewal) actually make the changes they have planned, they are no longer at LoU VI but will recycle to a “lower” level with their new program. Persons can abandon use of the innovation from any level for a number of reasons. Other shifts in LoU are possible, but these are the most likely.

5. The Role of Effective Change Facilitators

In preparing her end-of-the-year report to the school board, Assistant Superintendent Jenkins organized and analyzed the data that had been collected. She felt satisfied that good progress had been made, despite the fact that she had had to “play it by ear” much of the time. For year two, though, she wanted to be more systematic in order to make the most of her limited resources and increase the probabilities for long-term success.

Moreover, she was concerned about the board. To win their continuing support, and to help them understand the complexities of the change process, she needed to present more than her first-year data. She needed a plan for the coming year, one that was clear, comprehensive, and grounded in the outcomes of this year’s efforts. She decided to investigate another CBAM construct, the Intervention Taxonomy, so labeled in the original CBAM research results, but currently referred to as a Framework of Six Strategies That Guide Implementation Action. She wondered if this tool could help her outline both long-term strategies and day-to-day activities needed to support implementation.

DRIVEN BY COMMITMENT, ENERGY, AND AN INNATE SENSE OF WHAT might work, Springdale’s assistant superintendent for instruction provided

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strong leadership, appropriate facilitation, and useful management in overseeing implementation of the new program. Many of Jenkins's activities, however, stemmed from trial and error and what she intuitively thought was "right." Although she was able to find and use the CBAM diagnostic tools (SoC, LoU, IC) and to accomplish a great deal, she could have saved time, resources, and frustration if she had begun her task with a comprehensive *game, or action, plan.*

One of the major contentions of this book is that guesswork and intuition need not be the CF's only touchstones. We now know a great deal about how to plan for and manage change more efficiently and effectively. As the previous chapters illustrate, there are techniques and tools that can support your role as facilitator, helping you provide appropriate assistance to those who are implementing change. You may use these approaches either singly or in combination in many different circumstances. Ideally, though, you would integrate these concepts and tools into an overall scheme, or action plan, that provides you, the CF, with a blueprint for action.

Your game plan would outline all the six strategies that are necessary to facilitate change. It would list the strategies and their related actions. No plan, of course, can predict or control everything that might happen, but with what is now known about change, you can do much to anticipate and prepare for the process.

The earlier chapters of this book focused on ways in which you, the CF, can help teachers do their jobs in effectively implementing change. This chapter is intended to help you do *your* job. It offers ideas and tools for considering the dimensions of the facilitator's role. It suggests who within your district or school might be likely to function as a facilitator, and in what capacities. It provides ideas for planning what to do and when. Together with the other CBAM approaches described in this book, the materials in this chapter offer you a basic framework for facilitating school improvement. Like the rest of the book, these materials are based on our research in actual school settings.

What Facilitators of Change Do

We spent several years in a number of schools, documenting the actions (interventions) associated with implementing curriculum programs, behavior processes, and other innovations. From these studies, we identified six distinct categories of interventions. We call these categories game plan strategies, because collectively they account for a total change effort (Hall and Hord 1984). Each strategy contains many different actions that can be taken by

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Figure 5.1. Strategies and Actions to Support Change

A Shared Vision of the Change

- describing what the innovation is and looks like in action (developing an IC Map)
- holding brief conversations about the change
- encouraging people on a one-to-one basis
- using the vision for change to guide decision-making
- engaging all constituents in creating the shared image of the change

Professional Learning

- increasing knowledge
- teaching innovation-related skills
- demonstrating and modeling the use of the innovation
- creating opportunities for collaborative professional learning related to the innovation
- using data about implementation progress to design professional learning sessions

An Implementation Plan and Required Resources

- developing policies and rules related to the innovation
- seeking/ acquiring funds
- planning
- preparing
- scheduling
- staffing
- restructuring roles
- seeking or providing materials/equipment
- providing space
- providing time for innovation-related activities

Implementation Progress

- assessing innovation knowledge or skills informally
- assessing innovation knowledge or skills formally
- collecting implementation data
- interpreting implementation data
- reporting/sharing implementation data
- collecting outcome/impact data
- interpreting outcome/impact data
- reporting/sharing outcome/impact data
- conferencing with teachers about implementation and impact data

Ongoing Assistance

- providing feedback on the use of the innovation
- providing ongoing on-time coaching
- providing personalized technical assistance
- creating additional opportunities for collaborative professional learning related to the innovation
- celebrating successes
- clarifying innovation misconceptions
- conferencing with teachers about implementation and impact data

A Context That Supports Change

- listening to concerns
- supporting risk-taking
- encouraging shared decision-making
- encouraging teachers to take on leadership roles
- engaging fully in all professional learning sessions
- developing a trusting school climate
- promoting mutual responsibility for student outcomes

change facilitators; collectively, they describe what CFs do. (See Figure 5.1 for a quick sketch of the types of activities found in each strategy.)

Each strategy is explained in more detail in the following pages, and they are:

1. A Shared Vision of the Change
2. Professional Learning
3. An Implementation Plan and Required Resources
4. Implementation Progress
5. Ongoing Assistance
6. A Context That Supports Change

Strategy 1: A Shared Vision of the Change

In conversations with many teachers about their improvement efforts, they have reported that they are keen to be able to offer new programs and processes in their classrooms that will benefit their students' increased successful learning, but they regularly note that they are not really clear about what exactly the "new way" is meant to be.

Consider that the process of change is much like a holiday trip: the first factor is determining the intended end-point, or location or destination of the trip. If the traveler plans to vacation in Bora-Bora rather than in Iceland, this destination impacts many decisions about reaching the end-point: the means of traveling to reach the destination, the type of clothing and other equipment to be taken with the traveler, and multiple other determinations that will make the holiday safe, comfortable, and enjoyable.

So it is for any change, for many decisions relate to this first consideration — where are we going?

For this reason, we recommend the development of a shared vision, or mental image, of what the change will look like when it has been implemented well and is operational. In other words, if it is a classroom instructional change, the vision should detail what the teacher will be doing with students in the classroom when engaged in the newly adopted and intended change. Importantly also, what will the role of the principal be in this effort? And, the question remains, how do we do this?

Having a picture in the "mind's eye" of the change in operation provides the implementer with a target for initiating the work to be done to reach full implementation of the change.

A first step in responding to Strategy 1 and providing this mental image is the use of one of the CBAM constructs, the Innovation Configuration, and its tool, the IC Map (discussed in Chapter 2). The creation of an IC Map of the new practice, program, or process is a useful way of defining what the change will look like when it is actually and actively in operation in the classroom, or whatever its intended setting.

The features of the shared vision of the change must be clearly defined. One of our colleagues notes that the IC Map brings "clarity and precision" to the implementation process. Of course, just having the Map will be insufficient, for the Map must be shared broadly. Facilitators must communicate and reference the Map consistently and regularly to implementers, and to those who have the responsibility of supporting implementation (principals, for instance). Such actions enable implementers to move to high quality implementation. When implementers share a common vision of the change, they can be supportive of each other.

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The IC Map and the change that it describes are not arbitrarily contrived. It is the result of the exploration of multiple sources and forms of school and student performance data that indicate areas of the curriculum or school programs in need of change and improvement. This identification is followed by investigating solutions that respond to the identified low student performance. The shared vision then is communicated through multiple means: school and district newsletters, on the school's website, at community meetings, including of course, the school board, at the local coffee and tea shops, and on the golf course. The task is to continuously remind, in various ways, all school and district constituents of the vision of the change and what progress is being made in realizing the change.

Because this little book is an introduction only to the complex world of school change and improvement, material is not included here that would enable readers to execute the work that has been described. Please see suggestions of resources that are available for gaining additional text information, and for professional learning in developing the knowledge and skills of facilitators noted in these strategies.

Strategy 2: Professional Learning

It has become quite clear to us that

Improvement is based on >> Change that is based on >> Learning.

This means that as student data are examined and low performance is identified, maintaining educators' same approach to teaching in the performance area of concern will be unacceptable. Rather, the curriculum and instructional approaches that produced the poor performance must be changed for an approach that has the potential for more promising outcomes. To adopt this change for improvement means that the implementer must learn what the change is and how to use it.

Educators' *learning* becomes the operative phrase.

Joyce and Showers's research on adult learning (and its four components and their outcomes, 2002) provides us with a crisp and clear understanding of what is necessary for educators to learn new practices. These researchers identified four components required for learning new skills and their transfer into quality use in the classroom. They measured the degree of each component's success in terms of Knowledge, Skill, and Executive Transfer, that is, Implementation. The bottom line is, what is required to find educators implementing and using new practices in the classroom?

Briefly reported, they found that four components are needed:

1. Teachers studying, reading about or being told about, a new skill results in 0% able to Implement;

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2. Add on demonstrating or modeling the new skill, results are still 0% able to Implement;
3. Add on providing the opportunity for the learner to practice the new skill and be given feedback, results in 5% able to Implement;
4. Add on a fourth component, peer coaching, and 95% are able to Implement.

Please note that these four components are cumulative.

When we reflect on the components typically provided to professional learners, we note the provision of Studying the change, and frequently but less often Demonstrating or Modeling the new skill. All too often there is no opportunity for the learner to practice and benefit from feedback. We are, thankfully, now learning how important the follow-up and coaching are for the learner to gain full benefit. In our own early CBAM two-day events of providing learning to would-be facilitators about the Stages of Concern, Levels of Use, and Innovation Configurations, we did not give attention to the full slate of required components. We subsequently lamented that “they didn’t get it.”

Much attention must be given to the learning of implementers, in large and small group settings, and in coaching individuals. Not only can Innovation Configuration Maps of the innovation, or the change, be useful in ascertaining what it is that the implementer must learn, but the Stages of Concern tools that reveal the learners’ affect and reaction to the change can be very helpful in planning educators’ learning sessions or learning events. These events should be scheduled across time as implementers develop more skills with the change and move from novices to mature users of the designated change. When the professional learning is concerns-based and targeted on the vision of the change, implementers gain the knowledge and skills necessary to work in new ways in the classroom and the school. When this is accomplished, the investment in professional learning pays large dividends for student learning—the goal of the change effort.

Strategy 3: An Implementation Plan and Required Resources

Most certainly, investing in professional learning is part of the implementation plan. But, because of its significant power, it has been addressed as a singular entity (above), but should not be thought of as isolated or divorced from the overall plan.

Planning for the realization of the vision could be thought of as the framing for successful implementation and the resources that are required. It should be borne in mind that the vision may well change in modest or major ways and such “turns” in the road to successful change should always

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be considered. The message here is, be not dismayed when reality meets the dreamed-for vision. These modest words of caution are not meant to be discouraging, but only to understand that life happens and sometimes gives us pause to replan.

Nonetheless, all logistical factors and allocations of resources and their acquisition must be considered, lest the change effort dies before it begins. There will be policies that should be considered, such as when professional learning sessions are permitted or restricted. It is easy to suggest that considerations must be given to these issues, both before implementation begins and throughout its continuation. It is hard to believe, but we have witnessed change efforts that were not well planned or resourced that failed before they were initiated.

As noted, and as addressed in the initial strategy, the change effort can be likened to a holiday trip, with unexpected changes in destination, decisions to take a “quick and easy detour” that were not initially conceived in the plan, or unforeseen disruptions that require changes in plans and many times in required resources. The plan is vital, but should not be cast in concrete. Because the plan may need to be revisited and revised does not mean that one should not start with a plan. The wise change manager or facilitator retains flexibility. And, remembers that resources may, over time, become depleted or may require reallocation.

Time is almost always a factor and a resource that receives a great deal of attention, and very typically a great deal of dismay expressed by implementers. The anguish expressed typically targets time for planning, time for professional learning, time for sharing, time for facilitators to do their work, and the years (typically) required for the change effort to reach high quality implementation. Attention should be given to time for the implementers to meet and share their successes and their solutions to problems — this time has been seen as very valuable by implementers and their facilitators.

Other actions that are part of this strategy may include articulating regulations and guidelines by which the implementation will be monitored, staffing for new roles demanded by the change, and realigning existing ones. It’s important to remember the need for specific space for implementation activities, and the challenging need to find and access additional funds for the change project.

Strategy 4: Implementation Progress

Most everyone would agree that what is given attention and assessed is most likely to be done. Almost any change does not happen over a night or weekend, thus, the process must be continuously assessed against a set

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standard for its implementation. Even though an IC Map has been created that clarifies expectations for implementation, and though time and other resource materials as well as professional learning opportunities have been provided, it is unlikely that the process of making a change will be without its tips, turns, and detours.

Facilitators who give regular and frequent attention to the implementers, their successes, and needs for support and assistance serve to keep the change process on track. Keeping a hand on the pulse and providing support is seen by the implementers as effective assistance. These facilitators can do this “pulse taking” through the short “one-legged” conversations with implementers using the Stages of Concern or Levels of Use constructs. Through these short conversations, needs can be identified, issues can be clarified, questions can be answered, and small problems can be solved. It should be understood by now how valuable use of the IC Map can be for charting progress of implementers, thus indicating what is needed from the facilitator to improve implementation.

These ongoing monitoring activities (we prefer to name these actions as “checking progress”) can signal over time that the implementers are valued and their efforts are worthy of notice and support. Notice the words “over time” for attitudes and relationships require time for developing and are not likely to be positive at the outset of a change effort.

Most decision makers have recognized, as noted above, that what is measured or monitored is given more attention. It is quite likely that implementation will be given more attention if facilitators continually check on how implementation is progressing; and it is quite predictable that a change effort will be doomed if leadership fails to check the progress of each implementer. It is important that the data, or information, that is collected be used to guide support . . . otherwise, why bother to collect it?

Strategy 5: Ongoing Assistance

Assessing and assisting are like the hand in the glove; assisting is based directly on assessing or monitoring implementation progress. When needs are identified, then a response or responses for assistance or support can be meaningfully supplied. Such support may be supplying additional or different materials, providing informal one-to-one or small group learning activities, or collaborating with the implementer to refine his or her practices. This supportive assistance is done in direct relationship to the identification of needs, thus, the assistance is directly coupled with assessment. This is not meant to be redundant, but to suggest that assessing/assisting defines what coaches do, and we have seen from Joyce and Showers’s (2002) research how vital the coaching role is.

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Therefore, this role is crucial for facilitators. Their use of CBAM constructs (SoC, LoU, IC) to determine needs of implementers can be very valuable, as these tools provide the means for assessing implementer needs. The facilitator's relationship-building behaviors with the implementer become important. If the implementer doesn't reach out to solicit help from the facilitator, the savvy facilitator makes a point of connecting with the implementer so that they productively work in sync toward high quality implementation of the change. Too many facilitators assume that if they don't hear from an implementer, that all is moving well toward successful implementation of the change. This assumption can be quite misleading, resulting in implementers lacking attention and needed support because they are not yet comfortable in requesting the help.

In supplying continuous assistance, facilitators engage in many activities. An early and continuing action is to simply stop by each implementer's classroom or worksite to say "hello" or to simply to ask, "How's it going?" in an informal way. At this time, the facilitator may be asked to respond to questions or to clarify confusions, or asked for an appointment in order to conduct a more lengthy interaction. The facilitator always expresses encouragement for early adopters, and equally so for those implementers who have been engaged with the change for a lengthy period of time. Whether the implementer is making small steps in the implementation process, or giant leaps, the facilitator is always taking note of this progress and reinforcing and applauding it. Facilitators engage with the implementer in problem solving, and in any kinds of follow-up and technical assistance. In short, there is nearly nothing, large or small, that the facilitator will not do to support and assist implementers.

A most important action of the facilitator is to note the successes of the implementers, successes that are both small and large, and to celebrate them, both publicly and privately.

Strategy 6: A Context That Supports Change

The growing focus on organizational culture has resulted in an increase in the professional literature on the topic. How the context, climate, or culture impacts the workplace and how professionals respond to change in differing contexts/cultures is the topic of interest here. Context may be thought of as two components: one is the *physical* aspects of the organization such as its facilities, organizational structures, schedules, and policies; the second is the *human element* comprised of the organization's people, their beliefs and values, and the norms that appear to direct their attitudes, relationships, and behaviors. These two parts interact and influence each other.

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It is easy to understand how a small staff in a small facility can come together, connect, build positive relationships, and build trust more easily than a large staff housed in multiple buildings. In either case, a supportive context, including both physical and human elements, decreases the staff's isolation, continues to develop the staff's capabilities, and encourages positive relationships between and among staff, students, parents, and the community. It advocates for continuous action for increased school effectiveness so that students benefit.

In such a context as this, staff, students and parents value change as a means to improve effectiveness, and the staff actively seeks changes in order to improve their classroom and school practices. In this context, school leaders act to create this context:

- They manage schedules and structures so that people can come together to share ideas for improvement, and they allocate resources to support improvement efforts;
- They develop policies for increasing staff capacity;
- They model the behaviors that they hope the staff will adopt through being highly visible to the staff and working collaboratively with them, exhibiting focus and commitment;
- They serve as teachers and coaches for the staff, through reading, studying, and sharing materials that contribute to the staff's developing expertise, and attending professional learning activities with the staff;
- They engage in conflict resolution and use it with the staff as a means to resolve disputes and build unity; and,
- They use the selection and termination processes to ensure that staff commit to school goals, recognize staff's work publicly and privately, as well as inviting staff to share their efforts and experiences as they drive toward goal attainment.

Game Planning with the Strategies

In identifying the kinds of planning and action that CFs carry out, we have used the term *strategies* with purpose. Our expectation is that you, as a change facilitator, not only will be involved in providing services to support change, you also will be actively engaged in planning for the change. Your role will be not unlike that of an athletic coach who prepares a game plan (often with input from assistant coaches and sometimes from the players themselves) and then offers advice and assistance in carrying it out.

We are recommending the strategies as a practical, easy-to-use framework to guide school improvement planning. There is more to planning for change, however, than making certain that activities from the different strategies are designed and delivered. It is important to consider both the

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long-term and short-range dimensions of planning and to always keep the individual and innovation in mind.

Long-term or strategic plans. Strategies may be thought of as representing objectives to be accomplished in the change process. Strategies are expressed in terms of concrete outcomes to be attained over a substantial period of time (one school year or more); they address most or all of the individuals involved in a particular change. An effective and comprehensive game plan includes clear statements for each strategy. For example, under the professional learning strategy, activities might be (1) during year one, administrators will receive professional development in managing the school improvement project; and (2) teachers will receive periodic hands-on learning in how to use the new instructional approach.

Short-range or incident plans. Incidents are what might typically be called “enabling activities”; that is, they are the specific supportive actions that make it possible to accomplish the larger strategy. They are of much shorter duration than strategies; they may affect one, or few, or many persons. Many incidents can be planned for at the beginning of a change project; others are planned during ongoing planning/review sessions; and some are designed on the spur of the moment as the need or opportunity arises.

Effective CFs look for and recognize opportunities to provide supportive actions. For example, when you meet a teacher unexpectedly in the parking lot, take a moment to ask, “Has last week’s professional development helped you? Can I provide some assistance?” Too often, facilitators neglect to recognize the frequent opportunities available to make these modest, but powerfully important supportive actions. A single incident may not carry a great amount of weight, but collectively they add up and can be extremely influential. And they should add up—as you are developing your plans, focus on incidents that, across time, have some continuity and that geometrically increase in impact.

You will find that both long-range strategic plans and short-range incident plans are important to the success of your change efforts and that the two must complement each other to be truly effective. We have observed planning at the strategy level that never influenced the change process because no incident plans were developed to put it into operation. At the other extreme, we have seen CFs plan and deliver a multiplicity of incidents, all types in all directions, without a larger focus to guide them. We also have seen change projects that had neither long-term nor short-range planning; chance reigned, frequently ruining a promising school improvement effort.

With the individual and innovation in mind. As you begin developing strategies, and incidents for each strategy, consider also your concerns-based diagnostic information garnered from SoC, LoU, and IC data. As suggest-

Figure 5.2. Skeleton of a Concerns-Based Action Plan

Diagnosis	SoC 0, 1, 2	SoC 3	SoC No major concerns	SoC 4, 5, 6
	LoU 0, I, II	LoU III	LoU IV A	LoU IV B, V, VI
	IC _____	IC _____	IC _____	IC _____
Strategies	Action(s)	Action(s)	Action(s)	Action(s)
A Shared Vision of the Change				
Professional Learning				
An Implementation Plan and Required Resources				
Implementation Progress				
Ongoing Assistance				
A Context That Supports Change				

ed in earlier chapters, we can predict how teachers' concerns about and use of a new process generally evolve over the course of a school improvement project; this knowledge can help you as you construct your initial game, or action, plan. Because not all individuals follow the typical patterns, however, you will need to use the SoC, LoU, and IC tools periodically to assess

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each person's application of the new program or process and redesign your support and assistance as needed.

Using the IC Map that has been developed to describe and define the components of an innovation (see Chapter 2) can also help you make decisions about your game plan. For example, the components to be implemented next month will require immediate ordering of material, while other materials can wait. Similarly, you will need to schedule professional learning for specific innovation components to be implemented first, while learning related to components that are not "online" for implementation can be held for later attention. In addition to using the Map to make decisions about which innovation components to attend to first and at what speed, you can also use it to monitor the status of the new practice in each classroom and to adjust the action plan as necessary.

You may find developing a skeleton of your game plan helpful. First, consider and identify each strategy you will use for your change project (and we think you should use all six!). Using the Figure 5.2 template, write your strategies in the left column. Then think of incidents to activate the strategy—incidents that take into account the SoC/LoU/IC diagnoses of teachers (notice these on Figure 5.2). It is not necessary to make an exhaustive list of incidents. Many of these will be designed as you do your short-term, day-to-day planning; others will emerge as the moment presents itself. The importance of the game plan at this point is to identify long-range strategies that will provide a framework for your actions as facilitator, and to identify a few key incidents to put your strategies into operation. The incidents, by and large will come later, shaped to individual's SoC, LoU, and IC profiles.

The Facilitator Team: Who Can Act to Facilitate Change

Much attention has been devoted to the importance of the principal's role in the process of school improvement. In our studies, we extensively observed principals in the role of change facilitator. We found effective principals constantly surveying their domains and gathering information about their settings, staffs, and students. They processed what they saw and generated ideas about how to address problems and needs that they had observed. Furthermore, effective principals shared responsibilities and leadership with others on their staffs. Effective principals are collaborators; they are also delegators, carefully and thoughtfully identifying and utilizing available human resources.

Some functions can be carried out most effectively by the principal. By virtue of the principal's pivotal position, what the principal does often

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carries more weight and influence than what others do. Principals, however, do not have the time to do all the work of facilitating change by themselves. Therefore, certain functions should receive the principal's attention as priorities. These are:

- sanctioning the change, identifying it as a priority,
- providing resources, and
- endorsing the position and activities of other CF team members.

If the principal is active in no other way, she or he should take responsibility for these functions. They cannot be accomplished as powerfully by anyone else.

In our early studies we thought principals were the only "key to change" in the school. It also became abundantly clear that the principal has a great many responsibilities and acting as a change agent was one of many important tasks to be done in the course of a school day. There are many others—school- and central office-based staff and administrators—that play significant roles in support of teacher change. These individuals might be an assistant principal, department or grade-level chairs, curriculum or subject coordinators or supervisors, or specially named innovation facilitators.

More recently, a key individual that plays an important change facilitator role is a teacher who has full time or part-time responsibilities as an instructional coach. Instructional coaches often have had additional professional learning experiences in the innovation being implemented as well as specialized preparation as a coach. In this role they can provide on-site and on-time support to teachers as they work to implement the new program or instructional approach. (Knight 2007).

The principals most effective in implementing change were team-oriented, working collegially with other CFs. Each of these team members provide a specific type of support. For example, principals can manage the schedule at the school to provide time for collaborative professional learning related to the innovation. Central office staff can provide resources, both capital and human resources, to support implementation, and curriculum staff can provide technical assistance to help teachers align the expectations of the innovation with student learning standards. As stated above, instructional coaches can provide on-site assistance through modeling new teaching strategies, assisting with planning related to the innovation, and providing non-threatening, constructive feedback on a timely basis. It is important to make sure that the facilitator team, collectively, addresses all of the functions needed for the change. This does not necessarily mean, however, that one particular team member must always be responsible for supplying one particular kind of assistance. Rather, the tasks may vary, depending upon

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who is most capable or available. Function assignments should not be rigid; providing and maintaining support is the primary goal.

In our work, we also identified an additional type of change facilitator: the external facilitator. External facilitators bring particular innovation-related expertise not found among the school-based members of the CF team. These individuals may be associated with the program or innovation being implemented or they may provide needed program evaluation expertise.

These change facilitators organize themselves and build structures to work together as a change facilitator team. In some schools, they may meet each week to review data about the school improvement process, generate ideas, and plan who will do what during the ensuing week. When they meet again, they debrief to ascertain what went well and what needs more attention. In other schools we observed a more hierarchical organization of facilitators: the first CF (the principal) appeared to interact only with the second CF, who in turn related to the third CF. Whether the team of CFs has a “flat,” or horizontal, collegial structure or a more hierarchical one, the important aspects to remember are what they need to do as a group: use data to help guide the implementation of an innovation.

Through our studies, we were able to identify nine characteristics of effective CF team operation (Hall and Hord 1986):

Continuous Communication

The members of the team are in continuous, typically informal, contact with one another and with the school staff.

Shared Responsibility

Each member of the CF team complements the roles of the others; collectively, through sharing and overlapping of assignments, they take responsibility for all the functions.

Common Vision

Each member shares a common view of the goals of the school improvement project; there is clarity and agreement about the objectives and directions for the change process.

Openness to Change

Openness to change in plans is a fourth characteristic of the team, with all members sharing and discussing what can be done. Planning is ongoing, constantly reviewed and revised through informal conversations and regularly scheduled team meetings.

Focus

Planning, decisions, and actions are taken with the total improvement game plan in mind; this facilitates consistent actions by the various CFs.

Collegiality

Collegiality, a sixth aspect, is an inherent element in each of the foregoing five characteristics.

Synergy

Because sufficient knowledge, communication, and a shared agenda exist, it is possible for each member of the team to gain from the work of fellow members, resulting in a total process of change that is greater than the simple addition of the efforts of each individual facilitator—this “geometric summing” is a seventh factor of CF teams.

Complementary Skills

In effective CF teams there is an increased use of members’ strengths but decreased emphasis on individuals, and a willing filling of gaps and anticipation of what other team members will be doing.

Positive Professional Perspective

All of these factors contribute to the ninth: positive professionalism and enthusiasm for the innovation, for the capabilities of the school, and the activities that are taking place.

Of course we believe also that all CFs need to be familiar with SoC, LoU, and IC—the CBAM constructs and tools that can help guide and clarify the process of change.

Initiating the Change Process

In this chapter we have tried to convey the significant and vital role that you play as change facilitator. Your tasks are not easy. Though they may appear deceptively simple in our tidy charts and chapters, they are complex undertakings. If you are seeking to use our tools and techniques for the first time, we suggest starting with a small team of colleagues who will serve as CFs. A starting point might be to read and discuss this book. As a next step, the CFs should read, review, and study a very practical and useful book by Hord and Roussin (2013). This book is comprised of a series of “lessons” that focus on each of the CBAM constructs and its tools and how to use them. The CFs can use this book to guide their learning about the

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constructs, what they mean, and how to apply them in any change effort. Then, in consultation with teachers, the CFs could decide on a modest school change to implement, an effort that can be successful for everyone. Then go from there.

One last thing we might suggest to you: learn “mushroom detection.” “What,” you may ask, “is that?” Just like mushrooms that pop up unexpectedly after a spring shower, efforts to facilitate change may, from time to time, produce some surprising—and unplanned—results. Be sensitive to these possibilities, take corrective actions as you can, and learn to thrive in a changing landscape. (See Hall and Hord 2015, pp. 182-205)

Questions Commonly Asked about Facilitators and Interventions

Q: Does it matter who is on the CF team?

A: Yes, it should be individuals who are enthusiastic about the change to be facilitated and who have the respect and regard of the school staff. Obviously, it should be school or district staff who are regularly available and accessible to work with teachers and with whom you can work collegially and comfortably. All members of the CF team must have background knowledge of and expertise with the change.

Q: Are principals expected to conduct professional development?

A: When principals do this, it can be very effective for they know their teachers and their situations. Even if principals are not doing this work themselves, they can be involved: they can make arrangements with others, such as central office “experts” or staff developers, to do the professional learning. Studies have shown that if principals attend training sessions with their teachers and engage in the training activities with them, change occurs more effectively.

Q: Is it possible for the same person who evaluates teachers’ performance also to monitor their implementation of change?

A: Yes, it is possible to do this effectively if several conditions are met. First, the principal or other facilitator who is monitoring should make it clear that the monitoring activities are for the purpose of school improvement and not for teacher assessment. Second, the monitoring purpose should be made clear to the teacher: that it will form the basis for providing support and assistance to the teacher. Third, the help and support should be immediately available and visible following the monitoring activity so that the facilitator is seen as just that—a helper, not an evaluator.

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Q: If a game plan is made according to the long- and short-range strategies and activities, is that all there is to it?

A: Well, no. We suggest that obstacles or barriers, and any problems that can be anticipated related to the particular change, be considered, and that the planning take those things into account. Particular policies may need developing, for example. And, of course, the plan should consider the people who will do the changing—and their developing SoC, LoU, and IC patterns during the change process.

Q: Once you have a game plan for the change, is it necessary to abide by it 100%?

A: No, most football coaches begin with a plan for conducting the game, but if the plan is moving the team closer to defeat than to victory, a coach will shift to a contingency plan. The strategies provide a framework for making a long-range plan that is not sacred. In other words, a game plan is the best starting point that can be devised on currently available information and thinking. If some parts do not work well, they should be adjusted and changed as the situation dictates.

6. Last Words: Implications & Our Central Message

THIS BOOK HAS BEEN ABOUT TAKING CHARGE OF CHANGE, OF LEADING and facilitating the process and the people involved in it. Its most important message has been to direct attention to the needs of the people who must change.

In case we have not been clear, we take this last opportunity to distinguish between the applications of CBAM as a tool for change facilitation—which is the focus of this book—and the model’s application for research and evaluation. Much more thorough understanding and training are required for the latter than for clinical applications. We have not attempted here to lay out all the bits and pieces of our model. Where detail and technical processes are lacking, we have cited references for additional reading. Our goal has been to provide enough basic concepts, tools, and procedures to launch you as a facilitator. A more technical treatment of CBAM (Hall and Hord 2015) is available for those who wish to delve further, especially those who are eager for a more scholarly discussion of the concepts and for a more extensive report of research results.

Our enthusiasm throughout this text may have implied that, once equipped with CBAM’s tools, the facilitator has enormous control over

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the change process and can save the day through data gathering and planning. Perhaps control is not as much to the point as understanding. Understanding helps the CF keep the fingers firmly on the pulse of the process and permits more effective responses as the process unfolds.

In this context, it is important that we emphasize that personal concerns are okay. The key to successful facilitation is to personalize one's interventions by focusing attention on the concerns of those engaged in the change process and accepting those concerns as legitimate reflections of changes in progress. This contrasts sharply with the more instinctive tendency of managers to direct change from the perspective of their own concerns and objectives. Policymakers as well are known to reach decisions and to direct actions based on policy-level concerns, and they should at the very least adjust their expectations for results to take into account the concerns of those affected by the change.

Policymakers and administrators contemplating change should consider also the questions of who will facilitate the facilitators. Principals, central office staff, even teachers find themselves in new roles as members of facilitation teams, and they too experience the change process as they learn these new skills. Once again, the understanding offered by the CBAM concepts provides a tool for gauging progress and providing encouragement and stimulation.

Understanding of change should also lead policymakers to a better appreciation of the complexities of the very human process of change and of the demands that process imposes at every level of the system. Innovations are often thought of as single things—an effective school program, for example—when they may in fact be bundles that include five, seven, eight, nine, or more components. There are limits to the number of bundles and bundle components that people or institutions can handle effectively at one time.

We hope your reading of these chapters has given you some “Aha!s.” It has been our intention to provide new insights and understandings of school change and new meaning about the roles people and their personal needs play in the process. If we have struck a familiar chord—a note that rings true with your own experience—then you will have added new validity to CBAM and we will have succeeded in our task.

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Stages of Concern Questionnaire Online

SEDL offers a fee-based online version of the Stages of Concern Questionnaire (SoCQ 075) that can be completed online by many participants in a short amount of time. See <http://www.sedl.org/pubs/catalog/items/cbam21.html>

SEDL's Current CBAM Initiatives

For information about SEDL's current work on the three diagnostic dimensions of the Concerns-Based Adoption Model (CBAM) that provide tools and techniques that enable leaders to gauge staff concerns and program use in order to give each person the necessary supports to ensure success, see <http://www.sedl.org/cbam> on the SEDL website.

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