Guide on the Implementation of Evidence-Based Programs:
What Do We Know So Far?
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Summary

Through its National Crime Prevention Centre (NCPC), Public Safety Canada fosters the development and implementation of evidence-based crime prevention interventions in Canada. To this end, the NCPC supports the implementation and evaluation of community-based initiatives to identify what works, how it works, and what it costs.

The question of “how” has often been overshadowed in favour of the demonstration of program impacts. Yet the quality of the implementation of prevention programs is a key factor in their success. For example, an effective implementation of a promising program has a greater chance of producing positive results than a less rigorous implementation of a model program. Program results that demonstrate little effectiveness may not be caused by a lack of sound treatment and intervention, but by weaknesses in the program’s implementation.

Practitioners and researchers in crime prevention increasingly face a common challenge: the successful, effective implementation of evidence-based practices. The emergence of this interest in implementation-related issues coincides with the realization that merely selecting an effective program is not enough and that, even with the development of best practice guides, various experiences in the field have shown that effective programs have not delivered the expected results. An effective program, combined with a high-quality implementation, increases the likelihood of achieving positive results among the clients served. Emphasis should be placed not only on program selection, but also on the identification of effective conditions for implementation.

Presently, the literature confirms that some aspects of implementation are generalizable, particularly with regard to the stages and key components. Whether it is a crime prevention program or a program in a related field, for example in the education or health and social services sector, implementation is based on the same general core principles. However, certain conditions in the implementation of crime prevention programs suggest that there may be certain elements, even particular challenges and facilitative strategies that are specific to this sector. The fact that these programs target a population with multiple risks, sometimes even clients with a criminal record; the identification of young people with the right profile to participate in the program and their recruitment; the use of retention strategies to maintain participation in the program; the sometimes limited involvement of families; and the dual role of certain partners are just a few instances illustrating that the implementation of prevention programs requires strategies adapted to these conditions. An approach including empirical studies specific to the implementation of crime prevention programs must be pursued in order to shed light on these questions.

This guide on the implementation of evidence-based programs outlines current knowledge on key elements, proposes implementation planning tools and provides examples from various case studies.
Introduction

Program implementation

Is defined as a specific set of activities aimed at implementing an activity or program. It is a process that involves decisions, actions and corrections in order to deliver a program through a series of activities geared toward a mission and results.

(Fixsen et al., 2005)

It is well known that the level and quality of the implementation of prevention programs affect the results obtained (Durlak & DuPre, 2008; Fixsen et al., 2005, 2009; Fixsen & Blase, 2006; Metz et al., 2007a,b,c; Mihalic et al., 2004a,b). Effective implementation increases a program’s likelihood of success and leads to better results for participants. Moreover, a dynamic, committed and open context that is amenable to change will facilitate a program’s integration. The formula below illustrates this rationale.

Formula for successful use of evidence-based programs

Effective program + Effective implementation + Enabling context = Increased likelihood of positive results

(Fixsen et al., 2013)

Negative or mixed results from a program’s impact evaluation may be linked to a poor quality implementation and do not necessarily mean that the program is not working (Durlak & DuPre, 2008). A meta-analysis conducted by Wilson et al. (2003) of 221 school-based prevention programs targeting aggressive behaviours revealed that implementation was the second most important variable influencing the results obtained overall (Durlak & DuPre, 2008). Similarly, Smith et al. (2004) indicated that even though 14 schools obtained modest effects in the implementation of anti-bullying programs, those schools that monitored the key variables related to implementation reported twice the average with regard to effects on self-reported rates of bullying and victimization compared to schools that did not monitor the implementation process (Durlak & DuPre, 2008).

One of the prerequisites of a successful implementation also lies in the clarity of the program and its operationalization. The more clearly the key components of the program are explained (e.g., dosage, activities, etc.) and the more training and technical assistance are available, the more those responsible for the program will be able to focus on the key components associated with a high-quality implementation and promote an adequate replication of the program.

1 The variable with the greatest impact on results was the risk factor profile of participants (particularly their level of aggressiveness) (Durlak & DuPre, 2008).
Who is this document for?
This document is intended for anyone interested in the implementation of programs in the field of crime prevention or in a related field.

How to use this document?
The central objective of this document is to disseminate practical knowledge that can be used as a guide for the implementation of crime prevention programs. This guide is also a reference tool, and we encourage you to consult it periodically during your program’s implementation process.

Although it is by no means exhaustive, this document covers the following topics:

- **Implementation study**: Demonstrates that a high-quality implementation is an important determinant in achieving results for evidence-based programs;
- **Stages in the implementation process**: Explains that implementation is not a single event, but rather a long-term process made up of several stages;
- **Systemic approach of factors impacting the results of implementation and the key components**: Illustrates the variables that impact, both positively and negatively, the implementation of evidence-based programs and the key components of a high-quality implementation;
- **Implementation teams**: Stresses the importance of having individuals dedicated to implementation;
- **Fidelity in program implementation**: Reiterates the importance of adhering to the original program while providing some examples of the types of adaptations that are possible.

This guide also includes two practical sections:

1) A first section “Planning Tools” contains checklists of key activities for each of the stages of implementation; and,

2) A second section “Case Studies” illustrates lessons learned following the evaluation of programs or initiatives in crime prevention or in related fields.
1. Program implementation study

Increasingly, programs are evaluated in order to measure their impact on a target group; such as their ability to reduce problematic behaviours or to strengthen protective factors. Identifying the programs that work and those that do not is done through rigorous evaluations, and registries/databases classify these programs according to various criteria of effectiveness. In comparison, knowledge concerning the conditions for implementing these programs has not progressed as far. Indeed, there are still many questions: Why doesn’t a model program always obtain the same results? What factors influence the implementation conditions? How can consistency in results be maintained across various replication sites?

Implementation science

To address these questions, an implementation science has been gradually developed. Implementation science can be described as the field of study from which methods and frameworks have been developed to promote the transfer and use of knowledge in order to optimize the quality and effectiveness of services (Eccles, 2006). To connect the domains of research and practice, implementation science examines gaps between research and practice as well as individual, organizational and community influences surrounding the implementation process.

The science of program implementation

Is defined as the scientific study of methods to promote the systematic adoption of research results and other evidence-based practices in current practices with a view to improving the quality (effectiveness, reliability, security, relevance, equity, efficiency) of services for the public. Implementation science is multi-sectoral and also applies to programs in the areas of health and wellness and education, as well as crime prevention.

(Adapted from Eccles et al., 2009)

Results from process evaluations are one of the main sources of knowledge about favourable conditions and challenges surrounding implementation. Examples include the manner in which a program was, or was not, successful in reaching the target group; selecting the right participants; and/or adequately delivering interventions while respecting the dosage. Data from a process evaluation is unique and provides many details about the way in which a program is implemented.

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2 Some examples of commonly accepted registries/databases: Blueprints for Healthy Youth Development; Crime Solutions; OJJDP Model Programs Guide; Coalition for Evidence-Based Policy’s Top Tier Evidence; SAMHSA’s National Registry of Evidence-based Programs and Practices.

This attention given to implementation also helps to distinguish what pertains specifically to the program versus what pertains to the way in which the program is implemented (Metz, 2007):

- The activities and key components of the program (e.g., individual therapy, skills development, empowerment) and the program’s impact results
  \textit{versus}
- The activities and key components of the program’s implementation (e.g., recruitment of qualified staff, training and supervision, recruitment of youth) and the results of the implementation process.

A promising program that is implemented effectively has a greater chance of producing positive results than a model program\footnote{For a definition of promising and model programs, please see the publication available from the following website: http://www.publicsafety.gc.ca/cnt/rsrscs/pbctns/prmsng-mdl-vlm2/index-eng.aspx.} where the implementation is constrained by multiple gaps and limitations. Additionally, a program evaluated as having neutral effects can be replicated under different conditions and can obtain positive results. Implementation conditions must be considered as a key element in whether results are achieved.
2. Stages of the program implementation process

There is a consensus that program implementation is not a unique, linear event but rather a dynamic, iterative process within which multiple steps overlap and which requires the use of strategies and key components (Fixsen et al., 2005). The stages that appear to be central and generalizable within effective implementation strategies and approaches are illustrated in the figure below.

**Figure 1: Stages of the program implementation process**

![Diagram of stages of program implementation process]

These stages of implementation:

- represent a dynamic, iterative process;
- are accompanied by a set of key activities carried out at different times (the “Planning Tools” section outlines these activities in the form of checklists);
- are interconnected and affected by various internal and external organizational factors; challenges addressed (or not addressed) in one stage will impact the entire process: for example, high staff turnover could require an organization to go back to a previous stage of implementation;
- are associated with structural and procedural changes: programs are not plug and play; a number of changes will take place in the organization and various forces will take place, including forces of resistance;
- are spread out over a period of two to four years.

Following full implementation of the program, there are two other stages that are not included in the figure above as they represent more of a continuation or adaptation of an already existing program.

**Sustainability/Continuity:** Even if this stage appears to be a logical continuation once a program ends, sustainability must be analyzed in the initial development phases. Program continuity will be achieved, for example, through secure funding, continued commitment from partners and ongoing employee

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5 Full implementation of the program is achieved when 50% or more of the staff employ the program with fidelity and obtain good performance results (Fixsen et al., 2011).
training—in short, by maintaining the initial resources that were necessary during the launch of the program. In other words, it is about finding ways through which program effectiveness can be maintained over the long term considering the changing conditions compared to the initial implementation.

Innovation: Once the program has been implemented by closely maintaining fidelity to the original program, an organization might decide to adapt certain aspects of the program. This step includes discussions with experts and program developers to ensure that the key components of the program will not be affected by these changes. In other words, it is about making good use of program evaluation(s) and trying to identify the conditions in which the program obtains the best results.

“Planning Tools” Section

Each stage of implementation requires a series of activities. Detailed checklists have been created to help you become familiar with these activities, determine the strengths and weaknesses of your organization, and develop an implementation plan specific to your needs and resources.

- Overview of key activities based on the stages of the implementation process
- Stage 1 – Activities related to the exploration and adoption stage
- Stage 2 – Activities related to the preparation and installation stage
- Stage 3 – Activities related to the initial implementation stage
- Stage 4 – Activities related to the full implementation stage
- Activities related to the sustainability stage
3. Systemic approach of factors impacting the implementation process

Depending on contexts and organizations involved, a number of factors will positively or negatively influence the implementation process. Table 1 illustrates some of the factors most often cited in the literature. In general, meta-analyses focusing on the program implementation process have shown the necessity to adopt a multi-level approach in order to take into consideration all of the factors related to the program characteristics, practitioners and communities, as well as those related to organizational capacity and support for prevention (training and technical assistance) (Durlak & DuPre, 2008; Gray et al., 2012; Wandersman et al., 2008).

Factors influencing the implementation process

There are many factors that influence the implementation process; these can be described as elements which, through their presence/absence and their quality, will positively or negatively impact the implementation process (facilitators or obstacles). These factors refer to key components as well as external factors. Also, mirror effect has been observed and as such, some implementation facilitators become obstacles if they are absent or missing.

(Simoneau et al., 2012)

<table>
<thead>
<tr>
<th>Table 1: Main factors influencing the implementation process</th>
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<tbody>
<tr>
<td><strong>I. Main factors related to the social context</strong></td>
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<tr>
<td>- Political environment</td>
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<td>- Commitment to prevention</td>
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<tr>
<td>- Empowerment / readiness of communities</td>
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<td><strong>II. Main factors related to the organizations</strong></td>
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<tr>
<td>- Organizational capacity</td>
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<tr>
<td>- Level of site readiness</td>
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<tr>
<td>- Organizational stability, shared decision making and common vision</td>
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<tr>
<td>- Presence of champion(s)</td>
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<td>- Quality of management support</td>
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<td>- Coordination position</td>
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<tr>
<td>- Resources dedicated to evidence-based programs</td>
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<tr>
<td>- Staff selection*</td>
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<tr>
<td>- Coaching*</td>
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<tr>
<td>- Linkages with other external networks and partners*</td>
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<tr>
<td>- Engagement and commitment from management*</td>
</tr>
<tr>
<td>- Leadership*</td>
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<tr>
<td>- Evaluation and use of performance measures and information management system*</td>
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* Factors with an asterisk (*) indicate that they are key components of implementation and will be discussed further in the next section.

6  In particular see Durlak & DuPre, 2008; Gray et al., 2012; Wandersman et al., 2008.
Table 1: Main factors influencing the implementation process (cont’d)

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<th>III. Main factors related to the practitioners</th>
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<tr>
<td>• Attitudes toward and perceptions of the program</td>
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<td>• Level of confidence</td>
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<td>• Skills and qualifications*</td>
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<th>IV. Main factors related to the program</th>
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<tr>
<td>• Integration of the program and its compatibility</td>
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<tr>
<td>• Training and technical assistance*</td>
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* Factors with an asterisk (*) indicate that they are key components of implementation and will be discussed further in the next section.

As illustrated, there are many factors that influence the implementation process, and their interconnectedness is complex so it is difficult to make generalizations and predictions. Apart from the positive influence of the key components whose effects have been measured in scientific studies, it remains difficult to draw conclusions about other factors or to measure their interactions and under which conditions. In one study on the implementation of a mental health program in schools, Kam et al. (2003) observed a significant effect between management’s support for the program and the fidelity of the implementation by teachers. When these two factors were high, significant positive results were noted among the students; however, when management’s support was weak, negative changes were seen among the students.

I. Main factors related to the social context
Factors related to social context focus on links within the community, resources, leadership, participation, sense of belonging, and willingness to intervene in community-based problems. Various concepts have been developed by researchers to refer to these factors: community capacity, community readiness for prevention, community competency, and community empowerment. In any case, from a practical point of view, it is important to keep in mind that various factors related to the context in which the program is implemented will have an impact on the program implementation process (e.g., social, cultural, political and economic factors).

II. Main factors related to the organizations
Organizational capacity
While there are many ways to present factors related to organizations, in general they are referred to as organizational capacity. Capacity can be defined as the necessary skills, motivation, knowledge and attitudes required at the individual, organizational and community levels to implement a program (Wandersman et al., 2006 in Flaspohler et al., 2008). Developing all of the initial capacities required to support a good-quality implementation can take six to nine months (Elliott & Mihalic, 2003). Appendix 1 outlines some of the key attributes associated with the concept of capacity.

For more information, consult Wandersman et al., 2008.
Also it is important to distinguish between the organization’s general operations and the capacity required to implement a specific program. In fact, factors associated with organizational capacity can be classified according to the following three sub-categories (Durlak & DuPre, 2008; Gray et al., 2012):

- General organizational factors: work environment, standards for change, shared vision and integration mechanisms for the new program;
- Organizational practices: shared decision making, coordination with other agencies, communication, and formulation of tasks;
- Considerations regarding personnel and staffing: presence of a recognized and respected champion, administrative support, and supervision.

**Readiness assessment**

Readiness assessment is a concept used to refer to the level of readiness of practitioners, organizations and communities to effectively implement a program (Edwards et al., 2000 in Flaspohler et al., 2008). During the exploration and preparation stages, an effective implementation strategy requires communities and organizations to assess their needs, the resources/programs in place, and the level of commitment in prevention (Mihalic et al., 2001, 2004). A readiness assessment increases the likelihood of selecting the right program to implement and helps to better understand the context in which this program will be developed.

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**Importance of organizational capacity and readiness**

The evaluation of the Blueprints initiative\(^8\) indicates that most of the organizations were not ready to implement and support, with fidelity, the implementation of their program. Many program replications failed because of limited organizational capacity or an inadequate level of readiness.

(\(\text{Elliott & Mihalic, 2003}\))

The feasibility study and readiness assessment are important steps that are too often overlooked. For example, feasibility visits conducted by Blueprints staff helped develop a better understanding of the programs, reduced feelings of fear and resistance concerning the new program, and increased motivation and confidence among practitioners (Mihalic et al., 2004).

**Organizational stability, shared decision making and common vision**

Lack of organizational stability (e.g., a high rate of staff turnover) is an important factor in the quality of implementation: lack of stability often delays implementation and increases the workload for remaining employees (Mihalic et al., 2004).

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\(^8\) The following is a brief overview of the Blueprints for Violence Prevention Initiative. In 1996, through funds allocated by the Colorado Division of Criminal Justice, the Centers for Disease Control and Prevention and the Pennsylvania Commission on Crime and Delinquency, the Center for the Study and Prevention of Violence (CSPV) at the University of Colorado in Boulder designed and rolled out a national prevention initiative for young people aimed at identifying and reproducing programs shown to be effective in preventing violence, delinquency and drug use. The project, initially called Blueprints for Violence Prevention, identifies programs that meet rigorous scientific standards for effectiveness. In 2012, this initiative was re-named as the “Blueprints for Healthy Youth Development” and has been funded by the Annie E. Casey Foundation. Program results are now broadened to include not only behavioural problems but also education, emotional well-being, physical health and positive relationships.
Situations in which decision making is shared between practitioners, researchers, administrators and community members generally leads to a better implementation as well as increased chances of sustainability. As such, research has shown a significant positive effect between community participation in decision making and sustainability (Durlak & DuPre, 2008).

**Presence of a champion**
The program champion is the person behind the daily program operations who motivates and facilitates communication among all those involved in the implementation. More and more, current research tends to indicate that the presence of a champion within an organization is a key component of implementation (Fixsen et al., 2006).

Generally, the director or coordinator of the program is considered the program champion. The person designated to play this role must have enough authority within the organization to be able to influence decisions and make changes to organizational structures and policies, but also needs to have relationships with the staff in charge of administering the program. Results have also shown that this person should be present on a regular basis; problems arise when this person does not have enough time to perform these tasks (Mihalic et al., 2004).

**Importance of champions**
At the Blueprints replication sites, those having a strong champion experienced fewer problems.

(Mihalic et al., 2004)

Sites with “dual champions,” that is, one person from senior management and one person from middle management (i.e., coordination), were particularly successful in motivating staff and initiating organizational changes to accommodate the new program. In addition, these two champions often succeed in expanding the program both inside and outside of their organization (Mihalic et al., 2004).

Having multiple champions, even a team of champions, is a good strategy to adopt compared to having a single person. A team approach improves communication at all levels and develops a stronger support base within the organization. In addition, if key individuals leave the organization, others are able to take charge of the program through to its completion. For example, at the Blueprints sites, one program failed after its champion left the organization. Without a champion and active administrative support, the program was not successful (Mihalic et al., 2004).

**Quality of support from management**
Every successful program depends largely on the quality of support received from the management team. Administrators have the power to change organizational practices to bring them in line with new program requirements (making time, avoiding the feeling of work overload, etc.), and they have to be able to motivate and encourage staff. When practitioners feel supported, they are more motivated and inclined to implement the program and follow it with fidelity.
Importance of management support

Lack of support from the management team was the main reason why programs have failed; passivity, lack of real support and proactivity in finding solutions have been identified as common causes of failure.

(Mihalic et al., 2004)

For Blueprints programs implemented in schools, school administrators who played an active and effective role in the implementation process did the following:

- explained funding to teachers;
- sought their support prior to implementation;
- attended teacher training workshops;
- observed teachers delivering program lessons;
- kept teachers informed about the progress of the implementation;
- in some cases, co-taught lessons with the teachers (Mihalic et al., 2004).

Having administrators present for a part of or for entire training sessions increased the quality of the implementation by sending a strong message to staff that the program was a priority. By attending training sessions, administrators had a better understanding of the program, supported the program more effectively, and were able to make any necessary changes (Mihalic et al., 2004).

Coordination position

Blueprints replication sites have shown that the project coordinator position is a central position that should be undertaken by a full-time staff member (at least 20 hours per week). When this position is held by a volunteer, even someone with the proper experience and qualifications, lack of availability for the project is the variable most often cited as affecting the quality of the implementation (Mihalic et al., 2004).

Resources dedicated to evidence-based programs

There are three limitations that have been associated with challenges in implementing evidence-based programs (Gray et al., 2012):

- Lack of time: The implementation of an evidence-based intervention is often seen as supplemental to regular tasks. Time issues emerged at almost all of the Blueprints replication sites; when programs were implemented in schools, lack of time to carry out the program activities was the primary and most frequent implementation challenge (Mihalic et al., 2004).
- Limited access to research and data sources: The infrastructure to access knowledge is often limited, and practitioners have difficulty accessing the most up-to-date knowledge.
- Lack of financial resources: A lack of funding is often seen as a limitation to implement an evidence-based program.
III. Main factors related to the practitioners

Characteristics of practitioners systematically related to implementation pertain to:

- their attitudes and perceptions regarding the necessity and benefits (or not) of adopting a new program;
- their level of confidence;
- their motivation and level of commitment;
- their ability to deliver the program.

Practitioners who recognize the specific need of the program often feel more confident in their abilities (self-efficacy), and those that have the required competencies are more likely to implement it with a higher degree of fidelity (Durlak & DuPre, 2008). As noted by Greenwood & Welsh (2012), resistance from staff to adopt a new program should not be ignored: it is one thing to promote the benefits of a program to a director, but another to convince the staff to use it.

However, other research indicates that the characteristics of practitioners and their impact on the adoption and delivery of a program have produced results that are difficult to generalize (see Wandersman et al., 2008). This finding therefore demonstrates the importance of considering contextual and organizational factors and developing a better understanding of how they interrelate with program characteristics.

IV. Main factors related to the program

Results show that practitioners and organizations implement a program more effectively when (1) program objectives are consistent with the mission and values of the organization, and (2) the program is integrated into existing priorities and practices (Small et al., 2007). In several Blueprints replication sites, divergence between program philosophies and the organization’s mission were identified as a major problem. At some sites, family therapists failed to respect the fidelity of the program because program directions appeared to differ from those of the agency (Mihalic et al., 2009).

“Case Studies” Section

Refer to the following case studies to obtain other concrete examples of implementation challenges and facilitators:

1. Blueprints for Violence Prevention Initiative: Main challenges in the implementation process
2. Obstacles of the implementation of a secondary alcohol prevention program
3. Implementation of a school evidence-based substance abuse prevention program: Some examples of challenges
4. School-based programs: What facilitates their implementation?
4. Key components of the implementation process

Ensuring the successful implementation of effective programs is a challenge that has gained interest for a number of years. In 2001, the principal investigators of the Blueprints for Violence Prevention Initiative published an article, “Ensuring Program Success,” which stated that the success of an implementation depended on the following elements: adequate administrative support, champion/leaders, training and technical assistance, and adequate staff (Elliott et al., 2001a,b). Since then, the use of key components for implementation has become a common practice, and current research now refers to them as “implementation drivers”.

**Implementation drivers**

Are defined as the elements that positively impact the success of a program. Their presence helps to increase the probability of success in replicating a program. Key components refer to capacities, organizations’ infrastructure and operations and can be classified into three categories:

1. Implementation drivers related to competencies;
2. Implementation drivers related to organizations; and,
3. Implementation drivers related to leadership.

(Fixsen et al., 2013)

1. Implementation drivers related to competencies: These are mechanisms for implementing, maintaining and delivering an intervention as planned to benefit the target clientele and the community. The implementation drivers in this category are:
   - Staff selection
   - Training
   - Coaching

2. Implementation drivers related to organizations: These are mechanisms for creating and maintaining favourable conditions in which the program will be developed and thus facilitate the delivery of effective services. The implementation drivers in this category are:
   - Linkages with other external networks and partnerships
   - Engagement and commitment from management
   - Information management system in decision making

3. Implementation drivers related to leadership: These are leadership strategies put in place to resolve various types of challenges. Many challenges relate to the integration of the new program, and leaders need to be able to adapt their leadership style (adaptive leadership), make decisions, provide advice, and support the organization’s operations (technical leadership). The implementation drivers in this category are:
   - Leadership (adaptive and technical)

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9 For more information, consult Implementation Drivers: Assessing Best Practices, National Implementation Research Network, University of North Carolina Chapel Hill (2013). In addition to providing theoretical elements, this publication also proposes best practices and evaluation grids for each of the key components.
As illustrated in Figure 2, these implementation drivers form an integrated and adjustable model. This means that, depending on conditions, one program might require more or less attention to an implementation driver, while another program, under different conditions, might be designed to eliminate one or more implementation drivers (Baker et al., 2000; Fixsen et al., 2009, 2013; Van Dyke et al., 2013). Organizations are dynamic and ever-changing and, as a result, the practical application of this model is a real challenge. In order to achieve results, there are back-and-forth movements in the contribution of each of these implementation drivers at each stage of the implementation process (see Fixsen et al., 2009). For example, in a program where only minimal basic training is offered, this could be offset by more intense coaching along with frequent feedback. On the other hand, programs where staff have been recruited using rigorous selection mechanisms might require less coaching. We also need to recognize that practitioners acquire skills and aptitudes at different speeds and levels. One practitioner might benefit greatly from skills training and require less frequent coaching, while another practitioner might feel overwhelmed by the initial training and require more sustained coaching and supervision.

As a program is implemented, feedback and adjustment will be necessary to sustain the program. Depending on the strengths and weaknesses in place, all of the implementation drivers should be balanced and integrated.

**Figure 2: Implementation drivers** (adapted from Fixsen et al., 2009)
Staff selection

Staff selection is the starting point for the establishment of a qualified, experienced workforce to deliver an evidence-based program. At the Blueprints replication sites, those that hired less qualified and less experienced practitioners showed slower progress in their training and the level of ownership of the program. At these sites, staff turnover was also generally higher (lower employee satisfaction rate), which represents a significant and frequent challenge in the implementation process. More than degrees and previous experience, it is also important to consider personality traits and individual characteristics which should be included in the selection criteria (e.g., knowledge of the field, sense of social justice, ethics, willingness to learn, judgment, empathy). Some programs were developed with ease of delivery in mind in order to minimize the need for a rigorous staff selection process (e.g., tutoring program staffed by volunteers). However, other programs require staff with more complex qualifications and specific skills, and it is important to respect these criteria (Fixsen et al., 2009).

Training

Receiving adequate training is central, and everyone involved in replicating a new program should participate (practitioners, manager, administrators and others) and know how, with whom and where the new program is used (Fixsen et al., 2009, 2013). Effective training:

- Educates stakeholders/practitioners on the theory, philosophy and values of the program;
- Demonstrates and explains the rationale supporting the key elements of the program;
- Is an opportunity to apply new competencies developed;
- Proposes feedback periods.

Evaluations of school-based programs showed that, compared to untrained teachers, teachers who had been fully trained (Mihalic et al., 2004):

- Were more likely to implement the new program with a higher degree of fidelity. Among those who did not attend training, close to 50% were not successful in applying the program or abandoned it before the end of the semester;
- Completed the program more often and with greater fidelity. Fully trained teachers completed 84% of the program compared to 70% among untrained teachers, and program fidelity was 80% versus 60%;
- Felt better prepared to teach the program and received more positive results from their students.

Moreover, the evaluation of the Blueprints for Violence Prevention Initiative showed that when training and technical assistance were not adequate, replication sites had problems overcoming obstacles and the implementation was often delayed (Mihalic et al., 2004).

Coaching

Using coaching activities helps solidify ownership of the program, especially since real experimentation happens “on the ground.” Specifically, the coach’s role will be to make recommendations on more appropriate ways of intervening, to reinforce what was learned, provide encouragement and give feedback on skills related to the program (e.g., commitment, clinical judgment).
A study carried out by Joyce and Showers (Przybylski, 2013) shows the importance of coaching in the practical transfer of knowledge:

- 10% of newly trained staff will transfer what they learn when the training includes theory, discussions and demonstrations;
- 25% of newly trained staff will transfer what they learn when the training includes theory, demonstrations and practical workshops;
- 90% of newly trained staff will transfer what they learn when the training includes theory, demonstrations, practical workshops, and coaching.

**Performance evaluation – fidelity**
Performance evaluation is as much about evaluating the performance of practitioners delivering the program and adherence to the program (fidelity) as it is about the achievement of expected results (Metz et al., 2007). Those in charge will measure the performance of practitioners and program compliance to identify training needs, redirect program actions if necessary, and obtain information about overall performance.

**Linkages with other external networks and partnerships**
Partnerships and coordination with other external networks is central, at all stages of the implementation process. Linkages with different systems are not only useful for resource sharing and availability but also for facilitating the recruitment of program participants through referral mechanisms and for the development of a comprehensive treatment plan (Mihalic et al., 2004).

**Engagement and commitment from management**
The engagement and commitment of management refers to its leadership and its ability to make decisions based on the data collected and to facilitate the processes through which the program will be implemented. Management that is engaged and committed to the program will act to bring directions and practices in line with the expected program results (Fixsen et al., 2005, 2013). When management is fully committed to program implementation, policies, procedures, structures, culture and climate will be aligned with the needs of practitioners in order to develop favourable conditions to deliver the program (Fixsen et al., 2009). Working in a positive environment where the program is understood and where management provides flexibility to change work routines are two very important elements.

**Information management system in decision making**
Collecting information (e.g., interventions, fidelity, client satisfaction, staff assessment, target group reached) is another key element that helps provide an overview of performance and supports decision making. Progress and summary activity reports provide directions for decision making, assist organizations in delivering the program, indicate whether corrections need to be made, and inform on the quality of the interventions.

**Leadership**
The essential role of a leader within the organization and with external networks is widely recognized (Fixsen et al., 2013). Leadership is not assumed by a single individual but by people who are involved in various activities and who adopt behaviour associated with leadership to establish effective programs and support them over time. In the first stages of implementation, an “adaptive” leadership style will be
necessary to deal with changes resulting from the new program; this style of leadership will continue to be important throughout the implementation process. Later, “technical” leadership will become more predominant in order to manage and support the implementation (e.g., selection interviews, performance evaluations, collaborative agreements with external networks). Sometimes the same people provide these two types of leadership; other times leadership is more broadly distributed throughout organizations (Fixsen et al., 2013).

**“Case Studies” Section**

Process evaluations of programs supported as part of the Blueprints for Violence Prevention Initiative also identified key elements of the successful implementation of programs to prevent violence, delinquency and drug use:

5. Blueprints for Violence Prevention Initiative: Key elements of a high-quality implementation
5. Implementation teams
Implementation is an active process, and it is important to have individuals dedicated exclusively for that purpose. Over the years, different terms have been used to identify these individuals: for example, liaison officer, program consultant, site coordinator. The NIRN and SISEP\textsuperscript{10} networks use the term “implementation teams,” and recent research increasingly shows the importance of having dedicated people within the organization (or outside the organization) designated to carry out the central activities related to program implementation.

**Implementation teams**

Are generally made up of three to five people who have program expertise and knowledge of the principles of implementation, improvement cycles and methods of organizational change. Implementation teams have allocated time so that they can be fully engaged in the development of the infrastructure needed for implementation.

(NIRN, SISEP)

Some implementation teams are composed of program developers and providers, others are intermediary organizations that assist in implementing a variety of programs, while still others are formed on site with the support of groups outside the organization. Regardless of their composition or their name, it is especially important to have the necessary expertise and resources to:

- ensure the use of the implementation drivers;
- follow the implementation process;
- establish connections between partners; and,
- facilitate internal changes for integrating the new program into the organization’s existing structure (Fixsen et al., 2006; Mihalic et al., 2004)\textsuperscript{11}.

\textsuperscript{10} The National Implementation Research Network (NIRN) (http://nirn.fpg.unc.edu/) and the State Implementation and Scaling-up of Evidence-based Practices (SISEP) (http://sisep.fpg.unc.edu/).

\textsuperscript{11} Checklists presented in the “Planning Tools” section illustrate examples of activities carried out by implementation teams (or by others in charge of implementation).
6. Fidelity in program implementation

One of the strengths of evidence-based programs is being able to demonstrate, through rigorous evaluation studies, the capacity to produce and reproduce positive changes among participants. For policy makers, funders, and practitioners, these programs become the new way to provide services as opposed to some traditional programs for which the results are sometimes mixed. However, a program will only continue to produce the same results if it is implemented in accordance with the original program (O’Connor et al., 2007).

What is program implementation fidelity?

In its simplest form, implementation fidelity, sometimes called adherence or integrity, refers to how the program is implemented in relation to its initial design, the delivery of all of the program’s key components, and the use of protocols and tools specific to the program.

(Mihalic, 2004b)

Although some authors have made recommendations for the adaptation of programs (Rogers, 1995), the majority of data collected from meta-analyses and evaluations demonstrate that programs implemented with greater fidelity have a greater likelihood of producing the expected changes (Fixsen et al., 2009; Mihalic et al., 2004b). According to Perepletchikova and Kazdin (2005), an implementation fidelity rate over 80% indicates a high-fidelity implementation (in Stern et al., 2008). Various factors affect the level of fidelity and the following elements help maintain a high level of fidelity in program implementation: staff training, well-developed program manuals, organizational support, supervision, and program monitoring (Stern et al., 2008).

The Washington State Institute for Public Policy Evaluation (Washington, United States) conducted a study on the Functional Family Therapy (FFT) program comparing the recidivism rate of participants (followed over 18 months) correlated with practitioners’ adherence to the program. Results are clear: the more practitioners adhered to the program, the lower the recidivism rate:

- (Recidivism rate for the control group: 28%)
- Recidivism rate for the group of practitioners who were highly adherent: 18%
- Recidivism rate for the group of practitioners who were “just” adherent: 23%
- Recidivism rate for the group of practitioners who were “borderline” adherent: 31%
- Recidivism rate for the group of practitioners who were not adherent: 34%

Five aspects of fidelity

The definition of fidelity proposed by the Center for Substance Abuse Prevention (CSAP, 2001) is the degree to which the elements of a program, as designed by its developer, match its actual implementation
by an organization. Based on this definition, program fidelity is measured according to five variables (Dane & Schneider, 1998 in Mihalic, 2004b):

- **Adherence**: Determines whether the program is implemented as designed (i.e., delivery of all of the key components to the appropriate population, staff training, use of protocols, tools and material, selection of replication sites, etc.).
- **Exposure**: Includes the following elements: number of sessions, length of each session, and frequency of using techniques of the program.
- **Quality of program delivery**: Refers to the manner in which the program is delivered by practitioners (e.g., teacher, volunteer or program staff); this can include the ability to use the prescribed methods or techniques of the program, the level of readiness, and attitudes.
- **Participant responsiveness**: Measures how engaged and involved participants are in program activities.
- **Program differentiation**: Identifies the unique characteristics of the program (when the program’s reliability is distinguished from others).

**Program adaptations**

Although there is no denying that it is preferable to replicate the program with fidelity, a program may be adapted without affecting its key components and compromising the expected results. The table below presents examples of acceptable versus unacceptable (risky) adaptations. Adaptations that affect the key components of the program (such as modifying dosage, theoretical approach and staff) are considered risky adaptations as they jeopardize the achievement of the program’s expected results. Understanding key components of the program is a central part of program adaptation: failure to adhere to them may lead to what is referred to as “program drift.” Moreover, it is better for adaptations to be made after a first wave of pilot tests in order to demonstrate that the program has the capacity to achieve the expected results (Przybylski, 2013) and adaptations should always be indicated and monitored through performance data and evaluations.

<table>
<thead>
<tr>
<th>Table 2: Examples of types of program adaptations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acceptable adaptations</strong></td>
</tr>
<tr>
<td>- Changing some expressions (using terminology more in line with language used by the target group)</td>
</tr>
<tr>
<td>- Replacing original images (using pictures that reflect the activities/routines of the target group)</td>
</tr>
<tr>
<td>- Replacing cultural references</td>
</tr>
<tr>
<td>- Adding evidence-based content to make the program more appealing to participants</td>
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<td></td>
</tr>
</tbody>
</table>

(Adapted from O’Connor et al., 2007)
In order to better identify the consequences of adapting a program, new research needs to be conducted to determine which elements are imperative and must be executed with fidelity and which elements can be modified. Implementation studies should also specify the components that were reproduced with fidelity and those that were modified; without these details and these results, it will continue to be difficult to measure the effects of adaptations on program results.

### “Case Studies” Section

For additional concrete examples of different types of adaptations and examples of obstacles and facilitators to program adhesion, refer to the following case studies:

6. Program adaptations based on the implementation contexts: Some findings

7. Facilitators and obstacles of the implementation of an evidence-based parenting program with fidelity

8. Program implementation in Aboriginal communities
7. Findings on the implementation of crime prevention programs

Concepts of implementation that have been presented so far are generalizable, meaning they are central to implementation regardless of the nature of the program. But are there specific key components and characteristics for the implementation of crime prevention programs? Certain obstacles related to the target group (identification, recruitment and retention of participants) illustrate how and why the implementation of prevention programs is different. It is also important to stress that crime prevention programs work with a clientele that has multiple risk factors, sometimes even criminal records, which raises a series of implementation challenges that seem to be specific to the crime prevention programs.

**Participant identification**

Identifying people with the right profile to participate in a program can be a real challenge, depending on the context and nature of the program. Before accepting a person into a program, risk levels and problems need to be analyzed. Eligibility to participate in a program, particularly when it is a prevention program targeting an at-risk clientele, should be evidence-based. To this end, there are validated tools to identify and assess risk, and the use of these tools is strongly encouraged. With the results obtained using these tools, it is possible to develop individualized intervention plans and obtain measures of progress/change among participants (using pre/post-test measures). Identifying risk levels and main risk factors enable crime prevention programs to not only standardize certain practices but also to ensure that interventions are targeted. Even knowing that the use of screening and risk assessment tools presents challenges in itself, using them is still beneficial for crime prevention programs. In this way, having validated screening and risk assessment tools represents a specific key component in the implementation of crime prevention programs.

**Participant recruitment**

Recruiting participants into the program is another challenge. In addition to people who join of their own accord, recruitment is also done through a referral system set up between partners from various organizations (e.g., police, health and social services network, addiction treatment centres, schools, mental health organizations). The creation of this referral system takes time and needs to be supported by administrations in order to facilitate and encourage the referral processes. Other difficulties arise with sharing confidential information (e.g., youth protection file, file involving criminal charges, a health and social services file). To regulate and secure these referrals, memorandums of understanding and confidentiality practices should be put in place, and administrations must support them. Challenges associated with the establishment of referral and information sharing systems impact the entire implementation process by delaying the initial implementation stage, and, in some cases, partners may decide to withdraw from the project. Establishing strong rules for collaboration with the right key partners and being supported by a committed and flexible administration are two other essential components specific to crime prevention programs.

**Participant retention**

Generally, participation in crime prevention programs is voluntary and the length of participation varies depending on the program. In programs with a family-oriented approach, parents’ participation is central, and this creates similar recruitment, engagement and retention problems. To encourage
participation and program completion, retention strategies should be proposed (e.g., offering gift cards, providing snacks, making transportation available), and this would represent another key component specific to crime prevention programs.

These examples of challenges associated with the target group represent a central point of crime prevention programs and should receive a special focus. Other examples of challenges related to the implementation of crime prevention programs can also be mentioned, including: fidelity in the implementation, program adaptation (and cultural adaptation), selection and retention of qualified staff, training and technical support (especially for foreign programs).

All of these challenges, in addition to slowing down the implementation process, also affect the achievement of the expected outcomes. Abandoning or not completing the program, a low participation rate or high attrition rate, or a poor mix of people in one cohort affect program outcomes. Even if the program is classified as a model program, all of these implementation challenges can negatively impact measures of effectiveness. Concretely speaking, poor impact results would imply that this program is not effective when these results may in fact be due to practical problems related to the implementation. From the point of view of public investments in prevention, there are major implications, including: experiencing difficulty promoting this program in the future and implementing it in other replication sites (in order to confirm that this program really doesn’t work in a Canadian context) as well as sustainability problems.

The implementation process needs to be an integral part of prevention programs. Without distinguishing between implementation problems versus those that arise from the program itself (e.g., limited information on key components), it would remain difficult to make reliable and valid judgments on the reasons explaining why a program did not achieve the expected outcomes. Implementation is a complex process and challenges are always expected. However, some challenges can be identified in advance and facilitative strategies can be put in place to mitigate them.

The importance of high-quality implementation is a central dimension for practitioners, researchers, decision makers, funders as well as for individuals participating in a program. Unless specific attention is given to the quality of a program’s implementation, large-scale programs are unlikely to be effective. Detailed analyses on the implementation of crime prevention programs should be maintained and pursued in order to better understand their specific characteristics and challenges and to identify appropriate facilitative strategies.
Planning Tools

Checklists of activities related to implementation stages

This planning tool, in the form of checklists of activities related to the implementation stages, is useful for evaluating, planning and monitoring implementation activities across each stage of the process. Even though these stages may appear linear, they are not: one stage does not end sharply as another begins. Back-and-forth movements between stages occur and are encouraged when core activities are not completed. Table 3 presents all activities according to the four stages of implementation and their delivery stages. This table also illustrates that many activities continue over time. Following this table are definitions for the activity categories used.

The purpose of this section is to provide organizations with a tool so that they are able to plan and develop an implementation plan tailored to the program, local conditions and organizational capacity. Awareness of all of the activities at each implementation stage also helps to identify strengths and weaknesses in order to better determine where challenges might arise and where additional efforts may be required.

Table 3: Overview of the implementation activities and their delivery stages

<table>
<thead>
<tr>
<th></th>
<th>STAGE 1 Exploration and Adoption</th>
<th>STAGE 2 Preparation and Installation</th>
<th>STAGE 3 Initial Implementation</th>
<th>STAGE 4 Full Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Assessment (needs/capacities)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program selection</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Implementation team</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Communication strategy</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Resources</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Partnerships and collaborations</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Operational details of the program</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Organizational culture and climate</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Human resources – staff</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Information management system</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Sustainability</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
Definitions of the activity categories:

**Organization:** Includes activities related to the creation of the implementation team, final selection of the program(s), structural and operational changes to be made to the organization, use of improvement processes, development of responses to program drift, and answers to program modification/adaptation questions.

**Assessment of needs/capacities:** Includes completion of an assessment to determine community needs/resources and an assessment of organizational capacity.

**Program selection:** Includes activities such as identification and revision of eligible programs, analysis of results, and final selection of the program.

**Implementation team:** Group of individuals responsible for providing guidance throughout the full implementation by ensuring commitment, laying the groundwork, ensuring program fidelity, and monitoring results, challenges and facilitators.

**Communication strategy:** Development and maintenance of a clear, consistent and frequent communication strategy.

**Resources:** Refers to all activities related to securing resources (financial, material, human and other) for the program's implementation.

**Partnerships and collaborations:** Refers to all activities related to the involvement of stakeholders in the implementation process, including identification and involvement of “champions” and identification of partners and opportunities for collaboration.

**Operational details of the program:** Includes liaison activities with program developers, identification and preparation of implementation sites, establishment of a participant referral system and recruitment process, identification of facilitators, and response to implementation challenges.

**Organizational culture and climate:** Includes activities to assess and manage an organization’s readiness to change in order to implement the new program.

**Human resources – staff:** Refers to activities involving staff who execute the program, including selection, training, developing training plans, coaching and supervision processes, and technical assistance/support.

**Information management system:** Includes the development and maintenance of a data system to collect information and measure effects by reporting fidelity and performance, as well as ensure quality maintenance.

**Sustainability:** Sustainability is not a discrete stage. Rather, it needs to be planned from the beginning and reviewed at each stage. Activities include securing ongoing funding, developing new partnerships and sharing successes, maintaining implementation with fidelity, and supporting continuous improvements to the program.
Stage 1: Checklist for activities related to the exploration and adoption stage

<table>
<thead>
<tr>
<th>STAGE 1: Exploration and Adoption</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conduct assessments (needs/capacities):</td>
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<tr>
<td>▪ Conduct a needs assessment: 13 determining community needs and prevalence of needs, identifying risk and protective factors, identifying areas of greatest need (target groups and areas), and identifying existing initiatives, resources and services that address these needs and determining if they are effective.</td>
<td></td>
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</tr>
<tr>
<td>▪ Conduct an assessment of the organization’s capacity 14 to determine ability to implement a new program with fidelity: assessing financial resources, organizational commitment, staffing, administrative system and community buy-in.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Select a program 15 and make a final decision:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>▪ Search registries/databases 16 to identify programs with characteristics (key components) that match the needs of the community, target groups and areas as well as the organization’s capacities and resources.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>▪ Use the Pentagon Tool (see Figure 3) to review and evaluate programs.</td>
<td></td>
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<tr>
<td>▪ Identify the factors or issues that either support or detract from effective implementation of a program.</td>
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<tr>
<td>▪ Choose the programs to implement or make recommendation to appropriate organizational level for final selection.</td>
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</tbody>
</table>

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13 The needs assessment may involve gathering information from the following sources: governmental, schools, community organizations, and local and regional media. Reference materials are also available online. For example, the “Community Tool Box” developed by the group “KU Work Group for Community Health and Development” available at: http://ctb.ku.edu/en/table-of-contents (in English only) and the “Community Action Guide to Comprehensive Community Needs Assessments” report (2011) produced by the National Association for State Community Services Programs (in English only) available at: http://www.nascsp.org/data/files/CSBG_Resources/Train_Tech_Assistance/Needs_Assessment_FINAL_8.22_print_to_pdf.pdf; and the “Safety Diagnosis Tool Kit for Local Communities” developed by the Centre québécois de ressources en promotion de la sécurité et en prévention de la criminalité, available at: http://www.crpspc.qc.ca/default_an.asp?fichier=accueil_an.htm (bilingual site). Finally, some provincial departments have also developed guides for local communities to guide them during their local needs assessment.

14 For additional information, see Appendix 1 (table 5).

15 Some points to keep in mind when identifying eligible program(s): how much evidence is needed? Does the program need to be manualized? Does a program need to meet all of the criteria to be accepted? How much weight should be given to practical considerations versus scientific merit?

16 Some examples of accessible and commonly accepted registries/databases: Blueprints for Healthy Youth Development; Crime Solutions; OJJDP Model Programs Guide; Coalition for Evidence-Based Policy’s Top Tier Evidence; SAMHSA’s National Registry of Evidence-based Programs and Practices.
### Stage 1: Checklist for activities related to the exploration and adoption stage (cont’d)

<table>
<thead>
<tr>
<th>STAGE 1: Exploration and Adoption</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
</tr>
</thead>
</table>
| Establish an implementation team[^17]:  
  ▪ Form a new group or redefine/expand a current group within the organization.  
  ▪ Establish a team leader with a clear role and responsibilities (ensure this person has sufficient time and resources to effectively oversee the process).  
  ▪ Include individuals from different content areas with different skills.  
  ▪ Consider the inclusion of community members or other external persons (e.g., business leaders, other agencies) as team members.  
  ▪ Ensure team members know their roles and responsibilities.  
  ▪ Agree upon structure(s) for the team (e.g., steering committees, advisory committees, working groups). | | | | |
| Develop a communication strategy:  
  ▪ Describe the exploration process to key stakeholder groups.  
  ▪ Develop methods to promote exploration and assess “buy-in” from several stakeholders/partners. | | | | |

[^17]: Alternatively, the role of the Implementation Team may be fulfilled by the organization’s staff. However, it is strongly recommended that it be a team and not the responsibility of a single person.
Figure 3: The Pentagon Tool

<table>
<thead>
<tr>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Brief overview of the program and its goals</td>
</tr>
<tr>
<td>- Target population</td>
</tr>
<tr>
<td>- Risk and protective factors addressed</td>
</tr>
<tr>
<td>- Replication site requirements</td>
</tr>
<tr>
<td>- Staffing and volunteers requirements (qualifications and experience)</td>
</tr>
<tr>
<td>- Training requirements (mandatory/optional)</td>
</tr>
<tr>
<td>- Coaching and supervision process</td>
</tr>
<tr>
<td>- Implementation manuals, guides, tools, etc., required</td>
</tr>
<tr>
<td>- Administrative support, data systems, other technology required</td>
</tr>
<tr>
<td>- Resources needed (financial/in-kind)</td>
</tr>
</tbody>
</table>

18 Adapted from ‘The Hexagon Tool’ by Laurel Kiser, Karen Blase and Dean Fixsen (2013). Based on work from Laurel Kiser, Michelle Zabel, Albert Zachik and Joan Smith (2007).
### Fit with Needs in Community
- Addresses identified need(s)
- Fits with target group(s) and area(s) identified
- Matches with replication site(s)

### Fit with Current Programs
- Fits with/complements current programs to address need(s) identified
- Fits with organizational structure and priorities
- Fits with community values
- Community cultural/linguistic compatibility

### Research and Evidence Available
- Program is rated by registries/databases
- Research to support the program theory model
- Number of research and evaluation studies conducted
- Outcome measures available
- Fidelity data available
- Cost-effectiveness data available
- Population similarities to target population identified
- Applicable to diverse cultural groups (Aboriginal)
- Rating of efficacy or effectiveness

### Program Readiness for Replication
- Availability/support of program developer(s)
- Training and technical assistance
- Possibility to observe program’s effects in other sites, other successful replications, adaptations
- Level of effort to implement, certification/licence required
- Potential implementation challenges identified

### Organization’s Capacity to Implement
- Site availability, staffing and volunteer supports, training requirements, coaching and supervision, administrative support data systems and technology required, resources (financial/in-kind)
- Sustainability – organizational commitment and financial resources
- Community buy-in – support of necessary partners

### Scoring

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>Partially</th>
<th>No</th>
<th>Comments/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program fits with needs in community</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Program fits with current programs</td>
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<td></td>
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<td></td>
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<tr>
<td>Research and evidence available</td>
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<tr>
<td>Program readiness for replication</td>
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<td></td>
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<tr>
<td>Organization’s capacity to implement</td>
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<tr>
<td><strong>Overall Rating</strong></td>
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</tbody>
</table>
**Stage 2: Checklist for activities related to the preparation and installation stage**

<table>
<thead>
<tr>
<th>STAGE 2: Preparation and Installation</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connect with <strong>program developer(s)</strong> on the following topics:</td>
<td></td>
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</tr>
<tr>
<td>▪ Content – understand the content to be covered (e.g., content and materials needed for each session).</td>
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<tr>
<td>▪ Program delivery – understand the major aspects of the program to be implemented (e.g., location/setting, duration, length of each session, number of people served by each session).</td>
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<tr>
<td>▪ Resources and support – description of the content of the program, resources to help train those who will carry out the intervention, on-going technical assistance.</td>
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<tr>
<td>Obtain and secure all <strong>resources</strong>:</td>
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<tr>
<td>▪ Budget for start-up costs – since installation occurs prior to program delivery, funds will be expended that are not reimbursable or covered through other funding mechanisms.</td>
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<tr>
<td>▪ Acquire needed materials (e.g. manuals, guides, tools, etc.).</td>
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<tr>
<td>▪ Plan for extra costs (e.g. equipment, external expertise, additional training, translation, etc.)</td>
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<tr>
<td>Identify and engage <strong>champions</strong>:</td>
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<tr>
<td>▪ Look for people within the organization and the community who are influential, respected, and committed to the program. These people must have the ability to identify problems that arise and to propose solutions to support and ensure the success of the program.</td>
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<tr>
<td>▪ These individuals should be active participants in the implementation process and involved with or be members of the Implementation Team.</td>
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</tbody>
</table>
### Stage 2: Checklist for activities related to the preparation and installation stage (cont’d)

<table>
<thead>
<tr>
<th>STAGE 2: Preparation and Installation</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Assess the organization’s culture and climate:</strong></td>
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<tr>
<td>▪ Conduct an environmental scan to understand potential sources of support, readiness, resistance and other reactions to the new program.</td>
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<tr>
<td>▪ Keep in mind that individuals do not adapt to change in exactly the same way or along the same time line. Recognize that change occurs in stages and leads to a supportive climate for implementation.</td>
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<tr>
<td><strong>Make structural and functional changes to the organization (as needed):</strong></td>
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<tr>
<td>▪ Revise policies, schedules, space, materials, etc.</td>
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<tr>
<td>▪ Re-allocate roles and responsibilities, and new positions needed to initiate the new program.</td>
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<tr>
<td>▪ Create procedures for dealing with fear and resistance.</td>
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<tr>
<td><strong>Engage implementation team</strong>:</td>
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<tr>
<td>▪ Ensure members have a strong understanding of the program to be implemented, knowledge of how to implement with fidelity, and an ability to become more effective and efficient.</td>
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<tr>
<td>▪ Have team members assist with identifying and securing all resources needed to implement the program, and having them help prepare staff for the new program.</td>
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<tr>
<td><strong>Identify and prepare appropriate implementation site(s):</strong></td>
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<td></td>
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<tr>
<td>▪ Identify appropriate replication site(s).</td>
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<tr>
<td>▪ Establish space in the organization for the program.</td>
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</tbody>
</table>

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19 While an organization may establish their Implementation Team during the Exploration Stage; the participants may change as they move into the Preparation and Installation Stage. Again, the role of Implementation Team may be fulfilled by the organization’s staff.
### Stage 2: Checklist for activities related to the preparation and installation stage (cont’d)

<table>
<thead>
<tr>
<th>STAGE 2: Preparation and Installation</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
</tr>
</thead>
</table>
| Identify **partners and opportunities for collaboration:**  
- Develop academic-public partnerships and/or partnerships with the developer(s) to support implementation with fidelity.  
- Work with stakeholders to develop contracts or memorandums of understanding to facilitate referral and engagement. |                      |                               |                               |                    |
| Determine the **referral process and initial participant recruitment:**  
- Establish a referral process and criteria for identifying participants (inclusion versus exclusion).  
- Begin participant recruitment process. |                      |                               |                               |                    |
| Maintain a **communication strategy:**  
- Communicate the need for this program and its benefits (within and outside the organization).  
- Establish communication links to report barriers and facilitators. |                      |                               |                               |                    |
| Select **program delivery staff:**  
- Establish quality, qualifications and level of experience required.  
- Interview current staff to ensure a match with necessary qualifications.  
- Recruit, select, and hire additional staff as needed. |                      |                               |                               |                    |
Stage 2: Checklist for activities related to the preparation and installation stage (cont’d)

<table>
<thead>
<tr>
<th>STAGE 2: Preparation and Installation</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Begin training and supervision:</td>
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<tr>
<td>§ Identify training resources and logistics.</td>
<td></td>
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<tr>
<td>§ Designate person(s) responsible for providing training/technical assistance to staff.(^\text{20})</td>
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<tr>
<td>§ Train a first cohort of program delivery staff (providing them opportunities to practice what is being learned).</td>
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<tr>
<td>§ Train staff to use any new systems or equipment needed to implement the program.</td>
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<tr>
<td>§ Develop coaching and supervision plans for staff (professional development strategies).</td>
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<tr>
<td>Establish a data system to collect information and measure effects:</td>
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<tr>
<td>§ Develop easily accessible data systems to collect and measure the effects of the program and processes.</td>
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<tr>
<td>§ Install any necessary equipment.</td>
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<tr>
<td>§ Identify any tools needed to run the program and its evaluation.</td>
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<tr>
<td>§ Implement quality assurance mechanisms to evaluate the use of data.</td>
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</tbody>
</table>

\(^{20}\) The person(s) providing training/technical assistance should understand the organization’s needs/resources, understand the organization’s goals/objectives, and have a sufficient level of content knowledge specifically related to the program to adequately train staff.
### Stage 3: Checklist for activities related to the initial implementation stage

<table>
<thead>
<tr>
<th>STAGE 3: Initial Implementation</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Establish initial program [21]: implementation</td>
<td>§ Implement key components and activities of the program.</td>
<td>§ Encourage practical application of new skills and competencies, gradually incorporate new routines, adjust roles and responsibilities in connection with the new program.</td>
<td></td>
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</tr>
<tr>
<td>Implement the referral process and recruitment of participants:</td>
<td>§ Ensure that referral processes are in place.</td>
<td>§ Ensure that empirically supported assessment tools are being used for recruitment, re-assessments conducted at appropriate intervals.</td>
<td></td>
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<tr>
<td>Establish a coaching plan and staff supervision process:</td>
<td>§ Ensure a coaching system is put in place with a written coaching plan.</td>
<td>§ Establish a process for staff supervision and feedback (e.g., monitoring adherence and quality of program delivery, frequency of performance evaluations).</td>
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</tr>
<tr>
<td>Manage the organization’s culture and climate [22]:</td>
<td>§ Set realistic goals and expectations regarding implementation progress, time lines, and the collection and use of the right data at the right time.</td>
<td>§ Develop a feedback process for identifying barriers and strategies to mitigate them (e.g., weekly meeting to identify issues, create plans, review results of past problem-solving efforts).</td>
<td>§ Ensure maintenance of technical assistance.</td>
<td></td>
</tr>
</tbody>
</table>

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\[21\] This process is supported by the Implementation Team or the identified group of organization staff, as appropriate.

\[22\] This process is supported by the Implementation Team or the identified group of organization staff, as appropriate.
Stage 3: Checklist for activities related to the initial implementation stage (cont’d)

<table>
<thead>
<tr>
<th>STAGE 3: Initial Implementation</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maintain a data system</strong> to collect information and measure effects:</td>
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<tr>
<td>- Ensure data systems are functioning for measuring and reporting outcomes and fidelity (monitoring fidelity implementation of the program(^{23})).</td>
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<tr>
<td>- Ensure quality assurance mechanisms are functioning to evaluate use of data (assessing effectiveness and quality of program).</td>
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<tr>
<td><strong>Review initial implementation challenges and facilitators:</strong></td>
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</tr>
<tr>
<td>- Examine the following areas – recruitment and selection, staffing and training, key components and activities of the program, coaching and supervision processes, data system, fidelity measures and reporting processes, outcome data measures and reporting process, and communication strategies.</td>
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<tr>
<td><strong>Maintain a communication strategy:</strong></td>
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<tr>
<td>- Inform stakeholders of “launch dates” and activities (continue to build “buy-in”).</td>
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<td>- Ensure a feedback process is in place and functional.</td>
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</tbody>
</table>

\(^{23}\) Examples of methods that could be used: (1) checklists completed by program delivery staff; (2) checklists completed by program participants; (3) direct observation of program sessions; and/or (4) videotaped observation of program sessions.
Stage 4: Checklist for activities related to the full implementation stage

<table>
<thead>
<tr>
<th>STAGE 4: Full Implementation</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
</tr>
</thead>
</table>

Establish **full program implementation**\(^{24}\):
- Maintain integrated, fully functioning core program components.
- Incorporate program practices, policies and procedures; ensure new learning becomes fully integrated into organization.

**Continue to monitor and improve systems already in place:**

1. Referral and recruitment of participants

2. Staffing, training and booster training, technical assistance

3. Program delivery – key components and activities

4. Organizational culture and climate

5. Coaching plan and staff supervision

6. Fidelity measures and reporting processes

7. Outcome data measures and reporting process

8. Quality assurance mechanisms

9. Partnerships, collaboration and resources

10. Communication strategies

Employ **improvement processes:**
- Address issues through the use of data to identify challenges and develop “recovery plans”, monitor them and assess results until improvement occurs.

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\(^{24}\) This process is supported by the Implementation Team or the identified group of organization staff, as appropriate.
### Stage 4: Checklist for activities related to the full implementation stage (cont’d)

<table>
<thead>
<tr>
<th>STAGE 4: Full Implementation</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Address organizational response to drift:</strong></td>
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<tr>
<td>- Adopt mechanisms / procedures to indicate when the program moves away from the original program.</td>
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<tr>
<td>- Ensure that corrective measures will be implemented, as appropriate.</td>
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<tr>
<td><strong>Address program modification/adaptation:</strong></td>
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<tr>
<td>- Adjust the program to fit the specific needs of the organization or its recipients (without affecting key program components).</td>
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<tr>
<td>- Carry out adaptations carefully and systematically with the help of the developer(s) and with attention to both process and outcome evaluations.</td>
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<tr>
<td>- Consider modifications/adaptations to help produce better outcomes only after the program has been implemented with fidelity.</td>
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<tr>
<td>- Describe and monitor adaptations (performance measure and evaluations).</td>
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</table>
### Checklist for activities related to sustainability

<table>
<thead>
<tr>
<th>SUSTAINABILITY</th>
<th>Completed / In Place</th>
<th>Initiated / Partially in Place</th>
<th>Not Addressed / Not in Place</th>
<th>Comments / Details</th>
</tr>
</thead>
</table>
| Establish **ongoing funding:**  
  - Having funding for program staff.  
  - Ensure that program infrastructure is built into organization’s budget. |                      |                               |                  |                    |
| Establish **new partnerships and share successes:**  
  - Develop new community partnerships while maintaining existing relationships.  
  - Share positive results with staff, community and others to maintain buy-in and support.  
  - Celebrate success with program recipients, staff, and community. |                      |                               |                  |                    |
| Maintain **implementation fidelity:**  
  - Ensure ongoing fidelity monitoring, coaching and supervision of staff.  
  - Ensure fidelity to core program components.  
  - Secure resources for ongoing training of existing staff and training of new staff.  
  - Maintain data systems and quality assurance mechanisms. |                      |                               |                  |                    |
| Support **continued improvement of program:**  
  - Work with program developer(s) (e.g. refining method(s) of delivery, certain activities, etc.), as needed.  
  - Develop quality improvement plans, as needed.  
  - Encourage involvement of high-level administrators in a continuous feedback loop with the Implementation Team, providers, and recipients. |                      |                               |                  |                    |
Case Studies

1. Blueprints for Violence Prevention Initiative: Main challenges in the implementation process

The replication sites for programs under the Blueprints for Violence Prevention Initiative tended to face similar challenges at roughly the same moments in the implementation process:25

Initial challenges for program implementation
The initial challenges are generally the most complex and take time to overcome. These challenges generally occur within the first four to eight months and include, but are not limited to, the following:

- Completion of a multitude of administrative tasks;
- Fundraising;
- Hiring program staff and preparing training;
- Management of professional insecurities;
- Development of inter-organizational links and partnership/collaboration agreements.

Subsequent challenges for program implementation
After one year of implementation, challenges associated with initial stages of implementation are generally resolved; however, as implementation progresses, other types of challenges arise:

- Persistent challenges: These are challenges that have been present since the beginning but for which levels of difficulty and stress have diminished (e.g., more professional confidence, forms regularly completed). These stresses, even though they are still present, very rarely threaten continuity of the project.
- Episodic challenges: These challenges include staff turnover, personality conflicts and administrative changes within the organization. These challenges require time and energy but usually resolve themselves once a solution is put in place (e.g., hiring new practitioners, better training, better understanding of the program, better referral system).
- Threatening challenges: These challenges arise when dramatic changes take place (e.g., budget cuts, loss of champions, damaged relationships with partners) or when prominent persons are opposed to the philosophy behind the program. These challenges could jeopardize the integrity and continuity of the program.

These results lead us to believe that certain challenges are associated with a specific stage of implementation. Table 4 provides an overview of the four stages of the implementation process and summarizes what appear to be the most common challenges at each of the implementation stages. This information is based on research conducted by Fixsen and his colleagues (2005) and the results of the Blueprints for Violence Prevention Initiative (Mihalic et al., 2003).

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Table 4: Main challenges associated with each implementation stage

<table>
<thead>
<tr>
<th>Stage 1 – Exploration and adoption</th>
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<tbody>
<tr>
<td>• Limited access to knowledge and research results</td>
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<table>
<thead>
<tr>
<th>Stage 2 – Preparation and installation</th>
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<tbody>
<tr>
<td>• Imbalance in new services</td>
</tr>
<tr>
<td>• Lack of understanding</td>
</tr>
<tr>
<td>• Tension, unease among practitioners</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage 3 – Initial implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Resistance to changes</td>
</tr>
<tr>
<td>• Organizational inertia</td>
</tr>
<tr>
<td>• Major adaptations of the core elements of the program</td>
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<table>
<thead>
<tr>
<th>Stage 4 – Full implementation</th>
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</thead>
<tbody>
<tr>
<td>• Lack of training</td>
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<tr>
<td>• Lack of materials</td>
</tr>
<tr>
<td>• Non-adherence to program fidelity (e.g., dosage, sequence of activities)</td>
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<tr>
<td>• High staff turnover</td>
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</table>

<table>
<thead>
<tr>
<th>Sustainability</th>
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<tbody>
<tr>
<td>• There are many obstacles and challenges pertaining to program sustainability. The best approach to encourage sustainability is to continue to monitor results and remain alert to changes that could affect the program; these could be, for example, changes to funding sources, organizational priorities, or the organization's leadership or management.</td>
</tr>
</tbody>
</table>
2. Obstacles of the implementation of a secondary alcohol prevention program

This study explains obstacles related to the implementation of the Alcochoix+ program aimed at heavy drinkers. The objective of this evaluation was to answer the question: “What are the obstacles that were encountered during the implementation of this program?” The main obstacles encountered during implementation are as follows:

1. **Deficiencies in advertising and promotion**: Small amount, non-recurring and lack of coordination. Simply distributing pamphlets was not enough and lack of coordination with other programs promoting healthy lifestyles was also criticized.

2. **Lack of human and financial resources**: Little financial investment in the program (compared to the costs of excessive alcohol consumption).

3. **High staff turnover at all levels**: Among practitioners and management as well as respondents at the regional level. This situation resulted in a service void, led to increased need for training, and was also responsible for confusion in identifying individuals involved in the program as well as roles and responsibilities.

Then comes the lack of leadership in program management, lack of communication (poor flow of information), lack of time that practitioners could dedicate for the program, lack of knowledge about the program’s existence (within the organization as well as outside in the health network) and lack of knowledge about the program’s underlying approach. Finally, the lack of access to training outside major urban centres, the low volume of participants and lack of monitoring were other challenges identified.

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26 Simoneau et al. (2012). Obstacles à l’implantation d’un programme de boire contrôlé dans le contexte organisationnel des services en dépendance.
3. Implementation of a school evidence-based substance abuse prevention program: Some examples of challenges

An initiative,27 funded over five years, dealt with the implementation in three school districts of an evidence-based substance abuse prevention program called the “Michigan Model for Comprehensive Health Education”. Traditional impact evaluation measures show that this program did not have a significant impact, and its failure to obtain results is discussed in relation to major challenges related to its implementation.

Inappropriate program selection: The choice of program to be implemented is an important step. To select the most appropriate program, it is crucial to understand the needs of the target population and available resources/services. A program that was effective in one school district will not necessarily be effective in others.

To increase good fit into program selection:

- A close match is needed between the program’s theory of change and the particular needs of the target population.
- Practical questions have to be taken into consideration: What is the length of the program/cost? What are the required qualifications for staff? What is the training/cost? Is the material available/cost? If the financial resources are not available or if it is too hard to make time for staff training, it is not likely that the program will be implemented successfully.

Limited engagement of partners and low level of schools’ readiness: The success of the program’s implementation in schools depends not only on teachers but also on support given from school board administrators, principals, social workers, parents and the community. The lack of partners’ engagement was identified as a significant obstacle. Also, the level of effort made by schools in preparing the implementation was not sufficient and various tasks were underestimated, particularly those pertaining to preparing and planning resources and strategies that aimed to integrate the program in the school calendar without making teachers feel overloaded.

To increase the probability of success during implementation:

- Staff support and acceptance of the program is central so that the individuals involved are willing to put forth time and energy;
- Strong leadership from management to ensure implementation is monitored and assistance is provided (particularly when obstacles arise);
- Positive and flexible work environment;
- Creation of an internal team of “champions” that will support the introduction, implementation and improvement of the program.

---

27 Sobeck et al. (2006). Lessons Learned from Implementing School-Based Substance Abuse Prevention Curriculums.
Low implementation fidelity: Results of program evaluation showed that implementation fidelity was not conducive to program success. For example, lessons and activities were omitted while others were combined to “save time.” The program curriculum as designed and validated by the Michigan developers was not respected.

To increase the probability of successful implementation fidelity:

- The program must be followed and delivered as designed (adherence to curriculum);
- Training and adequate support must be available;
- If adaptations need to be made, they must be discussed with program developers to ensure that these changes will not affect core components of the program;
- Staff members must be comfortable delivering the program activities and lessons.
4. School-based programs: What facilitates their implementation?

Through consultation with Anglophone and Francophone experts in Quebec on various school-based programs,28 it was possible to identify favourable implementation conditions as well as their main challenges.

**Implementation facilitators of school-based programs:**
- Importance of having a coordination structure;
- Crucial role of management;
- Funding (particularly funding from the school network) to facilitate the purchase of materials and training;
- Support from the school board and partners concerning planning and program improvements;
- Quality of training;
- Quality of support provided by program developers; this also represents a favourable strategy to maintain community engagement and develop intervention skills related to the program.

**Implementation obstacles of school-based programs:**
- Heavy workload (combined teaching and intervention requirements), and lack of time;
- Instability and turnover of school staff and partners;
- Demands of working in partnership;
- Difficulty engaging parents in the program.

---

5. Blueprints for Violence Prevention Initiative: Key elements of a high-quality implementation

The following elements are taken from the process evaluations of the Blueprints for Violence Prevention Initiative\(^{29,30}\) and are central to an effective and successful program implementation:

- **Increase site readiness:** Develop an environment that is favourable to the new program, initiate an implementation plan, and ensure that there are adequate and appropriate resources (financial, material, human) for the program.
- **Build organizational capacity:** Develop active and engaged administrative support, strengthen internal stability, establish the inter-organizational links necessary for the program, and develop formal engagement agreements.
- **Focus on supporting staff:** Include staff in planning and decision making processes, hire staff with required skills and qualifications, strengthen skills through training offered as part of the new program, and provide time needed to deliver the integrality of the program.
- Designate **champion(s).**
- Ensure that **training and technical assistance** are available.
- Understand the importance of implementing the program with **fidelity.**

\(^{29}\) Mihalic et al. (2004a). *Successful Program Implementation: Lessons from Blueprints.*

\(^{30}\) The process evaluations looked at nine programs at 147 replication sites (eight violence prevention programs and one substance abuse prevention program). The eight programs supported as part of the violence prevention initiative were as follows: Big Brothers Big Sisters of America (BBBSA), Bullying Prevention Program, Functional Family Therapy (FFT), Multidimensional Treatment Foster Care (MTFC), Multisystemic Therapy (MST), Nurse-Family Partnership, Promoting Alternative THinking Strategies (PATHS), and Quantum Opportunities Program. The substance abuse prevention program was Life Skills Training (LST). It should be noted that the program developers were responsible for training and technical support for the implementation, while Blueprint’s employees were responsible for supporting the quality of the implementation at all of the replication sites by conducting a detailed process evaluation (Mihalic et al., 2004).
6. Program adaptations based on implementation contexts: Some findings

The following are some of the key findings taken from a study on the adaptation of evidence-based programs based on the implementation contexts.31

**Frequency of adaptations:**
- Programs implemented in schools are the most frequently adapted (close to 50% of respondents reported having adapted the program), while family therapy programs are the least often adapted (25% of respondents).

**Nature of adaptations:**
- The type of adaptation varies based on the nature of the program and context. For example:
  - Community and mentoring programs tend to adapt procedures most frequently (60%);
  - School programs: dosage and content in similar proportions (close to 55%);
  - Family therapy programs: target group (close to 30%);
  - Prevention programs for families: cultural adaptations (30%).

**Reasons for adaptations:**
- The majority of adaptations are reactive (61%), meaning that these changes were made to respond to various obstacles to implementation (logistical problems and/or lack of resources are primary reasons for adaptations), compared to 33% of adaptations that are made proactively.

**Results of adaptations:**
- Over half of the adaptations (53%) had a negative impact on program effectiveness, 33% resulted in positive adaptations, and 14% had a neutral effect.

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31 Moore et al. (2013). *Examining Adaptations of Evidence-Based Programs in Natural Contexts.*
7. Facilitators and obstacles of the implementation of an evidence-based parenting program with fidelity

The obstacles and facilitators identified in this study come from the results of an evaluation report on the replication of the “Incredible Years” program. The following elements are associated with challenges or facilitators to implementing this program with fidelity.

Implementation facilitators:
- Reinforcing messages about the importance of maintaining key components (through group meetings organized by the program supervisor);
- Receptiveness of and support from the program supervisor;
- Training and format/structure of guides/manuals (manualized program accompanied by videos);
- Data tracking and problem solving, increased oversight, and better monitoring of data also increased fidelity in program implementation.

Implementation obstacles:
- Finding a balance between parent preferences and the structured components of the program (collaborative approach with parents versus clinical approach);
- Time constraints;
- Language (linguistic expression used, level of program language compared to that of participants);
- Resistance to certain aspects and activities of the program (by participants as well as staff);
- Trouble following certain sections of the manuals/guides (although, in general, the structure of the program is a facilitating element);
- Lack of control (in relation to external conditions, e.g., audiovisual material not working properly, shared location, high volume of people at the centre).

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32 Stern et al. (2007). Implementing an Evidence-Based Parenting Program with Adherence in the Real World of Community Practice.
8. Program implementation in Aboriginal communities

The implementation of crime prevention programs in Aboriginal communities raises an important question with regard to the cultural adaptation of programs. To provide guidance in order to better support cultural implementation, the Child Development Institute (Toronto, Canada) recently released an implementation guide33 for the SNAP program.34 This guide was produced in collaboration with Aboriginal communities, SNAP facilitators, advisory committees and other partners.

The main objective of this guide is to ensure concordance between the SNAP program and Aboriginal values. During the SNAP implementation in these communities, recurring challenges were noted such as trouble recruiting parents and maintaining their engagement, limited human resources, limited community buy-in, and problems finding SNAP facilitators. To ensure that this program is culturally appropriate, a cultural framework was developed based on five common characteristics of the Aboriginal vision35:

- Holistic perspective;
- Interdependence of all living things;
- Relationship with the land and the community;
- Dynamic nature of the world;
- Strength in “power with”.

During the implementation stages, this guide proposes elements so that the key program components and implementation are consistent with Aboriginal culture (e.g., in terms of partners, policies, staff, training, participant referrals, and community and participant engagement).

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33 Child Development Institute (2013). *A Companion Manual for SNAP in Aboriginal Communities. Starting your Community’s Journey with SNAP*. Toronto, ON: Child Development Institute. To obtain a copy, contact the SNAP Implementation Team, Child Development Institute, snap@childdevelop.ca, 416-603-1827 ext. 3146.

34 The SNAP program is an evidence-based, gender-specific program aimed at boys and girls 6–11 years old who present externalized problematic and aggressive behaviours validated by clinical behavioural assessment measures.

35 Adapted from “Alberta Education (2005). *Our Words, Our Ways: Teaching First Nations, Métis and Inuit Learners*.”
Appendix

Appendix 1: Key characteristics associated with the concept of capacity
Flaspohler and his colleagues (2008) discuss the concept of capacity to implement and support prevention programs. These authors divide the concept of capacity into two spheres (capacities for the new program and general capacities) and three levels (individual, organizational and community). For example, an organization that has a highly skilled and competent staff is likely to have better capacity than an organization where the staff has less aptitude. It can also be surmised that organizations with high levels of capacity will attract and retain more qualified staff. However, when assessing the level of capacity for implementing a program, these levels have to be observed as separate levels rather than collective attributes.

Table 5: Individual, organizational and community characteristics associated with the concept of capacity

<table>
<thead>
<tr>
<th>Capacities related to the new program</th>
<th>General capacities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Individual level</strong></td>
<td><strong>General capacities</strong></td>
</tr>
<tr>
<td>§ Knowledge/understanding of the program and the problem</td>
<td>§ Staff capacity</td>
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<tr>
<td>§ Perceived capacity of staff to implement a new program</td>
<td>§ Staff history</td>
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<tr>
<td>§ Commitment/attitudes toward the program</td>
<td>§ Staff openness</td>
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<tr>
<td>§ Staff capacity</td>
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<tr>
<td>§ Staff history</td>
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<td>§ Staff openness</td>
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<tr>
<td><strong>Organizational level</strong></td>
<td></td>
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<tr>
<td>§ Program adjustment/fit with the organization</td>
<td>§ Effective leadership</td>
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<tr>
<td>§ Organizational support</td>
<td>§ Clear vision/mission</td>
</tr>
<tr>
<td>§ Organizational commitment</td>
<td>§ Structure and climate</td>
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<tr>
<td>§ Technical assistance and training</td>
<td>§ Effective management style</td>
</tr>
<tr>
<td>§ Capacity to evaluate program implementation and use results</td>
<td>§ Availability of resources</td>
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<td></td>
<td>§ Partnerships/linkages with other external systems</td>
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<tr>
<td><strong>Community level</strong></td>
<td></td>
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<tr>
<td></td>
<td>§ Leadership</td>
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<tr>
<td></td>
<td>§ Participation and opportunities for participation</td>
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<td></td>
<td>§ Resources</td>
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<td></td>
<td>§ Links between individuals and organizations</td>
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<td></td>
<td>§ Connections with outside institutions and communities</td>
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<td></td>
<td>§ Standards and values</td>
</tr>
<tr>
<td></td>
<td>§ Engagement</td>
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</tbody>
</table>

Adapted from Flaspohler et al., 2008
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