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Full Length Research Paper

Development of synergistic climate scale: The reliability and validity of Turkish and Slovakian forms

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The purpose of this research is to develop a Synergistic Climate Scale (SCS) that can be used in organizations. Firstly prepared with 20 items, the scale was examined by five experts for its content validity, readability and intelligibility. As a result, two items were added to the scale, after experts' views. In the development of Turkish draft form of the scale in line with expert opinions, the form was employed to a sample of 242 master degree students that major in Education Management and Inspection Program co-maintained by Zirve University and Kahramanmaras Sütcü Imam University and 20 master degree students that attend the same program in Harran University; Education Management and Inspection. In total, 262 students filled the draft form. In the development of Slovakian draft form of the scale, it was employed to a sample of 154 participants; that is, 103 teachers and 16 principals getting in-service training in Slovakia Pedagocika Institute located in Vinne District and also 35 academicians working in Ruzomberok Catholic University. The structure validity was tested through exploratory factor analysis and confirmatory factor analysis. Cronbach's Alpha internal consistency coefficient was calculated to determine the reliability. As a result of the analysis, it was seen that Turkish form has two factors and 16 items while Slovakian form has 3 factors and 15 items. It is accepted the perceptions of persons toward synergistic climate of the organization will increase as the points got from the scale increase. The reverse is accepted to happen if the points got from the scale decrease.

Key words: organizations, organization climate, synergy, Synergistic Climate Scale.

INTRODUCTION

In studies done about organization in recent years, a special emphasis has been put on synergistic management and synergy among members of an organization (Amabile, 1997; Chou, 2007; Bititci et al., 2007; Rejeb, Morel-Guimaraes et al., 2008; Carlborg et al., 2013; Chen and Chen, 2013). The desire for change felt more with each passing day in the society keeps affecting the organizations and their activities in deep way. This desire

requires organizations to have changes in their structure, perspectives about their environment and new insights in the way of doing business. No matter how organizations are established, all organizations are in need of power for survival and development. Synergy is an important part of survival and development. In this sense, synergy among employees can be said to become a necessity for an organization to be successful. These facts inevitably

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Authors agree that this article remain permanently open access under the terms of the <u>Creative Commons</u> <u>Attribution License 4.0 International License</u> require today's organizations to employ more strategic applications and policies. It is necessary to have a suitable climate in the organization to develop these applications and policies for the organization. In this regard, the synergistic climate of organization bears paramount importance.

Synergy

It is a known fact people work better as group than they are alone. The best example is seen in birds that fly in V formation. However, there comes the question whether just forming a group is enough for all it takes? The answer lies in "synergy".

Synergy comes from the Greek word synergia which means "working together" (Wikipedia). This term has been used in different senses through the centuries. In contemporary literature, synergy can be noted as the degree to which a partnership combines the assets of all the partners such as relationships, values, strengths, perspectives and resources for better solutions that lead better group performance and harmony (Jones and Barry, 2011). In this sense, synergy leads to desired outcomes though combination of group powers in harmony. Similarly, Dahl (2000) found out that synergy leads to the high levels of energy, cooperation, trust, and enthusiasm. So, synergy should be given attention in group development processes; Forming, Storming, Norming, Performing and Adjourning for more rewarding desired results.

Synergy is an advantage that partnerships or any other collaborative groups gain by involving different people in work and considering partnerships in terms of synergy can help the leaders of the organization appreciate and optimize the roles of all organization stakeholders (Lasker and Weiss, 2003). Synergy bears a holistic approach and thus asserts the idea "a whole is greater than the sum of the parts". Synergy produces unity and is essential for an environment that seeks to foster good climate in organization. According to Parmelee (2006) synergistic relationship implies that each actor is changed, supported and empowered by the other side.

Organizations may encounter difficulties in solving problems and their best person may not be sufficient in solving the case. So it is needed to have groups with synergy to address the problems. The groups may work in collaboration and act together, but they need to support each other by leveraging, combining and taking advantage of their supplementary strengths and capabilities for having synergy. According to Lasker et al. (2001), the synergy that actors in an organization seek to attain through collaboration is more than a mere exchange of resources and the synergy created by collaboration can be very powerful. It is something about forming a result, very different from its parts.

With some studies in previous years, synergy is not confined to only person to person, group behaviors or

relationships; it is also researched in some following cognitive studies. Synergy that is based on partnership and collaboration also play important roles in rationality of decision process of the groups (Curşeu et al., 2013). In line with this, Curşeu and Schruijer (2012) claim that group norms fostering collaboration and participation forms a group synergy that finally *"leads to the emergence of complex collective cognitive structures, better decision quality, and higher group rationality"*. So formation of synergy could contribute into better decision quality among the actors or stakeholders and rationality in groups.

Synergistic management

Actions, works and mental activities that people can do alone are limited. However, when they come together as an effective group, there occurs even greater energy than they can image and everything is put into order in a short time with near-perfect results (Gürlek, 2010: 1). The concept of synergistic management founded on the function of the interaction and communication between the participants refers to an integrative and participative approach to management. Also, the concept of synergistic management can be defined as "the process of combination of all sources in organization such as human, information, systems, hardware under an effective leadership and thus forming a higher energy "(Cook, 1999: 101, as citied in Özdevecioğlu and İnce, 2012: 31).

According to Aktan (1999), synergistic management refers to formation of teamwork dissemination, ensuring employees' participation in decision-making and management process, using all sources such as people in the organization, information, system, hardware etc. to have multi-functional working groups, which contribute to higher energy in the organization. Synergistic management model could be said to be an effective leadership for forming a culture for the organization and individuals in the formation of energy for group goals.

Forming a 'total quality culture' and 'sharing culture' in the organization is the basis for synergistic management. In order to place synergistic management process in the organization, a shared vision, knowledge, work, authority and responsibility etc. must be available (Aktan, 2005: 204). To institutionalize synergistic management in the organization, there are main characteristics to be owned by higher board and organization leaders (Tecim, 2005: 40): 1. Written communication 2. Oral communication 3. Problem solving, 4. Benefiting from the abilities of people, 5. Gender, race and ethnic-cultural structure in the organization, 6. Vision, 7. Creative thinking, 8. Flexibility, 9. Power of decision-making, 10. Leadership, 11. Disputes, 12. Delf-directedness, 13. Interviews and cooperation, 14. Planning and evaluation, 15. Financial management, 16. Human resource management, 17. Providing services to clients, 18. Being aware of external

environment, 19. Group study, 20. Technology management, 21. Internal control/integrity, 22. Technical competence.

Organization climate

Gök (2009: 590) defines organizational climate as an atmosphere demonstrating the intrinsic properties of the organization and formed by shared perceptions, employees' attitudes and behaviors. Forehand and Von Haller (1964: 362; as citied by Gök, 2009: 590) defines organizational climate as group of properties describing the organization and distinguishing it from other organizations and influencing the behavior of people in the organization.

The literature on organizational climate has multidimensional structure and these dimensions were examined by different researchers from different aspects (Fleishman, 1953; Argyris, 1958; Forehand and Haller, 1964; Pritchard and Karasick, 1973; Dachler, 1974; James and Jones, 1974; Lyon and Ivancevich, 1974; Vidaver-Cohen, 1998; Burton et al., 2004; Patterson et al., 2004; Bock et al., 2005). These studies examined organizational climate in terms of leadership, human relations, supervision, environment, managerial job performance, job satisfaction, motivation, morale, climate, firm performance, the impact of strategic conformity, efficiency etc. In this study, a synergistic climate scale that will reveal organization synergistic climate features is focused on.

Synergistic climate

Synergistic management is a model that highlights interaction, communication, sharing, teamwork, cooperation among individuals, co-ordination, delegation of power, total participation (Gürlek, 2010: 4). Synergistic organizational climate can be described as an atmosphere of cooperation or solidarity among employees in group dynamics and organizational adaptation based on harmony, goal congruence and vision. In short, organizational culture in the dimensions of goal congruence, vision, group dynamics and solidarity.

Synergistic organizational climate; organization of employees in group dynamics and organizational adaptation based on solidarity, goal congruence and vision can be described as the atmosphere of the working environment they have. In a nutshell, organizations with synergistic climate; goal congruence, harmony, group dynamics, vision, solidarity size of a corporate culture must be available.

Goal congruence dimension

The purpose is consciously choosing a clear instruction

using skills and abilities of team, contributing to the organization and directing team members. Businesses like individuals must have a good reason for existence. The most important condition for a high-performing team is sharing the same goal by the team members. In this sense, synergy can be defined as staying focused on the target with a high motivation around a shared purpose (Balay and Müjdeci, 2013). While Gürlek (2010: 19) highlights managers, employees, team collaboration, common purpose, power delegation to employees, the value given to people, seeing the whole, vision and planning as factors that comprise synergistic management; Aktan (1999: 27) specifies that unity of action and purpose is necessary for synergy in the organization.

Harmony dimension

Employees need to be adapted to the working environment in order that efficient use of human resources can be provided. Employee and organization harmony describes the relationship between individual identity and organizational climate, individual and organizational goals, individual needs, organizational systems and structures (Kristof, 1996). Studies argue that increase in employees' organizational harmony enables more positive outputs related to work (French et al., 1982; Lovelace and Rosen, 1996).

In his definition of synergistic management regarding harmony among employees, Gürlek (2010:4) specifies that synergistic management is a model that includes unity of power between individuals, cooperation, total participation, delegation of power, team work, sharing, coordination, harmony among employees, acting together, communication and interaction, which are to be placed into center of management.

Group dynamics dimension

Group dynamics is the examination of power styles enforced on groups and individuals by the persons (Reeves, 1970, p. 12). According to Willard (1994), "teamwork culture" must be formed within the organization in order to form a synergistic situation. This teamwork will be a critical step in terms of forming a culture of continuous learning environment.

According to Gürlek (2010: 12), synergy is 'revealing the power', which is hard for persons to do alone, by coming together and using group dynamics. Synergy is the energy that moves the group (Aktan, 2005: 173). According to Aktan (1999), synergistic management is formation of multi-functional working groups in the organization. According to Tecim (2005: 40), one of the main characteristics for top management to institutionalize synergistic management in the organization is group work.



Figure 1. The relationship between synergistic climate and its dimensions.

Vision dimension

Vision is a specific thought of a person which has not been achieved in the past and has not been considered till now and which is explicitly expressed about what to be done. It expresses personal perspective of a person, his depth, dream and untested ideas. Basic of synergistic management is the availability of organizational culture regarding vision sharing, information sharing, worksharing and gain-sharing and sharing of authority and responsibility (Aktan, 2005: 204). According to Tecim (2005: 40), another main characteristic for top management to institutionalize synergistic management in the organization is vision.

Solidarity dimension

The most common purpose of teamwork is to build group based on support and trust to complete works as desired and value their differences, attitudes and skills while doing so.

According to Dereli and Baykasoğlu (2010: 5), synergy is defined as positive energy revealed under different abilities and as resulting added value. When three 1 is added, it makes 1+1+1=3; however, when these three numbers get side by side, you get 111. The same can be said about all other numbers. So when members in organization get in the same line with the same vision and goal, the power of synergy can be attained. In turn, as Figure 1 presents, Synergistic Climate is bigger than its dimensions of Goal Congruence, Harmony, Group Dynamics, Vision, and Solidarity.

Various activities and works can contribute to support and solidarity among members. Solidarity based relationship is for the benefit of the parties and members and it is based on clear, common goals and shared interests.

This study bears paramount importance as there has been found no other research in literature regarding development and use of synergistic climate scale for organizations. In addition, this scale is important in that; 1- It assesses synergistic climate in organization thoroughly via dimensions of Goal Congruence, Harmony, Group Dynamics, Vision, and Solidarity. 2- It is a scale that can be employed for all sorts of organizations.

Purpose

The purpose of this paper is to develop a Likert type Synergistic Climate Scale (SCS) to be used in organizations.

METHODS

This study was done in accordance with descriptive scanning model. The information about sample of the study, development of data collection tool and techniques used in data analysis is given below.

Study group

This study was realized with 416 academicians, administrative personnel and students in 8 faculties shown in Table 1.

As shown in Table 1, 242 participants (%92.4) are from Zirve University -K. Maraş Sütçü İmam University Education Management and Inspection Shared Program, 20 participants (%7.6) are from Harran University - Social Sciences Institute Education Management and Inspection Program. The participants from Slovakia are by groups; 103 teachers (66.9%) and 16 principals (%10.4) from schools of Vinne District and 35 academicians (22.7%) from Ruzomberok Catholic University.

Development of the data collection tool

While writing items for this scale, literature was reviewed about "perceptions of synergistic climate". The related theoretical information was taken into consideration. After detailed scanning, 20 items for assessing the dimensions of Goal Congruence, Harmony, Group Dynamics, Vision, and Solidarity within Synergistic Climate were written. The items-pool was presented to 5 experts in the fields of education management and inspection, testing and assessment so that they could examine the items. These items were increased to 22 with field experts' opinions. Data collection tool was presented in Likert type draft form; from *I absolutelydisagree* (1) to *I absolutely agree* (5).

Analysis of the data

The information related to analysis of data collected in the study is

Table 1. Distribution of participants by country.

Turkey	F	%
Zirve University -K.Maraş Sütçü İmam University Education Management and Inspection Program Master Degree Students	242	92.4
Harran University –Social Sciences Institute Education Management and Inspection Program Master Degree Students	20	7.6
Total	262	100.0
Slovakia	F	%
Teachers (from Schools of Vinne District)	103	66.9
School Managers (from Schools of Vinne District)	16	10.4
Academicians (Ruzomberok Catholic University)	35	22.7
Total	154	100.0

presented in this part. The 22 itemed scale developed in this study was presented to 262 participants in Turkey and 154 participants in Slovakia. The item test correlations, exploratory factor analysis, confirmatory factor analysis, Cronbach's Alpha, Kaiser-Meyer-Olkin (KMO) coefficient and Bartlett Sphericity tests were used to prove reliability and validity of the data.

Validity: Validity of the scale was examined with Exploratory Factor Analysis and Confirmatory Factor Analysis. Exploratory Factor Analysis aims at reaching meaningful structures at lesser numbers of factors (Büyüköztürk et al., 2011).

Exploratory Factor Analysis: Validity of a scale depends on how much it assesses a variable that is intended. Validity tests are generally done with theoretical analyses (Reuterberg and and Gustafsson, 1992). One of these theoretical analyses is called construct validity which foresees to what extent items are related to the variable intended to be assessed. In this study, factor analysis is given place as theoretical analysis. Factor analysis is one of the most used methods in proving construct validity of a scale (Bacon et al., 1995). The first method to be used within the scope of factor analysis is Exploratory Factor Analysis. This analysis is done to find out whether items are loaded into smaller number of factors or not. The items collected in the same factor group are given a name depending on features of item content (Balcı, 2005).

FINDINGS

Exploratory and confirmatory factor analysis and reliability, item analyses are explained in the findings part.

Exploratory Factor Analysis (EFA) Findings

Turkish Form EFA Findings

To collect data for construct validity of the scale, "rotated principal components analysis" was used. Kaiser-Meyer-Olkin (KMO) coefficient and Bartlett Sphericity test were employed to examine whether data were suitable for principal components analysis. KMO coefficient is a statistical method to prove whether the sample of items is adequate for a factor analysis or not. Data are admitted to be appropriate for analysis if KMO coefficient takes a value close to 1 and a perfect match if it is 1. Upon the analysis completed, KMO was found to be .972.

Normal distribution is necessary to use parametric methods. Bartlett Sphericity test is a statistical technique to test whether variances are equal across groups or samples. If chi-square test result is significant, it means data come from multivariate normal distribution. Bartlett test was found to be significant in the study (χ^2 =8568,53; p<.05). EFA was employed to reach a meaningful construct regarding persons' synergistic climate perceptions and reveal constructs named factors.

After EFA, 6 items were removed from 22 item scale since these were found to be non-conforming with the construct of the scale or they loaded strongly on more than one factor (*m4, m5, m6, m7, m8, m9*). The rest 16 items have 2 factors with eigenvalues greater than 1. According to Exploratory Factor Analysis (EFA) results, distribution of 16 items into factors is shown in Table 2.

When Table 2 is examined, scale items are seen to gather under 2 factors: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 items fall into Factor 1 named "Goal Congruence - Harmony"; 1, 2, 3 items fall into Factor 2 named "Group Dynamics –Vision - Solidarity".

When Table 3 that includes numerical info regarding factors in scale is examined, there are 2 factors that have eigenvalues greater than 1.00. The total explained variance for scale is 70.59 and total-item correlations are between ".617 - .774". Explained variance ratio is more than %30, which is assumed to be sufficient for social sciences' scale development (Büyüköztürk et al., 2004). Factor 1 whose eigenvalue is 8.2 explains 51.2% of total variance, Factor 2 with 3.09 eigenvalue explains 19.33% of total variance. Graphical distribution of factors in explaining total variance of the scale is displayed in scree plot graph (Figure 1).

3 items in the scale were seen to have high loading

Table 2. Distribution of items into factors.

Factor No	Factor name	Item No
Faktör1	Goal Congruence - Harmony	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
Faktör2	Group Dynamics –Vision - Solidarity	1, 2, 3

Table 3. EFA and CFA Factor Loadings of Items and Factors in Scale.

ļ	Factor 1 Goal Congruend	e- Harmony	Factor 2 Group Dynamics -Vision-Solidarity		
Item No	Factor Load (EFA)	Factor Load (CFA)	Item No	Factor Load (EFA)	Factor Load (CFA)
m10	.70	.81	m1	.77	.70
m11	.76	.84	m2	.84	.66
m12	.74	.85	m3	.58	.88
m13	.74	.82			
m14	.72	.76			
m15	.72	.77			
m16	.77	.80			
m17	.75	.79			
m18	.78	.84			
m19	.83	.87			
m20	.83	.86			
m21	.81	.81			
m22	.78	.82			

values in two factors. Although the difference between the two values is less than 0.1, these items are very important for the content validity of the scale (Tabachnick and Fidell, 2001). Thus, they were not removed from the scale and were placed under the second factor.

When Scree Plot graph is examined, it is seen that the contribution of other factors to total variance percentage decreases after the first factor (Figure 2).

Slovakian form EFA results

"Rotated principal components analysis" was used to collect data about construct validity of the scale. Kaiser-Meyer-Olkin (KMO) coefficient and Bartlett Sphericity test was employed to examine whether data are appropriate for principal components analysis. KMO coefficient is a statistical method to prove whether the sample of items is adequate for a factor analysis or not. Data are accepted to be appropriate for analysis if KMO coefficient takes a value close to 1 and a perfect match if it is 1. Upon the analysis done, KMO value was found to be .871. Normal distribution is necessary to use parametric methods. Bartlett Sphericity test is a statistical technique to test whether variances are equal across groups or samples. If chi-square test result is significant, it means data come from multivariate normal distribution. Bartlett test was found to be significant in the study (χ^2 =1246,94; p<.05). EFA was employed to reach a meaningful construct regarding persons' synergistic climate perceptions and reveal construct or constructs named factors.

After EFA, 7 items were removed from 22 itemed scale since these were found to be non-conforming with construct of the scale or they loaded strongly on more than one factor (*m10, m12, m18, m19, m20, m21, m22*). The rest 15 items have 3 factors with eigenvalues greater than 1. According to Exploratory Factor Analysis (EFA) results, distribution of 15 items into factors is shown in Table 4.

When Table 4 is examined, scale items are seen to gather under 3 factors: 4, 7, 9, 11, 15, 16, 17 items fall into Factor 1 named "Goal Congruence - Vision"; 2, 3, 5, 6, 8 items fall into Factor 2 named "Goal Congruence - Solidarity". 1, 13, 14 items fall into Factor 3 named "Group Dynamics".

When Table 5 that includes numerical info regarding factors in the scale is examined, there are found to be 3 factors that have eigenvalues greater than 1.00. The total explained variance of scale is 63.549 and total-item correlations are between ".360 - .778". Explained variance ratio is more than 30%, which is assumed to be sufficient for social sciences' scale development (Büyüköztürk et al., 2004). Factor 1 whose eigenvalue is 3.8 explains 25.8% of total variance, Factor 2 with 3.7 eigenvalue

Scree Plot



Figure 2. Scree Plot Graph.

Table 4. Distribution of Items into Factors

Factor No	Factor name	Item No
Factor1	Goal Congruence - Vision	4, 7, 9, 11, 15, 16, 17
Factor2	Goal Congruence - Solidarity	2, 3, 5, 6, 8
Factor3	Group Dynamics	1, 13, 14

Table 5. EFA and CFA Factor Loadings of Items and Factors in Scale.

Factor 1	Goal Congrue	nce - Vision	Fac	<i>tor 1</i> Goal Con Solidarity	gruence -	Factor 1 Group Dynamics		
Item No	Factor Load (EFA)	Factor Load (CFA)	Item No	Factor Load (EFA)	Factor Load (CFA)	Item No	Factor Load (EFA)	Factor Load (CFA)
m4	.66	.81	m2	.66	.60	m1	.54	.45
m7	.66	.72	m3	.71	.84	m13	.71	.59
m9	.60	.75	m5	.76	.81	m14	.85	.80
m11	.65	.73	m6	.76	.84			
m15	.74	.60	m8	.82	.80			
m16	.70	.72						
m17	.73	.76						

explains 24.85% of total variance. Factor 3 with 1.9 eigenvalue explains 12.8% of total variance. Graphical distribution of factors in explaining total variance of scale is displayed in scree plot graph (Figure 3).

When Scree Plot graph is examined, it is seen that the contribution of other factors to total variance percentage decreases after the first factor.

Synergistic Climate Turkish Form

Confirmatory Factor Analysis (CFA) Findings

In Confirmatory Factor Analysis done for Synergistic Climate Scale's Turkish Form, it was tested to see to what extent the construct of the scale is consistent with

Scree Plot



Figure 3.Scree Plot Graph.



Chi-Square=492.03, df=103, P-value=0.00000, RMSEA=0.078

Figure 4. Path Diagram. Note: faktor (factor)1= Goal Congruence - Harmony; faktor 2= Group Dynamics - Vision-Solidarity.

the two-factor model shown by exploratory factor analysis. Factor loadings, error variances are displayed in path diagram (Figure 4).

While examining path diagram, it is seen that factors loadings of items in two-factor scale change between

".66-.89". Also another result seen in the diagram is that error variances of items change between ".23-.51". Fit indices calculated with Confirmatory Factor Analysis are given in Table 1. Fit indices criterion compared with obtained values are displayed with observed values.

Fit Index Type	Observed Value Acceptable Value		Fit Level
X ²	492,03; p<0.05(df = 103)	p>0.05	-
X ² /df	4.77	≤5	Good fit
RMSEA	0.07	≤ 0.08	Good fit
NFI	0.98	≥ 0.95	Perfect fit
NNFI	0.99	≥ 0.95	Perfect fit
CFI	0.99	≥ 0.95	Perfect fit
IFI	0.99	≥ 0.95	Perfect fit
RFI	0.98	≥ 0.95	Perfect fit
RMR	0,031	≤ 0.05	Perfect fit
GFI	0.91	≥ 0.90	Good fit

 Table 6. Goodness of Fit Indices of Confirmatory Factor Analysis.

df: degress of freedom; X2: Ki-square; RMSEA: Root Mean Square Error of Approximation; NFI: Normed Fit Index; NNFI: Non-Normed Fit Index; CFI: Comparative Fit Index; IFI: Incremental Fit Index; RFI: Relative Fit Index; RMR: Root Mean Square Residuals; GFI: Goodness of Fit Index.

As seen in Table 6, X2 value was not found to be at requested level and p<.05 was not met. Calculation of X^2 /fd was considered more suitable to calculate goodness of fit. X^2 /fd value was found below 5; thus, goodness of fit was revealed to be good. When other fit indexes were checked, values of NFI, NNFI, CFI, IFI and RFI (≥0.95) and RMR (≤0.05) have perfect fit; value of GFI (≥0.90) has good fit (Hu and Bentler, 1999). The value of RMSEA was seen to have an acceptable level of fit. That RMSEA is lower than .08 means there is a good fit (Çokluk et al., 2010; Schermelleh-Engel et al., 2003).

SYNERGISTIC CLIMATE SCALE SLOVAKIAN FORM

Confirmatory Factor Analysis Findings

In Confirmatory Factor Analysis done for Slovakian Form of Synergistic Climate Scale, it was tested to see to what extent the construct of the scale was consistent with the three-factor model shown by exploratory factor analysis. Factor loadings, error variances are displayed in path diagram (Figure 5).

When examining the path diagram, it is seen that items' factors loadings of three-factor scale change between ".45-.84". Also another result obtained in the diagram is that error variances of items change between ".29-.80" Fit indices calculated with Confirmatory Factor Analysis are given in Table 7. Fit indices criterion compared with obtained values are displayed with observed values.

As seen in Table 7, X^2 value was not found to be at the requested level and p<.05 condition was not met. Calculation of X^2 /fd was considered more suitable to calculate goodness of fit. X^2 /fd value was found below 3; thus, goodness of fit was revealed to be perfect. When the other goodness of fit indexes are checked, it has been seen that CFI and IFI values (≥0.95) and RMR value (≤0.05) indicate perfect fit, RMSEA and GFI values indicated acceptable fit.

Reliability and item analysis

Turkish

Internal consistency coefficient was calculated for the reliability of the scale. In the analysis done, total reliability coefficient for the whole scale was found to be 0.96. Internal consistency coefficient for each dimension is presented in Table 8.

As seen in Table 7, internal consistency coefficients regarding synergistic climate was found to be .96 for Goal Congruence - Harmony dimension and .79 for Group Dynamics - Vision-Solidarity Dimension. When the Cronbach's Alpha internal consistency coefficient for the whole scale was checked, this value was .96. Total-item correlation values for all items in the scale change between.41 and .75. When item is removed and internal consistency coefficient of the scale is examined, none of the items has shown decrease or increase in coefficient, whose value is .96 for all items.

Slovak

Internal consistency coefficient was calculated for the reliability of Synergistic Scale. In the analysis done, total reliability coefficient for the whole scale was found to be 0.96. Internal consistency coefficient for each dimension is presented in Table 9.

As seen in Table 9, internal consistency coefficients regarding synergistic climate was found to be .88 for Goal Congruence -Vision dimension; .88 for Harmony - Solidarity Dimension and .67 for Group Dynamics dimension.

When the Cronbach's Alpha internal consistency coefficient for the whole scale was checked, this value was found to be .91. Total-item correlation values for all items in the scale change between .33 and .79. When





Figure 5. Path diagram. Note: faktor (factor)1= Goal Congruence - Vision; faktor 2= Goal Congruence - Solidarity; faktor 3= Group Dynamics.

Table 7. Goodness of fit indices of confirmatory factor analys

Fit Index type	Observed value	Acceptable value	Fit level
× ²	195.73; p<0.05	7: 0.05	
^	(df = 87)	p>0.05	-
X ² /df	2.24	≤3	Perfect fit
RMSEA	0.09	≤ 1.00	Acceptable fit
NFI	0.93	≥ 0.90	Good fit
NNFI	0.94	≥ 0.90	God fit
CFI	0.95	≥ 0.95	Perfect fit
IFI	0.95	≥ 0.95	Perfect fit
RFI	0.91	≥ 0.90	God fit
RMR	0,027	≤ 0.05	Perfect fit
GFI	0.85	≥ 0.08	Acceptable fit

df: degress of freedom; X²: Ki-square; RMSEA: Root Mean Square Error of Approximation; NFI: Normed Fit Index; NNFI: Non-Normed Fit Index; CFI: Comparative Fit Index; IFI: Incremental Fit Index; RFI: Relative Fit Index; RMR: Root Mean Square Residuals; GFI: Goodness of Fit Index.

Table 8. Cronbach's Alpha Internal Consistency Coefficients for Scale's Dimensions.

Factor No	Factor Name	Cronbach's Alpha (r)
Factor1	Goal Congruence - Harmony	.96
Factor 2	Group Dynamics – Vision - Solidarity	.79

Factor No	Factor Name	Cronbach's Alpha (r)
Factor1	Goal Congruence -Vision	.88
Factor 2	Harmony - Solidarity	.88
Factor 3	Group Dynamics	.67

Table 9.Cronbach's alpha internal consistency coefficients for scale'sdimensions

item is removed and internal consistency coefficient of the scale is examined, none of the items has shown decrease or increase in the coefficient, whose value is .91 for all items.

DISCUSSION

1- According to EFA results of Turkish form of the scale, the value of KMO was found to be .972 (χ^2 =8568,53; p<.05). At the end of EFA, 6 items (*m4*, *m5*, *m6*, *m7*, *m8*, *m9*), which did not comply with the structure of the scale or loaded under different factors, were removed from the scale which included 22 items initially. The remaining 16 items with eigenvalues higher than 1 formed 2 factored structure. Factor 1 composed of items of 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 was named "Goal Congruence - Harmony"; and Factor 2 composed of items of 1, 2, 3 was named "Group Dynamics –Vision -Solidarity".

Total variance of the scale was found to be 70.59 % and factor loadings were seen to change between ".58-.84" and item-total correlations of the scale were found to change between ".61 - .77". If item loading values are over .40, these items are evaluated as "very good"; if they are over 0.70, these are evaluated as "perfect" (Tabachnick and Fidell, 2001). In this case, scale items' factor loadings could be said to be at good and perfect levels. While Factor 1 with eigenvalue of 8.2 explains 51.2 % of total variance, Factor 2 with eigenvalue of 3.09 explains 19.33 % of total variance. This change was also seen in Scree Plot; other factors following the first factor were seen to contribute less and less to total variance.

2- According to CFA results of Turkish version of the scale, factor loading values of items in two-factor structure were seen to vary between ".66 - .89". In addition, the error variance of items was determined to change between ".23 - .51". When fit index values upon CFA were examined, it was seen that value of X² did not meet the condition of p <.05; thus, X^2/fd value was examined. Output table presented a X²/fd value lower than 5, which shows that model has a good fit. In comparison with all other fit index values, it was spotted that NFI, NNFI, CFI, IFI and RFI values (≥0.95) have perfect fit (≤0.05); values of GFI (≥0.90) and RMSEA (≤ 0.08) have good fit. Even if value of RMSEA was not found at good level, the value is lower than 0.10, which shows there is conformity between model and real data (Çokluk et al., 2010).

3- According to EFA results of Slovak form of the scale, the value of KMO was found to be . 871 (χ^2 =1246,94; p<.05). According to EFA results, 7 items (*m10, m12, m18, m19, m20, m21, m22*) were removed from the scale. The remaining 15 items with eigenvalues higher than 1 formed 3 factored structure. Factor 1 including items of 4, 7, 9, 11, 15, 16, 17 was named "Goal Congruence -Vision"; and Factor 2 including items of 2, 3, 5, 6, 8 was named "Harmony - Solidarity" and Factor 3 including items of 1, 13, 14 was named "Group Dynamics"

Total variance of the scale was found to be 63.549 % and factor loadings were seen to change between ".54-.85" and item-total correlations of the scale were found to change between ".360 - .778". Similar to Turkish version of the scale, scale items' factor loadings for Slovak form are seen to be at good and perfect levels. While factor 1 with eigenvalue of 3.8 explains 25.8 % of total variance, factor 2 with eigenvalue of 3.7 explains 24.85 % of total variance and factor 4 with eigenvalue of 1.9 explains 12.8 % of total variance.

4- According to CFA results of Slovak version of the scale, factor loading values of items in three-factor structure were seen to vary between "66-.89". In addition, the error variance of items was determined to change between ".23-.51". When fit index values upon CFA were examined, it was seen that value of X² did not meet the condition of p <.05. X²/fd value was examined and a value of X²/fd lower than 5 was found, which shows that model has a good fit. In comparison with all other fit index values, it was seen that NFI, NNFI, CFI, IFI and RFI values (≥0.95) have perfect fit (≤0.05); values of GFI (≥0.90) and RMSEA (≤ 0.08) have good fit.

5- According to the analysis conducted for the reliability of the scale, the Turkish form's reliability coefficient for the whole scale was found to be 0.96. When internal consistency coefficients of sub-dimensions were checked, X and Y dimensions were found to have .96 and .79 respectively. Item-total correlation values of all items in the scale were determined to be change between .41 and .75.

6- According to the analysis conducted for the reliability of the Slovak form of the scale, the form's reliability coefficient for the whole scale was found to be 0.91. When internal consistency coefficients of sub-dimensions were checked, X, Y, Z dimensions were found to have. 88, .88 and .67 respectively. Item-total correlation values of all items in the scale were determined to be change between .33 and .79. High internal consistency is an indicator of consistency between items and the whole scale and also construct validity (Şencan, 2005). In this case, it is possible to say that internal consistency coefficients for Slovak and Turkish forms are high on scale and factor basis.

It is accepted that the perceptions of persons toward synergistic climate of the organization will increase as the points got from the scale increase. Dimensions of "Organization Culture" and "Team", belonging to Synergistic Management Scale developed by Balay and Müjdeci (2013), have general similarity with synergistic climate and its dimension; group dynamics. However, when the items in Synergistic Management Scale are checked, it can be seen that these items are to do with assessing synergistic management rather than assessing synergistic climate in the organization.

Conclusion

The pursuit of synergy is generally considered an important strategic thrust in the organizations, the quest for global efficiency and effectiveness (Faes et al., 2000). In this regard synergistic climate is inevitable. Monitoring and evaluation of such climate entails robust scientific measuring tools.

When investigating the literature, it can be said that little attention is paid to developing scale to measure synergy particularly in educational organizations as well as other type of organizations. To fill such a gap, the purpose of this research was to develop a Synergistic Climate Scale (SCS) that could be used in organizations. As a result of the analysis made, it revealed that Turkish form has two factors entitled "Goal Congruence-Harmony" and "Group Dynamics - Vision - Solidarity" and 16 items; Slovakian form has three factors entitled Goal Congruence – Vision, "Harmony- Solidarity", and "Group Dynamics" and 15 items.

This study is considerable in terms of developing a scale in two different countries which have separate cultures, and displaying different results. In turn, the findings derived from this study can be seen as a contribution to be used in different countries in measuring synergistic climate and at the same time to make adaptation studies to different languages. Moreover, it was not solely performed to develop a scale in one language and in one culture. Actually it was aimed synchronously to see the different potential results of developing a scale in different cultures.

Conflict of Interests

The author has not declared any conflict of interests.

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Appendix 1: Synergistic Climate Scale: Turkish Form.

Sinerjik İklim Ölçeği (SİÖ)-İfadeler Okulumuzda(kurumumuzda);	(1) Hiç Katılmıyorum	(2) Az Katılıyorum	(3) Orta Derecede Katiliyorum	(4) Çok Katılıyorum	(5)Tamamen Katiliyorum
Amaç Birliği - Uyum Boyutu					
1-Çalışanlar kurumun amaçları doğrultusunda çalışmaktadırlar.					
2-Kurum çalışanları birbirine olumsuz eleştiride bulunmazlar.					
3-Kurumda çalışanlar bir saatin dişlileri gibi uyum ve ahenk içerisinde çalışmaktadırlar.					
Grup Dinamiği – Vizyon - Dayanışma Boyutu					
4-10-Kurum çalışanları arasında görev yönelimli bir işbirliği vardır.					
5-11- Kurum çalışanları grup dinamiğine sahiptir ve bu sayede engellerle başa çıkmaktadırlar.					
6-12- Kurum çalışanları adil, içten ve samimidirler.					
7-13- Kurumun iç ve dış paydaşları kurumda var olan grup dinamiğine önem vermektedirler.					
8-14- Kurum çalışanları grup menfaatlerini kendi menfaatlerinin önünde tutmaktadırlar.					
9-15- Kurum çalışanları arasında resmi ilişkilerden ziyade informal ilişkiler (dostluk, fedakâr arkadaşlık vb.) vardır.					
10-16- Kurumun geleceğe ilişkin kestirimleri vardır.					
11-17-Kalite ve kişisel gelişime dönük olumlu rekabet, kurumu amaçlarına daha da yakınlaştırmaktadır.					
12-18-Kurum çalışanları bütün işleri koordineli bir şekilde yapmaktadırlar.					
13-19-Kurum çalışanları arasında yüksek düzeyde dayanışma ve yardımlaşma duygusu hâkimdir.					
14-20-Kurum çalışanları sürekli biçimde birbirlerinin eksiklerini tamamlamaktadırlar					
15-21-Kurum çalışanlarını işlerini danışarak yaparlar.					
16-22-Kurum çalışanları kendi için istediklerini meslektaşları için de isterler.					

Appendix 2. Synergistic Climate Scale: Suggested English translation of Turkish Form.⁴

Synergistic Environment Scale (SES) - Items In our school (organization);	Strongly Disagree	Slightly Agree	Agree at medium level	Agree	Strongly agree
Dimension of Goal Congruence - Harmony					
1-The personnel work in accordance with the goals of the organization.					
2-The personnel of the organization do no criticize each other negatively.					
3- The personnel work like clock gears in harmony and conformity					
Dimension of Group Dynamics - Vision-Solidarity					
4-10- The personnel have task-orientated cooperation.					
5-11- The personnel have group dynamism and thus cope with the problems.					
6-12- The personnel are righteous, intimate and sincere.					
7-13- Inner and external stakeholders pay attention to group dynamism in the organization.					
8-14- The personnel prioritize group interests over the personal interests.					
9-15- The personnel have informal relationships (friendship, altruistic intimacy etc.) rather than official relationship.					

⁴ Note: This translation form was suggested by author. Validty and reliability studies were performed in Turkish.

10-16- The organization has estimates for the future.			
11-17- Positive competition directed at quality and personal development makes it easier to reach goals of organization			
12-18- The personnel do all the works in coordinated way.			
13-19- There is high level of solidarity and help atmosphere among the personnel.			
14-20-The personnel in organization continuously try to complete each others' deficiencies.			
15-21-The personnel act by consulting each other.			
16-22- The personnel wants the same things for their colleagues as they want for themselves.			

Appendix 3. Synergistic Climate Scale: Slovakian Form.

Znaky synergistickej environmentálnej škály (SES) V našej škole (organizácii):	Silne nesúhlasím	Nesúhlasím	Neviem	Súhlasím	Silne súhlasím
Rozmer Cieľ Kongruencia - Vision					
1-4- Zamestnanci pomáhajú s prácou svojim kolegom so všetkými svojimi zručnosťami, vedomosťami a schopnosťami (talentami) k dosiahnutiu cieľov organizácie					
2-7- Zamestnanci v organizácii sú ako jedno telo, jeden duch					
3-9- Medzi zamestnancami je priateľstvo na prvom mieste					
4-11- Zamestnanci sa spolu zameriavajú na plnenie úloh					
5-15- Zamestnanci uprednostňujú spoločné úspechy pred osobnými					
6-16- Zamestnanci majú neformálne vzťahy (priateľstvo, dôvera, atď.) skôr ako formálne					
7-17- Organizácia má prognózy do budúcnosti					
Rozmer Dodržiavanie - Solidarita					
8-2-Zamestnanci organizácie sa navzájom nekritizujú					
9-3- Zamestnanci pracujú ako hodinky v harmónii a v súlade					
10-5- Medzi kolektívom vládne naozajstná solidarita a kooperácia					
11-6- Zamestnanci chcú rovnaké veci pre svojich kolegov ako pre seba					
12-8- Zamestnanci slúžia k dosiahnutiu cieľov organizácií					
Rozmer Skupina Dynamics					
13-1-Zamestnanci pracujú v súlade s cieľmi organizácie					
14-13- Zamestnanci sú spravodliví, dôveryhodní a úprimní					
15-14- Vnútorné a vonkajšie zainteresované strany venujú pozornosť dynamike skupiny v škole					

Appendix 4. Synergistic Climate Scale: Slovakian Form⁵

Synergistic Environment Scale (SES) - Items	itrongly Disagree	slightly Agree	vgree at nedium level	lgree	strongly Igree
Dimension of Goal Congruence - Vision	00	0	<u>م</u> ۲	٩	ຶ້
1-4- The personnel help each others' work with all of their talents to reach organization's goals.					
2-7- The personnel serve to reach organizations' goals.					
3-9- The personnel have goal congruence.					
4-11- The personnel have group dynamism and thus cope with the problems.					
5-15- The personnel have informal relationships (friendship, altruistic intimacy etc.) rather than official relationship.					
6-16- The organization has estimates for the future.					
7-17- Positive competition directed at quality and personal development makes it easier to reach goals of organization.					
Dimension of Goal Congruence - Solidarity					
8-2-The personnel of the organization do no criticize each other negatively.					
9-3- The personnel work like clock gears in harmony and conformity.					
10-5- There is a real solidarity and cooperation among the personnel.					
11-6- The personnel in organization are like parts of a body.					
12-8- The friendship comes first among the personnel .					
Dimension of Group Dynamics					
13-1-The personnel work in accordance with the goals of the organization.					
14-13- Inner and external stakeholders pay attention to group dynamism in the organization.					
15-14- The personnel prioritize group interests over the personal interests.					

⁵ Note: This translation form was suggested by author. Validty and reliability studies were performed in Slovakian.