

THE INFORMATION SYSTEM

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Abstract: *A scientific research was carried out using a form, which was filled out by 335 businesses from Brasov County, through which we wanted to determine the awareness degree in regard to some information system notions. To analyse the data the SPSS software was used. The research reached the conclusion that the employees of businesses from Brasov County know very little about information systems.*

Key words: *business game, management simulation, executive dashboard.*

1. Introduction

A scientific research was carried out using a form, which was filled out by 335 businesses from Brasov County, through which we wanted to determine the awareness degree in regard to some information system notions.

2. Objectives

The general hypothesis from which we started was that the employees of the businesses in Brasov County know little or very little regarding information systems specialised in business administration. The main reasons for which businesses here do not use a specialised system is the lack of funds.

3. Results

Next we have presented the obtained results after processing the 335 forms as individualised tables for each analysed notion.

Table 1

Business game		
	No of responses	%
Barely known	109	32,53
Somewhat known	77	22,89
Medium known	49	14,46
Known	89	26,81
Well known	11	3,31
Total	335	100,00

Regarding the “business game” notion the most frequent answer (32,53%) was “barely known”. Also “somewhat known” was the answer given by 22,89% of the respondents. This means that 55,42% of the people who responded do not know the meaning of “business game” compared to only 30,12% who have responded that it is “known” and “well known”. The 14% who have given a neutral answer have heard of business games from other people.

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Table 2

Management simulation		
	No of responses	%
Barely known	72	21,39
Somewhat known	100	29,82
Medium known	58	17,17
Known	86	25,90
Well known	19	5,72
Total	335	100,00

Regarding the notion “management simulation” the most frequent response (29,82%) was “barely known” which with “somewhat known “ with 21,39% constitute 51,20% of total responses. So over 50% percent of the respondents do not know the notion “management simulation”. The percentage of those who know this notion is 31,63%.

Table 3

Business simulator		
	No of responses	%
Barely known	69	20,36
Somewhat known	100	30,09
Medium known	66	19,76
Known	82	24,62
Well known	18	5,17
Total	335	100,00

Regarding the “ Business simulator” notion, 50,45% of the respondents do not know this notion; 20,36% have responded that is barely known and 30,09% somewhat known. Those who know it represent only 29,79%; 24,62% have mentioned that it is known and 5,7% that it is very well known.

Table 4

Global management competition		
	No of responses	%
Barely known	93	27,74
Somewhat known	91	27,13
Medium known	60	17,99
Known	65	19,51
Well known	26	7,62
Total	335	100,00

The “global management competition” is barely known by 27,74% of the respondents and somewhat known by 27,13%. Therefore 55,87% of the respondents do not know this notion in comparison with the 27,13% which know it.

Table 5

Executive dashboard		
	No of responses	%
Barely known	88	26,22
Somewhat known	69	20,43
Medium known	66	19,82
Known	90	27,13
Well known	22	6,40
Total	335	100,00

Regarding the “executive dashboard” notion, it barely known by 26,22% of the respondents and somewhat known by 20,43%. Thus 46,65% do not know the notion of “executive dashboard”. 33,54% of the respondents know this notion out of which 6,4% mentioned that it is very well known.

Table 6

Expert system		
	No of responses	%
Barely known	86	25,70
Somewhat known	92	27,55
Medium known	65	19,50
Known	76	22,91
Well known	16	4,33
Total	335	100,00

The “expert system” notion is barely known by 25,70% of the respondents, and somewhat known by 27,55%. So, 53,25% of the respondents do not know this notion. The ones who know it represent only 27,24%.

Table 7

The ICT notion (The Information and Communication Technology)		
	No of responses	%
Barely known	82	24,55
Somewhat known	66	19,70
Medium known	57	16,97
Known	89	26,67
Well known	41	12,12
Total	335	100,00

The ICT notion is the first notion for which the most common response was “known”. Therefore, 26,67% of the respondents says that it is known and 12,12% very well known. Barely known was the response of only 24,55% of the respondents.

Table 8

MIS (Management Information Systems)		
	No of responses	%
Barely known	89	26,38
Somewhat known	79	23,62
Medium known	61	18,10
Known	88	26,38
Well known	18	5,52
Total	335	100,00

MIS is unknown to 50% of the respondents; 26,83% says it is barely known while 23,62 said it is somewhat known. The percentage of those who know it is 31,9% out of which 5,52% have mentioned it to be very well known.

Table 9

MRP (Material Requirements Planning)		
	No of responses	%
Barely known	93	27,13
Somewhat known	91	27,03
Medium known	59	17,68
Known	73	22,26
Well known	19	5,79
Total	335	100,00

MRP is barely known by 27,31% of the respondents and somewhat known by 27,03%, adding to a total percentage of 54,17%. Those who know it are 28,05% of the total, out of which 5,79% say it is very well known.

Table 10

DSS (Decision Support System)		
	No of responses	%
Barely known	118	35,17
Somewhat known	81	24,16
Medium known	56	16,82
Known	62	18,35
Well known	18	5,50
Total	335	100,00

DSS is the notion for which most of the responses were “barely known” – 35,17%, followed by “somewhat known” with 24,16%. The percentage of those who know the notion is 18,35%, and those who know it very well is 5,5%.

Table 11

ISS (Intelligent Support System)		
	No of responses	%
Barely known	121	36,00
Somewhat known	75	22,46
Medium known	70	20,92
Known	56	16,62
Well known	13	4,00
Total	335	100,00

ISS is unknown to 58,46% of the respondents – 36% barely known and 22,46 somewhat known. At the opposite end the notion is known to only 16,62% and very well known by only 4%.

Table 12

ERP (Enterprise Resources Planning)		
	No of responses	%
Barely known	98	29,14
Somewhat known	85	25,46
Medium known	50	15,03
Known	75	22,39

Well known	27	7,98
Total	335	100,00

Regarding ERP 29,14% of the respondents says it is barely known and somewhat known by 25,46. Thus, for 54,6% of the respondents, the notion is unknown. On the other hand, 22,39% of the respondents said that the notion is known and 7,98% very well known.

Table 13

CRM (Customer Relationship Management)		
	No of responses	%
Barely known	77	23,01
Somewhat known	73	21,78
Medium known	58	17,18
Known	91	27,30
Well known	36	10,74
Total	335	100,00

For CRM the most common answer is known, with 27,3% of the total. Also very well known has a percentage of 10,74. Nevertheless, for 44,79% of the respondents the notion is unknown, barely known to 23,01% and somewhat known to 21,78%.

Table 14

SCM (Supply chain management)		
	No of responses	%
Barely known	120	35,71
Somewhat known	69	20,50
Medium known	79	23,60
Known	49	14,60
Well known	19	5,59
Total	335	100,00

SCM is unknown to 56,21% of the respondents, which means barely known to 35,71% and somewhat known to 20,5%.

At the opposite end, it is known by 14,60% and very well known for just 5,59%.

Table 15

SAP (Systems, Applications and Products in Data Processing)		
	No of responses	%
Barely known	105	31,31
Somewhat known	66	19,76
Medium known	62	18,54
Known	76	22,80
Well known	25	7,60
Total	335	100,00

SAP is barely known by 31,31% and somewhat known by 19,76%. It is also know by 22,8% and very well known by 7,6%.

Table 16

SOA (Service Oriented Architecture)		
	No of responses	%
Barely known	138	41,28
Somewhat known	88	26,30
Medium known	65	19,27
Known	36	10,70
Well known	8	2,45
Total	335	100,00

For SOA the most common answer was barley known with 41,28%, followed by somewhat known with 26,3%. Only 10,7% have responded that the notion is known and 2,45% very well known.

4. Conclusions

In conclusion, out of the notions examined, grouped by percentage of the answers “known” and “very well known”, a final table would look like this:

1. ICT (38,79%),
2. CRM (38,04%),

3. Executive dashboard (33,54%),
4. Management simulation (31,63%),
5. SAP (30,40%),
6. ERP (30,37%),
7. Business Game (30,12%),
8. Business Simulator (29,79%),
9. MRP (28,05%),
10. Expert system (27,24%),
11. Global Management Competition (27,13%),
12. DSS (23,85%),
13. ISS (20,62%),
14. SCM (20,19%),
15. SOA (13,15%).

We must take into account the fact that for each of the notions mentioned, the predominant answers were “barely known” and “somewhat known”, therefore the notions are unknown. The table by these ratings looks like this:

1. SOA (67,58%),
2. DSS (59,33%),
3. ISS (58,46%),
4. SCM (56,21%),
5. Business Game (55,42%),
6. Global Management Competition (54,88%),
7. ERP (54,60%),
8. MRP (54,17%),
9. Expert system (53,25%),
10. Management simulation (51,20%),
11. SAP (51,06%),
12. Business simulator (50,46%),
13. MIS (50,00%),
14. Executive dashboard (46,65%),
15. CRM (44,79%),
16. ICT (44,24%).

All in all, the best known notion by the employees of the 335 businesses which responded is ICT (Information and Communication Technology) and the least known is SOA (Service Oriented Architecture).

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