Prospects for using charity lotteries in social marketing

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Abstract

Background: The purpose of this work is to study the prospects of using charity lotteries as a marketing tool for involving consumers and employees in charitable activities.

Methods: The research methodology is based on the principles of the theory of planned behavior by Ajzen.

Results: The study confirmed that behavioral intention is correlated with actual behavior. Subjective norms factors have the most significant influence on behavioral intention.

Conclusions: Correlation analysis allowed us to establish a weak effect of socio-demographic characteristics (Age, Gender, Capital Status, Ownership of Home, Educational Qualification, Employment, Annual Income) on behavior. The experience of participating in the lottery in the past also turned out to be insignificant. There is reason to believe that Russian consumers' decision to participate in the charity lottery is impulsive or due to pressure from their surroundings.

Keywords

social marketing, CSR, charity lotteries, consumer behavior, theory of planned behavior

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Amendments from Version 1

I've made the changes in Introduction in the structure and in Conclusion. In the Introduction I added the paragraphs about the research aim. The authors suppose that, it is necessary to form an intention (the behavioral intention) to participate in a charity lottery to get donations from consumers. In the current research paper, the authors focus on charity lotteries as a marketing tool. Having explored the environment in which consumers have a small disposable income, it became clear that it is unlikely to expect generous donations. The overview of existing points of view in the "Methodology" section has been supplemented in the "Discussion" section. The complexity of the selection of sources is as follows: most researchers focus on the relationship between CSR and the consumer's intention to purchase a product. There are questions: is it necessary to form a positive attitude of Russians towards charity lotteries, will this be able to encourage them to actively participate in lotteries and ensure the desired behavior to raise funds for charity? In addition, the culture of charity in Russia differs significantly from other countries. There is practically no scientific research in the field of the effectiveness of the use of charity lotteries. Research in Russia focuses more on sociological trends. The authors believe that the current research paper makes it possible to understand whether a charity lottery is able to bridge the gap between attitude and action (donation). In the Conclusion I disclosed that the effectiveness of the lottery as a method of fundraising is related to its ability to achieve the goal of charity (the more funds collected, the higher the efficiency). In order to achieve the desired behavior from consumers, it is necessary to form an intention (the behavioral intention) to participate in a charity lottery.

Any further responses from the reviewers can be found at the end of the article

Introduction
In Russia, charity as a type of social activity of the population has existed for a long time, but charity lotteries are rarely used.

Charitable organizations, whose purpose is to accumulate funds for gratuitous assistance, cannot have the funds necessary for the prize fund due to legislative regulation. Thus, charity lotteries in Russia can be commercial organizations that carry out long-term cooperation with a charitable foundation.

Charity lottery is not the only way to raise funds for charity. This method competes with others. The higher the lottery’s ability to raise funds for charity, the better. Prospects for the use of charity lotteries in Russia are determined by the reaction of consumers to this marketing tool. The authors suppose that, it is necessary to form an intention (the behavioral intention) to participate in a charity lottery to get donations from consumers.

Practice shows that a commercial organization uses charitable events within the corporate social responsibility (CSR) policy framework to create new value for the consumer. Companies can also involve their employees in charity events, which affects the morale of the team. Thus, holding a charity lottery serves the goals of both the internal and external strategy of the organization.

In Russia, there is a practice of holding charity lotteries. An excellent example is the charity projects “Help and Win” and “Your Star”, conducted by the joint-stock company (JSC) “Russian Railways” and the public joint stock corporation (PJSC) “Aeroflot”. Passengers are invited to purchase a charity card and win a prize. The beneficiary of this lottery is the charitable foundation “Lifeline”. Currently, due to the spread of coronavirus disease (COVID-19), the sale of postcards and other non-food items on flights is suspended. The “Lifeline” foundation assesses the experience of using charity lotteries as positive; the funds received provide treatment for 70 seriously ill children a year. However, the matter of the effectiveness of the lottery as a fundraising method remains open. Currently, disposable income levels in developing countries remain low. The lottery can be attractive to consumers with its potential benefits.

The presented study is part of the vast research on the involvement of consumers in charity projects. The practice of charity has diverse manifestations. In the current research paper, the authors focus on charity lotteries as a marketing tool. Having explored the environment in which consumers have a small disposable income, it became clear that it is unlikely to expect generous donations. Hence, the charity lottery is of interest, as it gives a chance to win. The subject of the study is the behavioral intention and behavior of consumers in relation to charity lotteries. The purpose of this work is to identify the prospects for using charity lotteries as a marketing tool for involving consumers and employees in charitable activities. During the study, the following objectives were set: to identify the level of consumer awareness of charity lotteries; to identify the factors that most determine the behavior of participants in charity lotteries; to define what is the position of consumers about charity lotteries, to find out whether charity lotteries create additional value for consumers.

The presented research paper is not a review, therefore, the literature references were selected and reviewed which explore the use of marketing by a commercial organization in the framework of charitable projects. The overview of existing points of view in the “Methodology” section has been supplemented in the “Discussion” section. The complexity of the
selection of sources is as follows: most researchers focus on the relationship between CSR and the consumer’s intention to purchase a product. This is an important aspect. The charity lottery is part of the practice of corporate social responsibility, but the potential for the use of charity lotteries remains unclear. There are questions: is it necessary to form a positive attitude of Russians towards charity lotteries, will this be able to encourage them to actively participate in lotteries and ensure the desired behavior to raise funds for charity? In addition, the culture of charity in Russia differs significantly from other countries. There is practically no scientific research in the field of the effectiveness of the use of charity lotteries. Research in Russia focuses more on sociological trends.

The authors believe that the current research paper makes it possible to understand whether a charity lottery is able to bridge the gap between attitude and action (donation).

**Methods**

**Theoretical background**

Volunteer movement (providing action assistance), charitable fundraising (financial aid), and charity lotteries are usually considered options for involving people in philanthropic projects. Compared with other ways of attracting people to charity projects, Charity lotteries have a dual perception. On the one hand, charity lotteries are perceived as entertainment and even gambling. On the other hand, charity lotteries have a more motivating nature, encouraging an essential potential win. A volunteer movement or charitable fundraising requires high motivation in charitable, social, and environmental projects. Participation in the charity lottery does not require significant efforts from the participants. The winner gets a prize, the losers – the opportunity to participate in an essential social campaign.

International studies of countries by level of charity take into account the respondent’s actions over the past month (monetary donations, volunteer activities, any help to a stranger who needed it), the number of people involved in providing charitable assistance (in %), as well as the general attitude of the people of the country to charity and volunteer activities. These studies reflect the attitude that characterizes people’s behavior to a greater extent. In our opinion, the evaluation of the charity index serves the purpose of tracking changes, helping to determine the dynamics of social achievements and comparing their activities with the best practices of other countries. However, for this study, this evaluation mechanism seems too narrow. It reflects the consequences, not the reasons for the attitude to charity. It does not consider the impact of business strategy on the involvement of consumers and employees in charity events. Therefore, the theoretical basis for our research was in socially responsible marketing tools and consumer behavior.

Based on the research review, it can be concluded that the current social image is an integral part of organizational strategies in developed countries. The authors also support the claims of many researchers that the social responsibility of an organization contributes to its competitiveness. Attention to the effectiveness of social responsibility and its impact on the organization’s competitiveness gave impetus to a detailed study of consumer behavior and their reaction to various social projects. It should be understood that consumers are significant stakeholders for the organization. Therefore, their position on social responsibility can exert pressure on the organization’s decisions.

For a perception of charitable activities to be appropriately formed, it is necessary to understand the nature of the attitude of consumers and other interested parties to philanthropic events. This research perspective remains relevant for developing countries, as CSR practices are not sustainable. A focus on CSR activities as a source of self-oriented value for consumers provides an opportunity for marketers to create differentiation and augment what is a dominant emphasis on other-oriented value in CSR research (Pelozza and Shang 2011; Azmat and Ha 2013; Anadol et al. 2015).

Parminder Kaur investigated consumers’ perception of the social responsibility of organizations, taking into account their desire to purchase a product, and notes that there is a positive relationship between consumer confidence, which is the result of the CSR of the company, and the intention to purchase its product (Kaur 2013).

K. B. Bello, A. and K. Md Nor conclude the willingness of consumers to reward socially responsible companies with positive reviews. Consumers’ reaction to CSR can manifest itself in the form of trust, a higher perceived quality of service, increased customer satisfaction and loyalty, purchase intentions, and an increase in the share of purchases (Bello et al. 2021).

Consumer expectations motivate marketers to incorporate social considerations into their marketing practices and communicate about those actions (Castaldo et al. 2009; Chernev and Blair 2015; Golob et al. 2015; Chaudary et al. 2016). Although studies show that perception of CSR toward community has a substantial influence on consumers’ attitude when considering purchases in the distant or indefinite future, the impact of such information on purchases shortly (for example, at the time of purchase) will be quite insignificant (Brown and Dacin 1997; Carrigan and Attalla...
In these situations, the consumer is more influenced by factors such as brand availability or specific functional attributes of products. If consumers believe that a company which is engaged in socially responsible activities produces outcomes which are worse for the market than firms that do not worry about social responsibilities, then information about social responsibility will not bring the desired effect (Rivera et al. 2016; Wan et al. 2016; Schill and Godefroit 2021).

Sankar Sen and C. B. Bhattacharyya note that consumers in company assessments are more sensitive to negative information about CSR than positive; moreover, all consumers react negatively to negative news, whereas positive information receives a positive reaction only from those consumers who themselves are involved in solving social problems (Sen and Bhattacharyya 2001).

The theoretical analysis allowed us to make some generalizations. Participation in charity events, including charity lotteries, has the potential to create additional value for the company and has an impact on the formation of its social image in the eyes of both consumers and employees, as well as other stakeholders (Bhattacharya et al. 2009; Semeijn et al. 2014; Lu et al. 2015; Du and Sen 2016; Gürlek et al. 2017; Afzali and Kim 2021). However, the issue of choosing tools for involving consumers in charitable activities is poorly considered (de Los Salmones et al. 2005). The World Charity Index considers only two options - financial assistance (giving money to strangers or donations) and volunteering. The potential of the charity lottery as a tool for involving consumers and employees in charitable activities remains unclear (Hildebrand et al. 2017; Chen McCain et al. 2019; Li et al. 2021).

The potential of charitable events to create additional value is the subject of applied research. Analysis of research data carried out by the British Research Institute of Public Relations, Mail. Ru Corporation, and Russian Public Opinion Research Center (VTsIOM), the Charity Fund “Gift of Life (Podari Zhizn’)” allowed to identify the factors that determine the attitude to charity in general.

The British Research Institute of Public Relations conducted a study on the importance of charity for households in a sample consisting of 2,070 adults. The study revealed popular forms of participation in charity: shopping in charity shops, visiting charitable institutions, or events organized by a charitable organization. Among the factors determining the attitude to charity, gender and age were noted. An interesting result was the absence of a linear relationship between income and participation in charity.

The Mail. Ru Corporation and Russian Public Opinion Research Center (VTsIOM) conducted a study called “Attitudes towards Charity in Russia”, which examined the opinions of 1,500 respondents aged 18 to 60 living in large Russian cities. The barriers to charity identified in the study in Russia are distrust of charitable organizations (49% of respondents) and lack of money for charity (48% of respondents).

The incentive to participate in a charity event is the availability of detailed information about the action. In addition, the support of their family members and close and familiar friends is essential to users. The third incentive for respondents was the availability of various bonuses for charity. Thus, the nature of charity lotteries’ motivation helps get a positive reaction to the event.

The charity fund “Gift of Life (Podari Zhizn’)” surveyed 1,434 donors and 1,600 people who are not involved in charitable activities. The study revealed that the factors of the gender and age of respondents influenced their charity training. Education and income level also matter. Philanthropists most often are motivated in their actions. These are purposeful people who want to solve society’s problems through collective action.

Empirical studies have provided valuable information about many factors that determine people’s attitude to charity in general. There is reason to believe that the factors of awareness, the emotional coloring of the charity project, the opinions of the immediate environment, and the norms of behavior recommended by the external environment and socio-demographic characteristics are causal factors determining the reaction to the charity lottery. However, there is no direct evidence that the identified trends persist for charity lotteries.

**Research methodology**

The study of people’s attitudes and their willingness to participate in the lottery is based on the principles of the Theory of Planned Behavior by Ajzen (TPB) (Ajzen and Fishbein 1974; Ajzen 1991). TPB defines a person’s behavior as the result of their conscious decision to act in a certain way (Ajzen 2012, 2015; Barbera and Ajzen 2020; Bosnjak et al. 2020). The strengths of the TPB methodology are that it applies to various forms of behavior, takes into account a small range of influencing factors, and is easy to use. Therefore, TPB has received substantial research support (al Jarah and Emegwali 2017; Miller 2017; Gupta 2021).
According to the theory of planned behavior, the choice of a person’s conscious decision is determined by three factors: attitude to behavior (Aact), subjective norms (SN) and perceived behavioral control (PBC). Together they form behavioral intention (BI) (Ajzen 2012) (Figure 1). The factors of the TPB model were supplemented, taking into account empirical studies. The complete list of factors is shown in Table 1. The “behavior (B)” factor was considered an influential factor.

![Figure 1. Ajzen’s theory of planned behavior (figure adapted by authors).](image)

<table>
<thead>
<tr>
<th>Construct (name)</th>
<th>Questionnaire question - observed variable</th>
<th>Variable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience</td>
<td>In the past, I was not aware of CL</td>
<td>E1</td>
</tr>
<tr>
<td></td>
<td>In the past, though I was aware that CL never bought it</td>
<td>E2</td>
</tr>
<tr>
<td>Valuable beliefs (V)</td>
<td>I believe in luck</td>
<td>V1</td>
</tr>
<tr>
<td></td>
<td>I believe in the theory of karma</td>
<td>V2</td>
</tr>
<tr>
<td></td>
<td>I feel miracles do happen</td>
<td>V3</td>
</tr>
<tr>
<td>Norms of behavior (N)</td>
<td>People should not gamble</td>
<td>N1</td>
</tr>
<tr>
<td></td>
<td>Buying lotteries is gambling which is against my ethics</td>
<td>N2</td>
</tr>
<tr>
<td></td>
<td>Buying CL though for a cause is unethical as it makes people addicted to gambling</td>
<td>N3</td>
</tr>
<tr>
<td>Attitude towards behavior (Aact)</td>
<td>For me, buying CL in the next 12 months would be Good/Bad</td>
<td>A1</td>
</tr>
<tr>
<td></td>
<td>For me, buying CL in the next 12 months would be: Foolish/Wise</td>
<td>A2</td>
</tr>
<tr>
<td></td>
<td>For me, buying CL in the next 12 months would be: Dissatisfying/Satisfying</td>
<td>A3</td>
</tr>
<tr>
<td></td>
<td>For me, buying CL in the next 12 months would be: Useful/Useless</td>
<td>A4</td>
</tr>
<tr>
<td></td>
<td>For me, buying CL in the next 12 months would be: Unimportant/Important</td>
<td>A5</td>
</tr>
<tr>
<td></td>
<td>For me, buying CL in the next 12 months would be: Desirable/Undesirable</td>
<td>A6</td>
</tr>
<tr>
<td></td>
<td>My attitude toward CL is positive</td>
<td>A7</td>
</tr>
</tbody>
</table>
Two types of seven-point scales are used in the questions: a semantic differential (for Aact) and an evaluation scale with the points: 1 = Strongly Disagree, 2 = Disagree, 3 = Slightly Disagree, 4 = Neutral, 5 = Slightly Agree, 6 = Agree, and 7 = Strongly Agree.

The main hypotheses:

H1 – the stronger the attitude towards behavior (Aact), the stronger the behavioral intention (BI).

H2 – the greater the perceived behavioral control (PBC), the stronger the behavioral intention (BI).

H3 – the stronger the subjective norms (SN), the stronger the behavioral intention (BI).
H4 – the stronger the valuable belief in luck/karma, the stronger the behavioral intention (BI).

H5 – the greater the normative beliefs (NB), the stronger the behavior behavioral intention (BI).

H6 – behavioral intention (BI) is correlated with actual behavior (B).

A Structural Equation Modeling (SEM) approach was selected to analyze the cause-effect relationships among constructs used in the study.

**Results**

**Attitude towards the charity lottery of respondents from Russia and the influence of socio-demographic factors on behavior**

The sample was 355 people (Barykin 2022). The respondents’ age distribution: arithmetic mean - 24.8 years, median - 21 years, total span - 49 years, standard deviation - 8.2 years. Gender distribution: male - 159 people (44.8% of respondents); female - 196 people (52.2% of respondents).

About 11% of respondents have already participated in charity lotteries. About 9% of respondents participated in charity lotteries at least once in the last year. Only 40% of respondents had an idea about the existence of such lotteries.

However, the survey showed that if the respondents knew that such an event was taking place, 48% of the respondents would participate.

**Preliminary check of influence of factors**

Correlation analysis made it possible to establish a weak influence of socio-demographic factors (Age, Gender, Marital Status, Ownership of Home, Educational Qualification, Employment, Annual Income) on behavior. In further analysis, these factors were not considered when constructing the model.

The construct Experience (Exper) was insignificant and was excluded from further analysis. Variables P6 (construct PBC) and S10 (construct SN) were also removed from other research.

The results of the adjusted confirmatory factor analysis (CFA) are shown in Table 2.

<table>
<thead>
<tr>
<th>Table 2. Regression coefficients and reliability of confirmatory factor analysis (CFA) measurement models.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Construct</strong></td>
</tr>
<tr>
<td>Valuable beliefs (V)</td>
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<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Norms of behavior (N)</td>
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<td>Attitude towards behavior (Aact)</td>
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</table>
Testing hypotheses about the influence of planned behavior factors
The results of the CFA are the basis for building a structural model (SEM), which is used to test hypotheses. The structural modeling and hypothesis testing results are presented in Figure 2 and Table 3.

Discussion
The quality of the resulting model leaves much to be desired for predicting the behavior of Russian consumers. $R^2$ is low, i.e., some critical factors seem to be missing. It may be necessary to use more surface scales to measure variables.

Most of the research hypotheses were not confirmed. However, the influence of SN on BI was confirmed. The BI has been proven to determine the resulting behavior. However, there are quite a few factors that explain Intention. Statistical analysis of individual factors shows their connection with intention and directly with the resulting behavior. Therefore, it is not possible to separate the direct influence of these factors on behavior from the power of intentions.

Table 2. Continued

<table>
<thead>
<tr>
<th>Construct</th>
<th>Variable</th>
<th>Regression coefficient (non-standardized form)</th>
<th>Standardized regression coefficient ($\beta$)</th>
<th>Significance ($***&lt;0.001$)</th>
<th>Critical ratio (CR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perceived behavioral control (PBC)</td>
<td>P6</td>
<td>1.757</td>
<td>0.849</td>
<td>***</td>
<td>0.835</td>
</tr>
<tr>
<td></td>
<td>P2</td>
<td>1.008</td>
<td>0.551</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>P5</td>
<td>1.359</td>
<td>0.726</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>P3</td>
<td>1.294</td>
<td>0.689</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>P1</td>
<td>1</td>
<td>0.582</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P4</td>
<td>1.165</td>
<td>0.641</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td>Subjective norms (SN)</td>
<td>S10</td>
<td>1.144</td>
<td>0.359</td>
<td>***</td>
<td>0.733</td>
</tr>
<tr>
<td></td>
<td>S11</td>
<td>1.537</td>
<td>0.459</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S4</td>
<td>1.415</td>
<td>0.536</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S3</td>
<td>-1.126</td>
<td>-0.384</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S8</td>
<td>1.485</td>
<td>0.446</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S2</td>
<td>1.179</td>
<td>0.507</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S1</td>
<td>1</td>
<td>0.425</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S9</td>
<td>1.752</td>
<td>0.531</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S6</td>
<td>1.138</td>
<td>0.458</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S5</td>
<td>1.2</td>
<td>0.447</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S7</td>
<td>0.929</td>
<td>0.358</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td>Behavior intention (BI)</td>
<td>BI1</td>
<td>0.846</td>
<td>0.685</td>
<td>***</td>
<td>0.880</td>
</tr>
<tr>
<td></td>
<td>BI8</td>
<td>-0.967</td>
<td>-0.742</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI3</td>
<td>1</td>
<td>0.788</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI5</td>
<td>1.032</td>
<td>0.82</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI6</td>
<td>0.859</td>
<td>0.694</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI7</td>
<td>0.451</td>
<td>0.342</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI9</td>
<td>-0.905</td>
<td>-0.685</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI2</td>
<td>0.459</td>
<td>0.372</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI4</td>
<td>1.057</td>
<td>0.818</td>
<td>***</td>
<td></td>
</tr>
<tr>
<td>Behavior (B)</td>
<td>B2</td>
<td>1</td>
<td>0.746</td>
<td></td>
<td>0.470</td>
</tr>
<tr>
<td></td>
<td>B1</td>
<td>0.337</td>
<td>0.34</td>
<td>***</td>
<td></td>
</tr>
</tbody>
</table>

* are used to indicate the degree of significance of the statement and characterize the magnitude of the error probability p. In the statistical software package SPSS, the value of p is denoted by Sig. (Significant). Statements with error probability $p \leq 0.001$ are the most significant and are denoted by (**). Statements with a probability of error $p \leq 0.01$ - are considered very significant, denoted by (**). Significant statements are denoted by *, their probability of error is $p \leq 0.05$. If the error probability $p$ is greater than 0.05, then the statement is not significant.
It can be assumed that people are guided by more general motives for charity (Romani et al. 2013; Hildebrand et al. 2017), while answers to questions regarding pragmatic reasons and specific values (winning, government benefits, beliefs about lotteries in general) turn out to be insignificant. It can be doubted that there is a rational internal motivation to participate in charity. Studies (Norgaard 2006; Slote 2013; Cappelen et al. 2018) show that the structure of donations usually speaks in favor of the desire to avoid negative emotions, superstitious fears, and judgment, rather than in favor of the desire to help solve problems.

**Conclusions**

The study showed that Russian consumers are not aware of charity lotteries. The potential of charity lotteries to engage consumers in charity remains unclear. The study has established that subjective norms define behavioral intention. Behavioral intention is correlated with actual behavior. There is reason to believe that Russian consumers make decisions about charity either impulsively (as opposed to buying clothes online) or under pressure from their environment.

The Russian specificity of charity shows the importance of trust in a charity project. Charity lottery as a form of entertainment does not build trust. The trust factor is also related to the declared informal norms of behavior and public trust.
control, which are formed by cultural traditions and the media. Russian cultural traditions favor charity donations over lotteries.

The presence of additional value of a charity lottery for consumers is determined by the attitude of consumers. The hypothesis about the influence of the attitude on the behavioral intention has not been proven. Therefore, it cannot be stated that a charity lottery provides additional value to consumers. The effectiveness of the lottery as a method of fundraising is related to its ability to achieve the goal of charity (the more funds collected, the higher the efficiency). In order to achieve the desired behavior from consumers, it is necessary to form an intention (the behavioral intention) to participate in a charity lottery.

Correlation analysis made it possible to establish a weak influence of socio-demographic factors (Age, Gender, Marital Status, Ownership of Home, Educational Qualification, Employment, Annual Income) on behavior.

The construct Experience (Exper) was insignificant. Variables «I think lotteries are legal, so it helps in generating revenue for the state» and «The Governance of the country will impact my decision to buy CL» did not demonstrate sufficient significance.

Hypothesis H1 – the stronger the attitude towards (Aact), the stronger the behavioral intention (BI) – has not been confirmed.

Hypothesis H2 – the greater the perceived behavioral control (PBC), the stronger the behavioral intention (BI) – has not been confirmed.

Hypothesis H4 – the stronger the valuable belief in luck/karma, the stronger the behavioral intention (BI) – has not been confirmed.

Hypothesis H5 – the greater the normative beliefs (NB), the stronger the behavioral intention (BI) – has not been confirmed.

Hypothesis H3 – the stronger the subjective norms (SN), the stronger the behavioral intention (BI) – has been confirmed.

Hypothesis H6 – behavioral intention (BI) is correlated with actual behavior (B) – has been confirmed.

According to the theory of planned behavior, the choice of a person’s conscious decision is determined by three factors: attitude to behavior (Aact), subjective norms (SN) and perceived behavioral control (PBC). Together they form behavioral intention (BI). The results of the study showed that the behavioral intention is determined by subjective norms factors. Given the low awareness of Russian consumers and their environment about charity lotteries, there is no reason to consider charity lotteries an effective tool for raising funds.

**Data availability**

This project contains the following underlying data:

- Questionnaire Prospects for Using Charity Lotteries.xlsx (questionnaire responses for the study on prospects for using charity lotteries in social marketing)

Data are available under the terms of the Creative Commons Attribution 4.0 International license (CC-BY 4.0).

**Ethical approval and consent**
Approval was obtained from Peter the Great St. Petersburg Polytechnic University Institutional Review Board (Approving Number F-1-Q1-2022). An informed consent form was used to obtain consent from the participants of this study. All participants voluntarily took part in this study.

**Acknowledgments**
We are thankful to the Ministry of Science and Higher Education of the Russian Federation for the financial support of this project.
The work was supported by the Ministry of Science and Higher Education of the Russian Federation under the strategic academic leadership program ‘Priority 2030’ (Agreement 075-15-2021-1333 dated 30 September 2021).

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Version 2

Reviewer Report 03 August 2022

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✔ Muhammad Mohsin
School of Finance and Economics, Jiangsu University, Zhenjiang, China

Now the paper is ready for acceptance.

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: OK

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard.

Version 1

Reviewer Report 29 June 2022

https://doi.org/10.5256/f1000research.126402.r141077

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? Muhammad Mohsin
School of Finance and Economics, Jiangsu University, Zhenjiang, China

The title is interesting, and I can see merit in the paper, however I have few suggestions to improve the paper and some revisions should be made before indexing.

The introduction section is written well and composed very well. However, a good intro
presentation should be precise. The introduction needs to be more structured in terms of current citation from reputed journals.

Although the overall language of the manuscript is good and acceptable, a few grammatical and typo issues have been observed.

The authors partially define the amount of literature that has been carried out and where does gap persist in this area of filed. Additionally, the literature review is too short. I suggest using summary on which you reviewed the literature. Also, it would be nice to summarize the main gaps in the literature that your paper should fill, because it should be clear.

Better to add a summarizing paragraph at the end of the introduction showing the relationship between prospects for using charity lotteries in social marketing. Overall, this section contains enough explanation however the proposed model should be compared with some popular models to measure Prospects for using charity lotteries in social marketing.

The result and discussion sections have been presented in good structure. The result section should be compared with current and relevant citations. Again, the closing paragraph of the results can add to conclude the technical findings. Authors are suggested to improve the conclusion section since it is broadly handled and should be very concrete for describing the results followed by the policy. I would suggest a separate policy section after the conclusion. I hope my comments will help to improve the paper before publication, however, its policy implication section briefly deals with the suggestions and policy implications, which is an essential part of the description of the conclusion section.

Is the work clearly and accurately presented and does it cite the current literature?
Yes

Is the study design appropriate and is the work technically sound?
Yes

Are sufficient details of methods and analysis provided to allow replication by others?
Yes

If applicable, is the statistical analysis and its interpretation appropriate?
Yes

Are all the source data underlying the results available to ensure full reproducibility?
Yes

Are the conclusions drawn adequately supported by the results?
Yes

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: OK
I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.

Reviewer Report 29 June 2022

https://doi.org/10.5256/f1000research.126402.r141076

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Yuriy Yu Shvets

Department of Mathematics, Institute of Control of Science V.A. Trapeznikov RAS, Financial University under The Government of Russian Federation, Moscow, Russian Federation

Dear authors, thank you so much for giving me the opportunity to read and review your work.

1. This work aims to identify the prospects for using charitable lotteries as a marketing tool to involve consumers and employees in charitable activities. However, in the research methodology, the authors do not specify what interpretation of involvement they use in the study of participation in a charity lottery does not require significant efforts from the participants.

2. The authors set themselves the task of determining whether the charity lottery creates additional value for consumers. What is the potential for creating additional value for consumers in charitable lotteries themselves?

3. The authors' conclusions did not reflect consumers' attitudes to charitable lotteries as a gambling game. This point needs to be elaborated.

4. In the theoretical framework, the authors discuss the issue of consumer confidence in organizations that carry out activities within the framework of corporate social responsibility. It would be appropriate to explain how this problem is reflected in the observed variables.

5. Is there a barrier to charity in the form of a lottery if consumers have doubts about the good faith of the lottery organizer? Need a bit more explanation on this.

6. Factors of awareness of consumer behavior by what variables were measured? Need to elaborate.

7. What additional factors, according to the authors, should be measured additionally to improve the quality of the forecast of consumer behavior about charitable lotteries?

8. How do the authors plan to measure the effectiveness of the lottery as a method of raising
funds? This point is important to be discussed in the manuscript.

Is the work clearly and accurately presented and does it cite the current literature?
Yes

Is the study design appropriate and is the work technically sound?
Yes

Are sufficient details of methods and analysis provided to allow replication by others?
Yes

If applicable, is the statistical analysis and its interpretation appropriate?
Yes

Are all the source data underlying the results available to ensure full reproducibility?
Yes

Are the conclusions drawn adequately supported by the results?
Yes

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: self economy

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard.

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