MEASURING THE PROPENSITY FOR BUILDING SOCIAL CAPITAL DEPENDING ON TIES-STRENGTH

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Abstract

Purpose: This paper is addressing the question what personal characteristics help a leader to build social capital. The purpose is to present the development of a questionnaire to measure leaders' propensity for building social capital, depending on the perceived strength of bonds; it is also aimed at presenting the preliminary results of intercultural studies.

Design/methodology/approach: This paper starts with a review of the theory on social capital and Granovetter's concept of the "strength of weak ties." Next the process of the development of the related questionnaire is presented.

Findings: The developed questionnaire is a universal and reliable tool that can be used to study various social problems in di erent populations. The preliminary results of the questionnaire from 10 European countries suggest that the more distant the relationship is perceived the lower is the level of trust and sense of support. Moreover, data suggest that socio-economic organizations as well as those which are longer on the market obtained the highest results on the questionnaire's scales.

Social implications: In conclusion possible applications are discussed, including measuring the dynamics of change in individuals' preparedness to build social capital, depending on the social or political context, for example, the presumable "openness" during peaceful social activities or movements.

Originality/value: Social capital is commonly seen as a positive value, both in its individual and group dimensions, and several tools exist for measuring both. However, there seems to be a void and a need for a questionnaire measuring individual's propensity to develop social capital.

Keywords: social capital, strength of ties, weak links, trust, cooperation

Paper type: Research paper

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1. Introduction

The concept of Social Capital is becoming important (e.g. Trigilia, 2001) and popular (Portes, 2000). It is seen as essential especially in business (Tsai and Ghoshal, 1988; Bosma et al., 2004; Guthrie, 2009; DiMauro, 2015), where the leadership fostering social capital becomes critical (Gutiérrez et al., 2011; Roberts, 2013).

There is an increasing amount of business leaders fostering social capital and, through that, achieving a signi cant return, e.g.: Wilbert (Bill) Gore, the founder of W. L. Gore & Associates, Inc. (popular Gore) which in 2016 has annual sales of over \$3 billion and over 10.000 employees (all called associates) located in more than 25 countries (Deutschman, 2004; Hamel, 2007). Chris Rufer, the Founding CEO of The Morning Star Company which is the largest tomato processor in the world, handling nearly 40% of the tomatoes processed each year in the United States, with over 400 year-round employees producing over \$700 million in annual revenue (Hamel, 2011; Wartzman, 2012; Kirkpatrick, 2015). Ricardo Semler, the CEO of Semco Partners, who through building social capital, achieved in 2015 the annual revenue for over \$240 million, employing over 3.000 workers, all called "partners" (Semler, 1994; 1995; 2004; Maresco and York, 2005; Fisher, 2005; Draft, 2015).

However, there is much less literature documenting how social capital is implemented. Some studies depict concrete areas, e.g. how social entrepreneurs build social capital (Praszkier and Nowak, 2012), or are based on case studies (e.g. combating poverty in Mexico and Central America, Flores and Rello, 2003). However, there is a complete void as for appraising the individual properties which support building social capital. This seems a critical issue, as the knowledge on the required personality characteristics could, for example, contribute to the training of social activists. In respond to this need, the key question raised in this article is how to characterize and measure individual propensity for building social capital.

2. Theory

2.1. Social capital and its positive impact

There is consensus that, despite the vague de nition of social capital (Portes, 1998; Lin et al., 2001; Yang, 2007), it is predominantly perceived as an important value, both for individuals (Adler and Kwon, 2002; Brehm and Rahn, 1997; Burt, 1997; 2001; Coleman, 1988) and for groups or societies (Fine, 2001; Praszkier et al., 2009; Woolcock and Narayan, 2000). Moreover, many authors highlight the signic cance of social capital as a catalyst for economic growth (Baker, 2000; Claridge, 2004; Fukuyama, 2001; Maskell, 2000; Neace, 1999; Putnam, 1993).

Putnam de nes social capital as referring to features of social organization, such as trust, norms and networks, that can improve the e iciency of society

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by facilitating coordinated actions, enabling participants to act together more e ectively (Putnam, 1993; 1996). Several years later, he o ered another de nition (Putnam, 2000), saying that social capital refers to connections among individual – social networks and the norms of reciprocity and trustworthiness that arise from them.

Bourdieu (1986) de nes social capital as the aggregate of the actual or potential resources that are linked to the possession of a durable network, which consists of more or less institutionalized relationships of mutual acquaintance and recognition. Similarly, Coleman's de nition of social capital refers to aspects of social structure as resources that can be used by actors to realize their interests (1990). In simpler terms, social capital appears when a person's family, friends and associates constitute an important asset, one that can be called on in a crisis or enjoyed for its own sake (Woolcock and Narayan, 2000).

Social capital makes it easier to achieve certain ends (Baker, 2000; Coleman, 2000; Putnam and Gross, 2002). For example, it has been shown to reduce turnover rates (Krackhardt and Hanson, 1993) and facilitate entrepreneurship (Chong and Gibbons, 1997) and the formation of start-up companies (Walker et al., 1997). In particular, social capital is a critical factor in the ability to sustain bottom-up mechanisms (Woolcock, 1998). The power of bottom-up change mechanisms is seen as critical for the introduction of social change (McAdam, 1999; Piven, 2008).

There is some consensus that social capital is not only the institutionalized relationships between people, but also the shared values and understandings that enable individuals and teams to trust each other and so work together. Mutual trust reinforces societal development (Bourdieu, 2003; Coleman, 2000; Fukuyama, 1996). Higher trust yields better societal outcomes, and these in turn, raise the level of mutual trust, which, in its turn, positively in uences further results (Putnam, 1993). At the individual level also, social capital has positive outcomes. For example it empowers the individual to take some risk and explore new opportunities (Brehm and Rahn, 1997; Coleman, 1988); it also in uences career success (Burt, 1992; Gabbay and Zuckerman, 1998; Podolny and Baron, 1997). Social capital plays also a central role in promoting health (Song, 2013; Kawachi et al., 2009).

Knowing the positive impact of social capital, the central question becomes, what factors support its development? And especially, what personality characteristics help an individual build his or her own social capital?

2.2. Trusting at a distance: Strength of Ties

We posit that the propensity to build social capital is not inherent and that it depends, above all, on the perceived strength of the ties among individuals. For example we may tend to establish trusting and cooperative relationships in

Agata Zabłocka Ryszard Praszkier Ewa Petrushak Marta Kacprzyk-Murawska situations where we perceive the bonds as strong, e.g., with family members or long-term close friends, professional colleagues and well-known neighbors. On the other hand, we're typically slower to trust and cooperate with strangers.

Strong ties are relationships among people who work, live or play together; they engender a tendency for group members to think alike and reduce the diversity of ideas (Porter, 2007). Establishing weak ties requires cognitive exibility and an ability to function in complex organizations (Granovetter, 1973; 1995; Lin 2001).

Even though strong ties clearly play a crucial role in our lives, in particular in establishing and maintaining the norms and mutual understandings of a society, in certain situations weak ties have a greater in uence. Through his research on the acquisition of jobs, Granovetter (1973) found that the connections that proved most e ective in this context were not close friends but distant acquaintances; this led to the hypothesis that there is "strength in weak ties" (Barabási, 2003; Granovetter, 1973). Granovetter's studies con rmed that not only did weak ties result in greater job opportunities, but also that those who found jobs through strong ties were far more likely to have had a period of unemployment between jobs than those using weak ties (Granovetter, 1983; 1995). Weak ties can have such important consequences because they bridge the gap between groups — even distant groups — that may result in an individual nding productive opportunities unavailable in his own strongly knit groups (Granovetter, 1973; 1983). They not only provide access to heterogeneous resources but also enhance a person's opportunity for social mobility (Granovetter, 1973; 1995; Lin, 2001; Praszkier, 2012).

An absence of members with weak ties deprives a close-knit group of information from distant parts of the social system. Consequently its members are restricted to the provincial news and views of their close friends and thus may be isolated from new ideas and trends. They may also be poorly integrated into political or other goal-oriented movements (Granovetter, 1973; 1983; 1995). Whole societies lacking weak ties will become fragmented and not mutually supportive (Granovetter, 1983). Moreover, social leaders who perform e ectively do not limit themselves to the closest environment; instead, they install and maintain relationships based on weak ties (Praszkier and Nowak, 2012; Praszkier, 2012).

That being said, there has been considerable ambiguity over the de nition and operationalization of the weak-ties concept. On the one hand, Granovetter (1973) characterized the strength of a link by a combination (probably linear) of four indicators: (1) its longevity, (2) its emotional intensity, (3) the intimacy quotient, and (4) the reciprocal services. He conceded that those parameters are mostly intuitive. So far the concept has been based somewhat on subjective judgements and, consequently, it has been operationally de ned di erently by researchers to suit their particular research context (Petróczi et al., 2007).

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2.3.1. Trust

As mentioned before, trust is seen as an essential dimension of social capital. Trust, as it exists among neighbors, peers and group members, leads to a high level of solidarity. It is the key driver for undertaking cooperative actions (Bourdieu, 2003; Coleman, 2000; Cook et al., 2005; Fukuyama, 1996; Putnam, 1993; Tyler, 2003). Some authors equate trust with social capital, as in "Trust or social capital determines the performance of society's institutions" (La Porta et al., 1996).

With regard to individual propensity for developing social capital, we posit that trusting others, as a personality characteristic, plays an essential role (Praszkier et al., 2009; Praszkier and Nowak, 2012).

2.3.2. Cooperation

The second pivotal dimension of social capital is cooperation (Bouma et al., 2008; Knack and Keefer, 1997; Putnam, 1993; da Silva, 2006). It takes mutual commitment and cooperation from all parties involved to build social capital (Adler and Kwon, 2002). The more individuals are in regular contact with one another, the more likely they are to develop a "habit of cooperation" and act collectively (Wasko and Faraj, 2005). Cooperation, one of the central tenets of social capital, is seen as a value per se (Kenworthy, 1997; Maxwell, 2002; Praszkier and Nowak, 2012). We therefore suggest that willingness to cooperate, is a personality trait essential to a propensity for developing social capital.

2.3.3. Sense of Support

Adding to trust and cooperation, we posit that the third variable indicating an ability to build and develop social capital is Sense of Support. Sense of support is strongly related to a feeling of security in social relations and asserts their permanence. In that vein, all kinds of perceived support are signicant (emotional, informative, instrumental or spiritual), as is the perceived accessibility to this support (Tardy, 1985). Various research (Knoll and Schwarzer, 2004; Sheridan and Radmacher, 1998) demonstrate that participation in social networks and social contacts delivers positive experience and strengthens the security feeling, as well as the feeling that life is predictable and stable (S k, 2001).

Social capital can be an individual asset (Portes, 1998) de ned as features of social groups or networks that individuals can access and use to obtain further bene ts (Yang, 2007). Someone with a strong sense of support, through diversity of connections, opens up avenues to various, previously inaccessible resources. These assets empower the individual to take some risk and explore new opportunities (Brehm and Rahn, 1997; Coleman, 1988; Ellison et al., 2007; Praszkier and Nowak, 2012). The opposite – we call it the "Lone Ranger"

Agata Zabłocka Ryszard Praszkier Ewa Petrushak Marta Kacprzyk-Murawska syndrome – disregards the need for support from others. This individual is doomed to fail in the long run (Praszkier and Nowak, 2012), and is de nitely less able to develop social capital for others. Drawing from these theoretical presuppositions we assumed that three variables determine individuals' preparedness to foster social capital: A trusting attitude (Trust), Readiness for Cooperation (Cooperation) and Sense of Support (Sense of Support).

Furthermore, we assigned to each of these variables some questions, such as: I can count on others in di icult situations, There are people whom I can tell almost anything (Trust); People are more devoted to work when they are working in a team, Teamwork is more bene cial than working individually (Cooperation); There are people I can rely upon to help in various situations, I have many friends that I can count on (Support).

2.4. Strength of ties as an intuitive concept

In 2012–2013, we attempted to validate several sets of questions corresponding with a combination of Granovetter's four indicators. In ve separate pilot studies we tested diverse combinations of questions based on these four indicators. However, the reliability of the questions, as measured by their correlation with one another, was always insu icient (Cronbach's alpha less than 0.6), and the factor analyses always gave results that were unclear and so di icult to interpret. This strengthened other authors' indications that there was some incongruity in the components of Granovetter's original theoretical framework and con rmed that the best means of estimation is the subject's intuitive perception of his or her strength of ties.

Considering the inconsistencies mentioned in the literature and our own validation results, we decided to base assessment on the subjects' individual perception. In that vein, we ask in the questionnaire that the subject answer all the aforementioned Social Capital questions in relation to three di erent people whom they consider close, fairly close and distant to them (see the attached questionnaire).

3. Validation process

The Social Capital & Strenght of Ties SC&SoT scales (Trust, Cooperation and Support) were based on our previous SEQ questionnaire for measuring social capital (Praszkier et al., 2009), which was normalized on a representative sample of society (No=1002). The basic psychometric properties of the source-scales are presented in Table 1.

Table 1. Parameters of the SEQ psychometric scales after normalization

Scale	Number of questions	Mean	SD	Skewness	Kurtosis	Cronbach's alpha
Trust	7	20.17	4.04	082	010	.76
Sense of suport	8	26.88	5.44	241	439	.80
Cooperation	7	21.66	4.19	046	037	.68

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In order to assess psychometric properties of the original version of the questionnaire, the series of pilot study were conducted.

3.1. Bi- and Multi-lingual version

Our intention was to study both Polish and foreign populations, therefore, an English version of the questionnaire was created from the Polish language version. The conversion was done by translating the Polish nal version of the questionnaire into English and then from English back into Polish. A comparison of the two Polish versions showed that the translation was adequate. In particular cases a literal translation has been adapted to re ect the sense of the question (a travesty method).

4. Psychometric properties of Social Capital & Strength of Ties Ouestionnaire

The nal version was called SC&SoT (Social Capital and Strength of Ties) questionnaire. 108 bilingual students studying at various universities in Warsaw completed both the Polish and the English versions of the SC&SoT questionnaire.

4.1. The reliability of scales

The internal consistency of the questions relating to each of the three scales of social capital were found to be high in both languages. The skewness and kurtosis measures for each scale in both languages are similar. An item discrimination analysis showed that there was a high correlation of individual questions with their scale. The detailed results of psychometric properties of the questionnaire are presented in Table 2.

Version	Scale	Min	Max	Mean	SD	Skewness	Kur- tosis	Cronbach's alpha
	Trust ^a	9	25	21.26	4.05	-1.77	2.87	.81
	Sense of support ^a	9	25	20.82	3.77	-1.39	1.44	.61
	Cooperation ^a	6	25	20.36	4.77	-1.20	.99	.76
	Trust ^b	7	23	16.62	3.91	47	.21	.67
English	Sense of support ^b	6	24	16.77	4.05	59	.65	.74
	Cooperation ^b	9	25	19.27	4.54	52	81	.67
	Trust ^c	5	21	12.05	4.04	.21	33	.80
	Sense of support ^c	5	23	12.80	4.33	.28	17	.68
	Cooperation ^c	8	23	16.30	4.06	.15	99	.73

Table 2.
Psychometric
properties of
the English and
Polish version
of the SC&SoT
questionnaire – nal
studies

a - 'close people'
 b - 'fairly close people'

c – 'distant people'

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		Trust ^a	7	25	21.13	4.19	-1.80	3.04	.80
Agata Zabłocka Ryszard Praszkier Ewa Petrushak		Sense of support ^a	9	25	20.68	3.75	-1.17	.93	.65
	Polish	Cooperation ^a	6	25	20.28	4.43	-1.19	.99	.83
Marta Kacprzyk-Murawska		Trust ^b	7	23	16.50	3.66	41	.19	.75
		Sense of support ^b	7	24	16.70	3.94	51	25	.77
		Cooperation ^b	11	25	19.24	4.08	32	-1.01	.78
		Trust ^c	5	23	11.64	4.57	.55	20	.70
		Sense of support ^c	5	23	12.69	3.98	.24	18	.75
Table 2. cd		Cooperation ^c	7	23	15.93	4.18	18	75	.65

Table 2, cd

4.2. Equivalence of the two versions

In order to ascertain whether the Polish and English versions were equivalent, a number of correlation tests and dependent samples t-test of corresponding scales between the two versions were carried out; these are presented in the Table 3. All scales are characterized by high and very high positive correlations with their counterparts in the other language. Therefore these scales will achieve similar results in Polish and English-speaking populations.

Table 3. Scale correlation between the Polish and **English version** of the SC&SoT questionnaire

people

c - 'distant people'

Paire: Polish & English version	df	r	p
Trust ^a	112	.995	.000
Sense of support ^a	112	.874	.000
Cooperation ^a	112	.964	.000
Trust ^b	112	.969	.000
Sense of support ^b	112	.937	.000
Cooperation ^b	112	.956	.000
Trust ^c	112	.916	.000
Sense of support ^c	112	.960	.000
Cooperation ^c	112	.932	.000

4.3. Factorial validity

In order to verify the validity of the questionnaire, a factor analysis using the Maximum Likelihood method with a direct oblimin rotation was conducted separately for both versions. As we had no expectations with respect to cross correlation between the factors, the value of the delta parameter denoting the obliquity degree was set at zero. The choice of a factor analysis method was justi ed since a Kaiser-Mayer-Olkin test on our standardized data gave a KMO

a - 'close people' b - 'fairly close

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= 0.77 and 0.79 for the English and Polish versions, respectively. Additionally, the Bartlett's test of sphericity was found to be statistically signicant for both versions (English: 2(105)=1192.8; p<0.001; Polish (2(105)=1047.4; p<0.001).

Results mostly proved to be in line with our expectations. We received a three-factor solution in both language versions accounting for 60.3% and 55.7% of the variance in the English and Polish versions, respectively. In both language versions factors are strongly correlated, which is not surprising as they form a global index of social capital.

4.4. Using the SC&SoT questionnaire

Once the SC&SoT questionnaire has been administered, the results should be calculated in two phases.

First, the selected score on the reversed items should be recalculated using following formula: 1 going to 5, 2 going to 4, 3 going to 3, 4 going to 2, and 5 going to 1. Recalculating should be done in items 11, 13 in the Trust scale; 3, 9, 12 in the Support scale and items 2, 6, 14 in the Cooperation scale.

Next, the score for each scale should be obtained by summing the scores for the questions appropriate to that scale, using the key presented in Table 5. Raw scores will range from 5 to 25 for each of the scales. The higher the score, the higher the level of the feature.

Scale —	Ite	ms
Scale	Reversed questions	Normal questions
Trust	11, 13	1, 7, 8
Sense of Support	3, 9,12	5, 10
Cooperation	2, 6, 14	4, 15

Table 4. Answer key of the SC&SoT questionnaire for all type of relations: 'close people', 'fairly close people' and 'distant people'

5. Preliminary results of international studies

5.1. Participants

169 participants (43.2% female and 53.8% male, 3% no answer) took part in research. The average age was 43.36 (SD=11.89). The youngest interviewee was 21 years old and the oldest 72. 13 participants (7.7%) came from Scotland, 29 (17.2%) Italy, 10 (5.9%) Sweden, 22 (13%) Poland, 11 (6.5%) England, 10 (5.9%) Serbia, 26 (15.4%) Germany, 23 (13.6%) Austria, 4 (2.4%) France and 12 (7.1%) came from The Netherlands.

It should be noted that the test sample is not representative, what limits drawing conclusions about global relations. Results are only an approximation and illustrate potential directions and dependencies; they also reveal the potentials of the questionnaire.

Agata Zabłocka Ryszard Praszkier Ewa Petrushak Marta Kacprzyk-Murawska We identi ed four types of organizations, taking into account purpose they pursue: non-pro t (N=46; 27.2%), socio-economic (N=50; 29.6%), for-pro t (N=58; 34.3%) and other type (N=13; 7.7%). 2 subjects (1.2%) did not answer that question.

Additionally, we classi ed the organizations into three categories, taking into account only the year of established of the organization. We named them arbitrarily as follows: 'old enterprises' (established before 2006) (N=69; 40.8%), 'new generation' enterprises (established between 2006–2012) (N=62; 36.7%) and 'new born' enterprises (which were registered after 2012) (N=25; 14.8%). 13 subjects (7.7%) did not answer that question.

5.2. Results: Social capital in various types and categories of organizations

We analyzed the results of trust, sense of support and cooperation among di erent types and categories of organizations participating in the research.

5.3. Differences in trust level

In order to verify whether three types (in the following analysis we used three types of organizations: non-pro t, socio-economic, for pro t; we omitted 'other' category due to lack of su icient number of responses) and three categories of organizations di er in trust relations we used repeated measures schema: 3 (trust relations: close vs fairly close vs distant) x 3 (types of organization: non-pro t vs socio-economic vs for-pro t) x 3 (age-category: 'old' vs 'new generation' vs 'new born').

There was a signi cant main e ect for trust [Huynh-Feldt test: F(1.78, 240.11) = 94.54, p<0.001, 2=0.41]. Di erences between three types of relations were signi cant (p<0.001).

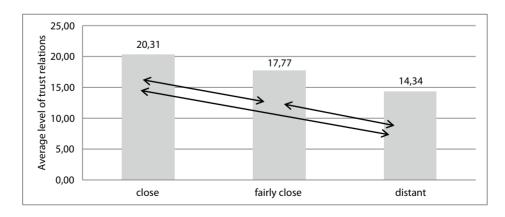


Figure 1. Level of trust depending on perceived closeness of relation (average number of contacts)

There was a signi cant main e ect for the type of organization (F(2, 135) = 5.73, p=0.004, 2=0.077). Only socio-economic organizations signi cantly di er from for-pro t organizations (p=0.003).

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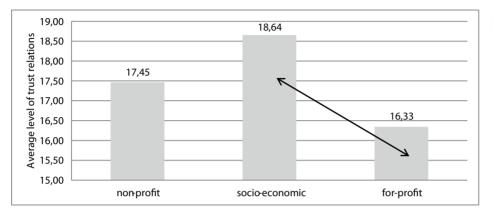


Figure 2. Level of trust depending on the type of organization (average number of contacts)

There was a signi cant main e ect for the organization age [F(2, 135) = 3.14, p=0.046, 2=0.044]. This result suggests that only 'old' enterprises signi cantly di ered from 'new born' enterprises (p=0.042).

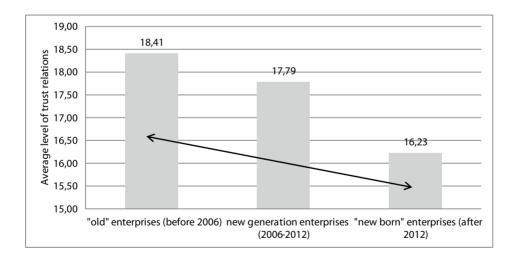


Figure 3. Level of trust depending on the category of organization (average number of contacts)

There were no signi cant interaction e ects for type and trust, trust and organization age, type and organization age and trust, type and organization age.

Agata Zabłocka Ryszard Praszkier Ewa Petrushak Marta Kacprzyk-Murawska 5.4. Differences in the level of Sense of Support from own social networks

In order to verify whether three types and three categories of organizations di er in the level of Sense of Support from own social networks in three types of relations we used repeated measures schema: 3 (sense of support: close vs fairly close vs distant) x 3 (type of organization: non-pro t vs socio-economic vs for-pro t) x 3 (age-category: 'old' vs 'new generation' and 'new born').

There was a signi cant main e ect for Sense of support from own social networks [Huynh-Feldt test: F(1.47, 211.93) = 72.5, p<0.001, 2=0.349]. Di erences between three types of relations were signi cant (p<0.001).

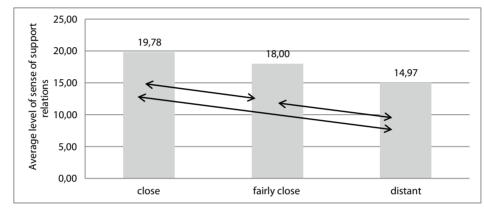


Figure 4. Sense of support from own social networks depending on closeness of relation (average number of contacts)

There was a signi cant main e ect for the type of organization [F(2, 135) = 6.05, p=0.003, 2=0.082]. This result suggests that only socio-economic organizations signi cantly di ered from for-pro t organizations (p=0.003).

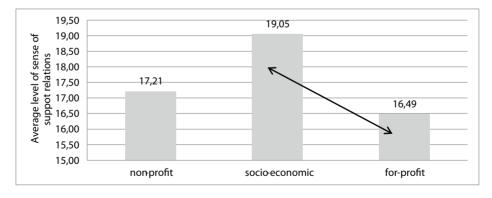
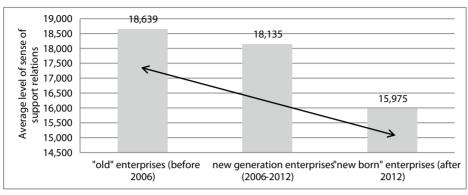


Figure 5. Sense of support from own social network depending on the type of organization (average number of contacts)

There was a signi cant main e ect for organization age [F(2, 135) = 3.788, p=0.025, 2=0.053]. Only "old" enterprises sig5(er)0.5(e)(0.5(e)0.5(a)0.5(n)0.5(b)0.5(e)0.



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Figure 6. Sense of support from own

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THE

social networks
depending on
the category of
the organization
(average number of
contacts)

There were no signi cant interaction e ects for the type and 'sense of support', 'sense of support' and organization age, type and organization age and 'sense of support', type and organization age.

5.5. Differences in the level of cooperation

In order to verify whether three types and three categories of organizations di er in the level of cooperation in three types of relations we used a repeated measures schema:

3 (cooperation relations: close vs fairly close vs distant) x 3 (type of organization: non-pro t vs socio-economic vs for-pro t) x 3(age-category: 'old' vs 'new generation' vs 'new born').

There was a signi cant main e ect for cooperation [Huynh-Feldt test: F(1.59, 214.93) = 6.16, p=0.005, 2=0.044]. There was a higher level of cooperation in distant relations comparing to fairly close relations (p=0.015) and to close relations (p=0.031).

There were no signi cant remaining main e ects and all interaction e ects.

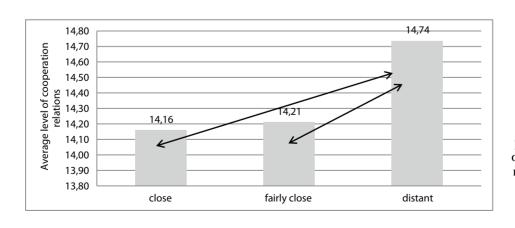


Figure 7.
Cooperation
depending on the
perceived closeness
of relations (average
number of contacts)

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6. Comments and conclusions

We have presented a research tool helpful to determine these leaders' characteristics which support building social capital. It has been shown that an abbreviated, yet reliable, questionnaire for measuring individuals' propensity to develop social capital can be paired with a measure of the strength of social ties resulting in a positive level of reliability. This approach, which circumvents the problem of ambiguity in theoretical de nitions of strength-of-ties and follows intuitional cues, has been shown to be operational.

The SC&SoT questionnaire is a universal tool that can be used to study various business and social problems in di erent populations. For example it might be used by a researcher interested in whether leaders with, say, higher empathy are prone to build trustful and cooperative relationships with less closely connected employees, or those with lower empathy may be more likely to trust only people in their close-knit circles. Another example: A researcher may want to verify the conjecture that innovators tend to develop social capital regardless of their strength of connections, as opposed to social activists, whose ability to build social capital may be limited to closely connected individuals.

Moreover, this questionnaire enables one to grasp individuals' propensity to develop social capital. The conjecture is that the intensity of the inclination may vary depending on the situation, e.g., it might be stronger during big, social and peaceful undertakings or transitions. The SC&SoT questionnaire may be used for testing whether or not members of disadvantaged communities tend to limit the distribution of SC to their own close-knit circles and whether, when experiencing a constructive transition, they tend to open up to the outer world and trust groups or individuals to which they are less closely connected. Similarly, it could enable tracking the dynamics of teams that decide to shift from top-down management to bottom-up initiatives and participation. It would be interesting to see whether or not team members would be prone to distribute social capital to less connected team members. Generally, the questionnaire could be used not only for individual assessment but also in comparative social studies.

The international pilot research should be seen as a documentation of tendency; the mostly interesting e ect can be observed in the eld of cooperation. Unlike the Trust and Sense of Support scales – the level of cooperation raises with the perceived distance of relationship which con rms Granovetter's theory also in other elds than his original studies.

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References Adler, P. S., Kwon, S. W. (2002), "Social capital: Prospects for a new concept", The

Academy of Management Review, Vol. 27 No. 1, pp. 17-40. DOI: http://dx.doi. org/10.5465/AMR.2002.5922314

- Baker, W. (2000), Achieving Success Through Social Capital, NY: Jossey-Bass, New York. Barabási, A. L. (2003), Linked, Massachusetts: A Plume Book, Cambridge.
- Brehm, J., Rahn, W. (1997), "Individual-Level Evidence for the Causes and Consequences of Social Capital", American Journal of Political Science, Vol. 41 No. 3, pp. 999–1023. DOI: http://dx.doi.org/10.2307/2111684
- Bosma, N., van Praag, M., Thurik, R., de Wit, G. (2004), "The Value of Human and Social Capital Investments for the Business Performance of Startups", Small Business Economics, Vol. 23 No. 3, pp. 227–236. DOI: http://dx.doi.org/10.1023/B:SBEJ. 0000032032.21192.72
- Bouma, J., Bulte, E., van Soest, D. (2008), "Trust and cooperation: Social capital and community resource management", Journal of Environmental Economics and Management, Vol. 56 No. 2, pp. 155-166. DOI: http://dx.doi.org/10.1016/j. jeem.2008.03.004
- Bourdieu, P. (2003), "The Forms of Capital", in: Halsey, A. H., Lauder, H., Brown, P., Wells, A. S. (Eds.), Education: Culture, Economy, Society, Oxford University Press, Oxford, pp. 46-58.
- Brehm, J., Rahn, W. (1997), "Individual-Level Evidence for the Causes and Consequences of Social Capital", American Journal of Political Science, Vol. 41 No. 3, pp. 999–1023. DOI: http://dx.doi.org/10.2307/2111684
- Burt, R. S. (1992), Structural holes: The social structure of competition, MA: Harvard University Press. Cambridge.
- Burt, R. S. (1997), "The Contingent Value of Social Capital", Administrative Science Quarterly, Vol. 42 No. 2, pp. 339–365. DOI: http://dx.doi.org/10.2307/2393923
- Burt, R. S. (2001), "Structural holes versus network closure as social capital", in: Lin, N., Cook, K. S., Burt, R. S. (Eds.), Social capital; theory and research, Aldine de Gruyter, New York, pp. 31–56.
- Chong, L., Gibbons, P. (1997), "Corporate entrepreneurship: The roles of ideology and social capital", Group and Organization Management, Vol. 22 No. 1, pp. 10–30. DOI: http://dx.doi.org/10.1177/1059601197221004
- Claridge, T. (2004), "Bene ts and Importance of Social Capital", available at: http://www. socialcapitalresearch.com/literature/theory/bene ts.html (accessed 29 January 2017).
- Coleman, J. S. (1988), "Social Capital in the Creation of Human Capital", The American Journal of Sociology, Vol. 94, pp. 95–12. DOI: http://dx.doi.org/10.1086/228943
- Coleman, J. S. (1990), The foundations of social theory, The Belknap Press of Harvard University Press, Cambridge.
- Coleman, J. S. (2000), Foundations of social theory, Massachusetts: Belknap Press, Cambridge.
- Cook, K. S., Hardin, R., Levi, M. (2005), Cooperation without Trust?, Russell Sage Foundation Publ, New York.
- Csermely, P. (2009), Weak links, Springer, Berlin.
- Da Silva, M. F. (2006), "Cooperation, social capital and economic performance", Revista

- de Economia Política, Vol. 26 No. 3, pp. 345–363. DOI: http://dx.doi.org/10.1590/S0101-31572006000300002
- Deutschman, A. (2004), "The Fabric of Creativity", available at: https://www.fastcompany.com/51733/fabric-creativity (accessed 29 January 2017).
- DiMauro, V. (2015), "Why Building Social Capital Matters In Business", available at: http://www.leadernetworks.com/2015/05/building-social-capital-matters-business. html (accessed 29 January 2017).
- Daft, R. L. (2015), Organization Theory and Design, MA: Cengage Learning, Boston.
- Ellison, N., Stein eld, C., Lampe, C. (2007), "The bene ts of Facebook "friends:" Social capital and college students' use of online social network sites", *Journal of Computer-Mediated Communication*, Vol. 12 No. 4, pp. 1143–1168.
- Fine, B. (2001), Social capital versus social theory: political economy and social science at the turn of the millennium, Routledge, London.
- Fisher, L. M. (2005), "Ricardo Semler Won't Take Control", available at: http://www.strategy-business.com/article/05408?gko=3291c (accessed 29 January 2017).
- Flores, M., Rello, F. (2003), "Social capital and poverty: Lessons from case studies in Mexico and Central America", *Culture & Agriculture*, Vol. 25 No. 1, pp. 1–10. DOI: http://dx.doi.org/10.1525/cag.2003.25.1.1
- Fukuyama, F. (1996), *Trust. The social virtues and the creation of prosperity*, A Free Press Paperbacks, New York.
- Fukuyama, F. (2001), "Social capital, civil society and development", *Third World Quarterly*, Vol. 22 No. 1, pp. 7–20. DOI: http://dx.doi.org/10.1080/713701144
- Gabbay, S. M., Zuckerman, E. W. (1998), "Social capital and opportunity in corporate R&D: The contingent e ect of contact density on mobility expectations", *Social Science Research*, Vol. 27 No. 2, pp. 189–217. DOI: http://dx.doi.org/10.1006/ssre.1998.0620
- Granovetter, M. S. (1973), "The Strength of weak ties", *The American Journal of Sociology*, Vol. 78 No.6, pp. 1360–1380. DOI: http://dx.doi.org/10.1086/225469
- Granovetter, M. S. (1983), "The strength of weak ties: a network theory revisited", *Sociological Theory*, Vol. 1 No. 1, pp. 201–233. DOI: http://dx.doi.org/10.2307/202051
- Granovetter, M. S. (1995), *Getting a job: a study of contacts and careers*, IL: University of Chicago Press, Chicago.
- Lock Lee, L., Guthrie, J. (2008), "The Role of Corporate Social Capital in Business Innovation Networks", presented to the International Forum on Knowledge Asset Dynamics, 26–27 June 2008, Matera, Italy, available at: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=1358752 (accessed 29 January 2017).
- Gutiérrez, N. L., Hilborn, R., Defeo, O. (2011), "Leadership, social capital and incentives promote successful sheries", *Nature*, Vol. 470 No. 7334, pp. 386–389.
- Hamel, G. (2007), *The Future of Management*, MA: Harvard Business Review Press, Boston.
- Hamel, G. (2011), "First, Let's Fire All the Managers", available at: https://hbr.org/2011/12/rst-lets-re-all-the-managers (accessed 29 January 2017).
- Kawachi, I., Subramanian, S. V., Kim, D. (2009), "Social Capital and Health. A Decade of Progress and Beyond", in: Kawachi, I., Subramanian, S. V., Kim, D. (Eds.), *Social Capital and Health*, pp. 1–26.

Agata Zabłocka Ryszard Praszkier Ewa Petrushak Marta Kacprzyk-Murawska

- Kenworthy, L. (1997), "Civic engagement, social capital, and economic cooperation", *American Behavioral Scientist*, Vol. 40 No. 5, pp. 645–656. DOI: http://dx.doi.org/10.1177/0002764297040005010
- Kirkpatrick, D. (2015), "12 Keys to the Workplace of the Future", *Huffington Post, Huff-Post Business*, available at: from: http://www.hu ingtonpost.com/great-work-cultures/twelve-keys-to-the-workpl_b_7986378.html (accessed 29 January 2017).
- Knack, S., Keefer, P. (1997), "Does Social Capital Have an Economic Payo? A Cross-Country Investigation", *The Quarterly Journal of Economics*, Vol. 112 No. 4, pp. 1251–1288. DOI: http://dx.doi.org/10.1162/003355300555475
- Knoll, N., Schwarzer, R. (2004), "Prawdziwych przyjaciół... Wsparcie społeczne, stres, choroba i mier" in: S k, H., Cie lak, R. (Eds.), *Wsparcie społeczne, stres i zdrowie*, PWN, Warszawa, pp. 29–48.
- Krackhardt, D., Hanson, J. R. (1993), "Informal networks: The company behind the chart", *Harvard Business Review*, Vol. 71 No. 4, pp. 104–111.
- La Porta, R., Lopez-de-Silanes, F., Shleifer, A., Vishny, R. W. (1996), "Trust in Large Organizations", working paper 5864, *National Bureau of Economic Research Cambridge*, December 1996.
- Lin, N. (2001), Social capital: a theory of social structure and action, Cambridge University Press, Cambridge.
- Lin, N., Cook, K., Burt, R. S. (2001), "Preface", in: Lin, N., Cook, K., Burt, R. S. (Eds.), *Social Capital: Theory and Research*, Aldine de Gruyter, New York, pp. 7–12.
- Maresco, P. A., York, C. C. (2005), "Ricardo Semler: Creating Organizational Change Through Employee Empowered Leadership", *Academic Leadership Online Journal*, available at: http://www.newunionism.net/library/case%20studies/SEMCO%20-%20 Employee-Powered%20Leadership%20-%20Brazil%20-%202005.pdf (accessed 29 January 2017).
- Maskell, P. (2000), "Social Capital, Innovation, and Competitiveness", in: Baron, S., Field, J., Schuller, T. (Eds.), *Social capital; critical perspective*, Oxford University Press, New York, pp. 111–123.
- Maxwell, J. C. (2002), *Teamwork Makes The Dreamwork*, TN: Thomas Nelson, Nashville. McAdam, D. (1999), *Political Process and the Development of Black Insurgency*, 1930–1970, The University Of Chicago Press, Chicago.
- Neace, M. B. (1999), "Entrepreneurs in emerging economies: creating trust, social capital, and civil society", *The ANNALS of the American Academy of Political and Social Science*, Vol. 565 No. 1, pp. 148–161.
- Petróczi, A., Nepusz, T., Bazsó, F. (2007), "Measuring tie-strength in virtual social networks", *Connections*, Vol. 27 No. 2, pp. 39–52.
- Piven, F. F. (2008), "Can power from below change the world?", *American Sociological Review*, Vol. 73 No. 1, pp. 1–14. DOI: http://dx.doi.org/10.1177/000312240807300101
- Podolny, J. M., Baron, J. N. (1997), "Resources and relationships: Social networks and mobility in the workplace", *American Sociological Review*, Vol. 62 No. 5, pp. 673–693. DOI: http://dx.doi.org/10.2307/2657354
- Porter, J. (2007), "Weak ties and diversity in social networks", available at: http://bokardo.com/archives/weak-ties-and-diversity-in-social-networks (accessed 29 January 2017).
- Portes, A. (1998), "Social capital: Its origins and applications in modern sociology",

- Annual Review of Sociology, Vol. 24, pp. 1–24. DOI: http://dx.doi.org/10.1146/annurev.soc.24.1.1
- Portes, A. (2000), "Social Capital: Its Origins and Applications in Modern Sociology", in: Lesser, E. L. (Ed.), *Knowledge and Social Capital: Foundations and Applications*, MA: Butterworth-Heinemann, Boston, pp. 43–67.
- Praszkier, R. (2012), "Social entrepreneurs open closed worlds: the transformative in uence of weak ties", in: Nowak A., Bree, D., Nowak-Winkowska, K. (Eds.), Complex Human Dynamics. From Mind to Societies, New York: Springer, New York, pp. 111–129.
- Praszkier, R., Nowak, A., Zabłocka-Bursa, A. (2009), "Social capital built by social entrepreneurs and the speci c personality traits that facilitate the process", *Social Psychology* [Psychologia Spoleczna], Vol. 4 No.10–12, pp. 42–54.
- Praszkier, R., Nowak, A. (2012), Social Entrepreneurship: Theory and Practice, NY: Cambridge University Press, New York.
- Putnam, R. D. (1993), "The Prosperous Community: Social Capital and Public Life", *The American Prospect*, Vol. 13, pp. 35–42.
- Putnam, R. D. (2000), *Bowling alone. The collapse and revival of American community*, Simon and Shuster, New York.
- Putnam, R. D., Gross, K. A. (2002), "Introduction," in: Putnam, R. D. (Ed.), *Democracies in Flux*, Oxford University Press, New York, pp. 3–19.
- Semler, R. (1994), "Why My Former Employees Still Work for Me", *Harvard Business Review*, available at: from: https://hbr.org/1994/01/why-my-former-employees-still-work-for-me (accessed 29 January 2017).
- Semler, R. (1995), Maverick: The Success Story Behind the World's Most Unusual Workplace, Warner Books, Inc., New York.
- Semler, R. (2004), *The Seven-Day Weekend: Changing the Way Work Works*, Portfolio, New York.
- S k, H. (2001), *Wprowadzenie do psychologii klinicznej*, Wydawnictwo Naukowe Scholar, Warszawa.
- Sheridan, C. L., Radmacher, S. A. (1998), *Psychologia zdrowia. Wyzwanie dla biomedy-cznego modelu zdrowia*, Instytut Psychologii Zdrowia PTP, Warszawa.
- Song, L. (2013), "Social Capital and Health", in: Cockerham, W. C. (Ed.), *Medical Sociology on the Move*, NY: Springer, New York, pp. 233–257.
- Tardy, C. H. (1985), "Social Support measurement", *American Journal of Community Psychology*. Vol. 13 No. 2, pp. 187–202. DOI: http://dx.doi.org/10.1007/BF00905728
- Trigilia, C. (2001), "Social Capital and Local Development", European Journal of Social Theory, Vol. 4 No. 4, pp. 427–442. DOI: http://dx.doi.org/10.1177/13684310122225244
- Tsai, W., Ghoshal, S. (1988), "Social Capital and Value Creation: The Role of Intra rm Networks", *The Academy of Management Journal*, Vol. 41 No. 4, pp. 464–476. DOI: http://dx.doi.org/10.2307/257085
- Tyler, T. R. (2003), "Why Do People Rely on Others? Social Identity and Social Aspects of Trust", in: Cook, K. S. (Ed.), *Trust in Society*, Russell Sage Foundation Publ., New York, pp. 285–306.
- Yang, K. (2007), "Individual Social Capital and Its Measurement in Social Surveys", *Survey Research Methods*, Vol. 1 No. 1, pp. 19–27.
- Walker, G., Kogut, B., Shan, W. (1997), "Social capital, structural holes and the formation

of an industry network", *Organization Science*, Vol. 8 No. 2, pp. 109–125. DOI: http://dx.doi.org/10.1287/orsc.8.2.109

MEASURING THE PROPENSITY

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Wartzman, R. (2012), "If Self-Management Is Such a Great Idea, Why Aren't More Companies Doing It?", *Forbes*, available at: http://www.forbes.com/sites/drucker/2012/09/25/self-management-a-great-idea/#236400a942a2 (accessed 26 January 2017).

Wasko, M. M., Faraj, S. (2005), "Why Should I Share? Examining Social Capital and Knowledge Contribution in Electronic Networks of Practice", *Management Information Systems Quarterly*, Vol. 29 No. 1, pp. 35–57.

Woolcock, M. (1998), "Social capital and economic development: Toward a theoretical synthesis and policy framework", *Theory and Society*, Vol. 27 No. 2, pp. 151–208.

Woolcock, M., Narayan, D. (2000), "Social capital: implications for development; theory, research, and policy", *The World Bank Research Observer*, Vol. 15 No. 2, pp. 225–249.

Appendix

QUESTIONNAIRE SC & SoT

Age:																							
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Gender: Female Male

Please read carefully the following instruction before you answer the questions.

The questionnaire consists of 15 statements. It was created to understand your beliefs about people from your environment who are CLOSE TO YOU, people who are FAIRLY CLOSE TO YOU and people who are DISTANT TO YOU. Please, remember that there are no "good" or "bad" answers. All answers are correct as long as they represent your sincere opinions.

Read each of the following statements carefully. Please circle in the boxes the following numbers depending on how much you agree with the following statements:

- 1 strongly disagree
- 2 disagree
- 3 neutral
- 4 agree
- 5 strongly agree

At this point please re ect and select the following people:

- close to you
- fairly close to you

- distant to you

Agata Zabłocka Ryszard Praszkier Ewa Petrushak Marta Kacprzyk-Murawska Read the following statements and relate them to the mentioned categories of people. Please, answer each of the statements.

No.	When I imagine the selected group I think that	I imagine people CLOSE TO ME	I imagine people FAIRLY CLOSE TO ME	I imagine people DISTANT
1	I usually trust people.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
2	It's better to work alone than in a team.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
3	I agree with the saying: the only person you can depend upon is yourself.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
4	People are more devoted to work when they are working in a team.	12345	12345	12345
5	There are people I can rely upon to help in various situations.	1 2 3 4 5	12345	1 2 3 4 5
6	You can gain more by working on your own instead of working in a team.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
7	I can count on others in di icult situations.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
8	There are people whom I can tell almost anything.	1 2 3 4 5	12345	1 2 3 4 5
9	I believe that if I was in trouble then others would abandon me.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
10	I have many friends that I can count on.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
11	In general, people only care about themselves.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
12	There are situations when I would want to talk with someone, but there is no one to talk to.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
13	People tend to be nice only when they want something from me.	1 2 3 4 5	12345	1 2 3 4 5
14	If working in a team some people don't feel responsible for the results	1 2 3 4 5	12345	1 2 3 4 5
15	Team-working brings more bene t than working individually.	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5

Please indicate the type of relationship with the person (Multiple answers possible)

When you think about people CLOSE TO YOU

- 1. friend
- 2. relative
- 3. schoolmate
- 4. colleague at work
- 5. neighbor

6. other, please describe:
When you think about people FAIRLY CLOSE TO YOU
1. friend
2. relative
3. schoolmate
4. colleague at work
5. neighbor
6. other, please describe:
•
When you think about people DISTANT TO YOU
1. friend
2. relative
3. schoolmate
4. colleague at work
5. neighbor
6. other, please describe:
When was your organization legally founded?
What kind of organization do you represent?
- non-pro t
- socio-economic
- for-pro t
- 101-pro t - other
- Ulici

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