Social Capital Profiles: Immigrants and the Native-born in Canada

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Working Paper No. WP02-08

2008
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**Funders**

We are pleased to acknowledge the following organizations that provide funding in support of the Prairie Metropolis Centre: the Social Sciences and Humanities Research Council of Canada; Citizenship and Immigration Canada; Atlantic Canada Opportunities Agency, Canada Border Services Agency, Canada Economic Development for the Region of Quebec, Canadian Heritage; Statistics Canada; Human Resources and Social Development Canada; Rural Secretariat of Agriculture and Agri-Food Canada, Department of Justice Canada, Public Health Agency of Canada, Federal Economic Development of Initiative of Northern Ontario, Canada Mortgage and Housing Corporation; Public Works and Government Services Canada; the Royal Canadian Mounted Police; and Public Safety Canada. The University of Alberta provides PMC with a generous grant and the other participating universities offer supplementary support.
Social Capital Profiles: Immigrants and the Native-born in Canada

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Research on social capital and minority status has intensified recently. Against this background, the current paper studies the social capital of immigrants in Canada, and compares that with that of the native-born Canadians, using a large-scale Canadian survey with a heavy focus on social capital (General Social Survey, cycle 17). The study is conducted in two steps. First, using Principal Component Analysis, 15 different dimensions of social capital have been identified; the variables heavily associated with each of those components have been then collapsed into one composite index. Second, using the 15 resultant composite indexes, social capital profiles of immigrants and non-immigrants are generated. The results show three clusters of indexes: those on which there is no major difference between the two sub-populations; those in which immigrants score higher; and those with higher scores for the native-born. The theoretical as well as policy implications of these particular profiles are discussed.

Introduction

The issue of the social capital of immigrants in immigrant-receiving countries has recently attracted some attention (see, among others, Portes, 1995a; 1995b; Massey et. al., 1998; White and Kaufmann, 1997; Zhou and Bankston, 1994; Fernandez Kelly, 1995). This special attention is the product of three developments. First, since the early 1990s there has been a rising interest in the concept of social capital, which has been used to refer to the resources embedded in communities (Bourdieu, 2001[1983]; Coleman, 1988; 1990; Putnam, 1993; 1995; 2000). Second, relying on such communal resources has been found to be particularly important for the immigrants who are now increasingly coming from developing countries and face new challenges not experienced by previous waves of immigrants (Portes, 1995a). Third, the population of immigrants has been fast rising globally, with most states simultaneously sending and receiving immigrants now, making the number of people living in countries where they were not born about 2 percent of the world’s population (Borjas, 2000; Massey et. al., 1994; 1998; Papademetriou, 1998). In other words, the increase in the number of immigrants worldwide, the heavier reliance of immigrants on communal resources, and the close connection between the latter and social capital, have brought to foreground the issue of the social capital aspect of immigrants’ lives.

Canadian research on the social capital of immigrants has been growing, but it is still far from giving a thorough picture. Some of the existing studies have immigration status only as a secondary variable among many others (see, for instance, Helliwell,
1996; 1998). Those with a heavier emphasis on immigrants suffer from the limitations of their data, which tends to focus on few immigrant groups or only on certain regions (Ooka and Wellman, 2003; Hagan et. al., 2003). Yet a third group of studies use more comprehensive data but have narrowly focused on only certain aspects of the multi-faceted and much broader concept of social capital (see, for instance, Nakhaie, 2007; Nakhaie et. al., 2008; Kazemipur, 2006a; Breton, 1997). The few who have given social capital a full multi-dimensional treatment have mostly relied on the theoretically-based dimensions suggested by Putnam (2000), without offering any empirical verification for them.

One thing still missing in the literature generated so far is a big and thorough picture of the social capital profile of immigrants as compared to that of the mainstream population. The least that can be done in this direction is to compare immigrants and non-immigrants along the dimensions of social capital suggested by Putnam (2000), including trust, voting, political engagement, religious engagement, donation, and volunteering. There exist two problems with Putnam’s conceptualization of social capital, however. First, while he treats social capital as a multi-dimensional concept, he arrives at those dimensions merely on theoretical grounds. Furthermore, he seems to be implicitly assuming an internal consistency among those various dimensions. The problems arising from such an assumption have been well summarized by Lin (1995), who argued that “[s]ocial capital has become too vast, including too many elements at different levels of analysis, to be empirically specified apart from human capital and economic resources (quoted in Kay and Bernard, 2007:42). This state of conceptual confusion and ambiguity has resulted in many contradictory, or at best inconclusive, findings out of social capital studies.

The purpose of this study is to examine the social capital profiles of immigrants and native-born Canadians through the use of a different measurement approach. First, we have made an attempt to arrive at the dimensions of social capital, empirically. Then, the two groups of immigrants and non-immigrants have been compared along all those dimensions. This has resulted in different social capital profiles for each of the two sub-populations. We have then discussed the implications of the differences between the two emergent profiles.

A Review of the Relevant Literature

The idea of social capital, although not necessarily the term, seems to have been around for a while. Putnam (2000) reports that the idea has surfaced independently at least six times in the course of the 20th century, and Portes (1998) traces it back to the works of the founders of sociology in the late 19th century, particularly to Marx’s concept of ‘class for itself’ and Durkheim’s concept of solidarity. At least one aspect of what we know as social capital today – i.e., the notion of associational activity – was raised even farther back, by Tocqueville (2001[1835]), leading some scholars to refer to the new stream of social capital as the emergence of a ‘neo-Tocquevillian’ view (Edwards and Foley, 2001). Despite this relatively old history, the recent popularity of the concept

In a now classic work in the social sciences, Putnam (2000) effectively showed an almost four-decade-long decline in American social capital. This decline reflected itself in several different areas, each highlighting a certain aspect of social capital: civic engagement, referring to the involvement of individuals in community affairs by virtue of membership in voluntary associations, from neighbourhood through national level; political engagement, showing the degree to which an individual is active in political affairs, whether it is membership in political parties or campaigning for an election; religious engagement, looking at membership in a church and participation in activities organized by one; workplace engagement, referring to membership in trade unions and professional associations; volunteering and donation, both highlighting the degree to which one is prepared to sacrifice his or her time and money for the purpose of others’ betterment; informal connections, pointing to the frequency of involvement in socialization activities; and, finally, trust and reciprocity, revealing one’s underlying beliefs and feelings towards other members of his or her community. Putnam believed that the erosion of social capital endowments in the U.S. robs Americans of the warm and caring social environment in which everyone is reasonably sensitive towards, and adequately involved in, his or her community.

Putnam’s arguments seemed so strong and persuasive that a flurry of similar studies in other countries immediately began to emerge (see, among others, Putnam and Goss, 2002; Fukuyama, 1995a; 1995b; Hall, 1999; 2002; Worms, 2002; Offe and Fuchs, 2002; Perez-Diaz, 2002; Rothstein, 2002; Cox, 2002; Inoguchi, 2002). The success of the concept of social capital in shedding light into many other areas of social life – such as education, health, economic development, democracy, etc. – soon turned this concept into an indispensable and powerful explanatory factor for social scientific research, and triggered great enthusiasm among policy-makers. Associated with this great enthusiasm was a pervasive optimism that the absence of social capital has been at the root of many social problems, and that those problems can be done away with simply through the promotion of social capital.

Unsurprisingly, soon the critiques and challenges emerged. Methodological and measurement-related concerns aside, most of the critiques revolved around the linkages between social capital and the three standard sociological variables of class, gender, and race/ethnicity. Those concerned with class argued that social capital is not a so-called independent variable; rather, it is affected by class divisions and income inequalities in society (Wuthnow, 2002). A second group, mostly feminist scholars, critiqued Putnam’s argument that the decline of social capital happened simultaneous to the rise in the participation of women in the labour force (Lowndes, 2000; Norris and Inglehart, 2003). A third group, which included Putnam himself, raised concerns about the uneasy coexistence of social capital with racial and ethnic diversity. This latter challenge is the most recent, and seems thus far to be the most serious one.
The first signs of an uneasy relationship between social capital and racial/ethnic/cultural diversity surfaced in a report by Putnam (2003) on the negative correlation between social capital and ethnic diversity in the American states. A similar finding was reiterated in later studies at the neighbourhood level (Putnam, 2007), which led to a controversy in British newspapers (see, for instance, Lloyd, 2006a; 2006b; Ulph, 2006). Several other studies also supported Putnam’s main argument not only in America but also in Australia and Europe (see, Coffe and Geys, 2006; Letki, 2008 forthcoming; Alesina and Ferrara, 2000; 2002; Leigh, 2006a; 2006b), as have some Canadian studies (see, for instance, Howe et. al., 2006; Aizlewood and Pendakur, 2005; 2007; Kay and Johnston, 2007c). These works created a flurry of debate in newspapers all over the world, a comprehensive inventory of which can be found on the Saguaro Seminar web site (see, Saguaro Seminar, 2007).

The argument at the heart of these debates can be broken down into a few smaller links of reasoning. First, it is given that social capital operates within a normative environment shared by all those involved. Second, the rapid increase in the number of immigrants to industrial nations, arriving mostly from non-European societies with different ethnic backgrounds and cultural outlooks, is forcefully disturbing the cultural homogeneity of the receiving countries. Third, as a result of this rising cultural homogeneity, social capital is becoming increasingly difficult to promote or even maintain. Fourth, most of the recent immigrants come from societies with lower levels of social capital than their destination countries and therefore, their arrival puts a downward pressure on social capital averages in host societies.

The above concerns have been so pervasive that it even led a 2006 meeting of G8 countries to raise serious doubts about the merits of their Multiculturalism policies: “[S]ome countries are reflecting on how to manage multiculturalism, while others are reflecting on whether or not to accept it as a model at all (Citizenship and Immigration Canada, 2006:18).” This sent a clear signal that the issue was more than just a British or American concern. It also declared the quiet arrival of what Ley (2005) has called a ‘Post-Multiculturalist’ discourse. As for the solution to this dilemma, two distinct approaches seem to have surfaced. The first one, proposed by the British journalist Goodhart (2004) and supported by others like Etzioni (2004) and Huntington (2004), involves a call to return to a firm and historically-based definition of the native (for Goodhart, ‘British’) identity, and to encourage immigrants to adopt this identity as a condition of their presence in host societies. The second, promoted by Putnam (2007) and the Nobel Prize winning economist Amartya Sen (2006), acknowledges the long-term benefits of immigration for the host societies, and asks for new and creative definitions of ‘we’ to be developed so that it also includes immigrants of different ethnic and cultural backgrounds. For proponents of this solution, such new identities are the products of long processes of reasoning and negotiation. Convincing support for the success of such an approach has been provided by several studies on inter-ethnic relationships in other countries, such as India (Varshney, 2001), South Africa (Haile et. al., 2006), Singapore (Eng, 2002; Kadir, 2005; Ooi, 2005), and 19th century America (Costa and Kahn, 2001; 2002; 2004).
Canadian research on the interplay of social capital with race, ethnicity, and immigration has recently picked up, but is still very thin and mostly inconclusive (Helliwell, 1996; 1998; Heath, 1997; Policy Research Initiative, 2003; a special issue of the *Journal of International Migration and Integration* in 2004; Kazemipur, 2006a; 2006b; Kay and Johnston, 2007a; 2007b; 2007c; Kay and Bernard, 2007; Eisenberg, 2007; Soroka, et. al., 2007a; 2007b; Curtis and Perks, 2007; Aizlewood and Pendakur, 2007; Abraham, 2007; Mitchell, 2007; Veenstra, 2007). Some studies have found partial support for the problematic relationship between social capital and rising number of immigrants and ethnic/racial minorities (see, for instance, Kay and Johnston, 2007c), while others are alluding to the possibility that the situation in Canada (and possibly Sweden as well) might be posing an exception to the trends seen elsewhere (Banting and Kymlicka, 2004; Kazemipur, 2006a; Duncan, 2005). This particular state of Canadian research on the issue suggests, if nothing else, that the Canadian case certainly deserves more attention, as it has the potential for making a useful contribution.

Against this background, the present study involves an attempt to address one of the many issues raised above, that is, the overall social capital profiles of the immigrant and native-born sub-populations in Canada. Such a comparison allows us to develop insight into whether or not there are any major differences between the two groups; and, if there are, in which areas. This is a particularly timely task, as any policy-making attempts to deal with the issue of social capital and diversity has to start from a big picture showing where each group and each segment of the population stands in terms of social capital coordinates.

In this study, we have tried to address the issue through a two-step process. First, an attempt has been made to disentangle the blanket concept of social capital, in order to empirically arrive at the dimensions it consists of. This has generated 15 distinct dimensions of social capital, based on which we have created 15 different composite indexes of social capital. Then, immigrants and native-born Canadians have been compared along those 15 dimensions. This has revealed three different areas of social capital in Canada; those in which immigrants and the native-born Canadians show no major difference; those in which immigrants and the native-born Canadians show no major difference; those in which immigrants fall behind; and those in which the native-born show some deficit. The emergence of this unique set of patterns should be of utmost relevance and importance for Canadian policy-makers, who are busily involved in incorporating social capital into the social programs, as it allows for much more precision in policy targeting.
Data and Methodology

In this study we have utilized a ‘social-capital-rich’ source of data, cycle 17 of the Canadian General Social Survey (GSS), a survey conducted in 2003 via a long questionnaire administered to about 25,000 Canadians. This survey was specifically designed to capture different aspects and components of social capital, from trust in others to voting in elections, and from number of friends to participation in demonstrations, and so on. The numerous social capital variables included in this survey greatly facilitates the development of a perspective on the structure of the relationships between the various ingredients of social capital.

Table 1 includes a listing of all the variables used in this analysis. Assuming that the above variables do not behave entirely independently from each other, and understanding that many of them may have been influenced by a few common underlying forces, we have tried to examine the internal structure of this host of variables by employing a statistical procedure called Principal Component Analysis (PCA). As a data reduction technique, PCA helps us overcome the complexity of a conceptual picture by reducing a large host of variables down to a few underlying ‘components’ – what we have called ‘dimensions’ here (for elaborate discussions on how PCA works, see Tabachnick and Fidell, 2001; Hair et. al., 2006; Johnson and Wichern, 2002). The resultant dimensions have been then used to compare the social capital profiles of immigrants and native-born Canadians.

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Before getting into the details of the statistical operations, it will be useful to have a bird’s eye view of whole process by looking at the series of steps involved. First, the non-interval variables have been converted into a series of dummy variables (for the logic behind this practice, see Hair et. al. 2006). Second, PCA is used in order to find the broader groupings of the 45 social capital variables. The choice of PCA, as opposed to Common Factor Analysis (CFA), was made on the basis of the fact that the former considers the total variance rather than the common or shared variance which is used by the latter (Tabachnick and Fidell, 2001). This allows for a more thorough reduction of data, as well as for the entirely different dimensions with no or little correlations amongst themselves to surface. This is reflected in the 15 PCs which emerged in the study.
Each of those dimensions had several variables that were highly associated with the dimension, allowing us to use them for the purpose of creating composite indexes. Third, using the guidelines offered by Hair et. al. (2006) for creating ‘summated scales,’ we then collapsed the variables which were highly correlated with each of the 15 dimensions to make 15 composite indexes. The value of each of those composite indexes is equal to the sum of the value of each variables multiplied by its corresponding weight (or factor loading); these values have then been standardized by dividing them by the maximum value that they could potentially take, so that the scores for all composite indexes vary between 0 and 1. Fourth, the average values of each of the 15 composite indexes for immigrants and non-immigrants were separately calculated. Fifth, a series of ANOVA tests were run to see if the differences in the values reported are statistically significant.

Results

Dimensions of Social Capital

The results of the PCA show that we can effectively reduce the complexity and the congestion of the data. Table 2 shows that the 45 social capital variables can be organized in 15 broader groupings. Each of the resultant PCs have an Eigen value of at least 1, and together capture about 56 percent of the total variance of the variables (the proportion of total variance captured by each principal component is reported in Appendix 1). The fact that a certain set of variables are put in one particular group indicates that those variables are not entirely separate from each other, and are driven by a common underlying force pushing all of them in a certain direction. Here, those common forces – or, in statistical terms, principal components (PCs) – are called dimensions of social capital.
Let’s start with the first cluster of variables, that is, those variables that have the highest correlation with the first PC. As is easily noticeable, all those variables have to do with trust: trust in people in general, in family members, neighbours, co-workers, and strangers. The values reported for each of those variables indicate the degree of association between that variable and the common force that is pushing all of them
forward. Those values can vary from -1 to +1, where 0 signifies a total lack of correlation and an absolute value of 1 indicates a perfect correlation. The fact that all the values reported for the first cluster are positive indicates that all the trust variables go hand in hand with one another. This is to say that if, for instance, a person tends to find the general public trustworthy, he or she tends to also trust family members, neighbours, co-workers, and even strangers, although of course in varying degrees.

The second cluster has to do with confidence in main institutions: the education system, health care system, welfare system, government, judiciary, and police. The underlying commonality in all these institutions, at least in the Canadian context, is that they are all related to the government. Here again, the numbers reported for all variables are positive, meaning that confidence in each of the six institutions is positively correlated with confidence in the rest of them.

The third principal component has to do with voting. The three variables clustered under this component are indicators of whether or not the respondents have voted in the last federal, provincial, and municipal elections. Again, the variables are positively correlated, and strongly so, indicating that the tendency to vote in elections does not vary much by the level in which the election is held.

The fourth principal component has captured three variables that are all related to religion: the importance of religious/spiritual beliefs, the affiliation with a religious group, and the frequency of attending religious functions. The positive and strong correlations reported for all these variables are something that makes sense intuitively, that is, those who value spirituality and religion are more likely to be affiliated with a religious group and also to attend religious events.

The fifth principal component shows an interesting combination of variables. The essence of the component is about volunteering, i.e., whether or not one has done volunteer work and the amount of time devoted to such work. However, these two variables are also correlated with a third one, that is, membership in organizations other than the ones captured by other variables in the analysis (i.e., political, religious, sport, and cultural organizations, service clubs and fraternal organizations, labour unions, as well as neighbourhood associations). The inclusion of this variable in the volunteering component would mean that these not Otherwise-specified groups are the type of organizations that need the volunteer energy of their membership or, alternatively, these organizations attract a certain group of people who are more willing to volunteer. Also, this type of volunteering can be considered a general-purpose volunteering, different from the ones done for specific purposes such as supporting a political party, captured under the next PC.

The sixth principal component highlights engagement with political parties. This is different from general political engagement, which is captured by some other variables. Under this component, there are two variables with high and positive correlation scores: membership in political parties, and volunteering for them. Obviously, compared to simple voting, membership in a political party signifies a much
higher level of commitment to a party and, hence, the sacrifice of time and energy to promote the cause is perfectly understandable.

Neighbourliness is probably the best description of what the seventh component illustrates. The two variables included under this component are whether or not one has done and received a favour from his/her neighbours. The strong and positive correlation scores indicate that when one of these two variables is present, the other is very likely to also be present. In other words, there is a reciprocal and mutual element in one’s relationship with their neighbours.

The eighth principal component attracts four variables: searching for information on political issues, expressing views by contacting newspapers and politicians, speaking out at public meetings, and providing help by teaching, coaching, and giving practical advice. The central element in all these variables seems to be the act of exchange of information, mostly on political and social issues. This can include both the acquiring and the dissemination of information. While the last variable does not specifically talk about the political nature of the advice given and the teaching done, it seems that the eagerness to acquire information on political issues has a spill-over effect into other areas of life that might be less political in nature.

The ninth principal component is somewhat related to the second one, confidence in institutions, though with a major difference. While the former looks primarily at public institutions, the latter involves private-sector and for-profit organizations such as banks and major corporations. This distinction is quite interesting, as it indicates that these two sets of variables are not necessarily correlated with each other, and each is capturing a different strand of the confidence phenomenon.

The tenth principal component incorporates the respondent’s current membership and/or participation in sports and recreational activities as well as their engagement in such activities back in their school years. The positive correlation between these two indicates that involvement in these kinds of activities at a younger age has a lasting effect on the likelihood of similar engagement in later years. Also, both of these variables are correlated with the frequency at which people participate in group activities and meetings. This speaks, indirectly, to the point made by Uslaner (1999) regarding the significance of being a part of sports clubs in teen years for generating and promoting social capital in adult years.

The eleventh principal component involves two variables, signing petitions and participating in demonstrations, both of which have to do with the expression of dissent over political and social issues. One might find a lot of similarities between this and two other components – the sixth one on engagement with political parties, and the eighth one on the exchange of political information. A closer examination of the variables included under each of the three components, however, shows that while the sixth one is looking at activities organized through political parties and the eighth one includes activities revolving around getting and giving of information, the eleventh component looks mostly at irregular political activities which are temporary in nature and do not
create a commitment on the part of the doer to continue their engagement for a prolonged period.

The essence of the twelfth component seems to be what Putnam calls informal networks, that is, socialization and time-spending with friends. The two variables included in this component are the number of friends one has, and the frequency with which people see their friends. Understandably, having a larger social network demands more time to be spent with those in the network.

The thirteenth principal component demonstrates an unusual combination of variables: participation in cultural activities, and membership in school groups and/or neighbourhood associations. From a certain angle, this sounds similar to the tenth component which showed the high correlation between involvement in sports clubs at school and participation in group meetings and activities. This clearly points to some sort of continuity between group involvement at school and involvement with society at large at a later time. It seems, however, that in addition to the correspondence between group involvement at a younger age and its likelihood at an older age, there is also a connection between the nature and type of groups involved in at a young age and that of adult years. For instance, involvement in school team sports tends to lead to a similar involvement later, and involvement in cultural activities at school is more strongly associated with involvement in civic organizations later.

Confidence in business people, donating money for charity purposes, and belonging to a youth group at school are heavily loaded on the fourteenth component. Membership in youth groups seems to be nurturing a caring for others and, hence, can lead to a higher level of generosity in form of donating money. Money donation, as opposed to, say, volunteer work, is typical for those with more money than time; and that perfectly fits those who run their own businesses. The possible connection between the membership in youth groups and involvement in business – if the above proposition happens to be valid – remains an area open for further investigation.

The last principal component combines three variables: membership in labour unions, participation in service clubs and fraternal organizations, and the frequency of following news and current affairs. A common element in the first two variables is the self-centered nature of the organizations, as both service clubs and labour unions are to support the participant members, sometimes even at the expense of other members of society. Since both of these organizations require a heavy level of bargaining at regular intervals, the members do need to be aware of the overall circumstances, gains and losses by similar organizations. This could be the potential link between the former two variables with the frequency of following news and current affairs.

To summarize, 15 different components surfaced, each looking at a particular facet of social capital, and they were used to calculate 15 composite indexes. To make the discussion of these composite indexes easier, we have proposed the following names for them: 1) Trust; 2) Confidence in public institutions; 3) Voting; 4) Volunteering; 5) Religious engagement; 6) Neighbourliness; 7) Political party involvement; 8) Political

**Social Capital Profiles of Immigrants and the Native-born**

As mentioned in the methodology section, the results of the PCA have been used to develop 15 different indexes of social capital, using the factor loadings of the variables which were highly correlated with each principal component (the algorithms used in calculating these composite indexes are included in Appendix 2). Below, the average values of those indexes for immigrants and non-immigrants are reported and discussed.

Table 3 shows the average values of each of the 15 social capital dimensions for immigrants and native-born Canadians, as well as the difference between the two values and the information on the statistical significance of the difference. The table is divided into three different areas: the social capital dimensions included in the top area are those for which there are no consistent patterns and no statistically significant differences between the two groups; the middle section is where the native-born Canadians score consistently and significantly higher than the immigrants; and, the bottom area is where they score consistently and significantly lower.

<table>
<thead>
<tr>
<th>Composite Indexes</th>
<th>Mean Score: Native-born</th>
<th>Mean Score: Immigrants</th>
<th>Mean Difference: Native-born MINUS Immigrants</th>
<th>F</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-Interest Social engagement</td>
<td>0.723</td>
<td>0.730</td>
<td>-0.007</td>
<td>2.771</td>
<td>0.096</td>
</tr>
<tr>
<td>Cultural-Community participation</td>
<td>0.171</td>
<td>0.172</td>
<td>-0.001</td>
<td>0.055</td>
<td>0.814</td>
</tr>
<tr>
<td>Political party activism</td>
<td>0.040</td>
<td>0.038</td>
<td>0.003</td>
<td>1.048</td>
<td>0.306</td>
</tr>
<tr>
<td>Political Information acquiring and sharing</td>
<td>0.416</td>
<td>0.437</td>
<td>-0.022</td>
<td>3.576</td>
<td>0.059</td>
</tr>
<tr>
<td>Confidence in private institutions</td>
<td>0.620</td>
<td>0.607</td>
<td>0.013</td>
<td>3.008</td>
<td>0.083</td>
</tr>
<tr>
<td>voting</td>
<td>0.714</td>
<td>0.509</td>
<td>0.205 (*)</td>
<td>882.964</td>
<td>0.000</td>
</tr>
<tr>
<td>Trust</td>
<td>0.635</td>
<td>0.603</td>
<td>0.032 (*)</td>
<td>70.945</td>
<td>0.000</td>
</tr>
<tr>
<td>Volunteering</td>
<td>0.155</td>
<td>0.131</td>
<td>0.025 (*)</td>
<td>28.485</td>
<td>0.000</td>
</tr>
<tr>
<td>Neighbourliness</td>
<td>0.620</td>
<td>0.553</td>
<td>0.067 (*)</td>
<td>83.452</td>
<td>0.000</td>
</tr>
<tr>
<td>Group activity</td>
<td>0.642</td>
<td>0.619</td>
<td>0.023 (*)</td>
<td>15.001</td>
<td>0.000</td>
</tr>
<tr>
<td>political expression</td>
<td>0.174</td>
<td>0.133</td>
<td>0.041 (*)</td>
<td>81.244</td>
<td>0.000</td>
</tr>
<tr>
<td>social networks</td>
<td>0.350</td>
<td>0.326</td>
<td>0.023 (*)</td>
<td>49.934</td>
<td>0.000</td>
</tr>
<tr>
<td>Donation-Youth-Business</td>
<td>0.722</td>
<td>0.687</td>
<td>0.035 (*)</td>
<td>47.210</td>
<td>0.000</td>
</tr>
<tr>
<td>Confidence in public institution</td>
<td>0.602</td>
<td>0.639</td>
<td>-0.037 (*)</td>
<td>26.977</td>
<td>0.000</td>
</tr>
<tr>
<td>Religion</td>
<td>0.361</td>
<td>0.424</td>
<td>-0.062 (*)</td>
<td>192.777</td>
<td>0.000</td>
</tr>
</tbody>
</table>

(* *) Significant at 0.001 level

The social capital dimensions with no statistically significant differences between immigrants and non-immigrants are: cultural-community participation, political party activism, self-interested social engagement, confidence in private institutions, and political information acquisition and sharing. Out of these, the differences on the first two
are simply too small to clear the bar even with a more relaxed threshold of statistical significance. The other three, however, would have made the cut had we decided to settle for a 90% confidence level instead of the current 95%. In the latter case, the results would show immigrants’ higher level of engagement in trade unions and political sensitivity, combined with a lower level of confidence in private institutions such as banks and large corporations. This particular combination could be alarming, as it might imply immigrants’ vulnerability in economic areas in the absence of any external force (e.g., unions, and government). This is a likely scenario, particularly given the higher confidence that immigrants have expressed in public institutions (the third area).

More interesting, though, is the middle area of the table, that is, the social capital dimensions in which immigrants fall behind. This includes dimensions such as voting, trust, volunteering, neighbourliness, group activity, political expression, social networks, donation/youth/business. Immigrants’ lower scores in some of these are easily understandable and hardly worrying. The lower voting score, for instance, can easily be related to the fact that immigrants are not allowed to vote for the first few years of their presence in Canada (until they receive their Canadian citizenship), their lack of familiarity with the Canadian political system, and the thinness of their knowledge of election candidates. The smaller size of the immigrants’ networks could also be a product of their migration, at least for the first few years. Lower engagement in formal volunteer activities and donation might also have to do with their lesser exposition to such activities – as opposed to informal actions done for family and kin – in their home countries. Their lower scores on trust and also on neighbourliness should receive more attention, though, as these two dimensions are more directly related to the nature of immigrants’ experiences and social interactions in their new homes and with the majority population. They are also noteworthy because of the anecdotal information on the prevalence of neighbourly relationships in many developing countries from which most immigrants have come, and also because of the strong correlation that the previous research has shown between trust and many other aspects of social capital.

The bottom area of Table 3 points to the two social capital dimensions in which immigrants score higher than the native-born: confidence in public institutions, and religious engagement. The higher confidence in public institutions such as education, health care, and judiciary system is hardly surprising, given that most immigrants come from societies with either corrupt or dysfunctional public institutions. If nothing else, the functioning of such institutions in Canada demonstrate a higher degree of stability, more accountability, and less corruption, all of which are good reasons for immigrants to express more confidence in them. Having a basis for comparison allows immigrants to see the merits of Canadian public institutions in a way that might not be easily grasped by native-born Canadians. The higher engagement of immigrants in religious activities is also a reflection of the more religious cultures they may have come from, compared to a more secular population here in Canada, but it also is an indication of their need to be around those with whom they feel some affiliation, in terms of faith, language, or culture.
Discussion

The above findings have two important implications, one theoretical in nature, the other policy-related. The theoretical implication is derived from the results of PCA, which revealed 15 separate dimensions for social capital, at least in the Canadian context. More important, as it was shown in the case of immigrants and native-born Canadians, those dimensions, contrary to the implicit assumption of Robert Putnam, do not always go hand-in-hand with each other. In other words, improvement of social capital in certain dimensions might be accompanied with its deterioration in others. This can be a potentially important finding for the purpose of clarifying the empirical structure of what is known as social capital.

The second implication of the findings of the present study involves the social capital profiles of immigrant and native-born Canadians, and the areas in which they show disparity. As is obvious from the patterns which emerged, immigrants seem to be adding to the overall stock of social capital in Canada in the areas of confidence in public institutions – such as judiciary, government, police, welfare system, education, and health care – and involvement in religious activities. This is a positive phenomenon by itself. However, when taken alongside the emergent patterns for other dimensions it may mean a slightly different thing, something a bit more alarming.

The reason for the potentially alarming nature of the above combination is that most of the social capital dimensions in which immigrants fall behind are either those which involve social interactions with the host population – e.g., trust, neighbourliness, social networks, group activities, volunteering, etc. – or engagement with private sector – confidence in private institutions such as banks and major corporations. Social interaction is a two-way street, and cannot happen in the absence of a genuine effort by the non-immigrant population. Moreover, in most cases, such interactions need to be initiated by the native-born, as a message to newly-arrived immigrants that they are welcome and accepted in their new home countries. Lower levels of confidence in the private sector can also be viewed as related to immigrants’ experiences in the job market, housing market, with loan applications, etc. As someone with no easily recognizable credit history here in Canada, an immigrant can find him/herself fighting an uphill battle, with defeat being the most likely outcome. This uncertainty in the economic sector, and lack of genuine interactions in the social arena, might explain the heavier engagement of immigrants in self-interest-based social engagements such as membership in trade unions, as an antidote to the feeling of economic insecurity, and also their heavier engagement in their religious communities, as an antidote to their social isolation.

The good news is that immigrants’ higher confidence in public institutions can be seen as providing a hint as to the type of measures that need to be taken to mitigate the social capital deficits in other areas. Future studies should investigate the reasons behind immigrants’ more positive attitude towards the public sector, and try to find equivalent measures in the other two areas, social and economic.
References


Communities and Families Shape Transitions to Adulthood”, in Kay and Johnston (Eds.), Social Capital, Diversity and the Welfare State, Vancouver: University of British Columbia Press, Pp.219-250.


## Appendix 1: Principal Component Analysis
### Total Variance Explained

<table>
<thead>
<tr>
<th>Component</th>
<th>Initial Eigenvalues</th>
<th>Extraction Sums of Squared Loadings</th>
<th>Rotation Sums of Squared Loadings</th>
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Extraction Method: Principal Component Analysis.
Appendix 2: Composite Indexes

The following are a series of SPSS syntax commands used to calculate the composite indexes. Each index is equal to the respondent’s scores on the specific variables associated with each component, multiplied by the corresponding factor loading. The values have been then divided by the maximum values that could be acquired for each index, so that all index scores get reported as a fraction of 1, or the theoretical maximum. This standardized the scores so they vary between 0 and 1.

- COMPUTE Trust =
  \((trt\_q110\_rec*0.684)+(trt\_q310\_rec*0.486)+(trt\_q330\_rec*0.721)+(trt\_q390\_rec*0.695)+(trt\_q400\_rec*0.752))/((1*0.684)+(4*0.486)+(4*0.721)+(4*0.695)+(4*0.752)).
- COMPUTE Confidence_in_public_institution =
  \((trt\_q640\_rec*0.631)+(trt\_q650\_rec*0.635)+(trt\_q660\_rec*0.640)+(trt\_q670\_rec*0.621))/((0.631*1)+(0.635*1)+(0.640*1)+(0.621*1)).
- COMPUTE Voting =
  \((pe\_q110\_rec*0.877)+(pe\_q120\_rec*0.881)+(pe\_q130\_rec*0.780))/((1*0.877)+(1*0.881)+(1*0.780)).
- COMPUTE Religion =
  \((ce\_q114\_rec*0.781)+(religatt\_rec*0.843)+(rl\_q105\_rec*0.632))/((1*0.781)+(4*0.843)+(4*0.632)).
- COMPUTE Volunteering =
  \((ce\_q240\_rec*0.334)+(vcg\_q300\_rec*0.822)+(vcg\_q310\_rec*0.815))/((0.334*1)+(0.822*1)+(0.815*22.5)).
- COMPUTE Political_Party_Activism =
  \((ce\_q111\_rec*0.862)+(pe\_q230\_rec*0.870))/((1*0.862)+(1*0.870)).
- COMPUTE Neighbourliness =
  \((dor\_q228\_rec*0.879)+(dor\_q229\_rec*0.868))/((0.879*1)+(0.868*1)).
- COMPUTE Political_information_acquiring_sharing =
  \((pe\_q220\_rec*0.574)+(pe\_q250\_rec*0.576)+(pe\_q290\_rec*0.581)+(q110gd\_rec*0.357))/((1*0.574)+(1*0.576)+(1*0.581)+(1*0.357)).
- COMPUTE Confidence_private_institution =
  \((trt\_q680\_rec*0.728)+(trt\_q690\_rec*0.738))/((0.728*1)+(0.738*1)).
- COMPUTE Group_Activity =
  \((ce\_q112\_rec*0.742)+(ce\_q330\_rec*0.502)+(yer\_q110\_rec*0.570))/((0.742*1)+(0.502*4)+(0.570*1)).
- COMPUTE Political_expression =
  \((pe\_q260\_rec*0.676)+(pe\_q300\_rec*0.726))/((0.676*1)+(0.726*1)).
- COMPUTE Social_network =
  \((scf\_q100\_rec*0.566)+(scf\_q120\_rec*0.722))/((0.566*20)+(0.722*4)).
- COMPUTE Cultural_Community_participation =
  \((ce\_q113\_rec*0.519)+(ce\_q115\_rec*0.671))/((0.519*1)+(0.671*1)).
- COMPUTE Donation_Youth_Business =
  \((trt\_q700\_rec*0.387)+(vcg\_q340\_rec*0.462)+(yer\_q120\_rec*0.656))/((0.387*1)+(0.462*1)+(0.656*1)).
• COMPUTE Self_Interest=
  
$$ ((ce\_q110\_rec*0.455)+(ce\_q116\_rec*0.502)+(pe\_q310\_rec*1.609))/((0.455*1)+(0.502*1)+(1.609*3)). $$
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