Knowledge Mobilization in Chinese Education Policy-Making: Conceptual Frameworks for Motivation Analysis of Policymakers’ Adoption of Research

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Abstract

Increasing investments and efforts were devoted to Chinese educational policy research in past decades, yet the adoption of research reports remains limited. The education policymakers, who take superior roles as knowledge users, are decisive in mobilizing the research results to policy-making. This study, based on knowledge mobilization framework, had clarified the role of Chinese education policymakers as knowledge user and privilege side in research adoption. Their motivations for research adoption are analyzed: Political motivations and knowledge motivations are initiative and core motivations, while environment influences and knowledge mobilization (KMb) efforts are decisive catalysts and facilitators. In Chinese education system, the environment for decision making and relationship between researchers and policymakers are quite diverse, while knowledge mobilization (KMb) efforts are still limited. Suggestions were provided for building healthy networks and effective mobilization.

Keywords

Knowledge Mobilization, Education Policy-Making, Research Adoption, Motivation Analysis, Conceptual Frameworks

1. Introduction

There have been calls for education in placing far greater reliance on research evidence as basis for adoption of programs and practices, especially efforts by America and British government, flagship initiatives in What works Clearing-house (WWC) and Evidence for Policy and Practice Information and
Co-coordinating Center (EPPI-center) (Rober, 2008). Ongoing fiscal pressures, ever-growing democratic demand of citizens require more evidence-based policy-making. However, it is an oft-cited problem that social science research use remains modest for policymaking, and bitterly contested in the education field since 1980s. Studies showed the loose relationship between researchers and policymakers, particularly continual disappointment and disparity between high expectations for, and the low perceive impact of, the research (Behrstock, Drill & Miller, 2009; Levin, Cooper, Arjomand & Thompson, 2010; OECD, 2007). How to mobilize knowledge get from education research to better educational policy-making still remains unclear.

Three crucial questions that help clarifying: 1) How can we measure the efficiency of research products be used or influence policy-making? 2) Who were in the privilege position in mobilizing the research knowledge into policy? 3) Can we analyze and proper use the motivations that may influence the key person or organization in order to mobilize the research products in a more effective and practical way?

This study starts from answering the three questions according to the situation in China, aims to restructure the process under the rationale of knowledge mobilization, and forms a conceptual framework that reflect factors that influence the key person in China’s educational policy-making.

2. Background and Context

In China, large investment was given to social science research, since social reform called for sound evidence and better use of think tanks. Projects were mainly commissioned by government bureau. The policy research projects do not receive enough consultative reports, let alone the adoption rate of the submitted reports remain low (Table 1).

Actually, Chinese policy makers were require but not force to use research evidence, and were in the privileged position in deciding which information source would be take accountable in policy-making process. So make policymakers more receptive to include research evidence into their decision-making is the most crucial part in mobilizing research products into policy in China.

This study, took “knowledge mobilization” (KMb) as the key concept, provided a Chinese version of KMb in educational policymaking. We explored the motivations that may influence research adoption of Chinese educational policymakers from four perspectives: political motivation, knowledge motivation, environment influences and knowledge mobilization efforts. Conceptual frameworks would make with the reference from emergent patterns of political science and knowledge management, and Chinese local experiences and factors would be complimented.

3. Definitions and Scope

Before further analyzed on motivations for policy makers’ adoption, we would
Table 1. Humanities and social sciences research in Chinese universities & Colleges.

<table>
<thead>
<tr>
<th>Year</th>
<th>Projects sponsored by government</th>
<th>Invested human resources</th>
<th>expenditure (hundred RMB)</th>
<th>Applied Reports</th>
<th>Adoption rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Reports submitted</td>
<td>Report adopted</td>
</tr>
<tr>
<td>2006</td>
<td>123,584</td>
<td>58,642.5</td>
<td>14,330,115.7</td>
<td>22,659</td>
<td>3945</td>
</tr>
<tr>
<td>2007</td>
<td>146,050</td>
<td>62,237</td>
<td>18,031,367</td>
<td>15,286</td>
<td>2626</td>
</tr>
<tr>
<td>2008</td>
<td>171,084</td>
<td>64,117</td>
<td>23,431,185</td>
<td>7570</td>
<td>3905</td>
</tr>
<tr>
<td>2009</td>
<td>193,383</td>
<td>64,342.6</td>
<td>29,315,739.7</td>
<td>5679</td>
<td>3347</td>
</tr>
<tr>
<td>2010</td>
<td>226,226</td>
<td>68,240.5</td>
<td>36,601,929.6</td>
<td>6464</td>
<td>3545</td>
</tr>
<tr>
<td>2011</td>
<td>260,905</td>
<td>73,337.3</td>
<td>47,468,108.2</td>
<td>8166</td>
<td>4562</td>
</tr>
<tr>
<td>2012</td>
<td>291,606</td>
<td>81,206.3</td>
<td>53,699,133.9</td>
<td>8878</td>
<td>4407</td>
</tr>
<tr>
<td>2013</td>
<td>313,461</td>
<td>84,623.6</td>
<td>57,599,680.3</td>
<td>9486</td>
<td>5074</td>
</tr>
<tr>
<td>2014</td>
<td>345,119</td>
<td>88,552</td>
<td>729,189,573</td>
<td>10,659</td>
<td>5138</td>
</tr>
</tbody>
</table>


clarifying the concept of knowledge mobilization and the stakeholders within the process.

The term Knowledge Mobilization (KMb) refers to moving available knowledge (often from formal research) into active use. More than just "bridging the gap", KMb seeks to make connections between research/expertise and policy/practice in order to improve outcomes in various organizations or sectors (wikipedia.org).

Knowledge Mobilization (KMb) is characterized and differentiate by three perspectives:

Firstly, KMb reconstitute the relationship between researchers and policymakers, rather than principals and agents, they were knowledge producers and users. It emphasizes the multidimensional, longer-term, political and social nature of the work in comparison to earlier terms.

Secondly, KMb contains all the activities, dissemination platform as well as strategies, investments and efforts involving in the interaction, not only endeavor from the two sides, but also the intermediaries’ efforts. “Mobilization” implies effort and direction, not just random interaction, but multiple, iterative phases including in the generation of new research when needed, the communication and application of established research knowledge, and the contextualization of research to suit particular environments.

Thirdly, the knowledge here is understood as any of all the accumulated knowledge and experiences from researchers and stakeholders for social sciences and humanities research (SSHRC, 2013). So the contents of knowledge remain open for KMb, not only the sound results from random-sampling but also the speculative papers published by the researchers from the fields.

Understanding of KM has been growing in the past decade due to increasing
interest in the topic as a way to improve public services (Cooper et al., 2009; Davies, Nutley, & Smith, 2000).

In this study, we would confined our investigation only in the KMb in education policy-making in China, which emphasis on the efforts that done by researchers, policymakers and other intermediaries that may help educational policy makers to make better-informed decisions.

As for producer-user model, there are three main elements—the producer (researcher with research products), the user (policy makers who are in decisive positions in policy-making), and the intermediaries (activities, efforts, strategies that invested in) through which these are linked. Environment works as exogenous influences for the other three elements. In some presentations the elements are framed in much more complex ways than in others—for example with more mediating and moderating variables, or with various recursive elements, or with all sorts of feedback loops—but those main elements are present in almost all of the examples we could find. KMb is not only a matter of producing more knowledge, but also improving both the desire and capacity for its use in the mediating process (Levin, 2006) (Figure 1).

The three elements are working interactively, and environments influence every element as the KMb process goes. It is often the case that knowledge users may have the rights to choose the products while intermediaries’ may work as advertisement or selling platform, and the buying price and quantity are decided by the demands and supply of the sector—seeing who is in advantage.

In Chinese education sector, policy makers usually in an advantage position, they have decisive power in research adoption choosing from massive and unevenly developed research products, however they usually couldn’t find suitable evidence for their immediate use. Professional KMb intermediaries remains unexplored, while most policy researchers are enthusiastic about policy use and struggling out to play the intermediaries’ role, but they have difficulty in both understanding the users’ needs and access to the decision maker. Since it’s.

![Figure 1. Knowledge Mobilization in policy-making.](Source: Levin, 2006)
unpractical yet costly to make the policymakers-the knowledge users to choose the right products, it is the producer that should make more efforts. It is important for producers to know the factors that may motivate their users, so they may interactively make more suitable knowledge products, in a more efficient manner, and use at its maximum.

4. Motivation Components for Knowledge Mobilization of Policymakers in China

The factor that may influence policy makers to adopt research results to inform or influence in the policy-making could be complex. But in the KMb process, knowledge users could be treated as a group of consumers that care effectiveness and efficiency. As for the user, it is clear that value, supply, expectation of the products, as well as the marketing strategies may influence the demand of the products. For the policy research products, the value, supply, expectations are inherited in its knowledge and political significance. Since there are no accurate standard and requirements, the value, supply, expectations are depending on the judgements of the user (policy-makers), and marketing strategies in the KMb process could be KMb efforts, and influenced by the environments.

In this study, we hold the motivations for education policy-makers to adopt research products are divided into three aspects: political motivation, knowledge motivation, environment influences and KMb efforts that devoted in. The detailed factors may support by existing models or studies across the disciplines. Integrated them, add Chinese characteristics, and cultivated with experts, we concluded the following factors that may well influence the Chinese education KMb (see Table 2).

4.1. Factors That Consist the Motivations

Supported by theories from political and management science, consulted experiences from abroad and at home, lessons from KMb in healthcare and other field, the following factors may influence the KMb of education policymakers in research adoption in China, and they would be well included in the motivations we mentioned before.

4.2. The Motivations & Their Relations

The motivations for education policymakers to adopt the research are factors that may inspire or stimulate policymakers to use the idea, results, or suggestions of the research to inform their decision-making. Under KMb frameworks, it means, the policymakers will have the willingness to “buy” and have controllable cost and channels in using the researches. The willingness of the policymakers would come from their political and knowledge needs and pressure, which are core motives, while environment influences and knowledge mobilization (KMb) efforts are decisive catalysts and facilitators. Among them, political motivations are inherited in bureaucratic instinct of the policymakers, knowledge motivations
Table 2. Factors that consist the motivations in Chinese education KMb.

<table>
<thead>
<tr>
<th>Political Motivations</th>
<th>Internal impulses</th>
<th>External impulses</th>
<th>Political capacity of policymakers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Internal dissatisfaction; Systemic collapse; Incentives for promotion &amp; power enhancement; Willingness to make a difference</td>
<td>Economic change/competition; Political change; Negative external evaluation</td>
<td>Organizing; Decision-making; Critical thinking; Foreseeing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Knowledge Motivations</th>
<th>Value of knowledge</th>
<th>Validity and Reliability</th>
<th>Knowledge capacity of policymakers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Scarcity and irreplaceability, Pertinence, actionable; Comprehensiveness, Feasibility, Timeliness; Presentation,</td>
<td>design, sampling, integration of research process</td>
<td>Retrieval; Absorb; Preserve; Interpret; Synthesize and Integrate; Problem-Solving;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environment Influences and KMb Efforts</th>
<th>Dissemination strategies and channels</th>
<th>KMb strategies</th>
<th>Scholar source</th>
<th>Previous collaborations</th>
<th>Policy-making process</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Direct</td>
<td>Commissioned investigations and projects; official hearings, service on governmental panels, comments on policy drafts; suggestion letters to policymakers</td>
<td>Products, events and networks</td>
<td>Type of the Research Institutes; Research reputation; Geographic location</td>
<td>Frequency of Person-to-person contact; frequency of other contacts</td>
</tr>
<tr>
<td></td>
<td>Indirect</td>
<td>News releases; opinion leaders; media interviews; Professional training for policymakers; Co-supervision of postgraduates, etc.</td>
<td>Websites, publications, Lectures, conferences seminars, Symposia, exhibitions, etc.</td>
<td></td>
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</tbody>
</table>

signified values that may brought about, environment would provide “budget line” and basic infrastructure, KMb efforts would broaden the choices.

Political motivation is the initial driving force and directly related to personal career development of policy makers. Adoption of research results may result in problem/crisis-solving, optimization of performance, power enhancement, possibility of promotion and better living for the general public, in case the political capacity of policymakers would control the situation. Knowledge motivations, which would revealed and trigged by the value, validity, reliability of the knowledge provided, influenced by the personal knowledge capacity and preference of policymakers. In Chinese education system, the environment for decision making and relationship between researchers and policymakers are quite complex, and different from other countries and system, which signify the political and culture backgrounds in China. So the following part would analyze the factors that included in Environment Influences and KMb Efforts in detail.

4.3. Environment Influences and KMb Efforts in China

Since environment influence and KMb is the most decisive and characteristic element in KMb frameworks, and may vary for different country and sector, we would analyze it in detail.
4.3.1. KMb Efforts

Many organizations are increasing their efforts in KMb, including large international bodies such as the World Bank and the OECD. New organizations, such as the Campbell Collaboration, have been created for the purpose of knowledge mobilization. The activities of these organizations range from websites, newsletters, audio-visual products, seminars, conferences, and “learning communities” to organizational infrastructures and policies in support of research and evidence.

KMb strategies, including products, events and networks are used to show the extent and ability of KMb efforts. Cooper & Levin defined the three strategies in 2010, and may localized in China (Table 3).

There are no definite conclusions on which products, events or networks would work more effectively than the other, and the studies supposed that the more activities were taken, the better the KMb works. Based on this assumption, the analysis of websites being conducted by OISE (Ontario Institute for studies in Education) team by University of Toronto admittedly indicates that most organizations are devoting little if any effort to KMb activities beyond paying “lip-service”. It revealed that faculties of education also appear to give little attention to organized KMb, notably so in comparison to technology transfer or industry liaison efforts in areas such as science or medicine which are much better organized and supported. In Kaplan and Haenlein’s (2009) model, producer push mechanisms such as RSS feeds or emailed research bulletins to networks may be less effective than online strategies that allow more two-way communication (such as Facebook, Twitter), but the former might reach far more people (due to modest participation with social media tools).

In China, more KMb events use different networks are emerging, research products are made more user-friendly. Researchers are adapt to more flexible and various way of expressing their research products. Although there is no obvious sign that policy makers become more open to latest research results, they surely exposed to more information that contain research products. But when choosing the “political right” and “reliable” products, the scholar source and

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Definition</th>
<th>Examples</th>
<th>Remarks:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Products</strong></td>
<td>Research reports, adapted products tailored for audiences, systematic reviews, policy-related documents, terms/glossary, reference lists &amp; annotated bibliographies that produced specially for users.</td>
<td>e.g. tool kits for practitioners, briefs for policymakers</td>
<td>Personnel resources, activities devote to the KMb work, and training on packing the knowledge products and marketing them.</td>
</tr>
<tr>
<td><strong>Events</strong></td>
<td>Activities aim to mobilize the research results to policy-related reference</td>
<td>conferences, professional development training.</td>
<td>Video clips of events also included</td>
</tr>
<tr>
<td><strong>Networks</strong></td>
<td>Database, apps, platforms that facilitating dissemination of research or promote communication between researchers &amp; policy makers</td>
<td>Blog, Facebook, Twitter, WeChat, QQ, weblog in China</td>
<td></td>
</tr>
</tbody>
</table>

Table 3. Components of KMb efforts.

previous collaborations between the policymaker and the scholars’ also matters.

4.3.2. Scholar Source
The type of the research institute, as well as its research reputation and geographic location would shape government-research institute engagement, and will effect on the decision of policymakers’ selection of scholars and adoption of their research results.

- Type of the Research Institutes
  Different type of research institutes may differ in mission, social and political ties to the policy systems, bureaucratic affiliations, resource allocation within the system, staff time and quality, standards for promotion, etc. In China, it is the organizations' bureaucratic affiliations play the central role, and the conditions mentioned above are more or less related to their affiliations, and could be divided into the following three types according to its extent of dependent relationship to the government.

  1) Governmental Research Institutes (GRIs)
  GRIs include functional departments, consulting divisions on educational policy and regulation making in Chinese ministry of education, and also in provincial, city, county level education administration bureau. Their staffs are public servants and resources were sponsored by government. Their mission is directly provide drafts and suggestions to policymakers, present education statistics that collected by the executive branch, and organize hearings and collect public advice for policies. Their research products are directly use by relevant decision-making. But limited to their tight schedule and bureaucratic and task-base thinking style, they are more bureaucrats or officials rather than researchers.

  2) Semi-Governmental Research Institutes (semi-GRIs)
  Semi-GRIs include institutes affiliated or attached to the governmental consulting divisions, mainly affiliation of GRIs in national, provincial, city, county levels. For example, The National Education Development Research Center in China, which established upon approval of the state council in 1986 and affiliate to the ministry of education, is built to meet the need of education development and reform, and provides consultation for national macro decision-making. National Institute for Educational Research (NIER), is also renowned as an important national Semi-GRI. Key research projects in national and ministerial-levels or local levels are usually undertaken by them-large-scale investigations and experiments could be done with the help of administrative instruction from government. Their projects are always commissioned by policymakers rather than through rigorous competition. Although there are some celebrated researcher leading the projects, and the newly-enrolls should meet some requirement—their research products are accomplished in a mixed manner under their loose quality supervision system.

  3) Non-Governmental Research Institutes (NGRIs)
  NGRIs are research institute that are not directly connected to the govern-
ment, including educational research institutes in universities and colleges, and professional association and private-run research centers. Although most of the universities in China, especially ones with educational research institute were run by government, and professional associations are usually got funds and supports from the government, the relationships between them are looser than that of GRIs and Semi-GRIs.

The NGRIs are unevenly developed, while some of them did systematic and high-quality studies with abundant resources, most of the educational research, like the situation in other countries, are small scale, poorly sponsored. But in its independent position (or at least supposed to be), researchers in NGRIs should offer their knowledge to the powerless, the under-represented and the voiceless rather than to governments and political elites.

Besides, there is a group of research VIPs that worth special attention, since their suggestions and ideas would directly transmit to the policymakers and have profound effects on relevant policies. These elites include experts who work in Counsellors’ Office of The State Council of China, academicians in Chinese Academy of Science or Engineering, etc. For example, the question “why we couldn’t cultivate exceptional talents in Chinese education system?” ask by Qian Xuesen (a famous academician) had initiated another round of rethinking and reforms in our schools and education system.

- Research reputation;
Influential research institutes and universities are those have good research reputation, signified reliable source of knowledge, information and advices. Whose voices are most prominent would surely influence the final decision-making (Clarance, 2002).

There are some fairly large and influential specialized educational research organizations such as NIER (National Institute of Education Sciences), and some private-run research centers as 21st Century Education Research Institute. Still large proportion of educational research institutes has been a small scale, fragmented cottage industry hidden away in university faculties or start-up companies.

- Geographic position
Research show proximity is critical for forming intensive bilateral relations between private firms and universities, probably increased role of trust and face to face contacts when dyadic, confidential and often tacit knowledge exchanges are at stake (Jackson et al., 2007). And the same happen between educational research institutes and educational policymakers, as knowledge producers and users. In order to contact in a face-to-face manner while cost efficient, experts in Beijing were more likely to be invited to ministry of education to give consultations or lectures because of geographic advantage, especially for Beijing Normal University, which is both reliable and in close range.

4.3.3. Previous Cooperation
Having contacts and building trust is important for knowledge transfer and ex-
change as well as to see change in practice (Mitton et al., 2007).

On the one side, professionals as well as policymakers, who had experience conducting research used it more (Belkhodja, 2007). That means the more policymakers exposed to the research activities, the more they would aware and adopt research results. On the other side, strong, long-term linkage between producers and users of knowledge will lead to higher levels of utilization (Nyden & Wiewell, 1992). Building new relations are considered to be time consuming and could be risky, especially in conservative and accountability-related context. Previous operations not only increase the familiarity between researchers and decision-makers, but also gain some trust.

High-frequencies of the cooperation in a face-to-face form would be benefit for forming a personal connection, which remains to be the most powerful vehicle for moving evidence into decisions in China. High-frequencies in other forms would also beneficial for building mutual trust.

4.3.4. Policy-Making Process

Education policies are “living things” forged within national and organizational frameworks (Power, 2007). As an inertly political process, the most decisive institution in education policymaking should be the institutionalization of the policy-making process and the extent of control by policymakers.

- Institutionalization of process

There are three questions that may relate to the research adoption in the institutionalization of process:

The first question is, whether investigation or collecting research results is an obligatory procedure in the policy-making process? UK government’s introduction of a cyclical spending review process is based on substantiated submissions to the Treasury from each government department at least offer the rhetoric of a place for research in policymaking and an opening for researchers to press their case (William, 2001), which provide a good model. Nowadays, the Chinese educational policies in national and most provincial level need investigation and discuss phase, but it is not always a necessary procedure in the county or district level.

The second question is, is there a formal standard for choosing the evidence? Many commentators have disparaged policy-makers as impatient and overly concerned with short-term political appeal rather than effectiveness (El-Khawas, 2000). So if there is no formal standard for selection of research they may adopt, the results they may use could be a tool for pull through the priorities and pressures facing by the government or reason for their already-in-mind decisions.

The third question is, how would the research be used?

If we are to understand policy-making, and the place of research evidence within it, we have to acknowledge “…the messy realities of influence, pressure, dogma, expediency, conflict, compromise, intransigence, resistance, error, opposition and pragmatism in the policy process” (Ball, 1990: p. 9).

Studies of policy-making do suggest that it is not a linear rational-analytical
process of examining all the evidence and research results from different context may suggest opposite opinions. Repetitive discussion and interaction between policymakers and researchers would reduce the misinterpretation, and form a better-fit conclusion.

**Extent of control**

The authoritativeness and weights of policymakers in the policy process would definitely influence whether research result could finally transform to a policy. And that would be shown as their extent of control during the policy-making process.

Public policies are developed and delivered through the use of power. In many countries, this power is ultimately the coercive power of the state in the hands of democratically accountable politicians. There sometimes seems then to be a tension between power and knowledge in the shaping of policy. Emphasizing the role of power and authority at the expense of knowledge and expertise in public affairs seems cynical; emphasizing the latter at the expense of the former seems naïve (William, 2001). So it is important to balance the two.

The attitudes of senior managers and political leaders would influence the use of evidence in a less democratic system in the policy-making process. And let the research results to decide the future may lead to elites to manipulate the policy seems to be unfair too.

5. Considerations for Policy and Discussion

As the models would reveal, and take the practical situations in China as reference, there are some suggestions that could help increase the adoption of research results in policymaking, and promote KMb in education policy-making.

1) **Establish communication channels and infrastructure**

Education expert fora that bring together researchers and policy-makers, would stimulate the generation, presentation and dissemination of systematic knowledge on education (Teichler, 2000). And the communication channels and infrastructure would be the basis for creation of interpersonal, cross-organizational networks, which valued much in research adoption (Levin & Fullan, 2008).

Sponsored conferences and research impact networks, as already exist in European countries, could be a model for us. A platform, contain database, that engage with ultimate decision-makers and their policy advisors, identifies new research opportunities, seed-funds promising projects, which could broker, tender, manage and quality-assure research undertake by the network, establish and refine research and policy agendas would be ultimate option (Power, 2007). Inter-institutional mechanisms for fund distribution, shared meeting spaces, institutional commitment, details of people’s workload adjustments, communication strategies, and access to data management and storage programs need to be addressed to initiating a collaboration (Curwood et al., 2011).

2) **Institutionalize the take-in of research**

Firstly, make searching research results or investigation as an indispensable legal
procedure of policy-making. Introduce mechanisms for ensuring policy-makers are required but also supported to participate in learning communities.

Secondly, standard or indicators must be developed to measure the quality of research results that may adopt as reliable evidence. The validity, reliability, as well as their value should be properly evaluated.

Thirdly, the adoption of knowledge should be completed in an interactive manner and balanced with other considerations. Mutual understanding and comprehensive conclusions would only be reached through interactions. Besides, adopting research results do not mean to ignore the complexities in the situation and judge on cold data that provided, the balance and benefit of stakeholders always matters. Relevant rewards and promotion institutions should be built to inspire researchers to be involved in the procedures.

3) **Support researchers in repacking and network maintaining professionally**

Present information to policymakers in user-friendly formats would facilitate their decision-making. Provide detail on “what works” and by definitive “facts” about the social world in its actual state would help explain the usage of the research (Davies, 2000). Personnel and writing help would promote the effects.

Professional assistance in translating complex research into straightforward language and pleasant format, relationship-building with user groups through frequent seminars or other interactive activities arrange by specially-assigned person and systematic training would form a long-term and effective KMb system.

4) **Help policy-makers to make most value from research evidence**

On the one side, the advancement of policymakers’ political capabilities as well as their knowledge capabilities would be the most effective way of getting most value from the research evidence. Policy makers work in Canada health sector had been suggested to have core competencies include “proficiency” in evidence-informed decision making, which conclude collaboration, problem framing, critical thinking, innovation and creativity (Pierson et al., 2012). These may take time but worth it.

On the other side, technical, financial, organizational and emotional support for research-based protocol and tools are also suggested (Nutley, Walter, & Davies, 2007). In some countries, intermediaries, usually third parties are introduced to take the role. In China, existing resources can be integrated and mobilized in a proper way to allocate the resources more reasonably. For example, the scattered, small scale research institutes could form their advantage of integrating research results and transfer into summaries or short videos rather than doing policy research that contain limited value; professional associations may organize activities and in charge of network building among the research institutes and relevant policy making agencies. But of course, promotion standards and targets of the organizations should change accordingly.

5) **Prevention of possible damages to academic freedom**

For one thing, studies done or sponsored by promoters are much more likely
to produce positive evidence (Lexchin, Bero, Djulbegovic, & Clark, 2003). Research engagement in the policy-making process could retrospectively support the policy initiatives have been recognized as policy-based evidence-making in medical and financial fields (Giles, 2010). Educational policy researches in China, although mostly done by NGRIs, were frequently sponsored by the government, would also have political considerations in drawing the conclusions, which may reduce and not eliminate by rigorous sampling and dedicated conduction and rational reasoning.

For the other, the over-emphasis on explicit forms of knowledge in established models, neglecting the importance of socialization and tacit forms of knowledge (Oborn et al., 2013) should be carefully prohibit, in order to balance the research development.

What’s more, some criticized on modifications in research agenda could happen to cater for the demand of policy makers (Cohen et al., 1998). But it is the duty and freedom for researchers to balance and select the topics of research, especially in policy research field, which could be seen as an applied subject and aim to make change in existing policies.

6. Conclusion and Further Studies

Increasing investments and efforts were devoted in Chinese educational policy researches in past decades, yet the adoption of research reports remains limited. The education policymakers, who take superior roles as knowledge users, are decisive in mobilizing the research results in policy-making. Under the frame of knowledge mobilization, this study formed a composite model for motivations of policy makers’ research adoption on the basis of theories from political science and management science, experiences from abroad and at home, and lessons from KMb in education, healthcare and other field. Political motivations, as well as knowledge motivations, environment influences and KMb efforts work integrate, influence the adoption behavior of Chinese education policymakers. Suggestions were made on channels and infrastructure building, institutionalization of research take-in process, professional supports on repacking the products and maintain good producer-user networks, and help policymakers to make most value from the products. And there also raised the problem of possible damage to academic freedom that we have to prevent and reduce the disadvantages to certain extent.

The growing awareness of the importance of KMb is a necessary first step to increase its profile internationally. This awareness is being followed by governmental support and dedicated resources in many places (Cooper, Levin, & Campbell, 2009). However, it is also revealed that action for KMb is needed on several fronts simultaneously—to improve our understanding of and base of evidence on knowledge mobilization, and to strengthen and evaluate KMb strategies in a range of organizations. Co-ordination and planning among the organizations are expected.
To extend the research arena, research is needed to track the practice of education policy-making process, and evaluation tool for KMb in Canadian education system would copiloted by data collected in Chinese situation. And it is hoped that this present paper will encourage others interested in all aspects of KMb in education to use and develop the models it describes in order to produce more sophisticated ways of analyzing the complex processes involved in this important area.

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**References**


