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# DRIVERS AND BARRIERS FOR VIDEO TECHNOLOGIES ADOPTION - AN EXPLORATORY ANALYSIS ON STUDENTS

Empirical  
study

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Adoption rate

Video technologies

Resistance to innovation

Mental representations

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## JEL Classification

C81, D03, 033

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## Abstract

*The paper aims to elicit and discuss upon the main factors influencing the process of adopting video technologies by employing a mix of qualitative and quantitative methods. In the first stage, a focus group research was implemented on four samples of subjects with different levels of resistance to the use of technology, generating a set of barriers and facilitators, classified by their nature and level of interdependence. The second part of the investigation consisted in the application of a supervised questionnaire, following an adapted version of the mental representation methodology of Svenson and Nilsson (1986), for economics (marketing specialization) and psychology students. The preliminary results are pointing out to a couple of significant differences in perceiving the influence of the analyzed factors, suggesting the need for a customized policy of minimizing resistance to innovation.*

## 1. Introduction

The complex and widespread impact of technology in all areas of our lives may well be considered among the main research themes of this century [Wellman and Haythornthwaite, 2008]. While the literature is vast, covering insights from different points of view and multiple disciplines, it is yet far from acknowledging all the possible implications of interest.

Our paper narrows the focus by aiming to address the particular case of video technologies, respectively to identify and weight the factors generating a higher adoption and/or a higher resistance to these technologies. At a conceptual level we incorporate the opinion according to which resistance to innovation is not equivalent to non-adoption [Gatignon and Robertson, 1989; Herbig and Day, 1992; Ram and Sheth, 1989; Kleijnen et al., 2009], and we strongly believe that this difference must be examined in an appropriate manner.

Therefore, the nature of the investigation is mostly methodological at this first stage, testing a combination between the qualitative method of the focus group and a quantitative study designed in line with the structure of Svenson and Nilsson (1986) for eliciting mental representations (their original study being applied to the economic phenomenon of inflation). However, the exploratory importance of the paper surpasses the theoretical domain because it is positioned in a larger context of a research project that investigates the use of telepresence video technologies for the provision of long-distance educational services, in geographical isolated communities in Romania. This line of research contributes to the general international discussion and debates concerned with evaluating the influence of video technologies in delivering a better education [Strom, 2002; Anderson, 2008], offering a glimpse of the local understanding of this issue.

The paper is structured as follows: the second section briefly presents the two sides of the research methods employed and the type of data that was collected, while the third continues in a natural way with a description of the main results obtained and their relevance. We conclude by stressing out the need for a customized policy of minimizing resistance to innovation.

## 2. Data and methodology

The research methodology was composed of two parts: a series of focus groups and a supervised survey. The focus groups, in number of four, were implemented by a market research organization, covering samples of subjects with different declared degrees of resistance to innovation (individuals from the public sector, individuals from the private sector, people from the age category over 50 years and young people). Their

objective was to identify, in a realistic manner, the barriers and facilitators for adopting technology in general and video technology in particular. Beyond the multiple insights provided by such an inquiry, its role in the architecture of our research design was to offer a comprehensive reference point for the implementation of the quantitative study dedicated to mental representations. More precisely, based on the typology of the barriers (classified on their nature and intensity) and facilitators, we have made a conceptual aggregation of these variables, resulting into a set of nine operational factors considered as the main influences in the adoption of video technologies:

- V1=Personal income\_ – a variable that did not appear explicitly in the results of the focus group (it does appear implicitly when mentioning the importance of costs and the financial situation of the individual) but was included given its incidence in different standard economics studies, into the category of economic/financial barriers. By taking it into consideration we want to verify if the determinants of a strictly economic nature have a significant influence for this adoption rate (the hypothesis is, in line with the qualitative research, that their impact is smaller compared to the influence of psychological and social barriers; this is an argument supported in general by a large body of experimental research in the field of behavioral economics).

- V2=Consumption expenses – a variable included in the set of relevant variables on the same basis as personal income. What we expect to be different here, in terms of rational expectations versus behavioral influences, refers to the level of proportionality between income and consumption.

- V3=The degree of self control - a variable that usually has a very weak representation if it is elicited through a self reported measure, but a much higher importance when it is measured experimentally. The large literatures analyzing the way in which people cope with different temptations in making decisions in the present, with consequences in the future, justifies the presence of this variable in our set.

- V4=The price of the video technology – a variable that explicitly appears in the group of high intensity barriers (the subset of financial and valorigraphic ones), under the label „high purchasing costs”: technology is considered necessary but the access profoundly depends on the financial possibilities of the individual and/or the society (this collective financial capability was particularly stressed out by the participants, pointing out the lack of access of our country to different technologies, or the delay in obtaining them, given its modest economic standing).

- V5=Technical/specific knowledge regarding the video technology – a variable that incorporates three of the high intensity barriers

derived from focus groups - the fear to assume responsibility for using a certain equipment/machine, the fear of producing potential malfunctions (this is an aspect that also correlates with the risk of assuming supplementary costs) and the lack of information – along with two moderate barriers: a lack of awareness regarding the benefits and a lack of specialists in offering training for these areas.

- V6=Perception regarding technical risks – a variable that deals with some of the psychological aspects of the factors mentioned at the previous point (mostly captured by the fear of doing something wrong), to which we add a more substantive risk for the apparition of technical problems. This risk is analyzed in the sense that IT systems are considered very sensitive to a wide range of technicalities, among which the possibility of losing data without a clear solution for recovering them. This leads to a preference for maintaining the status quo and keeping the classical approach of storing information on paper. The variable includes also, as a time cost, the need for permanent learning and permanent updates.

- V7=Perception regarding personal risks - a variable defined through some deeper layers of psychological elements. The most frequent aspect mentioned here is the fear of developing addiction (more for the group of people with an age over 50 years), where addiction is defined by the use of virtual experiences for more than a couple of hours per day, in the detriment of real experience. We can interpret this as a defense mechanism, which also generates status-quo bias. Moreover, it is sometimes related to a fear of decreasing the role of the individual, particularly in the case of teleconferences where the individual contribution is perceived as being weaker in comparison to the technological inputs, and also deprived of the possibility of establishing an authentic emotional contact. The explanation touches even the valorigraphic perimeter, being argued that real, universal values are neglected in favor of superficial ones. A more pragmatic view underlines the negative effects on health (sedentary tendencies, permanent exposure to different types of radiation), a decrease in the level of engagement in conversations/lectures/shared experiences and a decrease in the degree of control that the individual has over her own environment.

- V8=Perception regarding the efficiency of the technology – a variable that resulted as an aggregation of different factors from the facilitators category: minimizing (or even eliminating) distances, saving time, helping to reach an equilibrium in the personal and professional live, reducing costs, increasing the level of comfort (and implicitly changing the lifestyle) and offering a higher level of information.

- V9=Social pressure – a variable derived also from the facilitators group but with a mechanism that mostly induces a certain negative motivation for the users, in the sense that it is often perceived as a major constraint: once technology has permeated the entire society (in some major areas), even the individuals without any type of technical abilities or the ones that are simply rejecting technology are somewhat forced to adapt in order to cope with the social requirements.

Having established this set of variables for further investigation, we have moved to the second part of the study. This being a pilot study, the target population was composed of students, bachelor and master level, from the age segment 18-26 years. While the choice may seem controversial from some points of view (arguing that at this age resistance to innovation is not high enough), we believe that this type of investigation is important also for this group in light of the path dependence theory (David, 2005). The reasoning behind it is a retrospective one, stating the impressive importance of past decisions on the current behavior.

The questionnaire (see appendix A for a sample) was applied during classes in October 2015. We opted for a physical implementation and not an online form due to the complexity of the questions. Thus, a small training session preceded the completion phase, including a checking phase of these instructions and the meaning of the answers.

The sample was formed from two groups: one group of 79 students from an economic specialization (marketing) with an average age of 19.44 years and gender distribution of 60% females and 40% males, and another group of 70 students from a psychology specialization, with an average age of 21.07 years and gender distribution of 72.86% females and 27.14% males.

The first part of the questionnaire aimed to identify the relationship between the adoption rate of video technologies, at a personal level, and each of the nine variables determined from the focus groups. For this purpose, subjects were asked to indicate how they believe that the adoption rate will change (increase, decrease or remain constant) as a result of an increase in intensity of a certain variable. This increase in intensity was clearly expressed for each variable (for example: personal income increase, do you believe that your adoption rate of video technologies will increase/decrease/remain the same) and for coding purposes increasing tendencies were labeled as 1, decreasing as -1 and the constant was 0.

The second part of the study required the subjects to estimate the importance of a variable in determining a change in the adoption rate for video technologies. This was made possible by presenting all the variables in pairs of two and asking subjects to offer numerical estimations by looking only at

one pair at once: they should rate with a maximum value the most important variable in the pair, and with a smaller value, the other one, if it is considered less important by comparison. To illustrate the mechanism, we have also presented a clear example in the questionnaire: we analyze the pair composed of price and social pressure. If the subject considers price as being the most important influence in this pair, he should rate with a value of 100; if, by comparison to the price, social pressure is considered to have half the importance in making an impact on adoption rate, then the subject should rate it with a lower value, particularly half of 100, thus 50.

In the first stage of introducing data and making primary computation, we have chosen to work with the value equal to the ration of these two estimations made by the subjects. This procedure had in mind to determine a value scale  $R_i$  for each variable  $i$  (where  $i=0,9$ ), computed as the sub-unitary ratio of the estimated values (in the example provided this ratio would be 0.7). The results were logically organized into a matrix defined by the set of the 9 variables, with the principal diagonal equal to 1 (representing the intersection of the same variables).

### 3. Results and discussion

The results from the first part of the questionnaire are tables of relative frequencies for each group (table 1 – marketing and table 2 – psychology), showing their numerical inputs for the direction of the change envisioned in the adoption rate. Based on them, a graphical representation was constructed to show the differences in the assessment of the nine factors for the three potential case: decreasing influence (figure 1), neutrality (figure 2) and increasing influence (figure 3).

As it can be observed in figure 1, we have obtained a trend for each group: the blue line represents the summarized observations for marketing students, while the red line is associated to the psychology students. The highest differences in opinion are registered for variables 2 (consumption expenditures – they prove to be more important for the marketing subjects, which is an intuitive result taking into account their economic background), 3 (level of self control – this is a result that needs a more careful interpretation; in line with the predictions of standard economics, which usually confers a perfect degree of self control to its rational economic agents, we may have expected a reversed result. However, the specialization of the subjects is not pure economics, but marketing, which opens up exactly to this type of emotional/psychological influences), 6 (technical risks) and 9 (social pressure).

The second case, factors that exert no observable influence on the adoption rate, is depicted in figure no.2. This time the graphical representation

suggests two categories of influence: medium and strong. The medium differences are noticed for variable 1 (personal income), 2 (consumption expenditures) and 8 (efficiency). The role played by consumption expenditures seems to be ambivalent and one possible explanation may reside in the status of the subjects: being students, they have a relative narrow range of expenditures, compared to a household. This aspect may bring a certain bias to their estimation, since they are somewhat in a position of hypothetical choice and not a realistic former life experience. Looking generally at these medium differences, it is worthy to mention that for all of them, a higher assessment of neutrality comes from the psychology group. Confronting this fact with the observations from the economic literature, where these are probably the most objective economic factors accounted for in analyzing decision-making processes, we already see a first set of significant potential divergences between groups. On the hand, remaining in the same scenario, we also have a category of strong influences, highlighted for variables 5 (specific knowledge), 6 (technical risks), 7 (personal risks) and 9 (social pressure). For the last two, we see a weaker appreciation from the group of marketing subjects, pointing out a certain contradiction with the results from the first case, where self control was appreciated as being more important by the same group. We believe that the contradiction may also be apparent, expressing rather a lack of understanding regarding the actual meaning of the self-control concept (by excluding social influence and other external factors that may generate negative outcomes at an individual level).

The last case, illustrated in figure 3 (factors that generate an increase in the adoption rate of video technologies) is by far the one that shows the higher level of consensus. The differences between groups are small and they appear for the rather complex variables: 1 (personal income), 2 (consumption expenditures), 3 (self-control), 7 (personal risks) and 9 (social pressure).

The second part of the questionnaire aimed to continue these mapping of representation, by offering a more precise image of the results. The aggregated estimations for the pairs of analyzed variables were structured in a matrix for each of group, containing the average of the individual matrixes. Table 3 presents the results for the marketing group and table 4 for the psychology group. Moreover, in order to achieve to objective of building some coherent value scales, the methodology employs a modified version of these matrixes: an inversion of the elements above the principal diagonal was applied, generating two new work matrixes (table 5 and table 6).

Based on tables 5 and 6, we further computed the following values:

The sum on the line  $i$  of the matrix  $\Sigma_{ri}$  is  

$$\Sigma_{ri} = R_i \left( \sum_{j=1}^9 \frac{1}{R_j} \right)$$

The sum on the column  $i$  is  $\Sigma_{ci} = 1/R_j \left( \sum_{j=1}^9 R_j \right)$

Therefore, an estimation of the value scale of

variable  $j$  would be of the type  $\sqrt{\frac{\Sigma_{rj}}{\Sigma_{cj}}}$ .

The scales obtained through this algorithm are presented in table 7. A model of linear regression was run in the R software, considering as dependent variable the value scale of the psychology group. Table 8 indicates the main results of the regression.

The regression equation is  $y = 1.00288 + 0.34966 * x$ , where  $y$  is the dependent variable (value scale of the psychology group)  $x$  is the independent variable (value scale of the marketing group). The scatter diagram (figure 4) offers a graphical illustration of this relationship.

The model has an adjusted R-squared of 63.06%, suggesting a relative strong explanatory power, thus a good degree of the intensity between the two value scales. In the same time, it also indicates a rest of 36, 94% of unexplained variance between the group, symbolizing the source of the differences in the mental representations concerning the adoption of video technologies. The validity of the model is sustained also by the small standard error of the estimation, of only 0.0417 (for 7 degrees of freedom).

#### 4. Conclusions

The paper presents a pilot replication of the methodology used to elicit mental representation, applied for the process of adopting new video technologies.

The comparisons between the two groups are pointing out the existence of a specific understanding of what generates adoption and resistance, differentiated significantly by the study specialization and mostly addressed in terms of economic and non-economic factors. Among the explored variables, price and consumption expenditures are the most visible (as variation) from the first category, while self-control, social pressure and personal risks are the idiosyncrasies spotted in the second one. Even if we do not highlight very much the idea of mental models in the theoretical body of the paper, these are actually the structures described by our data, with an insightful potential to expose possibilities (in our case drivers and barriers) grasped by different homogenous groups.

Naturally, a major limitation is represented by the sample size, which needs to be extrapolated to a more representative part of the population and

eventually extended so that it may fit in the area of network analysis.

In the same time, this simple modus of approaching beliefs and perceptions can contribute, in this current, preliminary, stage at least at offering some guidelines for identifying sources of potential conflict and misunderstanding with regard to the policies and strategies formulated for increasing the rate of technological adoption.

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## Appendices

Appendix A. Sample of the questionnaire for the first variable, elicited differently in the two parts (in Romanian, without the full range of instruction presented in the original form, for space reasons)

### Part I.

Nr.crt.	Factor de influență	Efect
1.	<b>Creșterea venitului personal</b>	Efect de creștere Efect de scădere Nicio influență asupra ratei de adopție a tehnologiilor video.

### Part II

1.	Variabila 1	Variabila 2
Apreciere numerică	<b>Venit personal</b>	Cheltuieli de consum
Apreciere numerică	<b>Venit personal</b>	Gradul de autocontrol
Apreciere numerică	<b>Venit personal</b>	Prețul tehnologiilor video
Apreciere numerică	<b>Venit personal</b>	Cunoștințe de specialitate/tehnice
Apreciere numerică	<b>Venit personal</b>	Percepția asupra riscurilor tehnice
Apreciere numerică	<b>Venit personal</b>	Percepția asupra riscurilor personale
Apreciere numerică	<b>Venit personal</b>	Percepția asupra eficienței tehnologiilor video
Apreciere numerică	<b>Venit personal</b>	Presiunea socială

## Tables

Table No.1

Relative frequencies – marketing group

	V1	V2	V3	V4	V5	V6	V7	V8	V9
-	0,025316	0,708860	0,341772	0,569620	0,050632	0,632911	0,531645	0,088607	0,177215
1	456	759	152	253	911	392	57	595	19
0	0,202531	0,126582	0,354430	0,227848	0,063291	0,215189	0,329113	0,075949	0,379746
	646	278	38	101	139	873	924	367	835
1	0,772151	0,164556	0,303797	0,202531	0,886075	0,151898	0,139240	0,835443	0,443037
	899	962	468	646	949	734	506	038	975

Table No.2

Relative frequencies – psychology group

	V1	V2	V3	V4	V5	V6	V7	V8	V9
-		0,471428	0,242857		0,028571		0,557142	0,042857	0,071428
1	0	571	143	0,6	429	0,5	857	143	571

0	0,257142 857	0,171428 571	0,371428 571	0,2	0,157142 857	0,414285 714	0,185714 286	0,128571 429	0,271428 571
1	0,885714 286	0,357142 857	0,385714 286	0,2	0,814285 714	0,085714 286	0,257142 857	0,828571 429	0,657142 857

Tabel No.3

*Average estimated ratio for the marketing group*

	V1	V2	V3	V4	V5	V6	V7	V8	V9
		0,62531	0,579487	0,65443	0,62820	0,60253	0,62405	0,65256	0,47594
V1	1	6456	179	038	5128	1646	0633	4103	9367
	0,62531		0,583544	0,70126	0,60641	0,60379	0,63797	0,65063	0,41645
V2	6456	1	304	5823	0256	7468	4684	2911	5696
	0,57948	0,58354		0,58607		0,58846	0,58717	0,61410	0,44810
V3	7179	4304	1	5949	0,6	1538	9487	2564	1266
	0,65443	0,70126	0,586075		0,65063	0,58101	0,62179	0,66329	0,42857
V4	038	5823	949	1	2911	2658	4872	1139	1429
	0,62820	0,60641		0,65063		0,67848	0,61139	0,67468	0,36962
V5	5128	0256	0,6	2911	1	1013	2405	3544	0253
	0,60253	0,60379	0,588461	0,58101	0,67848		0,67088	0,64545	0,43544
V6	1646	7468	538	2658	1013	1	6076	4545	3038
	0,62405	0,63797	0,587179	0,62179	0,61139	0,67088		0,59493	0,38607
V7	0633	4684	487	4872	2405	6076	1	6709	5949
	0,65256	0,65063	0,614102	0,66329	0,67468	0,64545	0,59493		0,41772
V8	4103	2911	564	1139	3544	4545	6709	1	1519
	0,47594	0,41645	0,448101	0,42857	0,36962	0,43544	0,38607	0,41772	
V9	9367	5696	266	1429	0253	3038	5949	1519	1

Tabel No.4

*Average estimated ratio for the psychology group*

	V1	V2	V3	V4	V5	V6	V7	V8	V9
		0,68260		0,70550	0,57214	0,49784	0,55666	0,66130	0,51434
V1	1	8696	0,578	7246	2857	058	6667	4348	7826
	0,68260		0,62157	0,73594		0,52101	0,58333	0,60558	0,51318
V2	8696	1	1429	2029	0,575	4493	3333	8235	8406
		0,62157		0,61376		0,55142		0,63985	0,54608
V3	0,578	1429	1	8116	0,674	8571	0,605	7143	6957
	0,70550	0,73594	0,61376		0,64913	0,55697	0,56927	0,67558	0,51014
V4	7246	2029	8116	1	0435	1014	5362	8235	7059
	0,57214			0,64913		0,66246	0,62420	0,72441	0,56449
V5	2857	0,575	0,674	0435	1	3768	2899	1765	2754
	0,49784	0,52101	0,55142	0,55697	0,66246		0,66514	0,64898	0,51432
V6	058	4493	8571	1014	3768	1	7059	5507	8358
	0,55666	0,58333		0,56927	0,62420	0,66514		0,64264	0,53608
V7	6667	3333	0,605	5362	2899	7059	1	7059	6957
	0,66130	0,60558	0,63985	0,67558	0,72441	0,64898	0,64264		
V8	4348	8235	7143	8235	1765	5507	7059	1	0,555
	0,51434	0,51318	0,54608	0,51014	0,56449	0,51432	0,53608		
V9	7826	8406	6957	7059	2754	8358	6957	0,555	1

Tabel No.5  
*Average estimated ratio for the marketing group – inversed values*

	V1	V2	V3	V4	V5	V6	V7	V8	V9
V1	1	1,59919 0283	1,725663 717	1,52804 6422	1,591836 735	1,65966 3866	1,60243 4077	1,53241 6503	2,10106 383
V2	1,59919 283	1	1,713665 944	1,42599 278	1,649048 626	1,65618 4486	1,56746 0317	1,53696 4981	2,40121 5805
V3	1,725663 717	1,71366 5944	1	1,70626 3499	1,666666 667	1,69934 6405	1,70305 6769	1,62839 2484	2,23163 8418
V4	1,528046 422	1,42599 278	1,706263 499	1	1,536964 981	1,72113 2898	1,60824 7423	1,50763 3588	2,33333 3333
V5	1,591836 735	1,64904 8626	1,666666 667	1,53696 4981	1	1,47388 0597	1,63561 0766	1,48217 636	2,70547 9452
V6	1,659663 866	1,65618 4486	1,699346 405	1,72113 2898	1,473880 597	1	1,49056 6038	1,54929 5775	2,29651 1628
V7	1,602434 077	1,56746 0317	1,703056 769	1,60824 7423	1,635610 766	1,49056 6038	1	1,68085 1064	2,59016 3934
V8	1,532416 503	1,53696 4981	1,628392 484	1,50763 3588	1,482176 36	1,54929 5775	1,68085 1064	1	2,39393 9394
V9	2,101063 83	2,40121 5805	2,231638 418	2,33333 3333	2,705479 452	2,29651 1628	2,59016 3934	2,39393 9394	1

Tabel No.6  
*Average estimated ratio for the psychology group – inversed values*

	V1	V2	V3	V4	V5	V6	V7	V8	V9
V1	1	1,46496 8153	1,730103 806	1,41741 9885	1,747815 231	2,00867 5148	1,79640 7186	1,51216 3051	1,94420 9637
V2	1,464968 153	1	1,608825 557	1,35880 2678	1,739130 435	1,91933 2406	1,71428 5714	1,65128 7033	1,94860 209
V3	1,730103 806	1,60882 5557	1	1,62927 9811	1,483679 525	1,81347 1503	1,65289 2562	1,56284 885	1,83121 0191
V4	1,417419 885	1,35880 2678	1,629279 811	1	1,540522 438	1,79542 5568	1,75661 9145	1,48019 1554	1,96021 9083
V5	1,747815 231	1,73913 0435	1,483679 525	1,54052 2438	1	1,50951 6517	1,60204 3186	1,38043 0369	1,77150 1926
V6	2,008675 148	1,91933 2406	1,813471 503	1,79542 5568	1,509516 517	1	1,50342 6929	1,54086 6458	1,94428 3227
V7	1,796407 186	1,71428 5714	1,652892 562	1,75661 9145	1,602043 186	1,50342 6929	1	1,55606 4073	1,86536 9019
V8	1,512163 051	1,65128 7033	1,562848 85	1,48019 1554	1,380430 369	1,54086 6458	1,55606 4073	1	1,80180 1802
V9	1,944209 637	1,94860 209	1,831210 191	1,96021 9083	1,771501 926	1,94428 3227	1,86536 9019	1,80180 1802	1



Tabel No.7  
*Value scales*

Value scale – marketing group	Value scale – psychology group
1,566674212	1,592104195
1,580391116	1,570792943
1,642618727	1,566864123
1,562221281	1,522095507
1,591597323	1,509425342
1,582848747	1,635889196
1,610787006	1,580658018
1,555704137	1,480399892
2,140220858	1,748792654
1,566674212	1,592104195

Tabel No.8  
*Results of the regression model (output in R)*

Residuals:				
Min	1Q	Median	3Q	Max
-0.065845	-0.026428	-0.001832	0.015916	0.080153
Coefficients:				
	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	1.00228	0.15138	6.621	0.000298 ***
MK	0.34966	0.09133	3.828	0.006471 **
---				
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1				
Residual standard error: 0.04817 on 7 degrees of freedom				
Multiple R-squared: 0.6768, Adjusted R-squared: 0.6306				
F-statistic: 14.66 on 1 and 7 DF, p-value: 0.006471				

**Figures**

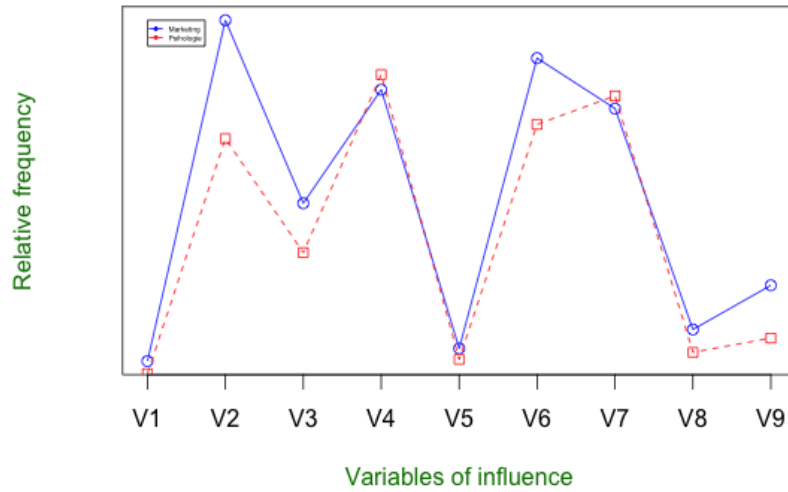


Figure No.1.  
Comparative assesment of the factors that generate a decrease in the adoption rate of video technologies

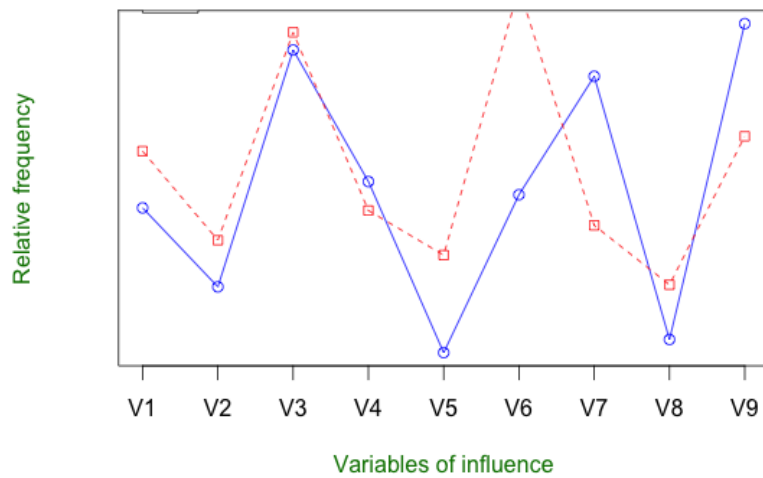


Figure No.2  
Comparative assesment of the factors that generate no influence in the adoption rate of video technologies

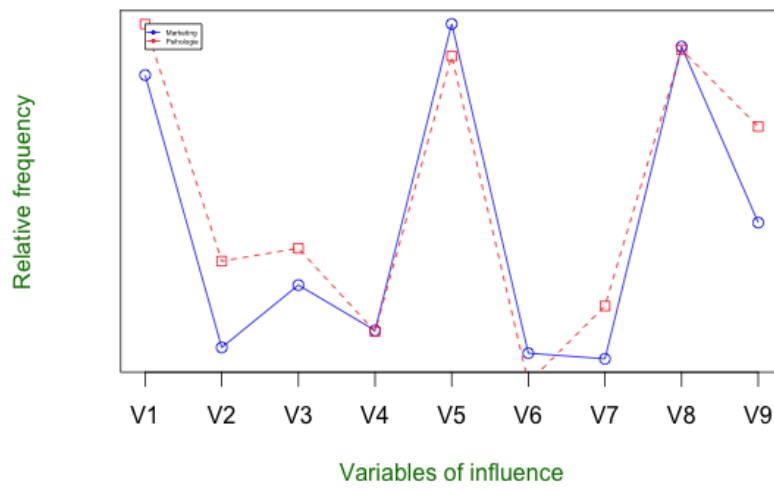


Figure No.3  
Comparative assesment of the factors that generate an increase in the adoption rate of video technologies

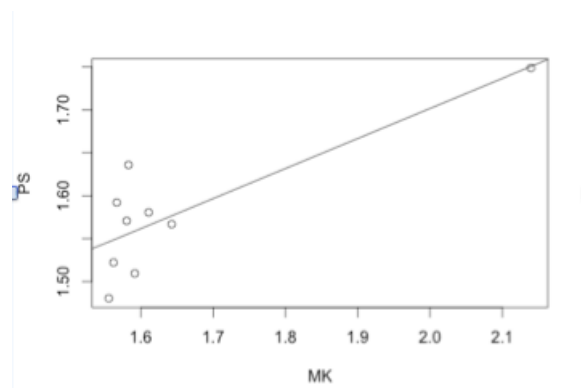


Figure No.4  
Scatter diagram of the regression model