APPENDICES

	1994	1995	1996	1997	1998	1999
Malaysia	17	21	23	17	20	27
Singapore	2	2	2	2	2	2
Thailand	23	26	30	29	39	34
Indonesia	31	33	41	39	40	46
Philippines	33	35	31	31	32	32
USA	1	1	1	1	1	1
UK	14	18	19	11	12	15
France	13	17	20	19	21	21
Germany	5	6	10	14	14	9
Japan	3	4	4	9	18	38
Korea	24	25	27	30	35	29
China	30	30	26	27	24	35
Brazil	38	37	37	33	37	33
Argentina	27	29	32	28	31	35

Appendix 1: Source: World Competitiveness Yearbooks 1994-1999

Year 1997 Countries	K-Skills Workforce (As % of total workforce)	R & D/GDP (%)	K-Skills in R & D (Per million population)
Malaysia	10.7	0.3	87
Singapore	26.4	1.4	2512
Korea	15.1	2.8	2636
Taiwan	15.5	1.9	3340
Japan	22.9	2.8	5677

Appendix 2: Source: NITC 1997

	Ownership	Annual	Average IT
		Turnover	Investment
No of PCs	9.639	18.397	16.928
	(0.648)	(0.104)	(0.152)
No of Servers	5.812	5.812	1.905
	(0.121)	(0.121)	(0.592)
LAN Availability	1.556	1.316	3.241
	(0.669)	(0.725)	(0.356)
Home Page	4.228	4.525	1.659
	(0.238)	(0.210	(0.646)
All Users Internet Access	2.774	3.933	9.125
	(0.428)	0.269	(0.028)

Values in parentheses () indicate the significance level of each relationship Appendix 3: Cross Tabulation of Organisational Characteristics and IT Infrastructures

	Ownership	Annual	Average IT
		Turnover	Investment
Financial System	4.281 (0.639)	7.324 (0.292)	7.409 (0.285)
Human Resource System	5.447 (0.488)	14.944 (0.021)	1.223 (0.976)
Marketing Information	11.197 (0.082)	4.349 (0.630	12.618 (0.050)
System Relational Database	2.474 (0.871)	8.145 (0.228)	4.662 (0.588)
Management System E-mail	0.758 (0.859)	3.077 (0.380)	3.533 (0.317)
Videoconferencing	7.658 (0.859)	5.237 (0.514)	11.296 (0.080)
Voice Mail	6.000 (0.423)	9.021 (0.172)	11.645 (0.070)
Electronic Fax	4.934 (0.552)	8.452 (0.207)	9.354 (0.155)
Decision Support Systems	8.194 (0.224)	4.923 (0.554)	7.040 (0.317)
Data warehousing	20.603 (0.002)	7.426 (0.283)	13.990 (0.030)
Data mining	21.400 (0.002)	8.712 (0.190)	16.239 (0.013)
Executive Information	13.315 (0.038)	4.694 (0.584)	11.528 (0.073)
Systems Document Management	8.583 (0.198)	8.066 (0.233)	1.809 (0.936)
Systems Knowledge Repositories	12.562 (0.051)	5.391 (0.495)	6.436 (0.376)
Groupware/Workflow	9.160 (0.165)	2.487 (0.870)	13.189 (0.040)

Appendix 4: Cross Tabulation Organisational Characteristics and IT Applications

		Perception on KMS Benefits	Perception on KMS Importance
Perception on KMS Benefits	Pearson Correlation	1.000	.601**
KINO Benemo	Sig. (2-tailed)		0.000
	N	40	40
Perception on KMS Importance	Pearson Correlation	.601**	1.000
Time Importance	Sig. (2-tailed)	.000	
	N	40	40

^{**} Correlation is significant at the 0.01 level (2-tailed).

Appendix 5: Correlation between Perceived Importance and Benefits of KMS

		Perception on	Perception on
		KMS Importance	KMS Challenges
Perception on KMS Importance	Pearson Correlation	1.000	.037
Kivio importance	Sig. (2-tailed)		.822
	N	40	40
Perception on KMS Challenges	Pearson Correlation	.037	1.000
Kivio onanongo	Sig. (2-tailed)	.822	
	N	40	40

Appendix 6: Correlation between Perceived Importance and Challenges of KMS

			Require KMS- Non Exec		Total
			Yes	No	
Benefits KMS- Non Exec	Yes	Count	18	2	20
1011 2.00		% within Benefits KMS- Non Exec	90.0%	10.0%	100.0%
		% within Require KMS- Non Exec	85.7%	10.5%	50.0%
	No	Count	3	17	20
		% within Benefits KMS- Non Exec	15.0%	85.0%	100.0%
		% within Require KMS- Non Exec	14.3%	89.5%	50.0%
Total		Count	21	19	40
		% within Benefits KMS- Non Exec	52.5%	47.5%	100.0%
		% within Require KMS- Non Exec	100.0%	100.0%	100.0%

Chi-Square Tests

Cni-Square Tests	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	22.556	1	.000	
N of Valid Cases	40			

a) Computed only for a 2x2 table

Appendix 7: Cross-tabulation of Categories of Employees Requiring and Benefiting from KMS.

b) 0 cells (.0%) have expected count less than 5. The minimum expected count is 9.50.

Appendix 8: Knowledge Management System Questionnaire

DEFINITION: Organisational Knowledge Management System has been defined as "a system that provides for the creation of new knowledge, the assembly of externally created knowledge, the use of existing knowledge, and the finding of knowledge from internal and external sources". Further, the technical perspective holds that it is an advanced assembly of software and its associated hardware infrastructures (Meso and Smith, 2000). With this definition in mind, we would appreciate if you could spend some time responding to the questions contained herein.

INSTRUCTIONS: Please answer the questions to the best of your knowledge. There is no right or wrong answer. We are interested in your opinion on the issues. All answers will be treated with high confidentiality and will be used for research only.

SECTION A: ORGANISATION CHARACTERISTICS

Core Business:				
a) Number of employees:				
b) Number of IT personnel:				
Percentage of employees in the foll	owing categories (based on	positions held):	
Manager	ial		%	
Executiv	ve		%	
Non-Executiv	ve		%	
Ownership:	100% local 50 – 99% local	I 100% RM 1 r RM 10 More ti RM 50 RM 1,0 More ti	million – million han million 0,000 – 000,000 han	gn)
	a) Number of employees: b) Number of IT personnel: Percentage of employees in the foll Manager Executi Non-Executi Number of offices/branches/subsidi Ownership: If local, what is the percentage of E Annual turnover or revenue:	a) Number of employees: b) Number of IT personnel: Percentage of employees in the following categories (based on Managerial Executive Non-Executive Non-Executive Non-Executive Non-Executive Solution (See See See See See See See See See Se	a) Number of employees: b) Number of IT personnel: Percentage of employees in the following categories (based on positions held Managerial Executive Non-Executive Non-Executive 100% local 1-49% 100% local 1-49% 100% local 100% 100% 100% 100% 100% 100% 100% 100	a) Number of employees: b) Number of IT personnel: Percentage of employees in the following categories (based on positions held): Managerial Executive Non-Executive % Number of offices/branches/subsidiaries outside Malaysia: Ownership: 100% local 1-49% local (Majority foreid) 50 – 99% local 100% foreign # local, what is the percentage of Bumiputera shareholding? Annual turnover or revenue: RM 500,000 RM 10 million RM 500,000 - RM 10 million

SECTION B: INFORMATION	TECHNOLOGY	
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	IIIIIastructures		
8	a) Number of personal computers (PCs):		
	b) Number of servers:		
9	Do you have local area network (LAN)?	Yes	No
10	Do you have Internet connection?	Yes	No
	If yes, please specify your web site:		
11	Do all users have access to the Internet?	Yes	No

Applications and Tools

12 Is your organisation currently using any of the following applications or tools? Please tick the appropriate box for each category.

		Using	Intend To	Do not Intend
a.	Operational Systems			
	Financial System			
	Human Resource System			
	Marketing Information System			
b.	Relational Database Management System			
c.	Messaging Systems			
	E-mail			
	Videoconferencing			
	Voice Mail			
	Electronic Fax			
d.	Business Intelligence Systems			
	Decision Support Systems			
	Data warehousing			
	Data mining			
	Executive Information Systems			
e.	Other Systems			
	Document Management Systems			
	Knowledge Repositories			
	Groupware/Workflow			

SECTION C: BENEFITS OF KMS

13 Please tick any box that would best represent your opinion for <u>each</u> of the following benefits of KMS

	Strongly Disagree	Disagree	Neutral	Agree (4)	Strongly Agree (5)
Enhance communication within the organisation					
Facilitate faster internal and external communication					
Increase staff participation					
Reduce problem-solving time					
Facilitate faster access and retrieval to information					
Better decision making results					
Reduce operational errors and rework					
Increase revenue					
Decrease in overhead cost					
Facilitate higher profitability					
Better customer services					

SECTION D: CHALLENGES OF KMS

14 Similarly, tick any box below to indicate your opinion for <u>each</u> of the following challenges of KMS.

	Strongly Disagree	Disagree (2)	Neutral (3)	Agree (4)	Strongly Agree (5)
Identifying the right knowledge					
Mapping KMS solutions to organisation's requirements					
New sets of skills and knowledge are required					
Enhancing knowledge sharing culture among employees					
Employees are reluctant to share knowledge with others					
Rewarding employees to minimise knowledge "walkouts"					
Collaborating intelligence from different functions and areas					-
Catching-up with information technologies advances					-
Dealing with security issue					
High infrastructures costs					
Gathering external knowledge and information					

SECTION E: IMPORTANCE AND INITIATIVES OF KMS

15 Please tick any box below to indicate your opinion for each of the following importance of KMS to

your organisation.	Strongly Disagree (1)	Disagree (2)	Neutral	Agree (4)	Strongly Agree (5)
Enabler of knowledge sharing among employees of all levels					
Foundation of a knowledge- based organisations					
Transformation tool towards a learning organisation					
An instrument of managing knowledge and stimulating learning					
A strategic management instrument					
A source of competitive advantage					

16 Please rate the importance of <u>each</u> following types of knowledge to your company by ticking the appropriate box

appropriate box.	Very Not Important	Not Important (2)	Neutral	Important (4)	Very Important (5)
Customers					
Company's own markets, products and services					
Competitors					
Employee skills					
Regulatory environments					
Methods and processes					

17 Which categories of employees require KMS? (You may tick more than 1 box)

Managerial	
Executive	
Non-Executive	

18	Consequently, who will benefit from KMS? (You may tick more to	than 1 box)			
	Managerial				
Ī	Executive				
	Non-Executive				
19	KMS initiatives in your company: (You may tick more than 1 box	x)			
	KM training/awareness				
	Create KM strategy				
	Benchmark/audit current situation				
	Developing/measuring intellectual capital				
	Establishment of formal KM network				
	Incentives and rewards for knowledge sharing				
20 In your opinion, who should initiate KMS implementation in your company? (You may tic box)					
	Senior level general management (CEO, COO, CFO, Senior V	/P, etc.)			
	Senior functional managers (eg. Director of Marketing, Operat	ions)			
	Director of IT/IS				
	Staff members				
21	In your opinion, is your company ready for the upcoming K-Ec	onomy?	YES / NO		
	If no, why?				
	You have now completed the questionnaire. Thank you for yo	our time and c	cooperation.		