

1 Journal of Developmental Entrepreneurship
 Vol. 11, No. 3 (2006) 1–25
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5 **EMPOWERING ENTREPRENEURSHIP THROUGH FORESIGHT AND
 INNOVATION: DEVELOPING A THEORETICAL FRAMEWORK FOR
 EMPOWERMENT IN ENTERPRISE PROGRAMS**

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17 Received May 2006
 Revised July 2006

19 This study explores how education and development in the skills and knowledge of foresight, innovation
 and enterprise (FI and E) relate to the empowerment of young individuals with respect to creating a new
 21 venture. In 2003, three groups of young persons aged between 13 and 18 years participated in a program
 designed for empowerment. An evaluation was conducted nine months later that provided useful insight
 23 into the impact of the education design, content and delivery. This research provides deeper insight into
 the way FI and E education can be used to create empowerment through the derivation of a framework
 that addresses entry, process and agency factors.

25 *Keywords:* Empowerment; foresight; innovation; enterprise; entrepreneurship; youth program.

1. Introduction

27 The Questacon “Smart Moves Invention Convention” (QSIC) has become an annual event
 organized by Smart Moves, the outreach team of Questacon, The National Science and
 29 Technology Centre, in Canberra, Australia. It is a five-day program designed to provide
 rural Australian youth aged from 13 to 18 years the opportunity to share ideas about science
 31 and technology and to gain skills in new enterprise development. The initial program, called
 the “Invention Convention,” was conceived through a partnership between the Australian
 33 Graduate School of Entrepreneurship (AGSE), the Australian Foresight Institute (AFI), and
 Questacon Smart Moves (QSM). In light of the results from a qualitative post-evaluation, the
 35 contributing partners from AGSE and AFI, who were the primary designers and facilitators,
 have combined in this paper to reflect on the program’s design and efficacy in achieving its
 37 “empowerment” aim.

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1 The QSIC incorporated an experiential learning process in the conception and design of
an enterprise. Honig (2001) found that entrepreneurs tend to use flexible and adaptive learn-
3 ing strategies, while Cope and Watts (2000) and Politis (2005) emphasized the importance
of “learning by doing” for entrepreneurs. The process and value of experiential learning
5 has also been well, established by Kolb (1984). In 2003, the inaugural QSIC was designed
and delivered to fifteen selected participants. During the five-day program, they were chal-
7 lenged to develop scenarios of probable and preferred futures, develop innovations within
these contexts and translate these innovations into enterprise concepts. These concepts were
9 then presented to invited mentors, known for their innovation and experience in establishing
new ventures. The group learning process was complemented by personal journaling during
11 allotted free time. Expressing our own position, that entrepreneurship should aim to create
new value for society along multiple dimensions, the program emphasized reflecting on how
13 “value” is situated within diverse value systems, and on how innovation processes help to
create value and/or address problems within complex social contexts. Ramos and O’Connor
15 (2003) found that the inclusion of foresight processes into a program had the effect of cre-
ating ventures with broader contextual social views while being aimed at achieving added
17 economic value and/or sustainability.

This study explores the role of foresight, innovation and enterprise (FI and E) education
19 and its relationship to empowerment using the case of the pilot QSIC in September/October
2003. The study is divided into three sections. First, we review the literature to draw together
21 perspectives on empowerment through the fields of foresight, innovation, entrepreneurship
and enterprise programs. Second, informed by a post-evaluation of the QSIC program, we
23 explore the tacit and explicit assumptions about empowerment by using a first person action
research approach that reveals unanticipated consequences, barriers and misconceptions.
25 The third section highlights findings and proposes a more considered framework for devel-
oping empowerment through FI and E, before concluding and suggesting future research
27 directions.

2. Perspectives on Empowerment

29 2.1. Empowerment and foresight

Gidley (2004) has conducted extensive research on the link between futures research/studies
31 and youth empowerment and shows strong connections between foresight and youth empow-
erment. Most crucially, she emphasizes how futures studies and visioning processes for
33 youth need to be linked with opportunities for action. Gidley (2001) has also cited evidence
that suggests facilitating positive images of the future for youth is effective in dealing with
35 depression and even in lowering the incidence of suicide among youth. Further, she shows
that previous research has linked hopelessness with “the inability to *control* outcomes,
37 whether good or bad” (Gidley, 2001; emphasis added). In other words, helplessness or a
lack of agency is associated with issues of hopelessness (Abramson, Metalsky and Alloy,
39 1989). Agency then may be considered a primary outcome of empowerment.

Hicks (2002) showed that learning about global futures triggered a distinct psycholog-
41 ical process in a student and the five stages of the psychological process were: *cognitive*,

1 *affective, existential, empowered* and *action*. In the first stage, he claimed that students
intellectualized the dimensions of global futures, which included learning about concepts
3 and ideas, such as globalization, global issues and challenges. As the student progressed,
frustration ensued with the complexity of the issues, and sadness, worry and anxiety fol-
5 lowed over the state of the world and their dystopic implications, which were constituted
in the affective stage. This often led to re-assessment of the students' own place in the
7 world and challenged their assumptions about their own lives. This existential stage was a
potential turning point where students began to integrate their concerns about global futures
9 into their lives. The empowerment stage was where students found sources of inspiration,
innovation and renewal that gave them a sense of hope, motivation and direction. In the
11 last stage, action, students were *socially empowered* to find new relationships, networks,
practices, behaviors and projects that addressed their concerns about global futures. The
13 empowerment and action stages, where the *condition* for positive action is created, make
implicit links to innovation and entrepreneurship. However, this is often where the work in
15 foresight ends and perhaps this suggests a form of *social empowerment* or agency may be
one prerequisite to entrepreneurship.

17 If students can be socially empowered through developing foresight capacity, it is nec-
essary to consider the implications for the broader social setting. Laveman (2000) identified
19 a macrosystemic approach to empowering adolescents and considered empowerment as a
nested system, whereby the individual is but one system complete in and of itself while being
21 contained within larger systems and structures. For example, adolescents are nested within
family, school and community systems, each impacting upon the individual. Laveman (2000)
23 identified eight so-called life domains: residential, family, social, educational, vocational,
medical, psychological and legal, all of which affect the empowerment of adolescents. This
25 concept has substantial implications when one considers the breadth and depth of influence
that may be required in the task of achieving empowerment for individuals.

27 It would seem that little substantive work from the foresight perspective has been done
to examine the link between FI and E, in particular with respect to the empowerment of
29 youth. Despite this, it can be said that effecting agency is not only considered an integral
aspect of empowerment from a futures research/studies perspective, but appears to blaze a
31 trail toward activities encompassing innovation and entrepreneurship.

2.2. *Empowerment and innovation*

33 The coincidence of the concepts of empowerment and innovation are largely found in orga-
nizational management theory, where empowerment is examined as a process through the
35 context of innovation within an organizational environment (Dooley and Sullivan, 2001;
Sundbo, 1999). Sustaining corporate entrepreneurship also relies on internal organizational
37 factors such as work discretion and autonomy (Kuratko, Hornsby and Goldsby, 2004).
The organization is responsible for inducing innovation through human resource manage-
39 ment practices, development of competencies in employees and organizational development.
Empowerment is utilized as a decentralizing agent for innovation within the context of the
41 organization (Kanter, 1984; Roffe, 1999). Morgan (1997) also highlights the self-reinforcing

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1 nature of empowerment whereby the experience of success becomes a transforming and
energizing force that encourages further progress and success.

3 Empowerment within these contexts might be termed *organizational empowerment*.
However, Lincoln, Travers, Ackers and Wilkinson (2002) claim that the term empowerment
5 in the organizational context is surrounded by a tangled web of meanings and consequently,
is laden with misunderstanding and tension. Seibert, Silver and Randolph (2004) address
7 some of this confusion. They distinguish differences between an empowerment climate in the
organizational setting and the psychological empowerment of individuals. Empowerment,
9 when viewed through the innovation lens, seems to converge on distinctions between the
level of individuals and their social setting and, more particularly, the organizational context.

11 **2.3. Empowerment and entrepreneurship**

Empowerment in the field of entrepreneurship is most commonly featured in literature on
13 minority or disadvantaged groups. For instance, Kantor (2002) highlights that empowerment
should be included as a measure when assessing the success of women in South Asian micro-
15 enterprise. Kantor (2002) argues that mere economic indicators are insufficient if the aim
of an intervention is to both improve the economic position and the control of the proceeds
17 of micro-enterprise. This suggests that the goal of enterprise programs, in some instances
at least, have greater ambitions than just stimulating economic activity, and holds concerns
19 with equality, rights, power and domination. Kantor (2002) further suggests that “[I]t is
important to stress that empowerment outcomes are not only relevant within developing
21 nations where gender and other forms of inequalities are often patent. Economic inequality
and constraints on opportunities for marginalized groups also are common in developed
23 nations.” For instance, Osborne, Falcone and Nagendra (2000) offer a case study of an
entrepreneurship intervention for the unemployed in the USA, while Martin and Wright
25 (2005) have explored the role of information and communication technologies to empower
female entrepreneurs in the UK. This form of empowerment focuses on the individuals’
27 abilities to control their own destiny and, for our purposes, may be referred to as *self-enabled
empowerment*.

29 While Kantor’s (2002) view is one of outcomes, Krueger and Brazeal (1994) called
for educators, consultants and policy advisers to help empower potential entrepreneurs to
31 seize opportunities presented in their environment. They presented the case for building
empowerment as an enabling *process*. Indeed, Kantor (2002) summarized this position
33 through the eyes of the two authors Kabeer and Kishor (cited in Kantor, 2002). The former
focused on the end-product of empowerment that is found in evidence that suggests increased
35 control, choice and decision-making, while the latter drew our attention to the enabling
processes, which included education and income or assets that increased control and choice.
37 An example of empowering processes is found in Le Breton-Miller, Miller and Steier (2004),
who reviewed the succession literature for family-owned businesses. They reported that the
39 transfer of stock to a new incumbent “should start immediately after succession in order to
empower the new leader” (emphasis added). Here, the process of providing a sufficient equity
41 holding to the successor is considered at least partly responsible for leading to empowerment.

1 Another example is offered through the provision of micro-credit (Johnson, 1998), where
2 people are empowered by gaining access to credit otherwise unavailable to them at market
3 rates. Empowerment then can be viewed from at least two perspectives: one of process and
4 the other of outcome.

5 **2.4. Empowerment in enterprise programs**

6 Enterprise and entrepreneurship are two closely related concepts (Cromie, 2000). However,
7 Atherton (2004) portrays a useful distinction when he claims that “enterprise incorporates
8 entrepreneurship as a state (being an entrepreneur) and a behavior (being entrepreneurial) as
9 well as the wider enabling and disabling conditions and structures.” This implies that enter-
10 prise programs have broad responsibilities that include not only encouraging individuals to
11 be entrepreneurs, in the sense of owning a business, but also developing a set of dynamic
12 “entrepreneurial” behaviors, such as those described by Athayde (2003) — leadership, cre-
13 ativity, intuitiveness, personal control and high achievement. In addition, it suggests that an
14 enterprise program should be congruent with the wider set of environmental conditions and
15 structures.

16 Entrepreneurship education has been reported to have had a positive influence on
17 entrepreneurial tendency (Henderson and Robertson, 1999; Lüthje and Franke, 2002;
18 Rasheed, 2002; Sexton and Bowman, 1983). However, the tendency or inclination toward
19 entrepreneurship appears to have coupled or multiple links between education and individ-
20 ual personality characteristics (Lüthje and Franke, 2002), cognitive infrastructure (Krueger,
21 2000; Mitchell *et al.*, 2002ab) as well as social context and cultural values (Mitchell *et al.*,
22 2002ab). Further, Wang, Wong and Lu (1999) found support for a complex three stage model
23 that took into account key demographic, educational, motivational attitude and perceived
24 interest and feasibility factors.

25 Hansemark (1998) indicated positive increases in “need for achievement” and “internal
26 locus of control” from a study of a 36-week entrepreneurship program. Later, Peterman
27 (2000) conducted an Australian study to find a positive increase in secondary school stu-
28 dents’ attitudes toward desirability and feasibility for starting a business. However, Peterman
29 and Kennedy (2003) drew attention to the wide variety of entrepreneurship programs on
30 offer in the market place and suggested that, while positive results may be found from one
31 study, they could not suggest that all programs would have the same result due to variations
32 in content, pedagogy and learning styles. This observation is consistent with Falkäng and
33 Alberti (2000), who claimed that there was little uniformity in content and approach among
34 courses, and that entrepreneurship education research needed further development, a view
35 echoed by Greene, Katz and Johannisson (2004).

36 During the extant literature review, little has been discovered relating specifically to
37 youth empowerment through the context of foresight, innovation and enterprise programs.
38 The National Foundation for Teaching Entrepreneurship (NFTE) does however conduct
39 useful evaluation of their programs through an association with the Harvard University
40 Graduate School of Education. Findings from a 2002–2003 study showed an increase in
41 the internal locus of control experienced by the participants in the NFTE program when

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1 compared to a control group sample (Nakkula *et al.*, 2004). However, the Executive Sum-
2 mary report only speculates on the reason for this difference and reveals nothing about
3 the process and content that may deliver this positive change. Overall, we have found an
4 absence of research in this area and moreover, we have provided evidence of a potential
5 synergy between foresight, innovation and entrepreneurship that could lead to dynamic
6 outcomes.

7 The results of an evaluation of the 2003 QSIC conducted independently by Questacon
8 Smart Moves presented an opportunity for an examination of the issues incorporated in
9 bringing empowerment to rural youth in a developed country. More specifically, it provided
10 the authors of this paper the occasion to reflect on their educational practice and bring
11 to account the issues that were incorporated in both the successes and deficiencies of the
12 program with respect to empowerment. At least in part, this case study addresses the call
13 by Harrison and Leitch (2005) for further research on the relationship between content and
14 process in entrepreneurship education.

15 3. Methodology

16 Our research design incorporated theory-building as an inductive process (Mintzberg, 1979;
17 Eisenhardt, 1989), working from the data to produce a theoretical empowerment framework.
18 However, Strauss and Corbin (1998) highlight that, while a “grounded” theory incorporates
19 an inductive step, it is then complemented by interpretation informed by a researcher’s life
20 experiences and accumulated knowledge base. They argue that this complementary step is a
21 deductive process and therefore, the process of building theory interplays between the data
22 and the researcher using inductive and deductive practices.

23 In accordance with this view, our research endeavor is located in the interpretive tradi-
24 tion. We embarked upon primarily an inductive process of extensive reflexive engagement
25 between the data and ourselves. It addresses a social structural theory and is not an attempt
26 at empirical generalization. Stake (2003) argues that case study-based research is a con-
27 textualizing process, which situates a “bounded” object of study within historical, cultural,
28 physical, social, economic, political, ethical and aesthetic dimensions. Yin (1994) makes
29 the point that particular cases can be used to generalize to theory but should not be mistak-
30 enly used to generalize to other cases. Yin further notes that a single case can represent a
31 significant contribution to knowledge and theory-building when it tests what is considered
32 to be well-formulated theory.

33 The method involved engaging with the data in two stages of analysis utilizing two dif-
34 ferent techniques. First, drawing on the collected third party evaluation comments, content
35 analysis was used to document, in objective and quantitative terms, whether the unsystem-
36 atic observation of empowerment was clearly evidential (Neuman, 1994). The participant
37 comments from the post-evaluation were systematically themed and coded against the con-
38 cepts of empowerment that were articulated in the aims of the QSIC. This first level of
39 analysis revealed gaps in our perception of empowerment and unexplained outcomes with
40 respect to our stated design aims.

1 The second stage of analysis applied a first person action research (Torbert, 2001; Reason
 3 and Bradbury, 2002) technique to address these deficits and deficiencies and to better under-
 5 stand the effects of the QSIC's design and to learn from our experiences of developing the
 QSIC process and content. Senge and Scharmer (2001) state that reflecting on past experi-
 ences is one mode of learning, and that "all learning cycles are variations of this type of
 [reflective] learning."

7 **4. The Questacon Invention Convention Empowerment Design**

9 The Questacon Smart Moves charter for the youth program was meant to assist those aged
 11 from 13 to 18 years from rural communities by providing them an opportunity to combine
 13 and share experiences and ideas about science and technology and to gain practical skills
 15 in developing new business enterprise initiatives. Participant selection for the program was
 based upon an application that outlined an "inventive" idea and demonstration of a strong
 desire to pursue the development of the invention. The primary program purposes were to
 decrease the impediment of isolation perceived by rural communities and provide access to
 skills and services as well as connectivity and empowerment.

17 The AGSE and AFI collaborative development proposal offered to combine the expertise
 19 in entrepreneurship and innovation education developed by the AGSE and AFI with Questacon's
 21 access and experience with the rural youth communities in a five day workshop-style
 23 "Convention" held during the September school term break of 2003. The preliminary discus-
 25 sion between the parties (AGSE, AFI and QSM) resolved that the QSIC held an overriding
 aim to provide a select group of young Australian entrepreneurs with a support network of
 peers and mentors and new ways of thinking that would enable them to develop progressive
 ideas commercially. The educational design was to place an emphasis on empowerment
 and it was agreed that empowerment in the educational sense would mean the participants'
 increased ability to:

- 27 • *Differentiate ideas from opportunities*: Aid participants in the ability to move across many
 ideas more fluidly, in a grander context of opportunity thinking;
- 29 • *Understand that which creates and sustains value*: Increase contextual and creative think-
 ing through a deeper understanding of what is value for people and for society in general;
- 31 • *Operate within a team*: Give the participants experience in teamwork, which facilitates
 interpersonal development and social empowerment;
- 33 • *Package concepts and present opportunities*: Increase the ability of participants to effec-
 tively communicate their ideas through presentation and communication skills;
- 35 • *Integrate the fundamentals of marketing, finance, and legal requirements for a start up
 business*: Develop their capacity to run a start up business through practical business skills
 and knowledge.

37 Both *content* and *process* were used as organizing concepts. We felt strongly that it
 39 would have been inauthentic to present FI and E as a "pedestrian" activity and we attempted
 to simulate the profound challenges faced by innovators and entrepreneurs in bringing new
 value into the world. The educational design intended to enhance aspects of skills and

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1 knowledge through the provision of content on the tools and useful analytical frameworks,
 3 while the processes were intended to inspire positive attitudes toward foresight, innovation
 and enterprise. The breadth and depth of the content amounted to a crash course on FI and
 5 E that would profoundly expand the cognitive horizons of participants. The process of the
 QSIC was an experiential action learning “baptism by fire” approach that resembled an FI
 and E boot camp intended to challenge them to rise to the occasion of developing ventures
 7 in complex social contexts. The thinking was partly inspired by a youth program operated
 by the international organization *Outward Bound* that challenges participants in wilderness
 9 adventures using outdoor activities as tools designed “to help people discover and develop
 their potential to care for themselves, others and the world around them through challenging
 11 experiences in unfamiliar settings” (Outward Bound Australia, 2002). The content and
 processes delivered in the five days have been summarized in Figure 1.

13 Following the program’s design principles, we integrated complex content from higher
 education into experiential learning processes deliberately aimed at students of a higher
 15 level of maturity and academic skill than that of the participant age range. The partici-
 pants were encouraged to respond and were supported throughout the five days by their
 17 peer groups, mentors and facilitators to achieve something beyond what they would have
 normally encountered in a school environment. By the end of the five days, the noticeable
 19 maturity of the participants in developing and delivering complex venture designs seemed

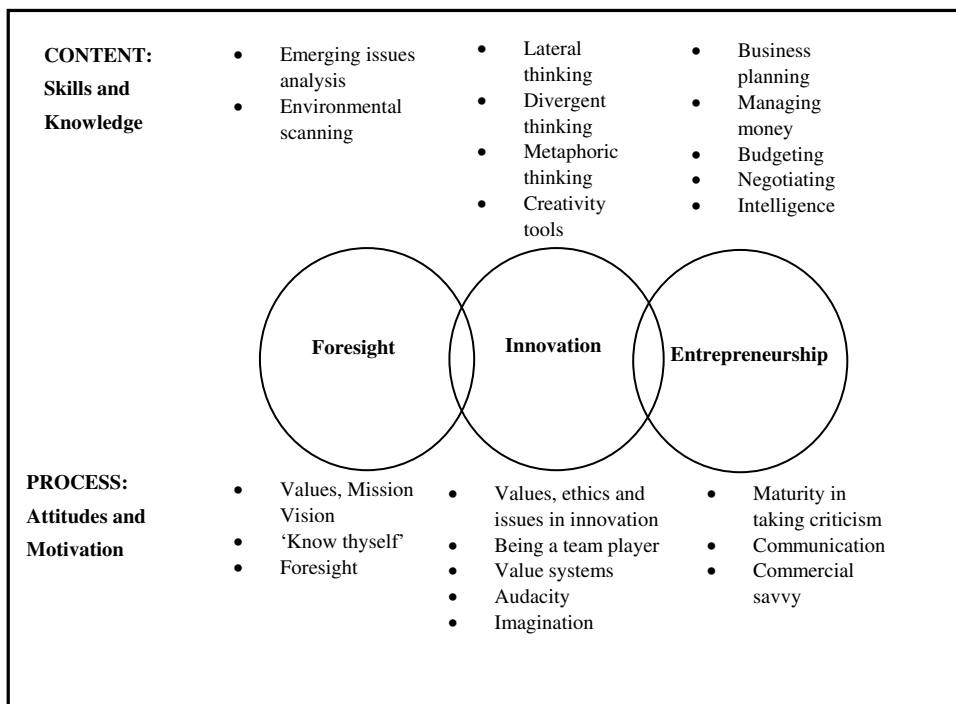


Fig. 1. Dimensions of foresight, innovation and entrepreneurship education for empowerment.

1 to vindicate our efforts, and anecdotal comments from the participants suggested high levels
2 of satisfaction with their achievements.

3 **5. Analysis of the Third Party Report**

4 Upon leaving the QSIC, the young people returned to their normal home and school lives
5 armed with new skills that were intended to empower them to pursue their individual new
6 venture projects. Nine months later, an independent third party conducted an evaluation to
7 assess the sustained success of the QSIC intervention and to make recommendations for the
8 2004 QSIC. The third party evaluators gathered qualitative data via telephone interviews
9 with as many participants as were available (ten of the fifteen). Each delegate contacted was
10 asked a series of probing questions relating to aspects of the conference. The comments
11 that were considered related to empowerment were drawn from the areas of questioning
12 provided in Appendix A.

13 The results of this evaluation were shared with the authors by QSM. The extensive
14 comments seemed to provide a useful insight into the impact of the education design,
15 content and delivery on the stated aim of empowering these young individuals, and it offered
16 a rich source for analysis and reflection on the concept of empowerment within this type
17 of enterprise education intervention. QSM agreed and granted permission to the authors to
18 conduct further analysis.

19 To confirm our casual observations, we first applied content analysis to the qualitative
20 data in the report. The comments were systematically themed against the five stated empow-
21 erment aims of the education component of the 2003 QSIC and each were allocated as either
22 a positive or a negative reflection of our aims. In this process, we discovered some comments
23 that seemed focused on empowerment but were not attributable to any of the empowerment
24 aims of the educational component of the program. These were simply listed as unallocated
25 comments and as either positive or negative.

26 Table 1 summarizes the results of the content analysis. It was clear that many more
27 comments surfaced on the positive side of the ledger for all areas except the unallocated
28 comments. While this was comforting from an evaluation perspective, it also prompted fur-
29 ther exploration of the negative and unallocated comments for breakdowns in our conception
of empowerment and causes of any failure to deliver empowerment to the participants.

Table 1. Summary of content analysis.

| | No. of Positive Comments | No. of Negative Comments |
|--|-----------------------------|-----------------------------|
| Differentiate ideas from opportunities | 12 | 4 |
| Understand that which creates and sustains value | 3 | 0 |
| Operate within a team | 3 | 1 |
| Package concepts and present opportunities | 3 | 1 |
| Integrate the fundamentals of marketing, finance and legal requirements for a start-up business | 8 | 4 |
| Unallocated comments | 3 | 5 |

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1 **6. Analysis by First Person Reflection**

3 The subsequent discussion of the content analysis identified that the positive unallocated
5 comments, while not being formal and articulated aims, were certainly intended outcomes.
7 This forced the view that perhaps there were more tacit and unexpressed aims at work in the
9 preparation and delivery of the program than was immediately obvious. It was then decided
11 that a second level of analysis should be conducted utilizing an action learning, first person
13 reflective method of recalling or recounting past actions through the lens of an inquiry
15 framework. Imposing a two-way relationship between the data and the inquirer through an
17 inquiry framework is also referred to as reflexive practice (Alvesson and Sköldbberg, 2000).
19 To facilitate this process, four questions were established (refer to Appendix B) to which
21 the two researchers independently responded in writing before combining again to analyze
23 the responses further.

13 The reflexive work was then combined with a review of the original design, process
15 flow and content of the QSIC to assemble an explicit perspective on the development and
17 delivered QSIC format. Following rigorous discussion, a more complete expression of the
19 program's aims was then condensed into four main points, namely: Values, Process, Content
21 and Support. A summary of the outcome is provided following the questions listed in
23 Appendix B. The original approach to the design was emergent and adaptive as the two
25 designers and developers of the program grew in awareness of the fields of expertise offered
27 by the other and the requirements and expectations of QSM were fully absorbed. Figure 2
29 shows the results of the reflexive analysis that reveal the tacit and explicit influences of
31 empowerment built into the QSIC 2003.

23 To progress the exploration, the unallocated and negative comments from the content
25 analysis were coded with an empowerment concept in an attempt to identify its source. The
27 analysis identified seven concepts that were unaccounted for in the education empowerment
29 aims. On the positive side, *Confidence* and *Inspiration* were associated with factors of an
31 empowering belief that an individual could make things happen. On the negative side, factors
33 such as: *School* being too time consuming and demanding; an inability to grasp the *Practical
Application* of that which was provided; *Parental Demands* and lack of agreement and
permission prevented action on projects; the *Advanced Materials* delivered in the QSIC were
suggested to be discouraging; and a *Preference to Ones' Own Ideas* rather than group process
were each identified as potentially disempowering concepts that were either intentionally
or unintentionally incorporated in the program.

7. Findings and Implications

35 With this more complete picture and meaning of empowerment for the QSIC program
37 design, we turned to consider the seven concepts that emerged from the unallocated and
negative points and to draw inferences for youth enterprise programs.

39 First, the unaccounted positive points relating to *Self-Confidence* and *Inspiration* were
easily attributable to the design of the program despite the fact that they were not explicit
aims. *Self-Confidence* was promoted through the challenging aspect of the design, which was

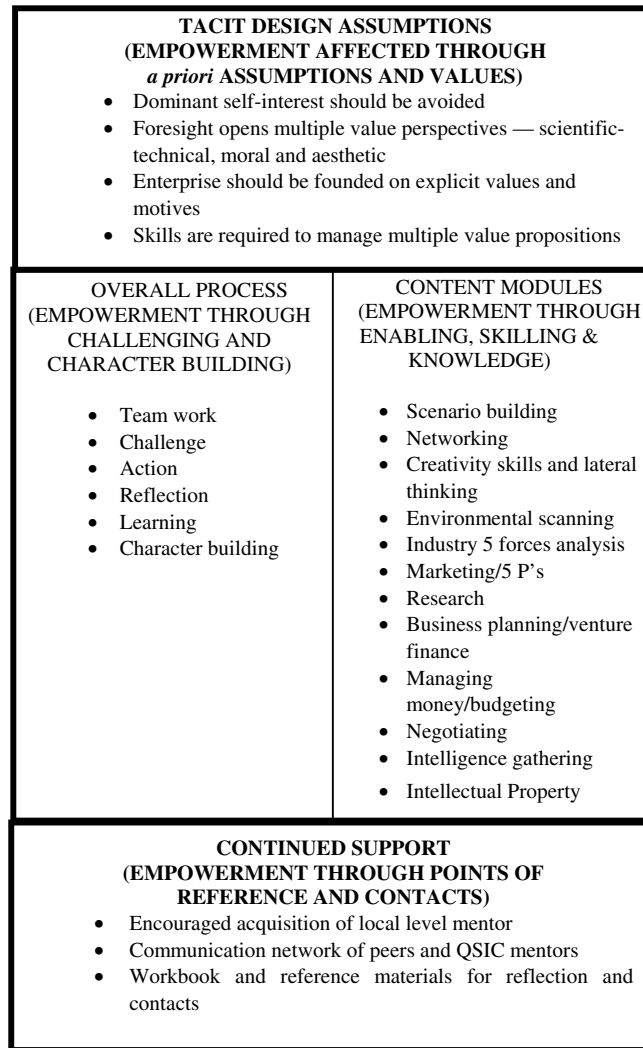


Fig. 2. Reflexive summary QSIC empowerment influences.

1 always aimed at being achievable, through peer group and program support. Nonetheless,
 2 the tasks were not made easy, which brings about a point of balance in such a program; set
 3 the challenges too high and the designers risk damaging the confidence of the participants,
 4 too low and the participants would not experience the sense of achievement that is important
 5 for empowerment. Conger and Kanungo (1988) raised these issues in their discussion of the
 6 organizational setting in a review of theory and noted that enactive attainment — achieving
 7 and succeeding through actual experience — would likely be one of the most effective means
 8 of improving employees' self-efficacy. The QSIC program was designed for participant
 9 enactive achievement; however, in a mixed age and ability program such as the QSIC, the

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1 risk was ever present of damaging the self confidence of some participants as they struggled
with concepts due to an under-developed level of mental agility.

3 In the QSIC program, this was largely countered through the support and group process.
Even so, the comment from one participant that said “[T]he lectures about taking your idea
5 to reality were too advanced for people, which was a little discouraging ‘cos they then think
it is so big and hard” was associated with a negative comment coded *Advanced Materials*.
7 It is then apparent that we were not able to fully ameliorate this aspect, although it should
be noted that the comment was made by a participant that also stated “as I have started a
9 small business myself and I used the notes on helping me to work out my break even point,”
suggests that despite being difficult, it was still accessible and useful. This highlights the
11 critical role of support and balance within the program design when integrating challenge
into a program through *Advanced Materials* and also suggests that even though participants
13 may find it hard, they can and do actually learn.

The concept of *Inspiration* was an implicit aim of the program that was not well-designed
15 into the education component, although the structural influence provided by QSM is likely to
have been responsible. *Inspiration* occurred mostly through the involvement of the mentors
17 as evidenced by the comment “[B]eing in a room with people who had actually achieved
their dream was very inspiring.” Here, it appears that empowerment is achieved at the pro-
19 cess level where the participants can visualize success through the eyes of those who have
already achieved. This highlights the importance of story and narrative in the transmission of
21 experience. Each mentor came to the program with a particular *story* about the successes and
challenges faced as an entrepreneur. In terms of inspiring the participants, techniques and
23 business content would seem to be a poor substitute for such first hand storytelling and
human bonds. In fact, different participants were attracted to different mentors and this
25 demonstrates how a diversity of mentor stories helped to engage and energize the imagina-
tions of the participants. This is an important part of cognition, where the participant begins
27 to think through models that would achieve the enterprise goal. However, it does not follow
necessarily that transference occurs, whereby the individual believes or holds the attitude
29 that they themselves can achieve. Combining cognition and attitude was achieved through
the *Action* part of the program, where the participant experienced the process of enterprise
31 achievement — working through the enterprise model to increase positive attitudes.

Two of the negative accounts of empowerment, *Practical Application* and *Advanced*
33 *Materials*, were designed into the program and clearly, there was some sort of deficiency.
This is thought to be partly due to the disparity in age and abilities and partly due to the
35 attitudes of the participants as they entered the QSIC. For instance, the *Practical Application*
point also received positive comments such as “A lot of it was relevant, especially when
37 you went home to use it.” On a fuller analysis, the participants expressing the particular
negative comments on *Practical Application* were also critical of the group process and
39 were attached to another negative code *Preference to Ones’ Own Ideas*. This suggests that
setting the expectations of individuals and screening for congruent attitudes and motivations
41 with the program are also important points toward delivering empowerment through a QSIC
type process. If a participant arrives with the wrong expectation, and consequently does not
43 adjust or adapt, the efficacy of the program for that particular individual will be less.

1 The remaining points of negative account were not within the confines of the QSIC
empowerment design. *School* and *Parental Demands* are both systems beyond the reach of
3 the QSIC. Here then, the role of macrosystemic systems referred to by Laveman (2000)
play a part and intervene with any empowerment that may be established within an external
5 education intervention.

Our findings revealed that the planning, design and implementation of the QSIC did not
7 originate from a thoroughly researched definition of empowerment. Various tacit definitions
and interpretations of empowerment were present throughout. Empowerment in this context
9 emerged as a complex interlocking set of processes and factors, as represented by Figure 1,
and was not reducible to a single pathway of causality. We found issues embedded in the
11 entry and expectations of participants that hampered empowerment that may be similar to
issues raised in the organizational literature on the disempowering effect of employee role
13 ambiguity (Honold, 1997). We also encountered elements within the process and outcome
factors affecting agency that were consistent with our earlier literature review.

15 **8. Toward an Empowerment Framework**

This concluding section aims to outline each of the dimensions of empowerment that
17 emerged through the analysis of the QSIC intervention; show how empowerment can be a
legitimate aim of such an educational intervention; and discuss certain guideposts in entry,
19 process and agency conditions portrayed through a theoretical framework that can be used
by others wanting to develop similar educational interventions.

21 **8.1. Entry and process conditions**

The first points of consideration might be that of the individual level and human capacities.
23 It seems that programs may focus on developing particular types of human capacity — for
instance skills and knowledge — and neglect other aspects of human dimensions that are
25 central to empowerment. Through our analysis, we have encountered three types of human
conditions (skills and knowledge, attitudes and motivation, and cognition) that were integral
27 to the empowerment process and possibly have inferences for entry into a program. These
also seem to relate to and aid the progression through the first three psychological changes
29 proffered by Hicks (2002). Furthermore, there appears to be some links to the different levels
of learning, as portrayed by Burgoyne and Hodgson (1983), and these will be discussed.

31 **8.1.1. Skills and knowledge**

The teaching of concrete skills that allow participants to express forms of agency can
33 be seen as one pathway toward empowerment. As helplessness has been correlated with
hopelessness (Gidley, 2001), we might also say that empowerment may be linked with
35 enabling “agency” or the capacity for youth to be able to help themselves and others. In this
sense, the skills and knowledge enables healthy agency among participants — a primary
37 enabling of creative capacity to act upon and shape their future, although the teaching of
concrete skills may be necessary, but not sufficient, for empowerment. Learning contained at

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1 this level seems to reflect level one learning (Burgoyne and Hodgson, 1983) that is factually
3 significant for an immediate task but of no consequence or effect on views of the world in
general.

5 On entry to a program, a requisite level of skills (but not necessarily the same skills)
7 that is equally distributed amongst the group is perhaps ideal in order for each participant to
feel the capacity for positive contribution. Inequity in this regard may see some participants
becoming disenfranchised or isolated, producing a situation of disempowerment. We feel
the broad range of ages in the QSIC produced evidence of this.

9 8.1.2. Attitudes and motivation

11 Following on from the discussion on skills and knowledge, a distinction might also be made
13 between “doing” and “being.” “Doing” can be thought of as skill-based, instrumental learn-
15 ing, while “being” is character-based, associated with attitudes and inner motivations. Atti-
17 tude has been described as a *predisposition* toward certain behaviors (Athayde, 2003). We
19 see empowerment as both engendering enhanced doing and being, with character-building
21 equally as important as skill-building. Other dualities have also been recognized in learn-
23 ing and especially when learning is experientially-based. For instance, Politis (2005) draws
attention to the distinctions between the duality of experiences and the knowledge acquired
through experience as espoused by Rueber and Fischer along with the duality of Kolb’s
(1984) acquisition and transformation dimensions of learning. Cope and Watts (2000) also
indicate cognizance of layers and duality in learning when they remark on Burgoyne and
Hodgson’s (1983) fundamental meta-level learning that suggests a gradual erosion of deep
concepts that create new frames of reference. However, in our conception of learning for
“being” we do not necessarily refer to the learning about an external *something*, but a more
inward directed learning about self-belief and relationship with the world. This seems to
be aligned with one process of a type-two learning experience articulated by Burgoyne and
Hodgson (1983), that of a change in orientation or attitude.

27 The challenging experiences presented by the program at the individual and group
29 levels necessitated dynamic responses from participants to build practical skills and, just as
importantly, build character such as self-confidence, foresight, and curiosity. Thus, while
empowerment is based on the ability to do, it also seems to incorporate an attitude and
31 disposition toward the world. Ability means little if an individual is filled with a sense of
hopelessness and futility. And equally, a lack of ability may be a relatively small obstacle
33 for the person filled with hopefulness, a “can-do” attitude, and who is ready and eager to
exercise their agency in the world. Skills and knowledge “abilities” in the latter circumstance
35 may then become enabling devices to enact empowerment.

37 The QSIC case also raised issues about attitudes upon entry into a program and suggested
that it may be a central ingredient to achieving empowerment through a program. Attitudes
are shaped by expectations and if there is a mismatch between the expectations of the
39 participant and the goals of the program, then an attitude of disdain or dissatisfaction will
hamper the progress of the participant toward empowerment. Essentially, participants would
41 be on a journey they did not wish to be on.

1 8.1.3. *Cognition*

3 According to Ester (cited in Mitchell *et al.*, 2002b), cognition refers to the way people
5 think, perceive and know the world. The QSIC presented a dual exploration of probable
7 futures and preferred futures, which together was designed to create a dynamic tension in
9 the explorer to act, a dynamic hypothesized by Hayward (2003). To be an entrepreneur,
11 one must move from the perception of being a receptor of opportunity (despite perhaps
13 being complete with good skills and positive attitudes), to the viewpoint of being a creative
15 mind and a protagonist for positive change. Entrepreneurial cognition is about *creating* new
17 products and services, assembling resources and not only starting but also growing new
19 businesses (Mitchell *et al.*, 2002b). A key element in the process of empowerment is for
21 an innovator to perceive the world as a place where he or she can be a responsible actor
23 and create innovations that serve a greater purpose. Being cognitively empowered without
25 skills, knowledge and attitudes leaves the formulae for empowerment somewhat short.
However, building cognition through foresight processes in conjunction with innovation
and enterprise skills and attitudes suggest a pathway to Burgoyne and Hodgson's (1983)
level three learning. They suggest this learning level is not situation specific but represents
consciousness about conceptions of the world, how they are formed and how they might be
changed.

19 Admission into a program may be based upon cognition-driven criteria. For example,
21 the QSIC invites applicants to detail an invention representing the way the applicant per-
23 ceives and thinks about problems to adapt and develop solutions. However, we believe the
25 QSIC case shows that cognition alone is insufficient as a selection criterion when empow-
erment is the goal — equally important are sufficiency of skills and knowledge relative
to the group as well as attitudes and motivations that are congruent with the aim of the
program.

8.2. *Process and channels for agency*

27 Literature, particularly that of Gidley (2001, 2004) and Hicks (2002), backs up our own
29 assumptions, as well as the initial course design, regarding the importance of avenues for
31 action and agency in the process of empowerment. Without such avenues for action, there is a
33 danger that the energy and vision of young participants will lack direction and lead to a sense
35 of disempowerment or futility through unfulfilled expectations. Empowerment within this
37 context requires a re-distribution of power, resources and decision-making responsibilities
39 (Staples, 1999) and often, this will challenge or test the will of reigning authority. In addition,
41 there are different types of agency that may vary depending on the needs of the participants.
The process of creating value should be seen as diverse, filled with nuances and shades of
meaning. Value can be created across *value spheres* (Wilber, 2000), scientific-technological,
moral-ethical and aesthetic. Different enterprises will have different modes of organization
depending upon their appropriateness to the situation. To unnecessarily limit options for
agency would seem to be detrimental to the goal of empowerment, an unnecessary cutting
off of the potential for human creativity and development. The following points expand on
different contexts within which empowerment can be supported or stifled.

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1 8.2.1. *Organizational boundaries*

3 The organizational boundaries refer to the structure and authority within the organization of
5 the intervention itself. The program intervention can be considered as a practice field, a place
7 of rehearsal for the young participants and here, they must feel the sense of responsibility
9 and consequence of actions for which they have been responsible. It is incumbent upon the
organizers and deliverers of the program to progressively roll-out empowerment and assist
the participants to see consequences and alternative ways of being. The hypothesis is that
the less empowered the participants are within the program, the less effective will be the
transference of responsibility beyond the program.

11 An example of this can be cited from the QSIC experience whereby the participants were
13 requested to form teams under their own volition. The result was three teams, one of which
15 was populated entirely by females and the other two entirely by males. The natural instinct
17 of the QSIC organizers was to intervene and re-form the groups and create gender balance.
19 As program facilitators, we argued against this and suggested that it was the participants'
decision and in essence *their* convention to which they had the right to create the teams they
wanted. We did, however, point out the folly of uniformity to the groups and gave them the
right to re-form as they saw fit. In the end they did not change and we allowed them to keep
the responsibility for that decision. We feel this was an important part of empowering the
group to which some positive results may well be partly attributed.

21 These sorts of tensions in adult decisions for youth empowerment programs are also
23 raised in research by Messias, Fore and Parra-Medina (2005), who have developed best
25 practice guidelines for adults involved in youth empowerment programs. Of course, some
rules and boundaries need to be installed in the interests and protection of the participants
and the organizers in order to mediate against a breakdown in meaningful organization.
However, keeping these boundaries clear and relevant to the task of youth empowerment is
thought to be good practice for an enterprise program.

27 8.2.2. *Family and social boundaries*

29 Another process aspect for youth empowerment is an integration of family and social bound-
31 aries. Evidence was clear that both family and school (a social construction with particular
33 boundaries) were responsible for halting the progress of empowerment. There may be limit-
35 ing factors, such as family traditions and what family thinks is possible, versus the more un-
37 bounded and opportunity space and notions of possibility created within the QSIC. Whereas
39 participants were encouraged to return home and continue with bold visions for what they
41 were to create, some experienced the constraints of school, family expectations, and to an
extent, legal disempowerment. The QSIC placed expectations upon participants with regard
to what was possible in the area of enterprise and social change, and generated motivation
toward this. Yet, many of these expectations can only be realized where individuals have
legal entitlements as adults, have transcended limiting factors in their social and familial
situations, and have shifted from the dependence mindset characteristic of adolescents to
the independence or interdependence mindsets characteristic of most adults. This type of
educational intervention, therefore, may be more appropriate as a "rite of passage," which

1 marks the transition between stages in life. Such a rite of passage may serve a symbolic
purpose as well as a practical one. At the symbolic level, it sends the message to participants
3 that they have power in shaping the world and to use this power for good. At the practical
level, it enables participants with skills and knowledge that they can quickly implement in
5 their lives.

In the earlier discussion on empowerment in enterprise programs, Atherton (2004)
7 implicated the broader responsibilities of enterprise programs in considering the structural
enabling and disabling conditions in broader society. An example of incongruence between
9 these dimensions relevant to the issues of social boundaries was encountered in the QSIC
program. In Australian law, a minor (those under the age of eighteen years) has diminished
11 capacity to enter into contracts. While case law has found that the minor is relatively pro-
tected, it is the party that enters into a contract with a minor that is exposed to the full risks of
13 any failure on the minor's behalf to deliver or uphold the conditions of the contract. This on
its own does not prohibit a minor from starting a business, although it does limit the extent
15 to which the business can be taken seriously without the full support of an adult (someone
above eighteen years of age) to act in the legal capacity required to form a fully enforceable
17 contract. This nuance of law is a difficult concept to convey to a group of eager young
adolescents, but is important to understand for the protection of both the rights of the young
19 participant and the general community. The gravity of the situation becomes clear when one
considers such issues as intellectual property protection for minors. This scenario portrays
21 the case of a mismatch between the aims of a program and the social legal boundaries, and
with increased awareness of these issues, the QSIC program has been amended and adapted
23 to more appropriately reflect the social boundaries within which it operates.

8.3. Agency outcomes

25 Empowerment should be viewed as a multi-level process (Seibert, Silver and Randolph,
2004) as well as an outcome of agency or the ability to act. It appears essential that cog-
27 nizance of the types of agency outcomes are considered within the intervention design in
order to avoid disempowering, disabling or destructive consequences beyond the program
29 boundaries. There seem to be three potential agency outcomes of an enterprise program that
need to be considered.

31 First is one of *Social empowerment* and in this case, the individual may not seek inde-
pendence but rather a re-construction of existing social norms and expectations. This was
33 reflected significantly in the foresight literature (Gidley, 2001; Gidley and Inayatullah, 2002;
Hicks, 2002). The individual in this circumstance will develop an enterprise that can pos-
35 itively influence the social structure in a consensual manner and may be considered less
rebellious but perhaps rather radical and assertive. The social circumstance considers it the
37 right or personal responsibility of the individual to voice their opinion and act in concert
with their beliefs.

39 Second, there is *Organizational empowerment* whereby the participant enacts empow-
erment within a specific organizational, group, team or structured context, and this was
41 represented largely in the innovation literature (Dooley and Sullivan, 2001; Sundbo, 1999).

1 The individual is granted rights and authority to act in a prescribed manner and empowerment is a construct of the particular social-organizational context.

3 The third outcome is a *Self-enabled empowerment*, which is a construct of the individual, encountered most strongly in the entrepreneurship literature (Kantor, 2002; Johnson, 1998; 5 Martin and Wright, 2005). Characteristics of this empowerment may be seen as rebelliousness or an individual seeking to exert their own will and direction in a *tear-away* fashion 7 from an existing social structure. The goals and desires of the individual may lie outside of those of the system within which they find themselves. This form of empowerment is 9 highly dominated by leadership ambitions whereby the individual will seek independence of the boundaries of family or other socially constructed boundaries to take rights and 11 responsibilities upon themselves.

13 For an educational intervention such as the QSIC, each form of empowerment is a possible aim; however, the actual lived outcomes may not be in concert with the intended 15 outcomes of the program. This raises an important issue for the development and design of the program and the level of engagement of the program organizers with the social 17 systems that will be encountered by the participant upon their return. Therefore, designers of an empowerment program have a responsibility for engaging with the issues of both the 19 participant and the social context from which the participant emerges in order to establish shared beliefs and ensure that the intended outcomes are in harmony with the social and 21 organizational environments to which the participant will return.

23 Figure 3 provides a graphic representation of a proposed theoretical framework of the factors and outcomes affecting individual empowerment and agency. It maps the influences that we have encountered in the exploration of the QSIC case and we hope provides insight 25 into theoretical relationships that can be subjected to further testing and development.

25 9. Conclusions

27 In pursuing empowerment as a goal through an enterprise-oriented education, an important distinction needs to be made between the overall approach and the discrete techniques in 29 the modules of delivery. Without this distinction, it is easy to focus on the modular aspect of the program and an assumption that empowerment will take place in a rather disaggregated 31 manner. An understanding of the overall program, the approach, is necessary to situate the various techniques. In the QSIC, the approach was to challenge participants in a deep 33 and appropriate way, informed by an understanding of action learning (team project and experientially-based learning by doing) and *outward bound* (a bold adventure and rugged 35 journey). The individual techniques were nested in this broader approach, which assisted empowerment.

37 Beneath this dynamic approach, empowerment was evidenced beyond the boundaries of the program except where other contextual issues obstructed the process. External systemic 39 pressures had a disempowering and stifling effect on the success of the intervention within at least the time frame of the QSIC evaluation. Rather than just download pre-packaged content into the minds of participants, the expectation from the QSIC was that participants would

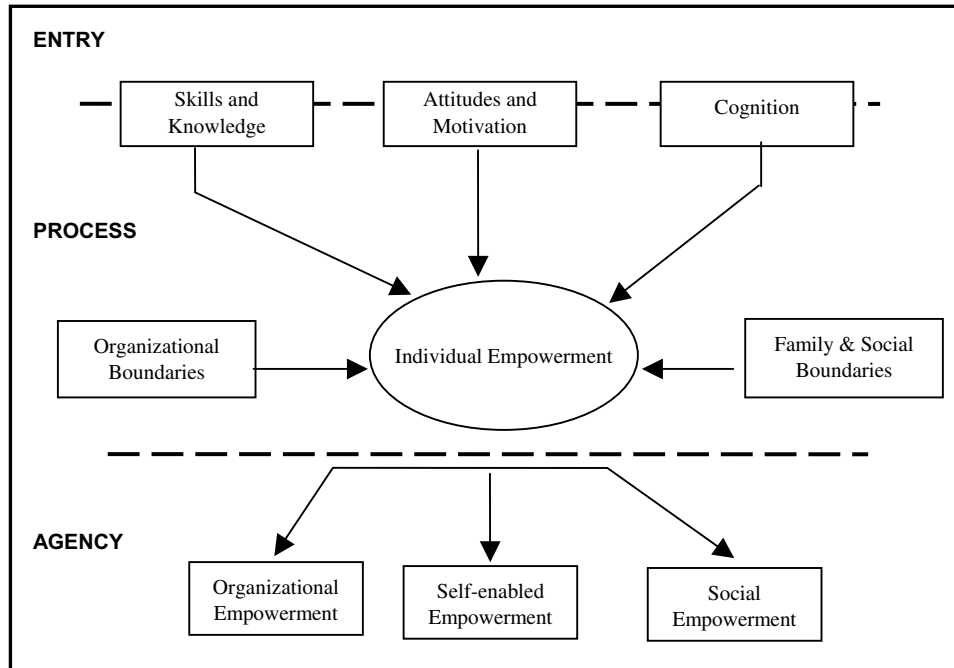


Fig. 3. An entrepreneurship empowerment intervention theoretical Framework.

1 work with the content as material and tools in their usual environment to build something
close to *their* hearts. From this view, empowerment cannot so easily be instrumentalized.

3 Empowerment should not be understood as a construct with a single source of deriva-
tion, but as a dynamic process and quality that can be directed toward the development of
5 certain human capabilities and attitudes. It may also be understood in humanistic terms, as
the unfolding of the human potential. And it may also be considered as a feeling, an outlook,
7 a human characteristic; empowerment is more than skill. It can be a sense of accomplish-
ment that translates to confidence and also a deepened context that leads to initiative and
9 responsibility taking. Enabling was considered an important approach to empowerment —
to give ability in key areas. However, engendering an empowered attitude and fostering
11 self-confidence was also important.

10. Limitations and Further Research

13 Limitations in this research endeavor need to be noted, especially as the framework has
been developed through the experiences of one particular case intervention with a limited
15 number of participants. This has meant that the basis of the data extraction has been narrow
with a weak heuristic and the resulting framework would benefit from testing with a broader
17 range of participants before it could be generalized across cases. The method draws upon
the assumptions and values of the primary researchers and interventionists from which the

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1 qualitative evaluation was conducted (noted in Figure 2) and was aimed at construction of
2 theory. This suggests the need for a wider investigation involving comparative analysis of
3 educational interventions.

4 The research method has kept the voice of the participant passive. The findings would
5 have benefited from testing and verification with the participants and perhaps this could be
6 achieved in the future by engaging the participants in participatory approaches to research
7 to develop and extend the conference design. This also suggests the need for longitudinal
8 research that maps the circumstances of individuals against the pressures on empowerment
9 with a closer examination of the role of social context (family/school) as both limiting and
10 enabling participant agency in innovation and enterprise activities. There also may be subtle
11 boundary limitations within specific contexts not yet identified and indeed, boundaries are
12 likely to overlap between social, family and other potentially unidentified structures.

13 A fuller understanding of the development of an intervention and the different types
14 of possible participants in empowerment interventions is still required. For instance, what
15 approach and design would be appropriate for an FI and E empowerment intervention devel-
16 oped for convicted criminals in preparation for release from jail or for employees in a global
17 business or students through a post-graduate education program? Each of these interventions
18 would have very different participants with starting positions of a vastly different nature
19 and therefore, would it not lead to variations in design principles? Each of these type of par-
20 ticipants would also have different perspectives on structures within which empowerment
21 would need to operate. This suggests a focused study on the link between structures (which
22 emerge in futures explorations and innovation) and agency (which emerge in entrepreneur-
23 ship) — a problematic relationship that has been well-developed for example by Giddens
24 (1984). Where many education interventions for youth seek to focus on an employability
25 outcome, an entrepreneurship education intervention has a far greater need to be interfaced
26 into the greater social spectrum. Holding a principle aim of empowerment brings with it
27 broader responsibilities and potentials. As researchers and academics, we have an imper-
28 ative to ensure that rigorous theoretical frameworks underpin entrepreneurship education
29 and training for human empowerment in bringing diverse value into the world.

31 **Appendix A. The Third Party Evaluator Questions that Revealed Responses
32 Indicating Levels of Empowerment (Questacon Smart Moves Report, 2004,
33 unpublished)**

- 33
- 34 ● Usefulness of the mentors
 - 35 ● Overall, what do you believe was the strongest/best part of the program?
 - 36 ● Overall, what was the most memorable part of the convention?
 - 37 ● So what have you been up to since the convention?
 - 38 ● What information that you learned at the convention, have you used?
 - 39 ● What steps (if any) have you taken to further your idea?
 - 40 ● Do you have any major achievements/milestones you would like to tell us about that has
41 happened for you and your idea since the convention?
 - 42 ● What are your future plans/steps for you and your idea?

- 1 • What has been the biggest challenge faced by you since the convention for you and your idea? Have you overcome it yet?
- 3 • Suggestions for improvements to the information that you received before the convention

Appendix B. First Person Reflection Summary

5 The four reflexive questions posed for the first person action research:

- 7 (1) What did empowerment mean in the context of foresight, innovation and enterprise?
In particular, what about the distinction between official/formal knowledge and lived experience.
- 9 (2) What role did learning processes have in delivering empowerment?
- 11 (3) How did our values/positions and assumptions around multiple value propositions influence the process of empowering and the outcome of empowerment?
- 13 (4) What needs did we anticipate in terms of supporting empowerment beyond the conference for the participants?

Summary of Reflexive Questions Combined Response

15 Content: What did we want them to learn?

- 17 (1) Deliver technical know-how or an ability to apply practical skills sets
- (2) Relay the importance of contextual and relational understanding
- 19 (3) Be aware of issues and challenges of society
- (4) To build hopeful and empowering visions
- (5) Learn about “team” perspective of innovation
- 21 (6) Linkage of the three domains of foresight, innovation and enterprise
- (7) An awareness of the consequences of consequences
- 23 (8) Assessment of ideas for social and economic impact at community and personal levels
- (9) Open-mindedness about different scenarios and perspectives
- 25 (10) Awareness and respect for their own experiences
- (11) How to draw upon the experiences of others

27 Process: How did we think processes contributed to learning?

- 29 (1) The process was essential to the delegates gaining empowerment
- (2) Certain settings can be disempowering
- 31 (3) The process needed to provide points of reference through stories of life
- (4) The process needed to provide the participants some control
- 33 (5) Some self-directedness was important to enable individuals to find what was important and meaningful
- (6) Teamwork was important
- 35 (7) Through gaining confidence in the “formal knowledge” in that the process proved the ability to apply the technical knowledge
- 37 (8) Through gaining self-confidence in beliefs

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- 1 (9) Through gaining resilience to challenges of beliefs
 (10) Through gaining flexibility to re-assess beliefs
- 3 Values: What affect did our preconceived values and positions on multiple value propositions
 have on the process and the empowerment outcome?
- 5 We believed that:
- 7 (1) All “value spheres” should be considered — scientific-technological, moral and
 aesthetic
 (2) Values and motives should be explicit
 (3) Self-interest dominates the business culture that drives change today and this has a
 negative social impact
 (4) Foresight opens up the various value dimensions in a changing world
 (5) Multiple value propositions are a given and innovation and enterprising individuals need
 13 to know how to work within that context

15 Support: What support beyond the conference did we feel necessary for empowered
 individuals?

- 17 (1) Support at the local level by a mentor to keep the conversation and peer group alive
 (2) Support was an aid or a tool to be utilized that included a means to remain in contact
 with peers and mentors
 19 (3) A reference source such as the workbook to assist with sourcing information and locating
 assistance
 21 (4) A prompt for reflective thinking provided by the workbook

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