A Study Exploring the Perception of Technology Readiness and Use of Social Media by Independent Insurance Agents in Illinois

An Undergraduate Research Scholars’ Project

Conducted under the guidance of

The 2012 Hinderliter/Katie Insurance School

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Abstract
This study looks into the behaviors and perception concerning the use of social media by independent insurance agents in the Midwest, more specifically Illinois. By conducting this research we hoped to understand the potential benefits of using social media, as well as a sense of the perceptions and behaviors currently exercised. We also want to find out if the time and money which could be assigned to growing and supporting the use of social media on the agency side of business would be for the greater good or if efforts should be focused elsewhere. As it has been apparent in the news media lately there are good and bad ways to make use of social media in support of day to day business. The goal of this study is to get a grasp on the insurance agents’ current use of social media in support of the agency and how the benefits of doing this are perceived.

Undergraduates within the Katie School of Insurance and the College of Business at Illinois State University conducted the study. In support of the project three faculty members from within the same departments helped to facilitate the project. A sample was taken consisting of mainly older, male, and experienced insurance agents.

Highlights from the study included:

1. The survey results point out that Facebook and other social media networks are familiar to the sample of respondents.
2. The group seems to be convinced of the potential for business success in using social media.
3. However, these current uses (see Figure 6) and possible motivating factors (see Figure 8) do not seem to be translating into the agents’ intentions to develop their social networking practices within their agencies (see Figure 7). If agents truly intend to make greater use of social media tools in support of the business we would expect greater intentions to develop social networking tools in their agency practices. We suggest further investigation of the agents; motivation compared to social media tools and practices.
4. The findings from conducting cross-tabulation analyses show that demographics such as gender, age, and experience are not associated with the behaviors and perceptions in relation to the use of social media. Keep in mind the sample of respondents are mostly older, male, and experienced agents. Beware it may be difficult to apply the findings in a general matter to other situations without conducting further investigations.
5. In looking at the study from a psychographic perspective, based on Parasuraman and Colby’s (2001) Technology Readiness Index (TRI), many of the agents’ see themselves as mostly technology ready.

6. In calculating the TRI scores the results shown are modestly associated with (1) the intent of agents’ to use social media more heavily in support of the business, and (2) the view of how effective heavier use would be for the agency.

7. Also, and surprisingly, the single-item survey question of self-perceived TR (Q26) is only slightly related to the calculated TRI scores ($\rho=0.517$). What this means is that the two ways of measuring the TRI score may be inadvertently measuring different things.

8. In comparison to the findings of Parasuraman and Colby (2001), our findings are consistent with the results of the TR score becoming lower as the respondent’s age is greater.

9. Overall to summarize, not in line with what we had originally expected, the results show that the agents we surveyed do not appear overly eager to embrace social media in support of their agency practices.

We will present and discuss what our findings implicate and what we recommend for possible adoptions of using social media in support of business practices.

Introduction

This document reports the findings of a research project exploring the perceptions and uses of social media by independent insurance agents in Illinois. This study represents the inaugural effort of the Katie Insurance School Undergraduate Research Scholars Program at Illinois State University. This research was conducted for an anonymous client
involving independent insurance agents operating agencies in Illinois. The findings of our research generally point to (1) more use of Facebook and other social media in a personal aspect and in support of their agencies (not as much for the agency in comparison) than we expected, and (2) technology readiness is not the main difference in determining whether or not to use Facebook as a tool for supporting the agency among a mostly older, male, group of independent agents in Illinois.

The balance of this document is broke down into several sections. First, the historical background of the project is discussed. Second, the underlying theory of research questions is covered. Third, the methods used to statistically and empirically the identified research hypotheses are explored and explained. Fourth, the findings of the analyses are reported and interpreted. Lastly, the recommendations based on the results are offered for consideration.

**Historical Background**

This project derived from the collaboration between three parties: the Hinderliter Chair of Business at Illinois State University, the Katie Insurance School, and the client. The resulting *Undergraduate Research Scholars Program* embraced the purpose of engaging undergraduate students in practical, real world business research of sufficient quality to contribute to and influence current business practices. The Katie Insurance School generously contributed a $500 scholarship for up to six students selected from student volunteers from (all majors) within the College of Business who possess a 3.0 GPA (on a 4-point scale). Students were solicited via a personal email from the dean of the College of Business. Six students were selected post personal interviews by the Hinderliter Chair, representing a variety of academic majors (Marketing, Insurance, Management, and Accounting) within the College of Business.

Jim Jones developed a research opportunity for the initial project by working with the client. The basic question faced by the client is whether or not to invest in/pursue training, development, and service support for independent insurance agents’ in relation to social networking. Therefore, the overall research objective of this initial exploratory project generally concerned gaining a better (exploratory) understanding of independent insurance agents’ current perceptions and practices related to social networking.

**Underlying Theory**

Social media and networking have hugely integrated its presence into our society as of late. Using social media as a business tool has grown in a big way, but companies often have difficulty coming up with a winning formula to incorporate its use in successful business applications. Figure 1 shows a slide from a recent study of literature (Taylor and Weiland 2011)
concerning their consensus on the best practices in using social media in support of business operations based on what is known to date.

**Figure 1: Social Networking Best Practices (Taylor and Weiland 2011)**

Basically, Taylor and Weiland’s (2011) literature review concludes that there is still much left to find out about the best business practices based on the social media as it exists today. As the social media landscape and business world are changing greatly the lines are becoming blurred as to how to generally state the best way to use social networking in support of business practices across many industries. In discussing these best practices with the client the possibility of either positive or negative effects concerning the use of social media supporting independent insurance operations may be an unfamiliar concept to the agents’. Keeping this in mind we decided to develop an exploratory survey-based research project to begin to understand the independent insurance agents’ perceptions and practices in support of agency activities. Figure 2 presents the logic driving the development of the following study.

**What did we measure?**

In looking at Figure 2 below, it shows the study recommends identifying the participants’ social media uses and how they view social networking, from an agency and from a personal standpoint. The social media usage selected for this research study included the current usage of existing social media tool (Facebook, Twitter, a web site, etc.) for either
personal use or agency use (represented by yes/no answers). We also collected a number of 5 point responses measuring (1) the intent of the survey participant to “develop or enhance” their existing and/or agency social networking accounts, (2) the outlook on the business value for using social media in support of agency operations, and (3) the probability that using social media would translate into positive marketing outcomes relating to sales conversions, building relationships with customers, and/or personal brand building as an independent insurance agent. One limitation of the study was to constrain the survey to at most the front and back of a single sheet of paper based on the sponsoring client’s preference.
Figure 2: Logic of Project Development

In addition we searched for any possible group differences based on demographics and/or psychographics. The demographic segments chosen for consideration included gender, age, and experience as an independent insurance agent (years). These segments were selected based on discussions with the client and form the foundation of the first set of research hypotheses:

1 Grewal and Levy (2012, p. 594) define demographic segmentation as “The grouping of consumers according to easily measured, objective characteristics such as age, gender, income, and education.”
H1: A significant proportion of independent insurance agents in Illinois currently use Facebook for purposes of personal social networking.

H2: A significant proportion of independent insurance agents in Illinois currently use Facebook for purposes of agency social networking.

H3: A significant proportion of independent insurance agents in Illinois possess a strong intention to “develop or enhance” for purposes of personal social networking.

H4: A significant proportion of independent insurance agents in Illinois possess a strong intention to “develop or enhance” for purposes of agency social networking.

H5: A significant proportion of independent insurance agents in Illinois perceive that developing and using social networking tools in their agency practice would be worth investment.

H6: A significant proportion of independent insurance agents in Illinois perceive that developing and using social networking tools in their agency practice would yield positive marketing outcomes.

H7: The use of social networking tool for personal use varies by gender.

H8: The use of social networking tool for agency use varies by gender.

H9: The use of social networking tool for personal use varies by age.

H10: The use of social networking tool for agency use varies by age.

H11: The use of social networking tool for personal use varies by agent’s experience.

H12: The use of social networking tool for agency use varies by agent’s experience.

Potential psychographic2 group differences were also looked at. The idea of technology-readiness (TR) was conceptualized by Parasuraman and Colby (2001) to reflect the critical concepts for successfully marketing innovative products and services which are technology intensive. To explain what TR is leads to a discussion of a person’s own perception of their ability and willingness to take on and use new technologies in support of business and/or personal goals. A typical discussion about what TR is usually includes that it (1) varies between individuals, (2) is multifaceted, and (3) predicts and explains how consumers respond to new technologies.

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2 Grewal and Levy (2012, p. 601) define psychographics as “Used in segmentation; delves into how consumers describe themselves; allows people to describe themselves using characteristics that help them choose how they occupy their time (behavior) and what underlying psychological reasons determine those choices.”
The main reason we really were interested in the TR tool is because of the possible capabilities to predict and explain responses to using new technologies. This offered us the chance to explain the psychographic variables explored in the survey.

The TR developers, Parasuraman and Colby, next developed the technology-readiness index (TRI) as a way of measuring the idea of TR through conducting a survey of consumers. In their development process they discovered four differentiating segments of TR, including (1) optimism and innovativeness which serve as contributors increasing an individual’s TR, and (2) discomfort and insecurity which act as inhibitors of TR. They also developed a shorter version of the measuring tool consisting of only 10 surveyed items. Our research survey used the shortened version of the TRI (See Appendix A)

Our research considered whether the behaviors and perceptions of using social media varied by TR score in examining the psychographic segmentation. The reasoning behind using the TR to potentially get a better look into the psychographic segmentation is that it is assumed independent insurance agents would most likely have to possess a higher TR score to have the capability and the wherewithal to effectively adopt and use present and developing social media tools in support of their business needs. Keeping this in mind it led us to the final set of hypotheses:

H13: The intention of the respondent to “develop or enhance” their existing personal social networking accounts is associated with TRI scores.

H14: The intention of the respondent to “develop or enhance” their existing agency social networking accounts is associated with TRI scores.

H15: Self-perceptions of TR are positively associated with perceptions of the value of investing in social networking in agency practice.

H16: Self-perceptions of TR are positively associated with perceptions of positive business outcomes with social networking in agency practice.

**Methods**

Our project and team members acquired the Institutional Review Board (IRB) approval before conducting any data collection (IRB #2011-0167). This is common practice among research projects at Illinois State University. The population captured herein were primarily made up of independent insurance agents in the state of Illinois, but were also from states among the Midwest region.

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1 Individual team members also completed the mandatory research training. Their IRB training confirmation numbers are available upon request from Dr. Taylor.
The client, student researchers, and supporting faculty agreed on an opportunity to collect data from this population during an annual tradeshow and convention of independent insurance agents being held in East Peoria, IL from October 12-14, 2011. A plan was implemented with the student researchers conducting data collection by approaching and requesting possible participants to fill out the survey instrument during the tradeshow and the sign in process. This situation required the survey instrument to be a short physical form allowing the participants to quickly and effectively provide the requested data. All the surveys were secured and transported by the student researchers during the data collection process. There were 189 surveys collected by the research team. The possible participants were approached during the tradeshow and sign in process by the student researchers who identified themselves, why the study was being conducted, and who was benefiting from the study being conducted. Those who voluntarily agreed to participate were asked to fill out the survey as completely as possible as best as they could answer the questions honestly. They were also told if they felt at all uncomfortable about answering the survey they had no obligation to complete it. The data collected was input into an Excel spreadsheet which was then double checked by another student other than the one who originally entered the data.

(Will add in about different statistical methods used here) Please make it a brief paragraph stating the method, the research question (why it was used), and the associated software. A table would be the easy way to do this.
Results

Before considering the implications of the data please be aware that the data and the analyses are exploratory in nature. The results of the different analyses are shown visually as much as possible to ease interpretation. First, a description of the obtained sample is presented. Second, the descriptive analyses of the participants’ uses and perceptions in relation to social media are displayed. Third, cross-tabulation analyses of the participants’ uses and perceptions in relation to social media are examined. Lastly, the TRI scores are shown and evaluated, our analyses included predictions about the respondents’ possible uses and perceptions in relation to social media. At the end of each section there is a short summary of the results shown.

Figure 3: Sample Description by Gender
Sample Description

Summary:
Figures 3-5 visually depict what has been previously stated about the demographics of the sample collected from. The sample is mainly made up of older, male, insurance agents with many years of experience.
Descriptive Analyses of Respondents Behaviors and Perceptions Related to Social Networking

Figure 6: Behavior Description by Social Networking Tool

Figure 7: Mean Intention to Develop/Enhance by Social Networking Tool (5 point scale of 1-5)
Summary of Results Associated with H1-H6:

Figures 6-8 are associated with Hypotheses H1-H6. Figure 6 shows the respondents seem to, as a majority; be using social media in their personal lives as a means for entertainment and communication. Also, and surprisingly, over 50% of the survey participants reported using some type of social media in support of their agency operations. Outside from social media the agents reports popularly, the use of web sites in support of agency operations. This translates into our H1 being supported and H2 being only slightly supported.

Figure 7 shows the participants’ intentions to initially begin or further develop the use of social media in support of their agency operations. It shows there intentions to be “Low” to “Lukewarm” even as the data shows their intentions to use social media for the agency in this context to be higher than for personal use. This translates to our H3 and H4 to be not supported in the instance of this collected data.

Figure 8 shows an optimistic perception of the potential value in using social media in support of agency operations. Most agents foresee a value in using social media to build customer relationships, and also build and increase agency brand without having to invest an exorbitant amount of time or finances to run social media and networking tools. Furthermore, most of the survey participants agree that the use of social media could lead to a significant increase in conversion rates for the agency. This translates to both hypotheses H5 and H6 being supported by the data. These findings are peculiar when looking at what the data is suggesting about the agents intentions from Figure 7.
Composed, the findings in this section show a familiarity among the respondents concerning Facebook and other social media tools. Even more so, the data shows the overall thought process on social networking is that investing in social media tools in supporting agency operations has a potential to provide positive business effects. Keep in mind though the present use (see Figure 6) and possible motivators (see Figure 8) do not seem to transfer into the agents’ intending to either begin or further develop the use of social media in support of business operations (see Figure 7). This group of agents seems to be already of the mindset that the use of social media can offer positive business results. In order to more effectively recommend a set of actions surround the use of social media for the client, the data tells us more investigation is needed to better understand the motivating factors of the agents in using these tools.

Cross-tabulation Analyses of Respondents Behaviors and Perceptions Related to Social Networking

Hypotheses H7-H12 adds to our descriptive analyses. We used Cross-tabulation techniques in our analyses. Cross-tabulations are used to describe relations between variables. An example from this study is the use of social media tools, the outlook on how efficient using social media would be, and so on. These variables are analyzed verses another type of variable such as in this research: gender, age, and agent experience. Table 1 provides the finding of our Cross-tabulation analyses. Significant relations are shown in Table 1 by $\chi^2$ $p$-values smaller than .05. Our analyses did not discover any significant relations between said demographic variables (gender, age, experience) and the uses/outlooks associated with social media.

Summary of Results Associated with H7-H12:

Table 1 shows the current usages and outlooks in relation to social media are not associated with the demographic characteristics of gender, age, or experience. However, readers must keep in mind the quite significantly uniform nature of the sample of respondents for this research in attempt to understand what the data is showing.

Table 1: Cross-tabulations Analyses
<table>
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<th>Variable 2</th>
<th>( \chi^2 ) p-values</th>
<th>Significance</th>
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A Consideration of Technology Readiness in Explaining Agents’ Behaviors and Perceptions Related to Social Networking

TRI Description

As discussed earlier, we used the concept of technology-readiness (TR) as a possible predictive psychographic variable in the context of the agents developing social media tools in support of their business operations. To reiterate what TR is, it (1) varies between individuals, (2) is multifaceted, and (3) predicts and explains how consumers respond to new technologies.

While looking at H13-H16 it shows a possibility in which the psychographic segmentation variables may very well offer a better way to support the use of social media for marketing processes rather than using the demographic variables to predict this. As already stated using the demographic variables probably do not always offer the best solution for the client in building a marketing strategy. In deciding to use the TRI we hypothesized it would offer a superior view of communication approaches for the different segments. Also, we wanted it to effectively measure the success of current communication efforts within different target markets. In conducting the research we made use of the condensed version of the TRI measurement tool which included only 10 items (see Appendix A). Appendix A also shows the instructions covering how to calculate and analyze the TRI score outcomes.

Descriptive Analyses of TRI Scores

TRI scores range from +16 to -16, with the more positive scores showing a greater technology readiness. Figure 9 offers the results of frequency analyses from the scaled down 10-item TRI measurement tool. We also made use of a direct predicting question (Q26: I consider myself to be relatively proficient in embracing and using new technologies for accomplishing goals in home life and at work) to compare with the results of the 10-item measurement tool. Either tool (single or 10-item) used to measure TR shows this group of survey participants feels they are mostly “technology ready”. Q26, the single item question, more specifically only correlates to four of the ten question items receiving a neutral rating response. Basically the survey respondents seem to see technology as expanding their hours of productivity (Q29) and making them more efficient in their occupation (Q35). The results in Figure 9 mostly show independent insurance agents in Illinois by means of psychographics see themselves as mainly technology ready.
The following question we reflected upon is if the agents’ insight about their technology readiness (TR) has any relation to their outlook and trust in how effective social media tools could be in support of agency operations. Table 2 offers correlations analyses to assist in answering this question. The findings start by suggesting the calculated TRI scores are only somewhat related to either (1) agents intent to further develop social media in the support of business operations, and (2) the outlook on how effective these developments could potentially be. So basically, the final observations which can be drawn from Table 2 is that H13-H16 are all somewhat supported by the results of the data collected from the surveys. Another captivating point is the single-item question (Q26) about the agents own insight on their technology readiness show only a moderate relation to the calculated TRI scores. One possible meaning of this is that what the respondents view about their own TR and what the authors Parasuraman and Colby’s (2001) meant to measure with their survey concept may have some varied differences. Keep in mind, while viewing and contemplating these findings, minute differences within this sample of surveyed respondents may also explain the moderate relation.
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<th>tri</th>
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<th>q16</th>
<th>q20</th>
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<td>.260**</td>
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<td>.119</td>
<td>.170*</td>
<td>.124</td>
<td>.517**</td>
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<td>.000</td>
<td>.001</td>
<td>.034</td>
<td>.125</td>
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<td>.328**</td>
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<td>.301**</td>
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<td>.704**</td>
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<td>.380**</td>
<td>.393**</td>
<td>.468**</td>
<td>.208**</td>
</tr>
<tr>
<td>N</td>
<td>151</td>
<td>169</td>
<td>166</td>
<td>166</td>
<td>166</td>
<td>166</td>
<td>166</td>
<td>164</td>
<td>168</td>
</tr>
<tr>
<td><strong>Believe that developing/using SN tools in agency practice would be worth time &amp;</strong></td>
<td>.169*</td>
<td>.421**</td>
<td>.497**</td>
<td>1</td>
<td>.901**</td>
<td>.685**</td>
<td>.673**</td>
<td>.796**</td>
<td>.225**</td>
</tr>
<tr>
<td>N</td>
<td>159</td>
<td>169</td>
<td>166</td>
<td>177</td>
<td>176</td>
<td>176</td>
<td>176</td>
<td>174</td>
<td>177</td>
</tr>
<tr>
<td><strong>Believe that developing/using SN tools in agency practice would be worth necessary</strong></td>
<td>.122</td>
<td>.396**</td>
<td>.450**</td>
<td>.901**</td>
<td>1</td>
<td>.699**</td>
<td>.658**</td>
<td>.751**</td>
<td>.191*</td>
</tr>
<tr>
<td>N</td>
<td>159</td>
<td>169</td>
<td>166</td>
<td>177</td>
<td>176</td>
<td>176</td>
<td>176</td>
<td>174</td>
<td>177</td>
</tr>
<tr>
<td><strong>Believe that developing/using SN tools in agency practice can enhance relationship building.</strong></td>
<td>.119</td>
<td>.361**</td>
<td>.380**</td>
<td>.685**</td>
<td>.699**</td>
<td>1</td>
<td>.601**</td>
<td>.707**</td>
<td>.190*</td>
</tr>
<tr>
<td>N</td>
<td>159</td>
<td>169</td>
<td>166</td>
<td>177</td>
<td>176</td>
<td>176</td>
<td>176</td>
<td>174</td>
<td>177</td>
</tr>
<tr>
<td><strong>Believe that developing/using SN tools in agency practice can enhance personal brand as an independent.</strong></td>
<td>.170*</td>
<td>.328**</td>
<td>.393**</td>
<td>.673**</td>
<td>.658**</td>
<td>.601**</td>
<td>1</td>
<td>.721**</td>
<td>.227**</td>
</tr>
<tr>
<td>N</td>
<td>156</td>
<td>169</td>
<td>166</td>
<td>177</td>
<td>176</td>
<td>176</td>
<td>176</td>
<td>174</td>
<td>177</td>
</tr>
<tr>
<td><strong>Believe that developing/using SN practice can enhance personal brand as an independent</strong></td>
<td>.124</td>
<td>.433**</td>
<td>.468**</td>
<td>.796**</td>
<td>.751**</td>
<td>.707**</td>
<td>.721**</td>
<td>1</td>
<td>.186*</td>
</tr>
<tr>
<td>N</td>
<td>157</td>
<td>167</td>
<td>164</td>
<td>174</td>
<td>174</td>
<td>174</td>
<td>175</td>
<td>175</td>
<td>175</td>
</tr>
<tr>
<td>Single-item Self perceived TR</td>
<td>.517**</td>
<td>.301**</td>
<td>.208**</td>
<td>.225**</td>
<td>.191*</td>
<td>.190*</td>
<td>.227**</td>
<td>.186*</td>
<td>1</td>
</tr>
<tr>
<td>N</td>
<td>165</td>
<td>176</td>
<td>168</td>
<td>177</td>
<td>177</td>
<td>178</td>
<td>178</td>
<td>175</td>
<td>186</td>
</tr>
</tbody>
</table>

Readers will note that q26 represents a single-item overall TRI question, whereas “tri” represents the calculate tri scores. * Correlation is significant at the 0.05 level (2-tailed). ** Correlation is significant at the 0.01 level (2-tailed).
Parasuraman and Colby (2001) point out generally the TRI scores most usually vary by age. We wanted to analyze and validate this assumption by conducting an ANOVA analysis, which was previously explained, to segment the TRI scores into three age categories (Age Group 1: <35 y/o, Age Group 2: 36-50 y/o, Age Group 3: >51 y/o). Figure 10 visually offers the results of these ANOVA analyses. We found the results to be statistically significant (F=3.329, p=.038). Consistent with the findings of Parasuraman and Colby (2001), the collected data shows as the survey participants age is greater their TR on average becomes lower.

![Figure 9: Mean TRI Item Scores (5 point Likert scale of 1-5) X Age](image)

**Cluster Analyses of TRI Scores**

While using cluster analysis, Parasuraman and Colby identified five segments of TR consumers while developing their survey scale. To specify more of what cluster analysis does is it is basically used for identifying groups with uniformity within psychographic segments instead of demographic segments. In comparison to Parasuraman and Colby (2001), another researcher Tsikriktsis (2004) replicated the TRI scale through cluster analysis only in his research he sampled a population from England rather than the US. His findings resulted in only four
homogenous cluster groups, not five. In consideration of this information it is important to not disregard the results of the cluster analysis in our particular research study. Figure 10 visually shows the results of an exploratory cluster analysis using SYSTAT 13 (hierarchical method).

Cluster Tree

![Cluster Tree](image)

Figure 10: Cluster Analysis of TRI Scores

The findings shown here in Figure 10 advocate a varied set of solutions may be considered. Also, our results seem to differ from the five-cluster model discovered in Parasuraman and Colby’s (2001) development. If you look back to Figure 9 above the greatest mean TRI scores are all related with items found to be within the second general cluster group. Because of this we recoded the two more general clusters for the following analyses.

Predictive Analyses of Respondents Behaviors and Perceptions Related to Social Networking Based on TRI Scores.

For the research client the TRI scores and analyses may be best used by their organization to predict the outlook and usage of social media tools within their group of independent agents. If the TRI scores for this researched group do not relate to the predicted outlook and/or usage of the agents its best advised to pursue more investigation into the motivating factors which would better predict these. Because of the questions arising from the data we conducted further analyses of the TRI scores in the hopes of the TRI predicting behaviors and perceptions of this researched group.
Table 3 shows the result of these analyses. It is a good idea to consider what the analyses results from Table 2 have displayed. As discussed earlier there were slight differences between the single item predictor of TR (Q26) and the calculated TRI score of .517. Since both of these measures tend to be measuring slightly different things, we decided to run the predictive analyses using both TRI measures to allow for comparison of the results. The results of the TRI scores turned out not to be a strong predictive method among these independent insurance agents’ concerning their social media outlooks and practices.
<table>
<thead>
<tr>
<th>Measurement Level</th>
<th>Dependent Variable</th>
<th>Independent Variable</th>
<th>Equation (Unstandardized)</th>
<th>R2</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous (Traditional Regression)</td>
<td>Q12</td>
<td>Q26</td>
<td>.440B</td>
<td>.09</td>
<td>Neither the direct measure of calculated measure of TRI appears to explain very much variance in Illinois independent insurance agents’ perceptions of the business efficacy of social networking.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculated TRI score</td>
<td>.068</td>
<td>.09</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Q16</td>
<td>Q26</td>
<td>.316B</td>
<td>.043</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculated TRI score</td>
<td>.064B</td>
<td>.067</td>
<td></td>
</tr>
<tr>
<td>Ordinal (Logistic Regression)</td>
<td>Q4</td>
<td>Q26</td>
<td>-.617B</td>
<td>.089</td>
<td>Neither the direct measure of calculated measure of TRI appears to explain very much variance in Illinois independent insurance agents’ present social networking behaviors.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculated TRI score</td>
<td>-.136B</td>
<td>.129</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Q5</td>
<td>Q26</td>
<td>-.326B</td>
<td>.032</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculated TRI score</td>
<td>-.118B</td>
<td>.119</td>
<td></td>
</tr>
</tbody>
</table>

Q12: “Within the next 12-24 months, the likelihood that I intend to develop or enhance each of the following types of social networking accounts **for my personal use** is ...” A Facebook, LinkedIn, or Google+ account -- (0=None, 4=Very High).

Q16: “Within the next 12-24 months, the likelihood that I intend to develop or enhance each of the following types of social networking accounts **for my agency use** is ...” A Facebook, LinkedIn, or Google+ account -- (0=None, 4=Very High).

Q4: “I currently have an active version of the following types of social networking accounts ...” A Facebook, LinkedIn, or Google+ account -- (For My Personal Use, 1=Yes, 2=No).

Q5: “I currently have an active version of the following types of social networking accounts ...” A Facebook, LinkedIn, or Google+ account -- (For My Agency Use, 1=Yes, 2=No)
Summary

Table 4 offers a summary of the findings associated with the research hypotheses essential to the current research.
<table>
<thead>
<tr>
<th>Hypothesis</th>
<th>Result</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1: The majority of independent insurance agents in Illinois currently use Facebook for purposes of <em>personal</em> social networking.</td>
<td>Supported</td>
<td>Together, the results in this section suggest that Facebook and other social networking tools are not unknown to this group of respondents. Further, there appears to be a general impression that investment in such tools for agency purposes can yield positive business outcomes. However, these existing behaviors (see Figure 6) and potential motivations (see Figure 8) do not appear to be translating to agents’ intentions to increase the development of their social networking practices within their agencies (see Figure 7). If IIA’s intention is to foster greater use of social networking within independent agents’ practices within the state of Illinois, it appears that (marketing communication) arguments should be based on something other than potential positive business outcomes. This group already appears largely convinced of potential positive business outcomes associated with such efforts. This suggests the need for a future study of agents’ motivations vis-à-vis social networking tools and practices.</td>
</tr>
<tr>
<td>H2: The majority of independent insurance agents in Illinois currently use Facebook for purposes of <em>agency</em> social networking.</td>
<td>Weakly Supported</td>
<td></td>
</tr>
<tr>
<td>H3: Most independent insurance agents in Illinois possess a strong intention to “develop or enhance” for purposes of <em>personal</em> social networking.</td>
<td>Not Supported</td>
<td></td>
</tr>
<tr>
<td>H4: Most independent insurance agents in Illinois possess a strong intention to “develop or enhance” for purposes of <em>agency</em> social networking.</td>
<td>Not Supported</td>
<td></td>
</tr>
<tr>
<td>H5: Most independent insurance agents in Illinois perceive that developing and using social networking tools in their <em>agency</em> practice would be worth investment.</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>H6: Most independent insurance agents in Illinois perceive that developing and using social networking tools in their <em>agency</em> practice would yield positive marketing outcomes.</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>H7: The use of social networking tool for personal use varies by gender.</td>
<td>Not Supported</td>
<td></td>
</tr>
<tr>
<td>H8: The use of social networking tool for agency use varies by gender.</td>
<td>Not Supported</td>
<td></td>
</tr>
<tr>
<td>H9: The use of social networking tool for personal use varies by age.</td>
<td>Not Supported</td>
<td></td>
</tr>
<tr>
<td>H10: The use of social networking tool for agency use varies by age.</td>
<td>Not Supported</td>
<td></td>
</tr>
<tr>
<td>H11: The use of social networking tool for personal use varies by agent’s experience.</td>
<td>Not Supported</td>
<td></td>
</tr>
<tr>
<td>H12: The use of social networking tool for agency use varies by agent’s experience.</td>
<td>Not Supported</td>
<td></td>
</tr>
</tbody>
</table>

Table 1 is associated with Hypotheses H7-H12 and suggests that behaviors and perceptions related to social networking are not associated with the demographic characteristics of gender, age, or experience. However, readers are cautioned to consider the relatively homogenous nature of the sample of respondents for this study in efforts to interpret and/or generalize these results.
Table 2 is associated with Hypotheses H13-H16 and suggests that calculated TRI scores are only weakly associated with both (1) intentions to further embrace social networking practices, and (2) perceptions of the efficacy of such embrace. Thus, the conclusion apparent from Table 2 is that H13-H16 are all Weakly Supported by the obtained data in this study. Second, and interestingly, the single-item survey question of self-perceived TR (Q26) is only moderately related to the calculated TRI scores. This suggests that there may be some difference between what this cohort thinks “technology readiness” represents vis-à-vis Parasuraman and Colby’s (2001) construct conceptualization. Readers should also consider that simple sample differences should be equally considered as an explanation.

<table>
<thead>
<tr>
<th>Hypothesis</th>
<th>Support</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>H13: The intention of the respondent to “develop or enhance” their existing personal social networking accounts is associated with TRI scores.</td>
<td>Weakly Supported</td>
<td></td>
</tr>
<tr>
<td>H14: The intention of the respondent to “develop or enhance” their existing agency social networking accounts is associated with TRI scores.</td>
<td>Weakly Supported</td>
<td></td>
</tr>
<tr>
<td>H15: Self perceptions of TR are positively associated with perceptions of the value of investing in social networking in agency practice.</td>
<td>Weakly Supported</td>
<td></td>
</tr>
<tr>
<td>H16: Self perceptions of TR are positively associated with perceptions of positive business outcomes with social networking in agency practice.</td>
<td>Weakly Supported</td>
<td></td>
</tr>
</tbody>
</table>
Implications & Recommendations

There are many implications and recommendations based on the research and analyses for this conducted research. First, we found that many of the participants have been using social media for their own personal use. We were surprised to find out the number of respondents who stated they were also engaged in the use of social media in support of their agency operations. The data also revealed a popular consensus around the positive feelings that using social media in support of agency operations had true potential for being effective. Moreover it seems to be there is little motivation to increase the use of social media among this group of independent insurance agents for the purpose of supporting the business activities. One question which arose out of conducting this research, that our data was unsuccessful in answering, is what would be the motivating factors for agents to increase their adoption and implementation of social media tools in support of agency operations? In looking into this question it provides a wonderful starting point for continued investigation in the future.

Second, in this case the concept of being technology ready does not seem to be a motivating factor. At this point in time the indication is not that a greater feeling of technology readiness among independent insurance agents will translate into this population feeling there would be an increase in business success from increasing their use of social media tools. The agents (1) already see themselves as largely “technology ready enough,” and (2) seem to already expect such outcomes. Finding out and testing what ideas could serve this group as motivating factors would be a beneficial for further investigative studies.

Third, a positive finding for the client is that they can likely treat the older, experienced group of agents with an undifferentiated approach of communicating social media issues and information. This could be done instead of communicating separately across the varied segments within this group. This recommendation is supported by the results of the chi square test in Table 1. It is also suggested that additional psychographic segmentation variables should be investigated in future research.

Fourth, this conducted research was constrained to only a select few types of social media tools. It is recommended that the client conduct further studies looking into other avenues of social networking tools. Actually, some survey questions refer to the use of “other” tools. In each of these instances, some respondents are indeed using some other form of social media. It would be beneficial to know what these “other” tools are and in what capacity they could be implemented to support agency activities. The Hubspot learning Center (http://learning.hubspot.com/blog) provides an excellent place to begin compiling resources for this purpose.
Finally, we have discussed other possible research avenues which could prove to be insightful. One instance was to survey what the customer’s outlook on the value of social media in dealing with their independent insurance agent is. Also a more specific look into the different options and tools within each individual social media network (i.e. Facebook, LinkedIn, and Google+). This would offer up a chance see what differences were available and would be the most beneficial in supporting agency activity.

**Bibliography**


Appendix A: How to Calculate and Interpret a TRI Score

Calculating a TRI Score

Directions: Indicate whether you "strongly agree", "somewhat agree," are "neutral," somewhat disagree," or "strongly disagree" with the following statements:

<table>
<thead>
<tr>
<th>Strongly Agree</th>
<th>Somewhat Agree</th>
<th>Neutral</th>
<th>Somewhat Disagree</th>
<th>Strongly Disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

a. I can usually figure out new hi-tech products and services without help from others.

b. New technology is often too complicated to be useful.

c. I like the idea of doing business via computers because you are not limited to regular business hours.

d. When I get technical support from a provider of a high-tech product or service, I sometimes feel as if I’m being taken advantage of by someone who knows more than I do.

e. Technology gives people more control over their daily lives.

f. I do not consider it safe giving out a credit card number over a computer.

g. In general, I am among the first in my circle of friends to acquire new technology when it appears.

h. I do not feel confident doing business with a place that can only be reached online.

i. Technology makes me more efficient in my occupation.

j. If you provide information to a machine or over the Internet, you can never be sure if it really gets to the right place.
Interpreting Responses to the TR Index

<table>
<thead>
<tr>
<th>Compute your Technology Readiness Index as follows: (a+c+e+g+i)-(b+d+f+h+j) If your index score is....</th>
<th>Your percentile among the adult U.S. general population is....</th>
<th>You would be considered....</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>99%</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>98%</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>97%</td>
<td>Highly techno-ready</td>
</tr>
<tr>
<td>10</td>
<td>94%</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>91%</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>86%</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>79%</td>
<td>Somewhat techno-ready</td>
</tr>
<tr>
<td>2</td>
<td>70%</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>65%</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>59%</td>
<td></td>
</tr>
<tr>
<td>-1</td>
<td>51%</td>
<td>Average</td>
</tr>
<tr>
<td>-2</td>
<td>44%</td>
<td></td>
</tr>
<tr>
<td>-4</td>
<td>34%</td>
<td></td>
</tr>
<tr>
<td>-6</td>
<td>24%</td>
<td>Somewhat techno-resistant</td>
</tr>
<tr>
<td>-8</td>
<td>19%</td>
<td>Somewhat techno-resistant</td>
</tr>
<tr>
<td>-10</td>
<td>11%</td>
<td></td>
</tr>
<tr>
<td>-12</td>
<td>7%</td>
<td>Highly techno-resistant</td>
</tr>
<tr>
<td>-14</td>
<td>5%</td>
<td>Highly techno-resistant</td>
</tr>
<tr>
<td>-16</td>
<td>2%</td>
<td></td>
</tr>
</tbody>
</table>
Appendix B: The Survey

THANK YOU for agreeing to complete this short, but important survey about social networking practices for our client. Your honest answers will help your professional association better understand the possible issues related to social networking and insurance practices. This survey will take less than five minutes to complete.

First, we would like to know just a little bit about who is responding to this survey. This will allow us to properly generalize results. Your survey responses are anonymous.

1. My gender is: _____ Male _____ Female

2. My age (in years) is:
   _____ < 26 _____ 26-30 _____ 31-35 _____ 36-40
   _____ 41-45 _____ 46-50 _____ 51-55 _____ > 55

3. In total, I have been an insurance agent for _____ years:
   _____ < 5 _____ 6-10 _____ 11-15
   _____ 16-20 _____ 21-25 _____ > 25

These next questions concern your social networking practices. Please note that there are no “right” answers to these questions. Please honestly answer all the questions to allow for a full analysis of this information by the student research team. Again, your responses are anonymous.

4. I currently have an active version of the following types of social networking accounts ...

   (Please check all that apply)

<table>
<thead>
<tr>
<th>For My Personal Use</th>
<th>For My Agency Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Facebook, LinkedIn, or Google+ Account</td>
<td>Yes</td>
</tr>
<tr>
<td>A Twitter Account</td>
<td>Yes</td>
</tr>
<tr>
<td>A Web Page</td>
<td>Yes</td>
</tr>
<tr>
<td>Any Other Internet-Based Social Networking Tool</td>
<td>Yes</td>
</tr>
</tbody>
</table>

5. Within the next 12-24 months, the likelihood that I intend to develop or enhance each of the following types of social networking accounts for my personal use is...

   (Please check one response per row)

<table>
<thead>
<tr>
<th>None</th>
<th>Low</th>
<th>Possibly</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Facebook, LinkedIn, or Google+ Account</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Twitter Account</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Web Page</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any Other Internet-Based Social Networking Tool</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. Within the next 12-24 months the likelihood that I intend to develop or enhance each of the following types of social networking accounts for my agency use ...

   (Please check one response per row)

<table>
<thead>
<tr>
<th>None</th>
<th>Low</th>
<th>Possibly</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Facebook, LinkedIn, or Google+ Account</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Twitter Account</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Web Page</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Any Other Internet Social Networking Tool

7. These questions concern how much value you expect from embracing social networking in your agency practices. There are no “right” answers to these questions. Please be candid.

I believe that learning how to develop and use social networking tools in my agency practice will ...

<table>
<thead>
<tr>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neutral</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>be worth the necessary time &amp; effort.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>be worth the necessary financial resources.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>can significantly increase sales.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>can significantly enhance relationship building.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>can significantly increase my personal brand as an independent insurance agent.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8. These final questions generally concern your self-perceived computer technology readiness. Again there are no “right” answers to these questions. Please be candid.

(Please check one response per row)

<table>
<thead>
<tr>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neutral</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>I consider myself to be relatively proficient in embracing and using new technologies for accomplishing goals in home life and at work.</td>
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<tr>
<td>I can usually figure out hi-tech products and services without help from others.</td>
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<td>New technology is often too complicated to be useful.</td>
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<tr>
<td>I like the idea of doing business via computers because they are not limited to regular business hours.</td>
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<tr>
<td>When I get technical support from a provider of a high-tech product or service, I sometimes feel as if I’m being taken advantage of by someone who knows more than I do.</td>
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<tr>
<td>Technology gives people more control over their daily lives.</td>
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<td>I do not consider it safe giving out a credit card number over a computer.</td>
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<td>In general, I am among the first in my circle of friends to acquire new technology when it appears.</td>
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<td>I do not feel confident doing business with a place that can only be reached online.</td>
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<tr>
<td>Technology makes me more efficient in my occupation.</td>
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<tr>
<td>If you provide information to a machine or over the Internet, you can never be sure if it really gets to the right place.</td>
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</tr>
</tbody>
</table>

Thank You!

Optional E-Mail Contact information: __________________________________________