





Report on survey of Expert assessments of e-business in Latin America and Sub-Saharan Africa

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From 2003 to 2005, our research team on e-business in developing countries investigated experts' perceptions on the most pertinent issues affecting the success of electronic business in Latin America (LA) and in Sub-Saharan Africa (SSA). Mr. Hamadoun Touré, the Director of the International Telecommunication Union's Bureau of Development, has affirmed that this study could contribute towards achieving one of ITU-D's goals of harnessing the potentials of ICTs for socioeconomic development of developing countries. We hope that business managers, policy makers, and government and NGO officials can use the results of this study in furthering the development of e-business in developing countries.

Chitu Okoli, now at Concordia University in Montréal, Canada, conducted the Sub-Saharan Africa phase of the study (summer 2003) for his doctoral dissertation at Louisiana State University, Baton Rouge, USA, which he successfully defended on October 13, 2003. Dr. Victor Mbarika chaired the dissertation. Together with Dr. Scott McCoy, we subsequently collected data for Latin America. This document reports the results of the survey, but it does not discuss them. The dissertation reports the SSA phase of the study from a scholarly perspective in far more detail, giving both methodological details of the study (chapters 3 and 4) and discussing in-depth the theoretical meaning and implications of the results (chapters 2 and 5). This dissertation is freely available on the World Wide Web at:

<http://chitu.okoli.org/mis/research/dissertation/>

Before conducting the actual survey, we conducted a pilot (test) survey to refine our questionnaire and administration procedure. We sent the survey to a selection of experts in Sub-Saharan Africa in April and May 2003 for the pilot survey, and obtained 48 completed responses. Based on these responses, we modified the survey to be more valid and reflective of what we are actually trying to discover. We do not report any results from the pilot test here, but they are available in the full dissertation report.

We conducted the main study, which we report here, in two phases. In the Sub-Saharan Africa phase, we sent the questionnaire by e-mail to over a thousand expert contacts from May to July 2003, and we also sent follow-ups by postal mail to those whom we had not heard from. By the conclusion of the first phase in August 2003, we eventually received 158 responses; however, only 138 were sufficiently complete for us to use for our analysis here. In the Latin America phase, we e-mailed the questionnaire to contacts from the <u>Institute for Connectivity in the Americas</u>, <u>Camara-e (the Brazilian Chamber of E-commerce)</u>, and <u>Connect-World</u>. Altogether, we received 201 responses, but only 181 were usable (of which 98 were from Brazil). The report that follows is a detailed summary of the results.

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Demographic Questions

Country and region for which the experts responded to the survey questions

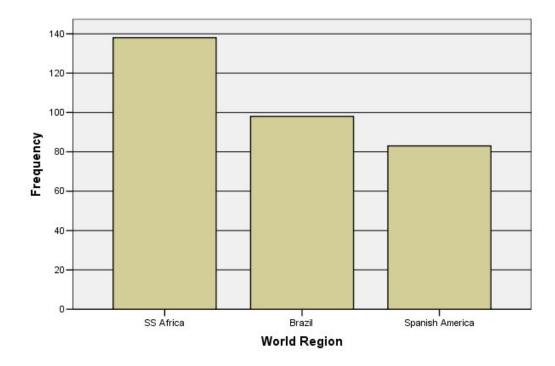
Geo-economic sub-regions of Latin America					
Brazil	Brazil				
Caribbean	Cuba, Dominican Republic, Puerto Rico				
Central America	Costa Rica, El Salvador, Honduras, Mexico, Nicaragua, Panama,				
South America	Argentina, Bolivia, Chile, Colombia, Ecuador, Guatemala, Paraguay, Peru, Uruguay, Venezuela				

Geo-economic sub-regions of Sub-Saharan Africa				
Central Africa and	Burundi, Cameroon, Central African Republic, Chad, Congo, Democratic Republic of Congo			
Great Lakes	(Zaire), Equatorial Guinea, Gabon, Rwanda, Sao Tome and Principe			
East Africa	Kenya, Sudan, Tanzania, Uganda			
Horn of Africa	Djibouti, Eritrea, Ethiopia, Somalia			
Southern Africa	Angola, Botswana, Comoros, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, Swaziland, Zambia, Zimbabwe			
West Africa	Benin, Burkina Faso, Cape Verde, Gambia, Ghana, Guinea, Guinea Bissau, Ivory Coast, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, Togo			

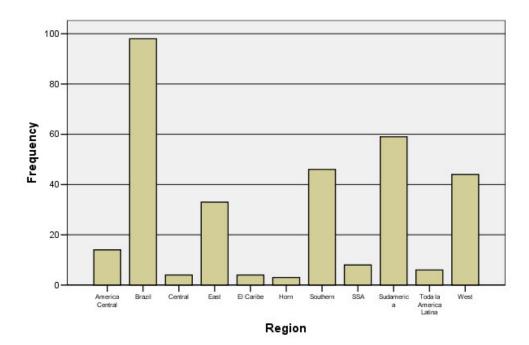
Region	Sub-region	Country	Count	%
Brazil	Brazil	Brazil	98	100.0%
	I			
	Central America		14	16.9%
	Caribbean		4	4.8%
	South America		59	71.1%
	All of Latin America		6	7.2%
		Central America	1	
	Central America	Costa Rica	1	
		El Salvador	2	
		Honduras	3	
		Mexico	6	
		Panama	1	
Spanish	Caribbean	Caribbean	2	
America		Dominican Republic	2	
		Argentina	21	
		Bolivia	7	
		Chile	2	
		Colombia	4	
		Ecuador	2	
	South America	Guatemala	5	
		Paraguay	1	
		Peru	13	
		South America	1	
		Uruguay	2	
		Venezuela	1	
	All of Latin America	All of Latin America	6	
Total for	Spanish America		83	

Region	Sub-region	Country	Count	%
	Central		4	2.9%
	East		33	23.9%
	Horn	3	2.2%	
	Southern		46	33.3%
	SSA		8	5.8%
	West		44	31.9%
	Gabon	1		
	Central	Rwanda	3	
		East Africa	2	
		Kenya	21	
	East	Sudan	2	
		Tanzania	5	
		Uganda	3	
		Eritrea	1	
	Horn	Ethiopia	1	
		Horn of Africa	1	
	Southern	Madagascar	2	
		Malawi	3	
Sub Saharan Africa		Mauritius	3	
		Mozambique	7	
		Namibia	5	
		Seychelles	1	
		Southern Africa	10	
		Swaziland	1	
		Zambia	7	
		Zimbabwe	7	
	SSA	All of Sub-Saharan Africa	8	
		Benin	1	
		Burkina Faso	1	
		Chad	1	
		Cote d'Ivoire (Ivory Coast)	3	
		Gambia	2	
	XX/	Ghana	11	
	West	Guinea	2	
		Mali	2	
		Niger	1	
		Nigeria	17	
		Senegal	2	
West Africa		1		I
Total for Sub-Saharan Africa				
			138	
Total for All R	Pegions		319	

World Region



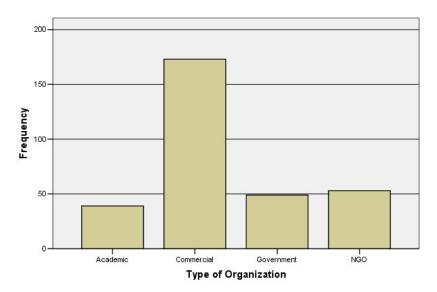




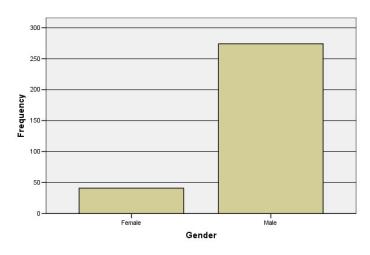
Categorical demographic questions

]	Brazil	Span	ish America	a Latin America		SS Africa		Total	
	Commercial	69	71.9%	35	43.2%	104	58.8%	69	50.4%	173	55.1%
Type of organization	Government	8	8.3%	17	21.0%	25	14.1%	24	17.5%	49	15.6%
to which expert	NGO	13	13.5%	17	21.0%	30	16.9%	23	16.8%	53	16.9%
belongs	Academic	6	6.3%	12	14.8%	18	10.2%	21	15.3%	39	12.4%
	Total	96	100.0%	81	100.0%	177	100.0%	137	100.0%	314	100.0%
	Female	14	14.6%	14	17.1%	28	15.7%	13	9.5%	41	13.0%
Gender	Male	82	85.4%	68	82.9%	150	84.3%	124	90.5%	274	87.0%
	Total	96	100.0%	82	100.0%	178	100.0%	137	100.0%	315	100.0%
	24 years old or less	5	5.2%	1	1.2%	6	3.4%	4	2.9%	10	3.2%
	25 to 34 years old	26	27.1%	21	25.6%	47	26.4%	43	31.6%	90	28.7%
	35 to 44 years old	33	34.4%	29	35.4%	62	34.8%	50	36.8%	112	35.7%
Age	45 to 54 years old	26	27.1%	23	28.0%	49	27.5%	30	22.1%	79	25.2%
	55 to 64 years old	6	6.3%	5	6.1%	11	6.2%	8	5.9%	19	6.1%
	65 years old or greater			3	3.7%	3	1.7%	1	.7%	4	1.3%
	Total	96	100.0%	82	100.0%	178	100.0%	136	100.0%	314	100.0%
	Primary School	1	1.1%			1	.6%			1	.3%
	Secondary School	3	3.2%			3	1.7%	4	3.0%	7	2.3%
Highest level of education attained	Some Post-Secondary Education	4	4.2%	4	5.0%	8	4.6%	8	6.0%	16	5.2%
	Bachelor's	25	26.3%	23	28.8%	48	27.4%	45	33.6%	93	30.1%
	Master's	58	61.1%	40	50.0%	98	56.0%	59	44.0%	157	50.8%
	Doctorate	4	4.2%	13	16.3%	17	9.7%	18	13.4%	35	11.3%
	Total	95	100.0%	80	100.0%	175	100.0%	134	100.0%	309	100.0%

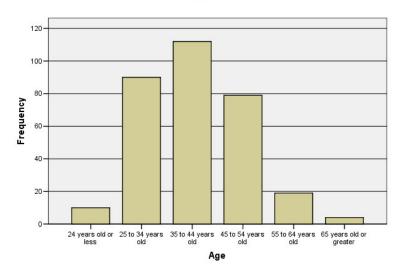
Type of Organization



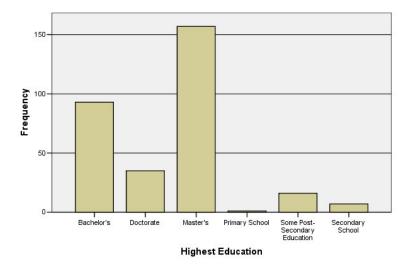










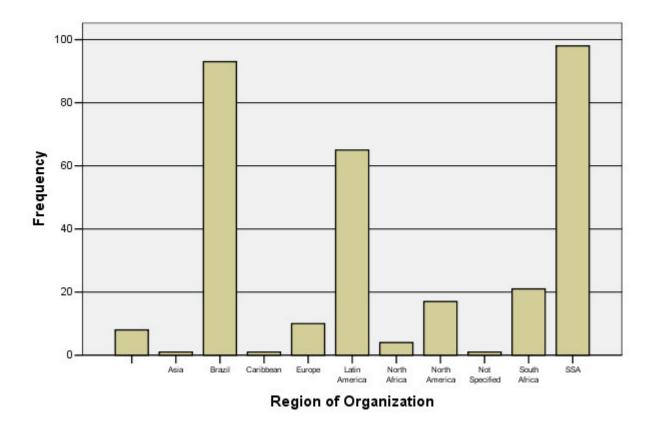


Country in which expert's *organization* is based

Region	Sub-Region	Country	Count	%			
	Missing		4	4.1%			
	Brazil		85	86.7%			
	Latin America		3	3.1%			
	North America		5	5.1%			
	Not Specified	Not Specified					
Brazil	Brazil	Brazil	85	100.0%			
		Argentina	1	33.3%			
	Latin America	Bolivia	1	33.3%			
		Other	1	33.3%			
	North America	Canada	1	20.0%			
		United States	4	80.0%			
	Not Specified	Other	1	100.0%			
Total for Brazil			98				
	Missing		3	3.6%			
	Brazil	Brazil					
	Caribbean	1	1.2%				
	Europe	2	2.4%				
	Latin America	62	74.7%				
	North America	7	8.4%				
	Brazil	Brazil	8	100.0%			
	Caribbean	Barbados	1	100.0%			
	Europe	Spain	1	50.0%			
		Netherlands	1	50.0%			
			1	1.6%			
		Argentina	17	27.4%			
		Chile	2	3.2%			
Spanish America		Colombia	3	4.8%			
		Ecuador	1	1.6%			
		El Salvador	2	3.2%			
		Guatemala	4	6.5%			
		Guyana	1	1.6%			
	Latin America	Honduras	3	4.8%			
		Mexico	5	8.1%			
		Other	1	1.6%			
		Panama	1	1.6%			
		Paraguay	1	1.6%			
		Peru	13	21.0%			
		Dominican Republic	2	3.2%			
		Uruguay	4	6.5%			
		Venezuela	1	1.6%			
	North America	Canada	3	42.9%			
	4	57.1%					
Total for Spanish	America		83				

Region	Sub-Region	Country	Count	%
	Missing		1	.7%
	Asia		1	.7%
	Europe	8	5.8%	
	North Africa		4	2.9%
	North America		5	3.6%
	South Africa		21	15.2%
	SSA		98	71.0%
	Asia	India	1	100.0%
		France	2	25.0%
		Netherlands	1	12.5%
	Europe	Norway	1	12.5%
		Switzerland	1	12.5%
		United Kingdom	3	37.5%
		Egypt	1	25.0%
	North Africa	Morocco	3	75.0%
	North America	United States of America	5	100.0%
	South Africa	South Africa	21	100.0%
		Benin	1	1.0%
		Burkina Faso	1	1.0%
		Côte d'Ivoire	1	1.0%
		Djibouti	1	1.0%
SS Africa		Eritrea	1	1.0%
		Ethiopia		1.0%
		Gambia	1	2.0%
		Ghana	8	8.2%
		Kenya	17	17.3%
		Laos	1	1.0%
		Madagascar	2	2.0%
		Malawi	3	3.1%
			2	2.0%
	SSA	Mali Mauritius	3	3.1%
		Mozambique	6	6.1%
		Namibia	4	4.1%
		Niger	4	
			17	1.0%
		Nigeria Rwanda		17.3%
			1	1.0%
		Senegal	2	2.0%
		Seychelles	1	1.0%
		Sudan	2	2.0%
		Swaziland	1	1.0%
		Tanzania	6	6.1%
		Uganda	3	3.1%
		Zambia	5	5.1%
	5	5.1%		
Total for S	ub-Saharan Afric	a	138	

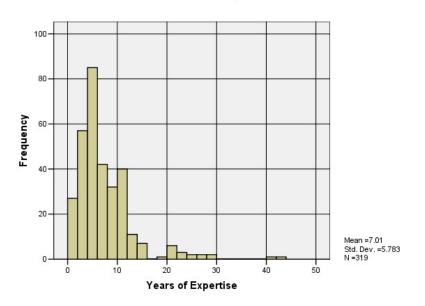
Region of Organization



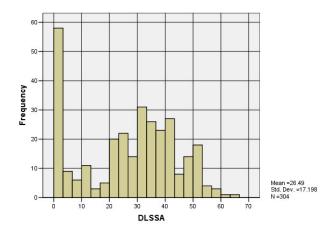
Numeric demographic questions

		Count	Missing	Minimum	Maximum	Mean	Median	Standard Deviation
	Years of expertise with e-business in Latin America	98	0	1	41	6.48	6	5.33
	Years lived in Latin America (DLSSA)	98	0	0	57	28.50	32	17.89
Brazil	Years lived in non-Latino Caribbean (DLSA)	98	0	0	35	.54	0	3.75
	Years lived in Canada or USA (DLNA)	98	0	0	12	.64	0	1.81
	Years in other technologically-advanced countries (DLT)	98	0	0	33	1.68	0	5.18
	Years of expertise with e-business in Latin America	83	0	1	44	7.82	6	6.88
C	Years lived in Latin America (DLSSA)	83	0	0	66	32.53	35	16.27
Spanish America	Years lived in non-Latino Caribbean (DLSA)	83	0	0	28	.36	0	3.08
	Years lived in Canada or USA (DLNA)	83	0	0	68	3.08	0	10.05
	Years in other technologically-advanced countries (DLT)	83	0	0	41	1.66	0	5.32
	Years of expertise with e-business in Latin America	181	0	1	44	7.09	6	6.11
	Years lived in Latin America (DLSSA)	181	0	0	66	30.35	34	17.24
Latin America	Years lived in non-Latino Caribbean (DLSA)	181	0	0	35	.46	0	3.45
	Years lived in Canada or USA (DLNA)	181	0	0	68	1.76	0	7.02
	Years in other technologically-advanced countries (DLT)	181	0	0	41	1.67	0	5.23
	Years of expertise with e-business in SSA	138	0	1	28	6.89	5	5.34
	Years lived in Sub-Saharan Africa (DLSSA)	123	15	0	50	20.82	22	15.55
SS Africa	Years lived in Republic of South Africa (DLSA)	118	20	0	50	4.87	0	11.52
	Years lived in North Africa (DLNA)	112	26	0	40	1.31	0	5.83
	Years in technologically-advanced countries (DLT)	122	16	0	47	7.40	3	10.52
	Years of expertise with e-business in LA/SSA	319	0	1	44	7.01	5	5.78
	Years lived in LA/SSA (DLSSA)	304	15	0	66	26.49	30	17.20
Total	Years lived in Caribbean/RSA (DLSA)	299	20	0	50	2.20	0	8.00
Total	Years lived in North America/North Africa (DLNA)	293	26	0	68	1.59	0	6.58
	Years in other technologically-advanced countries (DLT)	303	16	0	47	3.98	0	8.28

Years of Expertise



DLSSA



DLNA

0 40 DLNA

30

50 60 70

Mean =1.59 Std. Dev. =6.582 N =293

300-

250-

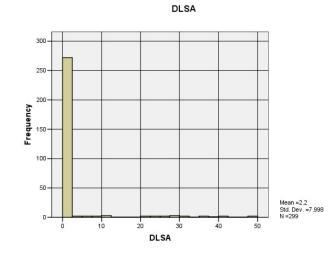
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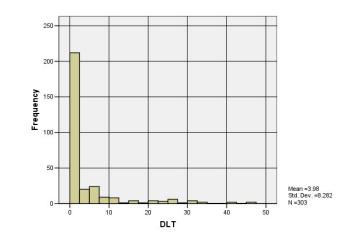
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Actual survey questions on e-business in LA and SSA

Survey questions and codes

Concept	Code	Question
E-business Outcomes		
		Capabilities: Please indicate how much you agree or disagree that urban SME businesses in your country will have the following e-business capabilities by the end of 2004.
	EBCI	Information: Product information will be available online for business customers, including product search capabilities.
E-Business	EBCT	Transaction: Business customers will be able to use websites to place, track, and review orders.
Capabilities	EBCX	Interaction: Business customers will be able to manage online accounts, customize their view of the website, and conduct real-time chat with customer service representatives.
	EBCS	Supplier connection: Businesses will place online orders from suppliers, use electronic data interchange (EDI), and electronically share inventory information with suppliers and business partners.
	EBCN	Intranet: Within a business, employees will be able to use the Internet to share information internally, communicate with each other, and run applications.
		Value impacts: Please indicate how much you agree or disagree with these statements about the impacts of e- business in the context of urban SME businesses in your country.
	EBVR	E-business activity will increase revenues .
E-Business Value	EBVC	E-business activity will save costs.
value	EBVT	E-business activity will save employees' time and effort.
	EBVJN	E-business activity will result in new jobs in your country.
	EBVJL	E-business activity will result in people losing their jobs in your country.
ICT Policies		How much do you agree or disagree with the following statements about current policies concerning ICTs in your country?
		Some policies influence information and communication technologies (ICTs) by encouraging or setting a trend, whereas others regulate ICTs by implementing and enforcing definite laws. Some policies target the supply of ICTs by focusing on organizations that create and provide ICTs, whereas others target the demand for ICTs by focusing on people and organizations that use them.
	IPIS	The government influences the supply of ICTs (for example: by funding ICT research and innovation; providing educational and training services; and subsidizing ICT development).
General ICT Policies	IPID	The government influences the demand for ICTs (for example: by providing skill training; subsidizing the costs of purchasing ICTs; and providing programs for ICT awareness and promotion).
roucies	IPRS	The government regulates the supply of ICTs (for example: by requiring computer education; removing economic barriers to ICT trade and innovation; and establishing standards and requirements for research and development in ICTs).
	IPRD	The government regulates the demand for ICTs (for example: by requiring specific ICT-related standards, products or processes be used by government agencies or businesses with government contracts).
	IPP	Privatization and liberalization: The government gives ownership and control of telecommunications provision to private enterprises, and private enterprises can freely compete in the mobile phone, ICT and ISP markets.
	IPEP	E-business promotion: The government generally supports and actively promotes the practice of e-business.
E-business	IPEI	Intellectual property rights: The government actively enforces the protection of patents, copyrights, trademarks, and other intellectual property rights.
Policies	IPEU	E-business user rights: E-business users have well-defined and actively-enforced legal rights when engaging in e-business regarding purchase protection and privacy.
	IPEA	Awareness of e-business: People are generally aware of the concept and benefits of electronic business.
ICT Infrastructure		How much do you agree or disagree with the following statements about the current state of infrastructure for information and communication technologies in urban cities in your country?
	IITB	There is an adequate number of national and international trunk/backbone (long distance) phone and data circuits.
	IIE	There is a steady supply of electrical power , whether by national grids or backup electrical generators.
	IIW	There is a steady supply of ECETICAL power , whether by hatomargines of backup electrical generators. There is an adequate number of ICT workers skilled in developing and maintaining ICTs, training others how to use ICTs, and managing ICT infrastructures.
	IIWN	There is an adequate number of wireless networks , such as VSAT, satellite and microwave links.

Concept	Code	Question
	IIP	Urban citizens have adequate access to phone services , whether land telephone lines, mobile/cellular phones, or payphones.
	III	Urban citizens have adequate access to the Internet , whether from home, work, Internet cafes, telecenters, or other locations.
	IIISP	There is an adequate number of Internet service providers (ISPs) for the number of citizens.
	IIA	Computers, networks, Internet access, and other ICTs are affordable for most urban SME businesses.
	IIQ	The ICT equipment and services available to urban SME businesses are generally of high quality.
Institutions and Commerce		
	ICCC	How much do you agree or disagree with the following statements about the general commercial environment in your country?
Commercial Infrastructure		Corruption: Bribery and corruption are rare when dealing with the government or businesses in relation to contracts, loans, licenses, tax assessments, fines, and other necessary services.
	ICCD*	Which of the following descriptions most adequately reflects the distribution environment for physical products in your country? (See key below for listing of the options for this question.)
	ICCP	Electronic payment systems: Banks support electronic merchant payment systems such as credit and debit cards.
		How much do you agree or disagree with the following statements about governance institutions in your country?
	ICIV	Voice and accountability: Citizens can freely choose their government. They can exercise political rights and civil liberties, and the press is independent from government control.
Institutions	ICIB	Government regulation and bureaucracy: The government does not control goods markets, interfere with the banking system, nor excessively regulate or control private business and international trade.
-	ICIR	Risk of repudiation: There is a low risk that the government will modify its contracts by scaling them down, postponing them, or outright repudiating them.
	ICIL	Rule of law: The government justly enforces contracts, and protects individuals and businesses against violence, theft and fraud.
		How much do you agree or disagree with the following statements about implementation factors for a typical ICT project (especially e-business) in urban SME businesses in your country?
	TITM	Top managers support the project by word and action.
ICT Transfer	TIUI	Users are closely involved in the design and development of the system.
Implementation	TIUT	Users are computer literate and they are adequately trained in using the system.
	TIPC	There is at least one person (not necessarily a top manager) who purposefully champions the project by encouraging and advocating it.
	TISD	The systems development team is skilled in the pertinent technologies.
Culture- Specific Beliefs and Values		Please indicate how much you agree or disagree with these statements about the work environment in urban SME businesses that implement or consider implementing ICTs (such as e-business) in your country.
	CUAT	Business employees generally do not trust ICTs or e-business.
Uncertainty	CUAS	Business employees are generally concerned about data security when considering using ICTs.
Avoidance	CUAP	Managers typically prefer to adopt ICTs or e-business only if it has been proven to be effective.
	CUAN	Managers are usually hesitant to attempt new ICT or e-business applications.
	CPDP	Managers frequently use their authority and power when dealing with subordinates.
Power	CPDD	Managers do not usually delegate important tasks to employees.
Distance	CPDA	Subordinates are usually afraid to express disagreement with their superiors.
	CPDS	Managers generally avoid off-the-job social contacts with employees.
		Please indicate how much you agree or disagree with the following statements about the amount and nature of travel for managers of ICTs or e-business in urban SME businesses in your country. (<i>For these questions, include the Republic of South Africa as a "technologically-advanced" country.</i>)
Technology	CTCB	Most have traveled to a technologically-advanced country for business purposes .
Culturation	CPCP CPCS	Most have traveled to a technologically-advanced country for personal (non-business) purposes . Most have attended a computer-related conference either within Sub-Saharan Africa or in another developing country .
	СРСТ	Most have attended a computer-related conference in a technologically-advanced country.

*Key to question scores

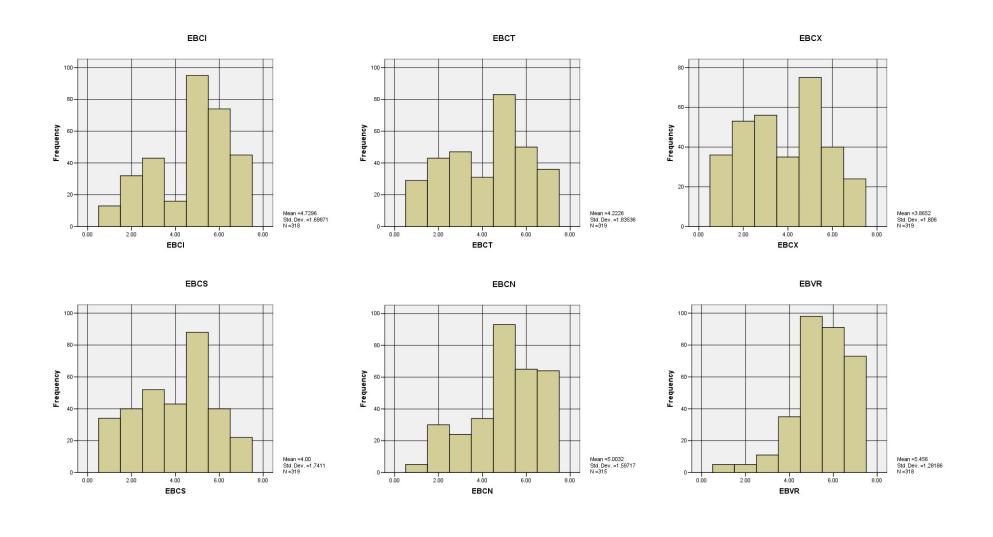
Almo	st all questions were on a 7-point scale scored 1 to 7. However, ICCD was five-point, scored 1 to 5.
	Regular items:
	• Strongly disagree (1.0)
	• Disagree (2.0)
	• Somewhat disagree (3.0)
	• Neutral (4.0)
	\circ Somewhat agree (5.0)
	• Agree (6.0)
	• Strongly agree (7.0)
ICCD	Which of the following descriptions most adequately reflects the distribution environment for physical
	products in your country?ry?
	• Poor: (1.0) Basic postal services sparse and expensive. Road infrastructure seriously deficient even
	in larger cities. Airfreight services unavailable or prohibitively expensive.
	• Substandard: (2.0) Basic postal services available but not reliable. Road infrastructure passable in
	larger cities, but does not reach remote areas. Airfreight services very expensive and infrequent.
	• Fair: (3.0) Postal services well developed. Main cities linked by reliable road infrastructure.
	Airfreight services regular though still infrequent.
	• Good: (4.0) Private delivery services available as alternative to traditional postal service. Roads to
	most locations in good condition. Regular and continuous airfreight services.
	• Excellent: (5.0) Delivery services widely available. Airfreight well developed. Cities and towns well
	connected by highways and/or secondary roads. Sophisticated, specialized, distribution services.

Question responses

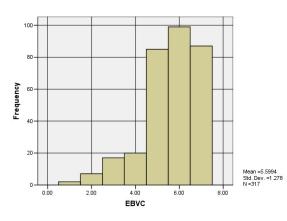
	Brazil				Spanish America					Latin America						SS Africa						Total				
	N	Mean	Median	Mode	σ	N	Mean	Median	Mode	σ	N	Mean	Median	Mode	σ	N	Mean	Median	Mode	σ	N	Mean	Median	Mode	σ	
EBCI	98	5.16	5.00	5.00	1.56	83	4.80	5.00	6.00	1.69	181	4.99	5.00	5.00	1.63	137	4.38	5.00	5.00	1.73	318	4.73	5.00	5.00	1.70	
EBCT	98	4.79	5.00	5.00	1.66	83	4.20	5.00	5.00	1.74	181	4.52	5.00	5.00	1.72	138	3.83	4.00	5.00	1.92	319	4.22	5.00	5.00	1.84	
EBCX	98	4.22	5.00	5.00	1.73	83	3.96	4.00	5.00	1.82	181	4.10	4.00	5.00	1.77	138	3.55	3.00	5.00	1.81	319	3.87	4.00	5.00	1.81	
EBCS	98	4.49	5.00	5.00	1.50	83	4.20	5.00	5.00	1.83	181	4.36	5.00	5.00	1.66	138	3.53	3.00	3.00	1.74	319	4.00	4.00	5.00	1.74	
EBCN	98	5.02	5.00	5.00	1.61	83	4.67	5.00	6.00	1.77	181	4.86	5.00	5.00	1.69	134	5.19	5.00	5.00	1.45	315	5.00	5.00	5.00	1.60	
EBVR	97	5.67	6.00	5.00	1.18	83	5.57	6.00	6.00	1.24	180	5.62	6.00	5.00	1.21	138	5.24	5.00	6.00	1.35	318	5.46	6.00	5.00	1.28	
EBVC	98	5.82	6.00	7.00	1.20	81	5.42	6.00	6.00	1.43	179	5.64	6.00	6.00	1.32	138	5.55	6.00	5.00	1.23	317	5.60	6.00	6.00	1.28	
EBVT	98	5.79	6.00	6.00	1.11	83	5.46	6.00	6.00	1.56	181	5.64	6.00	6.00	1.34	138	5.69	6.00	6.00	1.16	319	5.66	6.00	6.00	1.27	
EBVJN	97	4.45	5.00	5.00	1.46	82	4.94	5.00	5.00	1.33	179	4.68	5.00	5.00	1.42	137	5.34	5.00	5.00	1.32	316	4.96	5.00	5.00	1.41	
EBVJL	98	3.91	4.00	3.00	1.45	82	4.32	5.00	5.00	1.64	180	4.09	4.00	5.00	1.55	138	3.76	4.00	3.00	1.65	318	3.95	4.00	3.00	1.60	
IPIS	98	4.24	5.00	5.00	1.71	82	4.13	4.00	5.00	1.66	180	4.19	4.50	5.00	1.68	137	4.09	5.00	5.00	2.01	317	4.15	5.00	5.00	1.83	
IPID	98	4.27	5.00	5.00	1.67	83	3.93	4.00	4.00	1.53	181	4.11	4.00	5.00	1.61	137	3.93	4.00	5.00	1.87	318	4.03	4.00	5.00	1.73	
IPRS	98	3.93	4.00	5.00	1.64	83	3.88	4.00	3.00	1.53	181	3.91	4.00	5.00	1.58	137	4.10	4.00	5.00	1.83	318	3.99	4.00	5.00	1.70	
IPRD	97	4.28	4.00	5.00	1.50	83	4.00	4.00	4.00	1.65	180	4.15	4.00	5.00	1.57	137	3.85	4.00	3.00	1.77	317	4.02	4.00	5.00	1.66	
IPP	98	4.85	5.00	5.00	1.48	82	4.78	5.00	6.00	1.58	180	4.82	5.00	5.00	1.52	137	4.51	5.00	5.00	1.95	317	4.68	5.00	5.00	1.73	
IPEP	98	4.28	4.00	5.00	1.40	83	3.75	4.00	4.00	1.58	181	4.03	4.00	4.00	1.50	136	4.04	4.00	5.00	1.76	317	4.04	4.00	4.00	1.61	
IPEI	98	3.96	4.00	4.00	1.72	81	4.06	4.00	5.00	1.30	179	4.01	4.00	5.00	1.54	136	3.74	4.00	3.00	1.88	315	3.89	4.00	5.00	1.70	
IPEU	97	3.94	4.00	3.00	1.53	82	3.59	3.00	3.00	1.40	179	3.78	4.00	3.00	1.48	136	3.13	3.00	1.00	1.78	315	3.50	3.00	3.00	1.64	
IPEA	97	3.58	3.00	3.00	1.47	83	3.30	3.00	2.00	1.45	180	3.45	3.00	3.00	1.46	136	3.71	4.00	5.00	1.65	316	3.56	3.00	3.00	1.55	
IITB	98	4.59	5.00	6.00	1.54	83	4.90	5.00	5.00	1.72	181	4.73	5.00	5.00	1.63	138	3.26	3.00	1.00	1.98	319	4.10	4.00	5.00	1.93	
IIE	98	4.86	5.00	5.00	1.38	83	5.08	5.00	6.00	1.57	181	4.96	5.00	5.00	1.47	137	3.55	3.00	3.00	1.92	318	4.36	5.00	5.00	1.82	
IIIW	98	4.23	4.00	3.00	1.46	83	4.23	5.00	5.00	1.52	181	4.23	4.00	3.00	1.49	138	3.56	3.00	3.00	1.76	319	3.94	4.00	3.00	1.64	
IIWN	98	3.93	4.00	3.00	1.58	83	4.19	4.00	5.00	1.64	181	4.05	4.00	5.00	1.61	138	3.20	3.00	2.00	1.64	319	3.68	4.00	3.00	1.68	
IIP	98	4.88	5.00	5.00	1.73	83	5.05	6.00	6.00	1.74	181	4.96	5.00	6.00	1.73	137	4.11	5.00	5.00	1.83	318	4.59	5.00	5.00	1.82	
Ш	98	4.02	4.00	5.00	1.66	83	4.49	5.00	5.00	1.76	181	4.24	5.00	5.00	1.71	133	3.78	4.00	5.00	1.76	314	4.04	4.00	5.00	1.75	
IIA	98	3.22	3.00	2.00	1.77	83	3.86	4.00	5.00	1.73	181	3.51	3.00	2.00	1.77	136	3.12	3.00	2.00	1.64	317	3.34	3.00	2.00	1.73	
IIQ	98	3.74	4.00	4.00	1.69	83	4.06	4.00	5.00	1.63	181	3.89	4.00	5.00	1.67	137	3.80	4.00	5.00	1.64	318	3.85	4.00	5.00	1.65	
ICIV	97	5.42	6.00	7.00	1.57	83	5.04	5.00	5.00	1.48	180	5.24	5.00	5.00	1.53	138	4.72	5.00	6.00	1.77	318	5.02	5.00	5.00	1.66	

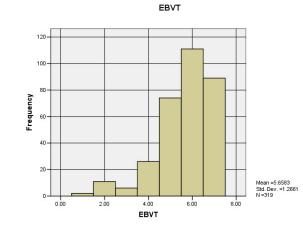
	Brazil				Spanish America					Latin America					SS Africa					Total					
	N	Mean	Median	Mode	σ	N	Mean	Median	Mode	σ	N	Mean	Median	Mode	σ	N	Mean	Median	Mode	σ	N	Mean	Median	Mode	σ
ICIB	97	3.72	3.00	3.00	1.82	82	4.01	4.00	5.00	1.58	179	3.85	4.00	3.00	1.72	137	4.08	4.00	3.00	1.72	316	3.95	4.00	3.00	1.72
ICIR	97	4.51	5.00	6.00	1.76	82	3.68	3.00	2.00	1.78	179	4.13	4.00	5.00	1.81	138	4.15	4.00	4.00	1.68	317	4.14	4.00	5.00	1.75
ICIL	97	4.14	4.00	3.00	1.64	81	3.68	4.00	3.00	1.48	178	3.93	4.00	3.00	1.58	137	4.28	4.00	4.00	1.85	315	4.08	4.00	5.00	1.71
ICCC	97	2.66	2.00	2.00	1.50	83	2.63	2.00	1.00	1.59	180	2.64	2.00	2.00	1.54	138	2.95	3.00	1.00	1.74	318	2.78	2.00	1.00	1.63
ICCP	97	6.16	7.00	7.00	1.10	81	5.63	6.00	7.00	1.45	178	5.92	6.00	7.00	1.30	138	4.12	5.00	5.00	1.98	316	5.14	6.00	7.00	1.85
ICCD	94	3.51	4.00	4.00	.95	81	3.44	4.00	4.00	1.00	175	3.48	4.00	4.00	.97	136	2.84	3.00	2.00	1.07	311	3.20	3.00	4.00	1.06
TITM	97	4.59	5.00	5.00	1.29	83	4.51	5.00	5.00	1.34	180	4.55	5.00	5.00	1.31	136	4.45	5.00	5.00	1.31	316	4.51	5.00	5.00	1.31
TIUI	98	4.15	4.00	3.00	1.39	83	4.20	4.00	5.00	1.31	181	4.18	4.00	5.00	1.35	136	3.82	4.00	3.00	1.46	317	4.03	4.00	3.00	1.41
TIUT	98	3.91	4.00	3.00	1.39	82	4.17	5.00	5.00	1.39	180	4.03	4.00	5.00	1.39	135	3.84	4.00	3.00	1.46	315	3.95	4.00	5.00	1.42
TIPC	98	4.96	5.00	5.00	1.29	83	5.08	5.00	5.00	1.14	181	5.02	5.00	5.00	1.22	136	5.02	5.00	5.00	1.21	317	5.02	5.00	5.00	1.21
TISD	97	5.01	5.00	5.00	1.19	82	4.95	5.00	5.00	1.15	179	4.98	5.00	5.00	1.17	136	4.54	5.00	5.00	1.41	315	4.79	5.00	5.00	1.30
CUAT	98	3.57	4.00	3.00	1.39	82	4.27	4.00	4.00	1.22	180	3.89	4.00	5.00	1.36	138	3.71	3.00	3.00	1.33	318	3.81	4.00	3.00	1.35
CUAS	98	4.91	5.00	5.00	1.28	83	4.77	5.00	5.00	1.26	181	4.85	5.00	5.00	1.27	138	4.70	5.00	5.00	1.57	319	4.78	5.00	5.00	1.41
CUAP	98	5.43	6.00	6.00	1.13	83	5.23	5.00	6.00	1.18	181	5.34	5.00	6.00	1.16	138	5.13	5.00	6.00	1.34	319	5.25	5.00	6.00	1.24
CUAN	98	4.59	5.00	5.00	1.49	83	4.58	5.00	5.00	1.52	181	4.59	5.00	5.00	1.50	138	4.83	5.00	5.00	1.32	319	4.69	5.00	5.00	1.43
CPDP	98	5.19	5.00	5.00	1.22	83	5.17	5.00	5.00	1.28	181	5.18	5.00	5.00	1.24	137	5.39	6.00	6.00	1.23	318	5.27	5.00	5.00	1.24
CPDD	98	4.50	5.00	5.00	1.43	83	4.58	5.00	5.00	1.27	181	4.54	5.00	5.00	1.36	136	4.71	5.00	5.00	1.40	317	4.61	5.00	5.00	1.38
CPDA	98	4.83	5.00	5.00	1.47	82	5.06	5.00	5.00	1.44	180	4.93	5.00	5.00	1.46	136	5.08	5.00	5.00	1.46	316	5.00	5.00	5.00	1.46
СТСВ	98	3.61	3.00	3.00	1.58	83	3.98	4.00	3.00	1.50	181	3.78	4.00	3.00	1.55	137	4.90	5.00	5.00	1.40	318	4.26	5.00	5.00	1.58
СТСР	98	4.10	4.00	5.00	1.50	83	4.65	5.00	5.00	1.45	181	4.35	5.00	5.00	1.50	136	4.58	5.00	5.00	1.43	317	4.45	5.00	5.00	1.47
CTCS	98	3.90	4.00	5.00	1.61	83	3.95	4.00	3.00	1.51	181	3.92	4.00	4.00	1.56	137	4.60	5.00	5.00	1.41	318	4.21	4.00	5.00	1.53
CTCT	98	3.85	4.00	5.00	1.59	82	3.59	4.00	5.00	1.55	180	3.73	4.00	5.00	1.57	135	4.33	5.00	5.00	1.47	315	3.99	4.00	5.00	1.56

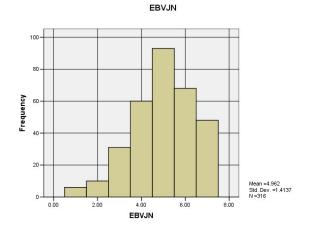
Question response charts



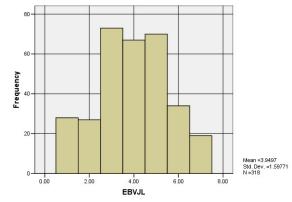
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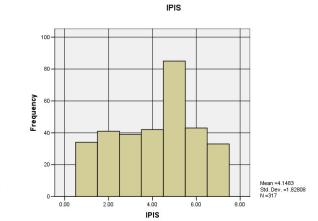


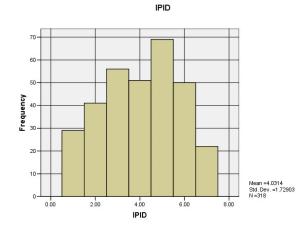




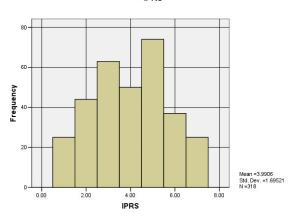
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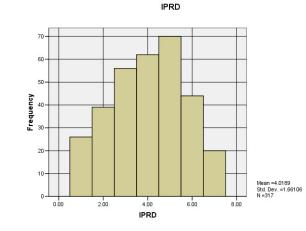


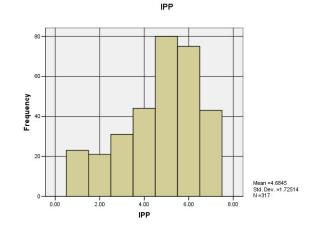


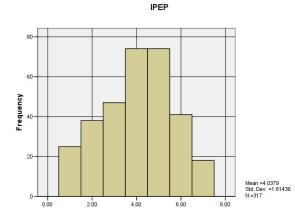


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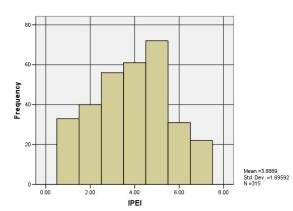


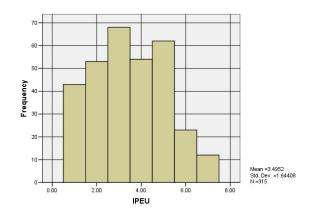




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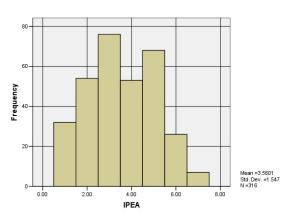


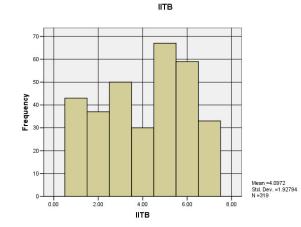


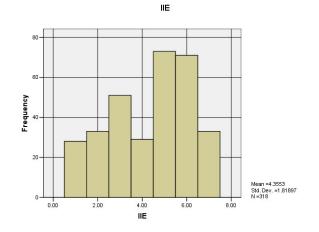


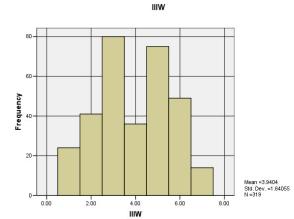
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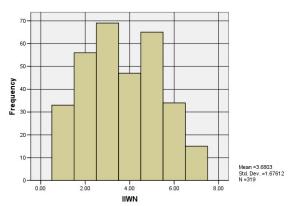


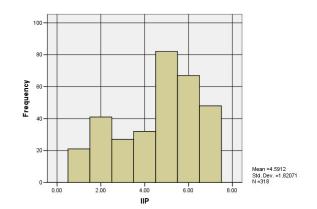




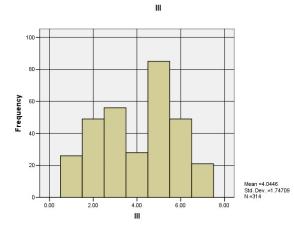


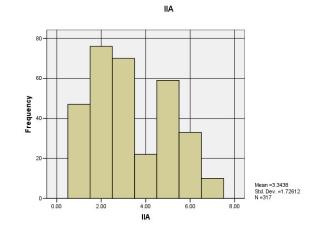


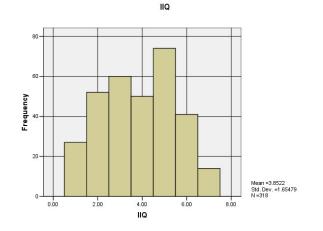




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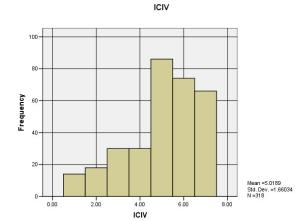


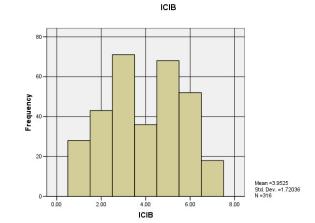


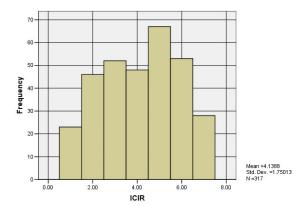


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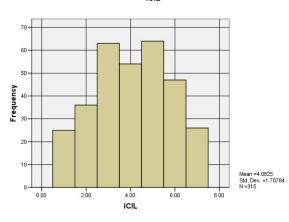
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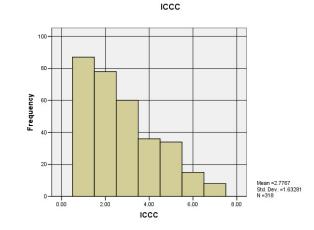


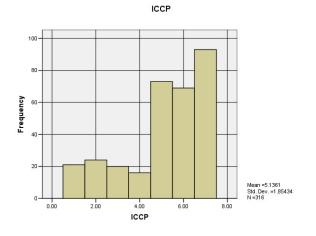


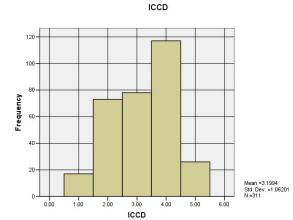


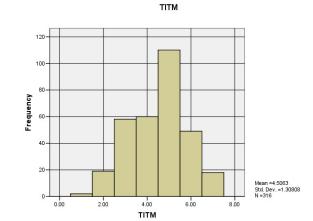
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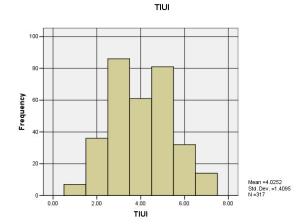




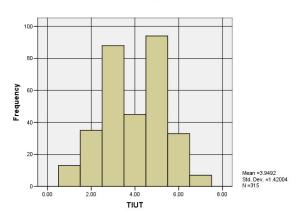




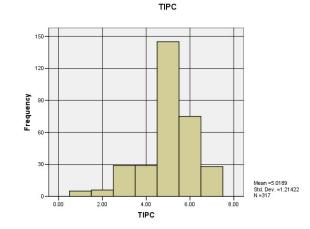


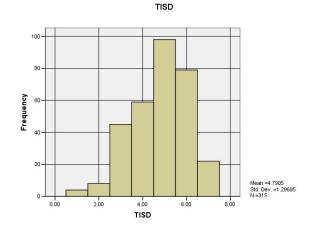


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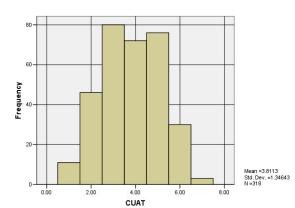


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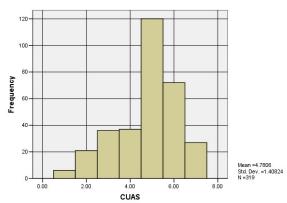


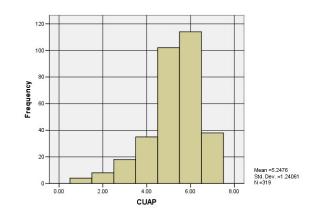


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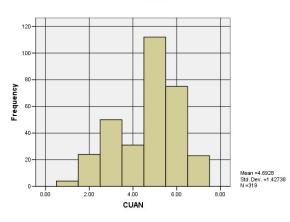


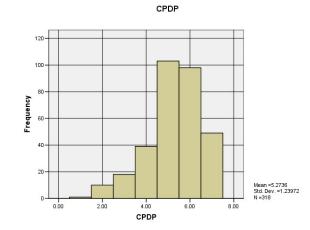


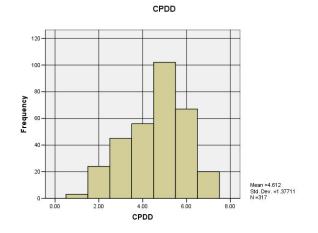




CUAN



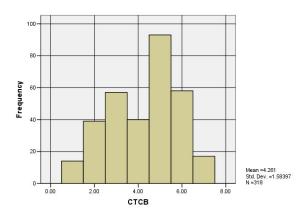


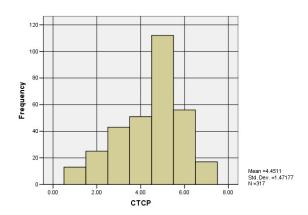






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