Is Trust in Banks in Slovenia Put to the Test?

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Abstract

The question of the banking system's stability in connection to trust since the 2008 crisis has been the subject of many debates seeking to find permanent solutions to banking system problems, as the current situation affects bank customers' behavior. This article examined trust in banks during the financial crisis and offers, via demographic variables, explanations as to whether or not customers tend to withdraw their deposits during a crisis. The results contribute to banks' decision-making regarding deposits management and understanding customers' behavior, especially during a crisis. The results show a negative relationship between trust and deposit withdrawal intention, where gender and education level play an important role.

Keywords: trust, financial institution, bank, Slovenia, logistic regression

1 Introduction

This article deals with trust. In economics, trust is the main factor allowing the fractional reserve bank system to exist and is the most important characteristic in the relationship between financial institutions, including banks, and their customers. Bank customers have a tendency to buy banking services from a bank, which they consider to be trustworthy and sound. This already fragile connection is under a lot of pressure in normal circumstances, let alone during times of crisis, when banks are often held responsible (Hurlburt, Miller & Voas, 2009; Schelkle, 2011). However, the complexity of the phenomenon itself is shown by the fact that trust has not only been examined in economics, but also by psychologists, sociologists, anthropologists, and others (for example, see Mayer, 2004; Whitney, 1994). One angle is common to all: the fragility of trust. Trust is gradually built, but can be destroyed in a moment (more for example Rempel, Holmes & Zanna, 1985; Weber, Malhotra & Murnighan, 2004). Authors also talk about trust’s antipode—namely, mistrust (Tyler & Stanley, 2007)—and the perceived fairness of bank services (Szykman, Rahtz, & Plater, 2005). It is important to research and, in practice, implement trustworthy relationships because trust is a central concept on which other concepts, like loyalty and satisfaction (see Anderson & Narus, 1990) are based. These are a sustainable source of banks’ competitive advantage (see Trif, 2013). Taking all these facts into consideration, it is necessary to research trust in banking systems. Therefore, our research deals with the relationship of trust, deposit safety scheme, and deposit withdrawals during times of financial crisis.
in the case of the Slovenian banking system. We connected these variables with selected socioeconomic factors.

The article continues as follows. We start with a theoretical background. AS this is an empirically oriented study, we test the conceptual model and three main hypotheses regarding (1) the impact of gender, age, and level of education of bank customers on their perceived bank deposit safety; (2) the impact of those factors on customers’ perceived trust in the bank; and (3) the withdrawal of bank deposits connected to gender, age, and education. The third section of the article gives the research framework and delivers results. In the discussion and conclusion section, we assess the findings and give some suggestions for further research.

2 Literature Review

This literature review deals with trust, connecting it to other variables that we considered in our research. In the following paragraphs, we summarize the limited literature on trust as a concept in the financial markets context, with financial institutions being the foundation of that part of the economy. We then discuss trust in connection with gender, age, and education level. The financial crisis and its consequences for all levels of economy and society offer a sound reason to also define trust through the optics of its resilience during a financial crisis, when it is tested over and over again in the relationship between banks and customers. In addition, banks are burdened with the process of restructuring and are even subject to failures. Customers seem to have different attitudes toward these processes, ranging from fear to understanding.

The following section of the article is structured based on the research model depicted in Figure 1. This model incorporated concepts dealt with in the literature review; the hypotheses are presented and tested in the empirical part of the article.

2.1 Concept of trust in financial institutions

The body of literature in this field is mainly dedicated to banks rather than other financial institutions, which is probably due to the specifics of a bank as a company and its influence on the individual (Süchting, 1998). Trust is the most important category in the process of reaching a personal financial decision. As with all other services, banking services are intangible products and defined only by contract, which remove trust and make taking risks meaningless (Calderon, Chong, & Galindo, 2009; Sapienza & Zingales, 2009).

Moorman, Deshpandé, and Zaltman (1992) defined trust as preparedness to relate to a trustworthy partner in the broadest meaning of the word, while Coulter and Coulter (2002) added that a higher level of trust leads to better cooperation. Authors in general tend to define trust as a dynamic category, resulting from a process, and talk about different dimensions of trust. Therefore, it can be defined through different viewpoints. As McKnight & Chervany (2000) pointed out, trust can be seen as a notion, as systemic trust, as belief, and an intention to trust (Sztompka, 1999), where it develops from a quality relationship (Whitney, 1994) over individual characteristics to a cultural standard. Therefore, bank customers and banks have built systemic trust, which is theoretically defined as trust between an institution and an individual. Customers tend to perceive the banking institution as a relationship to a system as a whole (Bennet & Kottasz, 2012); here, trust built between the customer and an individual banking clerk is in the foreground and an important basis for bank customer loyalty (Gulati, 1995; Parkhe, 1993; Zineldin, 1995).

Trust is accompanied by other similar concepts, like loyalty and satisfaction that are interconnected and decisive in preserving the role of an individual bank as a customer’s main bank. Despite the fact that individuals’ subjective impression plays a leading role in defining what loyalty or satisfaction might be, trust and reliability are of great

Figure 1: Conceptual research model

![Figure 1: Conceptual research model](image-url)
importance in building and preserving customer loyalty (Bloemer, de Ruyter, & Peeters, 1998) Morgan and Hunt (1994) incorporated the concept of commitment into their model and defined it as a key element of banks’ customer relations strategy. A long-term relationship has a positive relationship to trust while a bad image has a negative relationship to trust.

However, trust needs a wider context than the bank–bank clerk–bank customer communication triangle to exist. It needs an operating, stable institutional framework (Aghion, Algan, Cahuc & Shleifer, 2010); Carlin, Dorobantu, & Viswanathan, (2009) and, consequently, a stable banking system given the regulatory and legislative demands. Stevenson and Wolters (2011) argue that the level of trust in this connection depends on the country’s development stage. In an international comparison (Coupé, 2011) of transition countries in Slovenia, 55% of respondents declared having trust in their banks. In the highly developed Netherlands (90%) or Austria (70%), the percentage is of course higher (Knell & Stix, 2010; Mosch & Prast, 2010), while for example in Bulgaria that level is significantly lower (Mudd & Valev, 2009).

2.2 Trust and financial crisis

Trust, being a dynamic factor, changes over time. Stevenson and Wolters (2011) demonstrated that changes in trust are connected with unemployment rate changes, which is quite a good predictor for future crises connected to bank deposit withdrawal (Guiso, Sapienza, & Zingales, 2008; Ramirez, 2009; Sapienza & Zingales, 2009). Deb and Chavali (2010) argued that the intention to deposit money is positively related to trust both pre- and post-crisis.

During our literature review, we did not come upon any research dealing with trust in connection to the views and demographic characteristics of bank customers in Slovenia, as addressed to in this article. Various public polls have been conducted in this regard in Slovenia, and the results were published in mass media (see Delo, 2013; Slovenske novice, 2012). Interestingly, regardless of events in Spain and Greece, 71% of Slovenians have not thought about withdrawing their deposits (Slovenske novice, 2012). Bank runs did not occur in our banking system, although the financial crisis affected the amount of savings deposited in banks as 60.9% of respondents had lower savings than before the crisis (Slovenske novice, 2012). Vox populi research in 2012 found contradicting results: Half of respondents worried about their savings in banks, while 27% thought that their deposits were no longer safe (Delo, 2013).

2.3 The impact of gender, age, and education on trust

Existing research on trust in the economic or business sense of the word has found that women have more troubles with trust in general (Alesina & La Ferrara, 2002). As consumers, women give more second thoughts to trust than men (Sheehan Bartel, 1999). Buchan, Croson, and Solnick (2008), in their research of behavioral differences in the investment game, discovered that men trust more than women, but women tend to be more trustworthy.

Regarding the influence of educational level on trust, the literature is relatively scarce. When it comes to dealing with trust within the economic context and in the field of financial institutions and/or banks, it is even scarcer. However, based on the research in Mexico, which examined numerous factors affecting the relationship, it has been argued that people with less education feel uncomfortable with banking issues (Djankov, Miranda, Seira, & Sharma, 2008). Although the study focuses on a less developed banking system, this example is nevertheless a good example of the complexity involved in researching the bank–customer relationship. Many possible angles have to be considered, such as present customers’ needs, future needs, retaining customers, and differences in the banking system’s development level. Thus, the current paper provides insights into the relationship of trust based on selected demographic variables and between various trust viewpoints and circumstances, as defined in the conceptual research model.

3 Research

3.1 Research methodology

3.1.1 Sample and data collection

A questionnaire was used to collect data from December 10, 2013, to January 27, 2014. The target population represented random users, over the age of 18, who were legally able to buy bank services in Slovenia independently. All the returned questionnaires were correctly completed. For the hypothesis testing, the data was collected based on a convenience non-random sample of 150 customers of bank services from Slovenia. In the total sample, 57% were male (n = 64) and 43% female (n = 86) respondents. A more detailed sample description is given in Table 1.
The time of period was chosen deliberately due to the fact that some significant changes occurred in the Slovenian banking system at that time. Two main events in the banking sector took place: The ownership structure changed due to the Slovenian government’s recapitalization of five banks, and the banking system’s restructuring process began with the supervised liquidation of two private banks, Factor Banka and Probanka. Non-performing assets were then transferred to the Bank Assets Management Company, established in March 2013 (BAMC, 2015; BS, 2015). Such events were so powerful and present in day-to-day media that they were expected to make the public think about the banking crises even more and put their trust in banks to the test.

3.1.3 Data analysis

We formally tested three hypotheses:

- **H₁:** Bank customers’ gender, age, and level of education affect their perceived bank deposit safety in times of crisis.

- **H₂:** Bank customers’ perceived bank deposit safety in times of crisis, gender, age, and education have a significant effect on their perceived trust in the bank in times of crisis.

- **H₃:** Customers’ perceived trust in the bank in times of crisis, gender, age, and level of education play a significant role in the decision to withdraw funds from their savings account in times of crisis.

We used binomial logistic regression (Hosmer & Lemeshow, 2000; Kedmenec, Tominc, & Rebernik, 2014), which estimates the probability of an event—in our case, the recognition of opportunities or not. We ran five binomial logistic regressions. While Model I includes only control variables, Models II, III, IV, and V include both the predictor variables and control variables. The parameters of the logistic response functions were estimated using the maximum likelihood method, which denotes changes in the log odds of the independent variable. In logistic regression, the observed and predicted values can be used to assess the fit of the model. The measure we use is the log-likelihood based on summing the probabilities associated with the predicted and actual outcomes (Field, 2009, p. 267):

\[
\text{Log-likelihood} = \sum_{i=1}^{N} [Y_i \ln(P(Y_i)) + (1-Y_i)\ln(1-P(Y_i))]
\]

To test whether the relationship between dependent and independent variables is direct or indirect, binary logistic regression was used to develop a model as follows:

\[
P(Y) = \frac{1}{1 + e^{-(b_0 + b_1 X_1 + b_2 X_2 + \cdots + b_k X_k)}}
\]

where:

- P(Y) is the probability of the dependent variable (Model I: bank deposit safety in times of crisis; Models II and III: trust in banks during a crisis; Models IV and V: withdrawal of savings in times of crisis)

- age, gender (dichotomous variable: females were assigned value 0 and males value 1), and education (categorical variable: less than secondary education, secondary education, and post-secondary education).
\[ b_0 = \text{a constant} \]
\[ b_i = \text{the estimated coefficients} \]
\[ X_i = \text{the independent variables} \]
\[ e = \text{the base of the natural logarithm} \]

The goodness of fit of the model was assessed using the Model \( \chi^2 \)-test, the rate of correct classifications, Nagelkerke’s (1991) \( R^2_N \), Cox and Snell’s (1989) \( R^2_{CS} \), and Hosmer and Lemeshow’s (2000) \( R^2_{H-L} \):

\[
R^2_N = 1 - e^{\left[-\frac{2}{n}\left(LL_{\text{new}} - LL_{\text{baseline}}\right)\right]} \tag{3}
\]

\[
R^2_{CS} = 1 - e^{-\frac{2LL_{\text{model}}}{n}} \tag{4}
\]

\[
R^2_{H-L} = \frac{-2LL_{\text{model}}}{-2LL_{\text{original}}} \tag{5}
\]

where \( LL \) is log-likelihood and \( n \) is sample size.

Hair, Anderson, Tatham, and Black (1998) argued that Cox and Snell’s \( R^2_{CS} \) is reported less frequently because it cannot reach the maximum value of 1. In order to test the significance of the regression coefficient, we used the Wald statistic, which is “usually used to ascertain whether a variable is a significant predictor of the outcome” (Field, 2009, p. 270):

\[
\text{Wald} = \frac{b}{SE_b} \tag{6}
\]

where \( b \) is the regression coefficient and \( SE_b \) the standard error.

The Wald statistic, Cox and Snell’s \( R^2_{CS} \), and Nagelkerke’s \( R^2_N \) are statistical tools used to test the effectiveness of a model by looking at whether a model fits the data (Seo, Ranganathan, & Babad, 2008). We also measured the value of the odds ratio (Exp(\( \beta \))), which is an indicator of the change in odds resulting from a unit change in the predictor. “The odds of an event occurring are defined as the probability of an event occurring divided by the probability of that event not occurring” (Field, 2009, p. 271). We can calculate the odds as:

\[
\text{odds} = \frac{P(\text{event})}{P(\text{no event})} = \frac{1}{1+e^{-(b_0+b_1X_1)}} \tag{7}
\]

\[
P(\text{no event}) = 1 - P(\text{event}) \]

\[
P(\text{Y}) = \text{the probability of Y occurring} \]
\[ e = \text{base of natural logarithms} \]
\[ b_0 = \text{constant} \]
\[ b_1 = \text{coefficient (or weight) attached to predictor} \]
\[ X_1 = \text{predictor variable} \]

In order to test whether the inclusion of predictor variables led to statistically significant improvements of the model, we used the Blok \( \chi^2 \)-test. We computed the improvement of the model as follows:

\[
\chi^2 = 2(LL_{\text{new}} - LL_{\text{baseline}}), \quad (df = k_{\text{new}} - k_{\text{baseline}}) \tag{8}
\]

where \( \chi^2 \) is the chi-square distribution, \( df \) is degrees of freedom, and \( k \) is number of parameters. The 0.05 (two-tailed) significance level was used. To test the hypotheses, it was appropriate to use SPSS 21 software.

### 3.2 Results

In Model I in Table 2, bank deposit safety in times of crisis is the dependent variable and demographic factors are the control variables. It can be seen that only gender and age are significant at the 0.05 level (Model \( \chi^2 = 30.267, p < 0.001 \)).

<table>
<thead>
<tr>
<th>Variables</th>
<th>Variable categories</th>
<th>Model I</th>
<th>Coeff. ( \beta )</th>
<th>S.E.</th>
<th>Wald</th>
<th>Exp(( \beta ))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>0-female</td>
<td></td>
<td>1.193**</td>
<td>0.399</td>
<td>8.943</td>
<td>3.296</td>
</tr>
<tr>
<td></td>
<td>1-male</td>
<td></td>
<td>-1.377*</td>
<td>0.640</td>
<td>4.638</td>
<td>0.252</td>
</tr>
<tr>
<td></td>
<td>Young population</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Middle population</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Older b.c.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>Less than secondary</td>
<td></td>
<td>-1.438**</td>
<td>0.772</td>
<td>3.474</td>
<td>0.237</td>
</tr>
<tr>
<td></td>
<td>Secondary degree</td>
<td></td>
<td>0.370**</td>
<td>0.449</td>
<td>0.681</td>
<td>1.448</td>
</tr>
<tr>
<td></td>
<td>More than Secondary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\[
\% \text{ of correct predictions} = 72.0 \]

Notes: ** significant at \( p < 0.01 \); * significant at \( p < 0.05 \); n.s. not significant; b.c. base category

Source: Authors’ calculations.
The relationship between gender and bank deposit safety in times of crisis is significant ($\beta = 1.193$, $p < 0.01$), indicating that male customers are more likely to perceive bank deposit safety in times of crisis compared to female ones. We also found that the younger population is less likely than the older population to perceive bank deposit safety in times of crisis ($\beta = -1.377$, $p < 0.05$), indicating that Hypothesis 1 can only be partially accepted.

Nagelkerke’s $R^2_N$ is a further modification of the Cox and Snell coefficient $R^2_{CS}$ to ensure that it can vary from 0 to 1 (Nagelkerke, 1991). For the model estimates, Cox and Snell’s $R^2_{CS}$ and Nagelkerke’s $R^2_N$ measures are 0.183 and 0.248, respectively, which confirm the statistical robustness of the estimated results. Hosmer and Lemeshow’s $R^2_{H–L}$ test ($\chi^2 = 28.064$; df = 7; $p < 0.001$) indicated that the predicted model fits well with the data. From Table 3, it can be seen that Model III, which includes both predictor and control variables, is significant at the 0.001 level (Model $\chi^2 = 99.285$, $p < 0.001$). As Block $\chi^2$ is also significant (Block $\chi^2 = 27.646$, $p < 0.001$), the inclusion of predictor variables into the model leads to significant improvement of the model compared to Model II. Bank deposit safety significantly predicts (Wald = 34.799, $p < 0.001$) the odds of trust in banks in times of crisis. In Model III, the relationship between bank deposit safety and trust in banks in times of crisis is significant ($\beta = 4.551$, $p < 0.001$), indicating that those customers who perceive bank deposit safety in times of crisis are more likely to have trust in banks in times of crisis.

Gender significantly predicts (Wald = 5.279, $p < 0.05$) the odds of trust in banks in times of crisis. Male customers are less likely to perceive trust in banks in times of crisis ($\beta = -1.417$, $p < 0.001$) than female customers.

### Table 3 Results of Logistic Regressions—Models II and III (Trust in banks in times of crisis (TB); 0–no, 1–yes)

<table>
<thead>
<tr>
<th>Variables</th>
<th>Variable categories</th>
<th>Model II</th>
<th>Model III</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Coeff. β S.E.</td>
<td>Wald</td>
<td>Exp(β)</td>
</tr>
<tr>
<td>Bank deposit safety in the crisis time</td>
<td>0-no 1-yes</td>
<td>3.317*** (0.466)</td>
<td>50.662</td>
</tr>
<tr>
<td>Gender</td>
<td>0-female 1-male</td>
<td>-1.417* (0.617)</td>
<td>5.279</td>
</tr>
<tr>
<td>Age</td>
<td>Young population Middle population Older population</td>
<td>-0.151 n.s. (0.809)</td>
<td>0.035</td>
</tr>
<tr>
<td>Education</td>
<td>Less than secondary Secondary degree More than Secondary b.c.</td>
<td>0.632 n.s. (1.683)</td>
<td>0.141</td>
</tr>
<tr>
<td>Constant</td>
<td>-1.833 (0.381)</td>
<td>-3.848 (0.874)</td>
<td></td>
</tr>
<tr>
<td>Model $\chi^2$ (df)</td>
<td>71.640*** (1)</td>
<td>99.285*** (6)</td>
<td></td>
</tr>
<tr>
<td>Block $\chi^2$ (df)</td>
<td>27.646*** (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-2LL (initial model) -2LL (final model)</td>
<td>134.595</td>
<td>106.949</td>
<td></td>
</tr>
<tr>
<td>$R^2_N$</td>
<td>79.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nagelkerke $R^2_N$</td>
<td>0.508</td>
<td>0.648</td>
<td></td>
</tr>
<tr>
<td>Cox &amp; Snell $R^2_{CS}$</td>
<td>0.484</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\chi^2$ Hosmer and Lemeshow’s $R^2_{H–L}$</td>
<td>3.346 n.s.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% of correct predictions</td>
<td>83.3</td>
<td>83.3</td>
<td></td>
</tr>
</tbody>
</table>

Notes: *** significant at $p < 0.001$; ** significant at $p < 0.01$; * significant at $p < 0.05$; n.s. not significant; b.c. base category; $1 – [2LL (final model) / –2LL (initial model)]$.

Source: Authors’ calculations.
The relationship between age and trust in banks in times of crisis is significant ($\beta = 1.937$, $p < 0.05$), indicating that middle-aged adults are more likely to perceive trust in banks in times of crisis than the older population. This means that Hypothesis 2 was partly proven.

Educational attainment is also significant, having a positive effect ($\beta = 2.340$, $p < 0.01$) on trust in banks in times of crisis. We also found that customers with a secondary degree are more likely to perceive trust in banks in times of crisis than those with a post-secondary degree. The $R^2$ model equaled 79.5%, which means that 79.5% of the variation in the dependent variable is explained by the model. The current model's Nagelkerke's $R^2$ is 0.648, which is fairly high, suggesting a good fit for the model. The predictive power of the model is very good, with an overall accuracy of 83.3%.

Table 4 summarizes the results of the binary logistic regression for Models IV and V. One predictor variable and three control variables were included in Model V. Trust in banks in times of crisis was included in Model IV; gender, age, and education were included in Model V. As the Block $\chi^2$ is also significant (Block $\chi^2 = 48.609$, $p < 0.001$), the inclusion of control variables in the model leads to a significant improvement of the model compared to Model V. It accounted for 27.7% (Cox and Snell’s $R^2$) to 37.2% (Nagelkerke’s $R^2$) of the variance in withdrawals of savings in times of crisis. The result of the Hosmer and Lemeshow test $R^2_{H-L}$ was significant ($\chi^2 = 23.0; df = 8; p < 0.01$), indicating that the model was good and the data fit the model well. This model correctly classified 76.7% of rates. The $R^2$ model equaled 84.6%, which means that 84.6% of the variation in the dependent variable is explained by the model.

### Table 4 Results of Logistic Regressions—Models IV and V (Withdrawal of savings in times of crisis (SW); 0–no, 1–yes)

<table>
<thead>
<tr>
<th>Variables</th>
<th>Variable categories</th>
<th>Model IV Coeff. β S.E.</th>
<th>Wald Exp(β)</th>
<th>Model V Coeff. β S.E.</th>
<th>Wald Exp(β)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trust in banks in crisis time</td>
<td>0-no 1-yes</td>
<td>-1.539*** (0.354)</td>
<td>18.840 0.215</td>
<td>-2.416*** (0.501)</td>
<td>23.254 0.089</td>
</tr>
<tr>
<td>Gender</td>
<td>0-female 1-male</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>Young population</td>
<td>0.279 n.s. (0.709)</td>
<td></td>
<td>0.154 1.321</td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>Middle population</td>
<td>1.941*** (0.539)</td>
<td></td>
<td>12.970 6.966</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>Less than secondary degree</td>
<td>0.279 n.s. (0.709)</td>
<td></td>
<td>0.154 1.321</td>
<td></td>
</tr>
<tr>
<td>Constant</td>
<td>0.519 (0.253)</td>
<td>4.218 1.680 -0.006 (0.602)</td>
<td>0.000 0.994</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model $\chi^2$</td>
<td>(df)</td>
<td>20.190*** (1)</td>
<td>48.609*** (6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block $\chi^2$</td>
<td>(df)</td>
<td>28.419*** (5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-2LL (initial model)</td>
<td></td>
<td>184.516</td>
<td>156.097</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$R^2$</td>
<td></td>
<td>84.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nagelkerke $R^2$</td>
<td></td>
<td>0.169</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cox &amp; Snell $R^2$</td>
<td></td>
<td>0.372</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\chi^2$ Hosmer and Lemeshow’s $R^2_{H-L}$</td>
<td></td>
<td>23.0*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% of correct predictions</td>
<td></td>
<td>68.7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: *** significant at $p < 0.001$; ** significant at $p < 0.01$; * significant at $p < 0.05$; n.s. not significant; b.c. base category; $= 1 – [2LL (final model) / – 2LL(initial model)]$

Source: Authors’ calculations.
The results of the main Model V (Table 4) show that trust in banks in times of crisis is associated with a higher likelihood of withdrawal of funds from bank accounts in times of crisis ($\beta = -2.416, p < 0.001$). This result explains that those customers who trust in their bank during a crisis are perceived to be less likely to withdraw their savings in times of crisis. Gender is also significant, having a negative effect ($\beta = -1.272, p < 0.01$) on withdrawal of savings in times of crisis. Males are less likely to perceive the need to withdraw money in times of crisis than females. The results also indicate that no significant relationship exists between age and withdrawal of funds in times of crisis. Finally, the level of education presents a positive, significant sign ($\beta = 1.941, p < 0.001$), indicating that those with a secondary degree perceive are more likely to withdraw money in times of crisis than those with a post-secondary degree. These results partially support Hypothesis 3.

4 Discussion and Conclusions

In this study, we used a conceptual research model to study the behavior of bank customers in times of crisis. We found a link between bank customers’ gender and age and bank deposit safety in times of crisis. Our research results show that male customers are on average 3.3 times more likely to perceive bank deposit safety in times of crisis than female customers ($\text{Exp}(\beta) = 3.296$). In addition, the younger population is on average only 0.3 times less likely to perceive bank deposit safety in times of crisis than the older population (Exp ($\beta$) = 0.089). Thus, banks have to continually invest resources in maintaining their customers’ trust to be able to maintain an adequate level of savings in their customers’ bank accounts.

We also focused on the influence of confidence in banks during a crisis and the impact of demographic factors on the withdrawal of money from a savings account in times of crisis. Customers who trust banks in times of crisis are on average only 0.1 times less likely to withdraw their savings during a crisis than those who do not trust banks in times of crisis (($\text{Exp}(\beta) = 0.089$). Thus, banks have to continually invest resources in maintaining their customers’ trust to be able to maintain an adequate level of savings in their customers’ bank accounts.

This study could be expanded to include other factors, such as the reliability of banks and trust in deposit schemes in times of crisis, as well as additional demographic factors (income, status). The study could also be extended to other comparable geographic markets. It is important to note that the bank customers were asked only about the possible decisions in times of crisis, but this might not necessarily reflect their concrete decisions and actions in times of crisis.

References


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Ali je zaupanje v banke v Sloveniji na preizkušnji?

Izveleč

Vprašanje stabilnosti bančnega sistema in zaupanje v banke sta, zlasti od leta 2008 naprej, v središču iskanja trajnih rešitev za težave bančnega sistema, ki temelji na zaupanju, trenutno stanje pa vpliva na vedenje uporabnikov bančnih storitev. V prispevku proučujemo zaupanje uporabnikov v banke v času finančne krize z izbranimi demografskimi spremenljivkami in s tem povezano možnost dviga prihrankov z bančnih računov. Rezultati raziskave so za banke koristni pri učinkovitem upravljanju prihrankov uporabnikov in razumevanju vedenja uporabnikov v času finančne krize. Med drugim smo namreč ugotovili, da obstaja negativna povezava med zaupanjem uporabnikov v banke in dvigom prihrankov uporabnikov bančnih storitev v času finančne krize, rezultati pa so odvisni od spola in ravni izobrazbe.

Ključne besede: zaupanje, finančna institucija, banka, Slovenija, logistična regresija