



# E-Procurement Implementation in Malaysia Automotive Manufacturing Industry

Gan Xin Er (PC 13037)

Bachelor of Industrial Technology Management with Honors  
Faculty of Industrial Management, Universiti Malaysia Pahang



## ABSTRACT

Procurement plays an important role in company success. It has been identified as one of the major expenses for companies, therefore the reduction of purchase cost is the top priority for organizations when goal-setting in procurement. With the emerge of Internet and other technologies, e-procurement has become well-known. However, very few researches have been conducted on e-procurement in Malaysia automotive manufacturing industry. Thus, this research is aimed to identify the current practice of e-procurement and to analyse the challenges of e-procurement in Malaysia automotive manufacturing industry. Questionnaire is distributed to the person in charge in procurement function and those related with procurement in automotive companies. The collected data is analyzed using SPSS 22.0. The results show the investigated companies have practiced certain types of technologies and activities in their procurement. Challenges that are faced during e-procurement implementation in the companies are financial and people issues. It is hoped that the study will provide some insight into the current body of knowledge in e-procurement and helps both of the private and public companies to better perform e-procurement.

## INTRODUCTION

- In automotive industry, manufacturers obtain the raw materials and other supplies through procurement.
- Procurement has been identified as one of the major expenses with more than 50% of the total cost in industries and e-procurement is identified as a way to cut down costs and increase efficiency.
- Many research has been conducted on this topic in other countries and industries. (e.g Hashim et.al, 2013)
- There is lack of studies in this topic in Malaysia automotive manufacturing industry.

## OBJECTIVES

- To identify the **current practices** of e-procurement implementation in Malaysia automotive manufacturing companies
- To analyze the **challenges** faced by Malaysia automotive manufacturing companies in e-procurement implementation

## METHODS

Types of research	Quantitative research
Data collection	Questionnaire (face to face and emailing distribution)
Target sample	Automotive manufacturing companies in Selangor (population=68; sample=59, received=41 )
Unit of analysis	Employee of Automotive Companies
Data analysis tools	SPSS 22.0
Data analysis	Descriptive Analysis, Cronbach's Alpha Coefficient, Normality Test

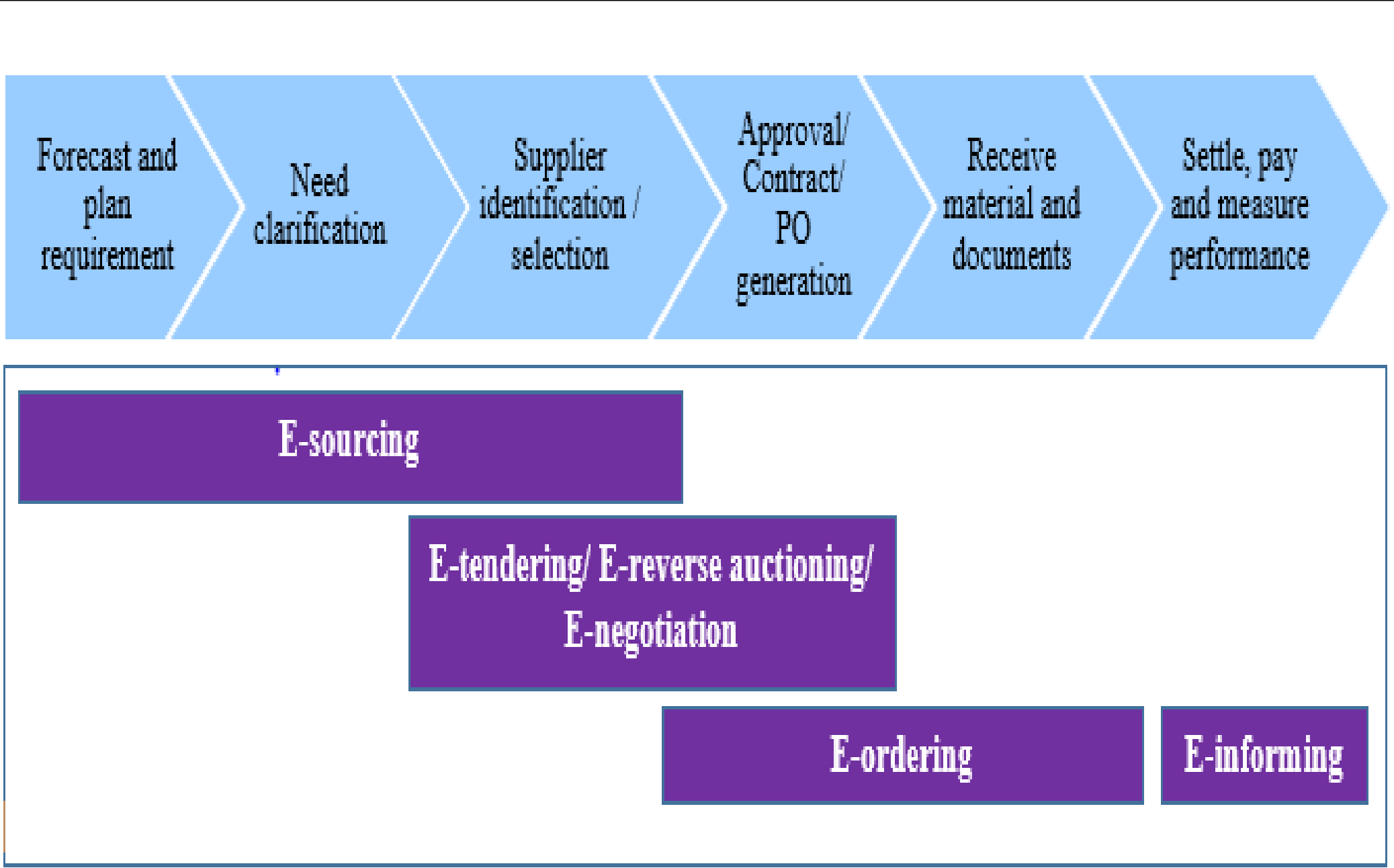


Figure 1 E-Procurement Forms involved in Procurement Process Cycle

## CONCLUSIONS AND RECOMMENDATION

- ❑ All of the investigated companies have practiced e-procurement. From the results showed, most of them are carried out e-sourcing and e-negotiation activities in procurement process. While the most important challenges for them in adopting e-procurement are financial and people issues.
- ❑ Time constraints, low response rate from respondents and only target on automotive companies
- ❑ Study in case study to the company to have deeper understanding about the system. Conduct a greater scale analysis in other fields or countries to provide some insight into current body of knowledge in e-procurement.
- ❖ Reference: Hashim, N., Said, I., & Idris, N. H. (2013). Exploring e-procurement value for construction companies in Malaysia. *Procedia Technology*, 9, 836-845.

## RESULTS

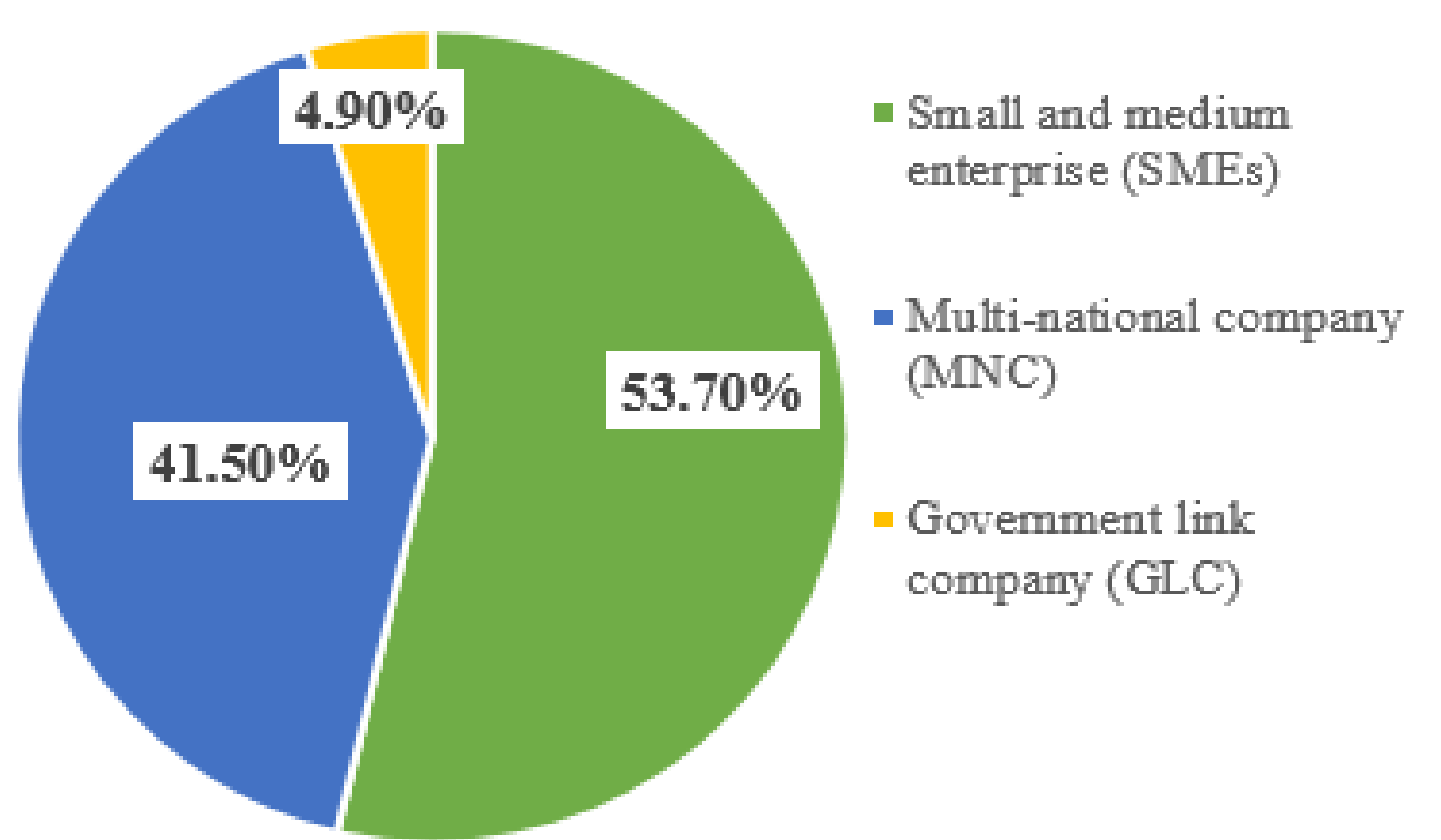


Figure 2 Types of Companies

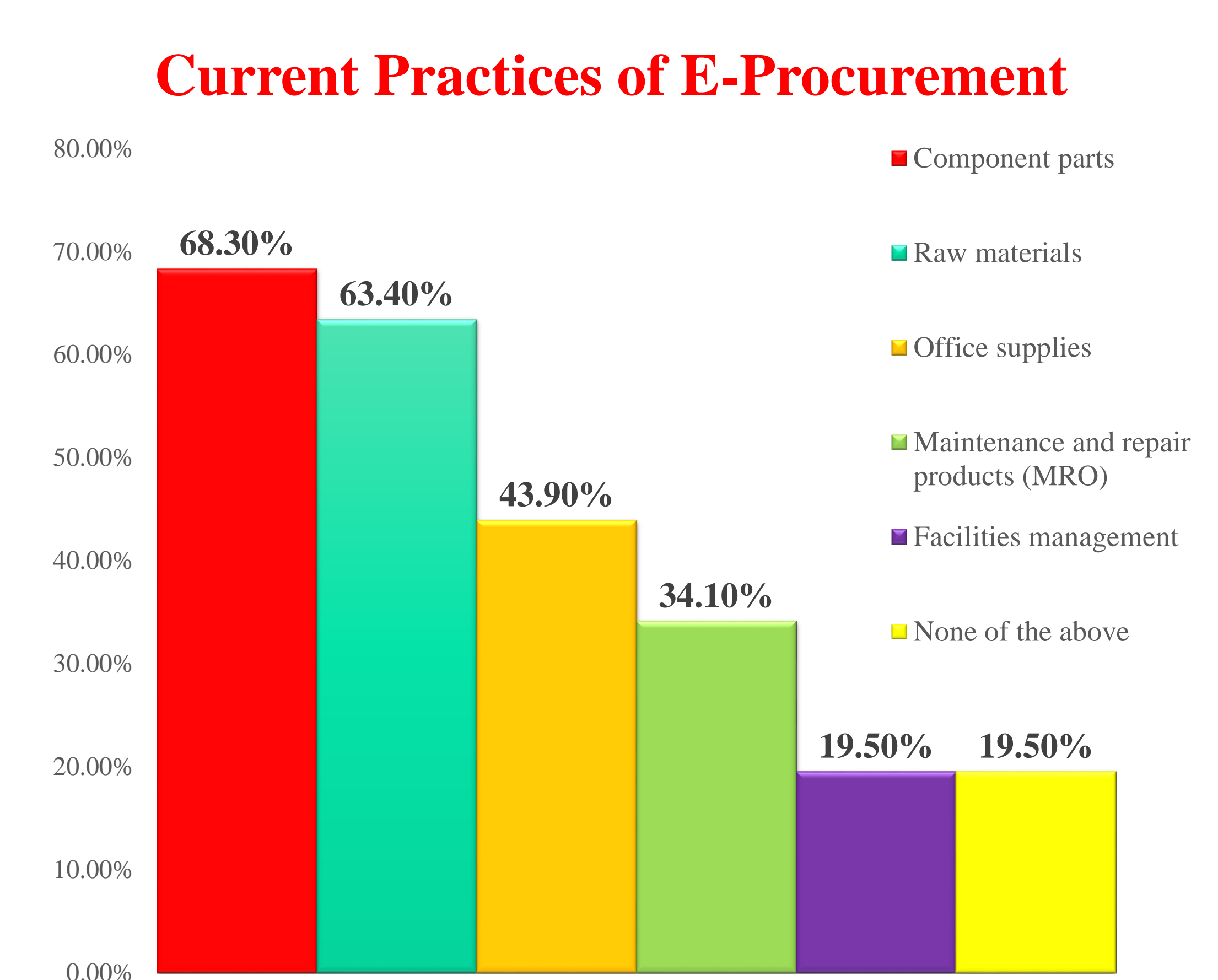


Figure 3 Types of Product Purchased Electronically

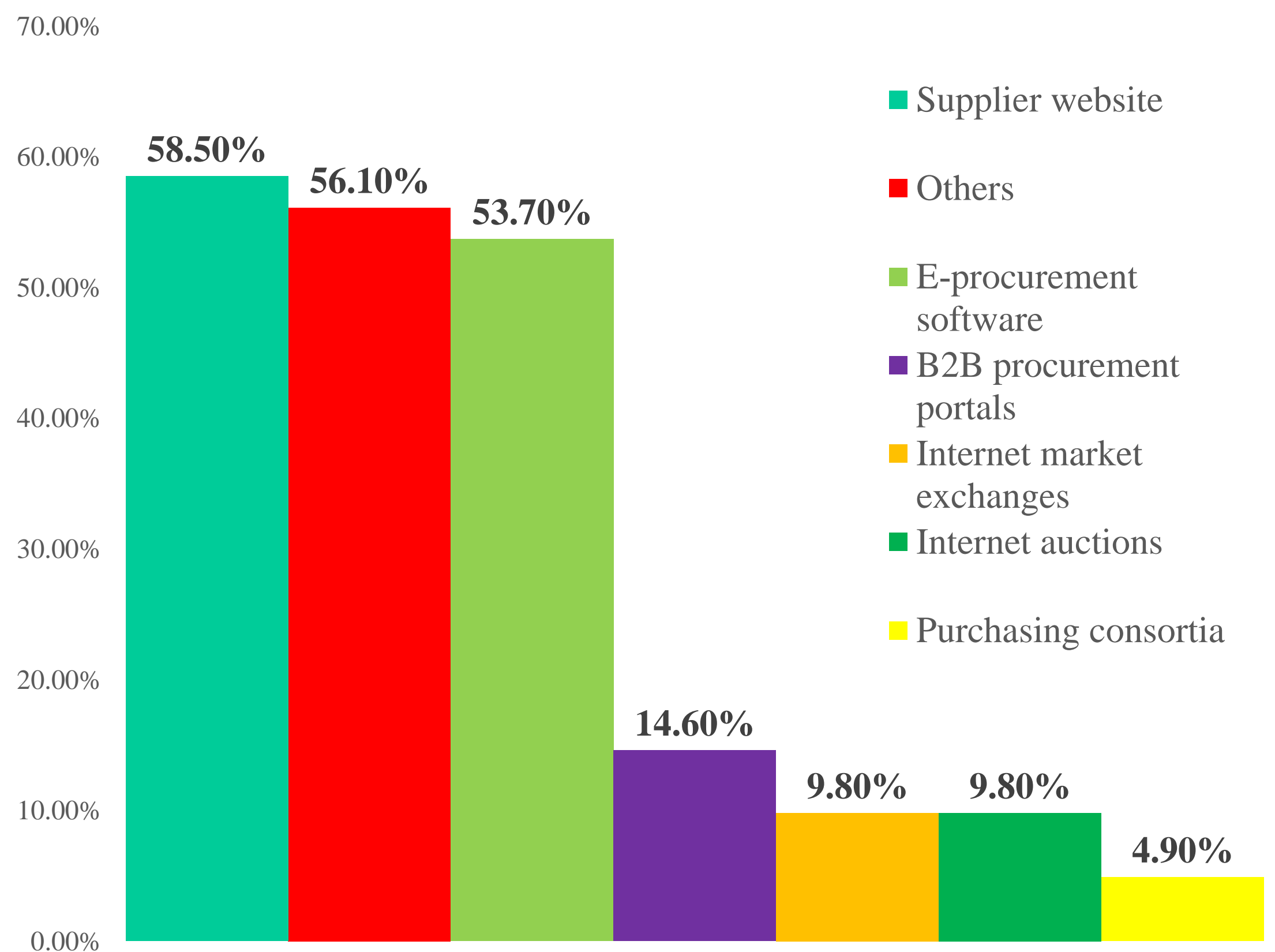


Figure 4 Types of Technologies Applied by Companies in Procurement

Table 1 Activities Involved in Companies' E-Procurement

Activities				
Activities	Extent	Mean ( M )	Standard deviation (SD)	Overall Mean
E-sourcing	Communicate with supplier electronically (includes e-mail)	4.27	1.025	3.56
	Checking price of goods and services electronically	3.46	1.325	
	Search for suppliers of goods and services electronically	3.41	1.264	
	Checking availability of goods and services electronically	3.41	1.264	
	Call for proposal (RFP) from supplier electronically	3.27	1.265	
E-negotiation	Negotiate contract (price & volume) with suppliers electronically (includes e-mail)	3.98	1.172	3.98
E-ordering	Place orders for goods and services online	3.22	1.589	2.99
	Processes payment online	3.12	1.503	
	Generate purchase order online	3.05	1.580	
	Processes supplier invoices online	2.83	1.595	
	Purchasing goods and services using e-catalogues	2.73	1.415	
E-informing	Order-tracking via online	2.93	1.439	2.85
	Tracks supplier performance online	2.76	1.529	
E-tendering	Electronic submission of tenders	2.56	1.467	2.15
	Advertising tenders online	2.17	1.412	
E-reverse auctioning	Purchasing goods and services via e-reverse auctions	1.73	1.104	1.73

## Challenges of E-Procurement

Table 2 Challenges faced by Companies in Adopting E-Procurement

Challenges				
Issues	Obstacles	Mean	Standard deviation	Overall Mean
People	E-procurement is not a top initiative or priority for company	4.10	0.735	3.65
	Readiness and willingness of supplier to change e-procurement	4.05	0.805	
	Resistance of employees to change	4.02	0.851	
	Lack of trust and reliable with online setting and trading partners	4.00	0.949	
	Lack of technical expertise on e-procurement	3.37	1.113	
	Lack of regular use of e-procurement by employee	3.27	1.073	
	Employee do not have any skills, knowledge or experiences towards e-procurement	2.76	1.157	
	System integration issues	4.22	1.013	3.61
Technological	Long development time	4.20	0.641	
	Inadequate technological infrastructure and immature of technology to support e-procurement	4.07	0.985	
	Security issues	4.05	0.865	
	Lack of user friendliness and user-acceptance solution	2.95	1.161	
	Lack of clear process and procedures	2.90	1.221	
	Lack of quality of master data and recognized standard	2.85	1.131	
	High implementation and development cost	4.39	0.919	3.84
Financial	Difficult to justify costs and benefits of e-procurement	4.12	0.842	
	Insufficient financial support	3.00	1.118	
Governmental	Lack of government policy and guidelines	3.20	1.123	3.20