

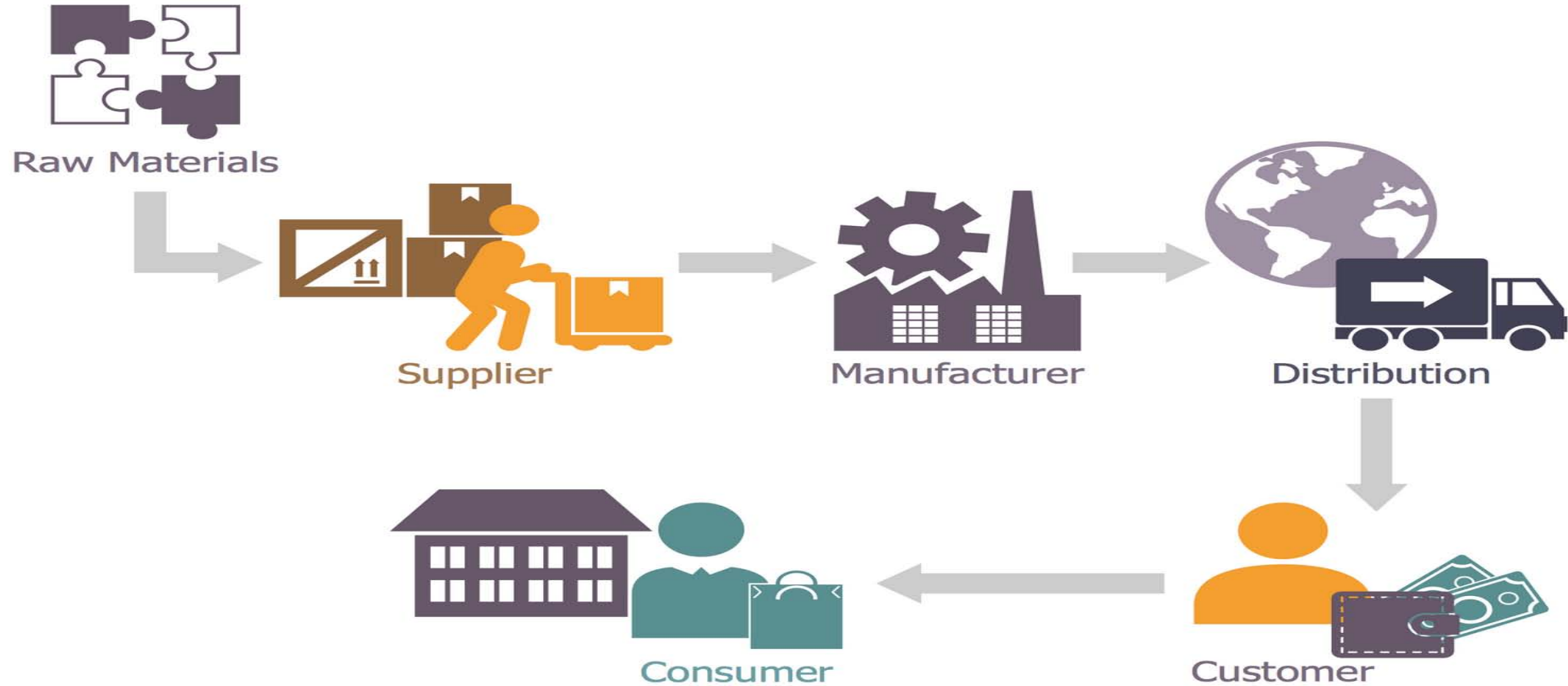
INFLUENCE OF GREEN SUPPLY CHAIN (GSC) PRACTICES ON THE PERFORMANCE OF SUPPLY CHAIN

Authors:

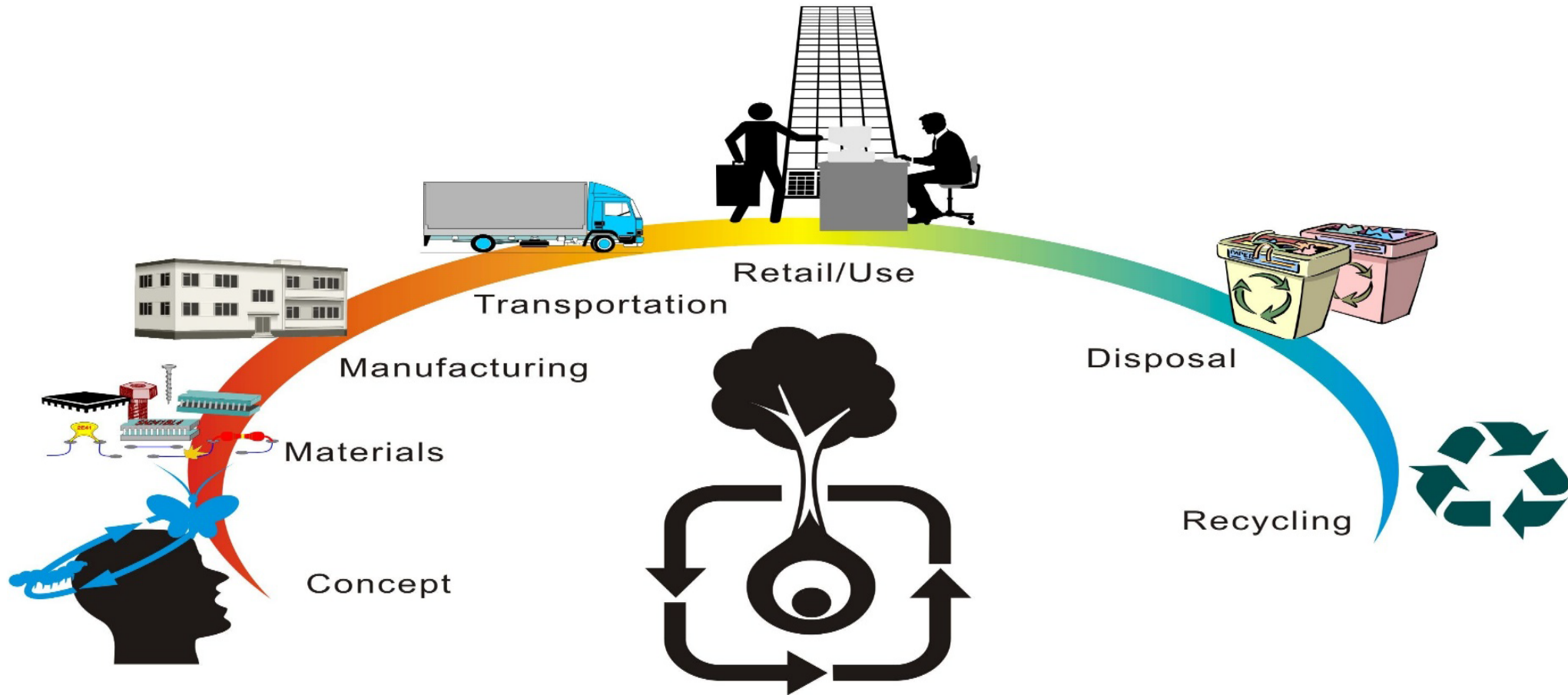
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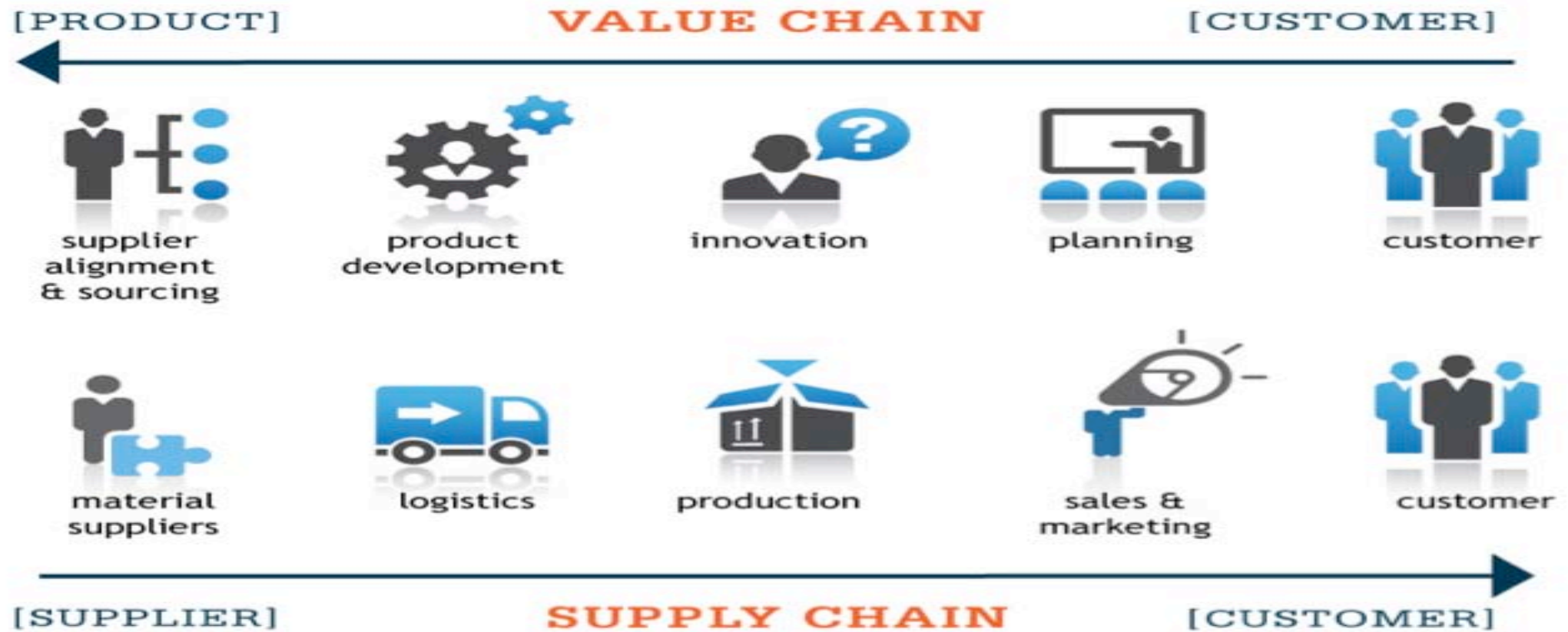
CONVENTIONAL SCM SYSTEM



GREEN SCM SYSTEM



COMBINING GSCM AND SCM



ABSTRACT

- Green supply chain: the most trending resource driven approach utilized by majority of industries
- Proven to be of enormous advantage
- Positively influencing the industrial operational strategies
- Better alternate due to worsened climatic conditions and Eco-damaging industrial practices
- One of the attractive and cost effective way to recover the damages posed on environmental sustainability

INTRODUCTION

- Companies are trying to implement a sustainable form of resources
- Proven to be potentially effective if implied rather than following a conventional SCM system
- Many of researchers are now focusing to evaluate and calculate the sustainability and credibility of the whole procedure as to encourage others
- Ethical and responsible sourcing should be done from supply chain system suppliers in order to understand the significance of the process and by providing competitive advantages to their vendors
- Needed for the growth of organizations in this intense competition in the global market force

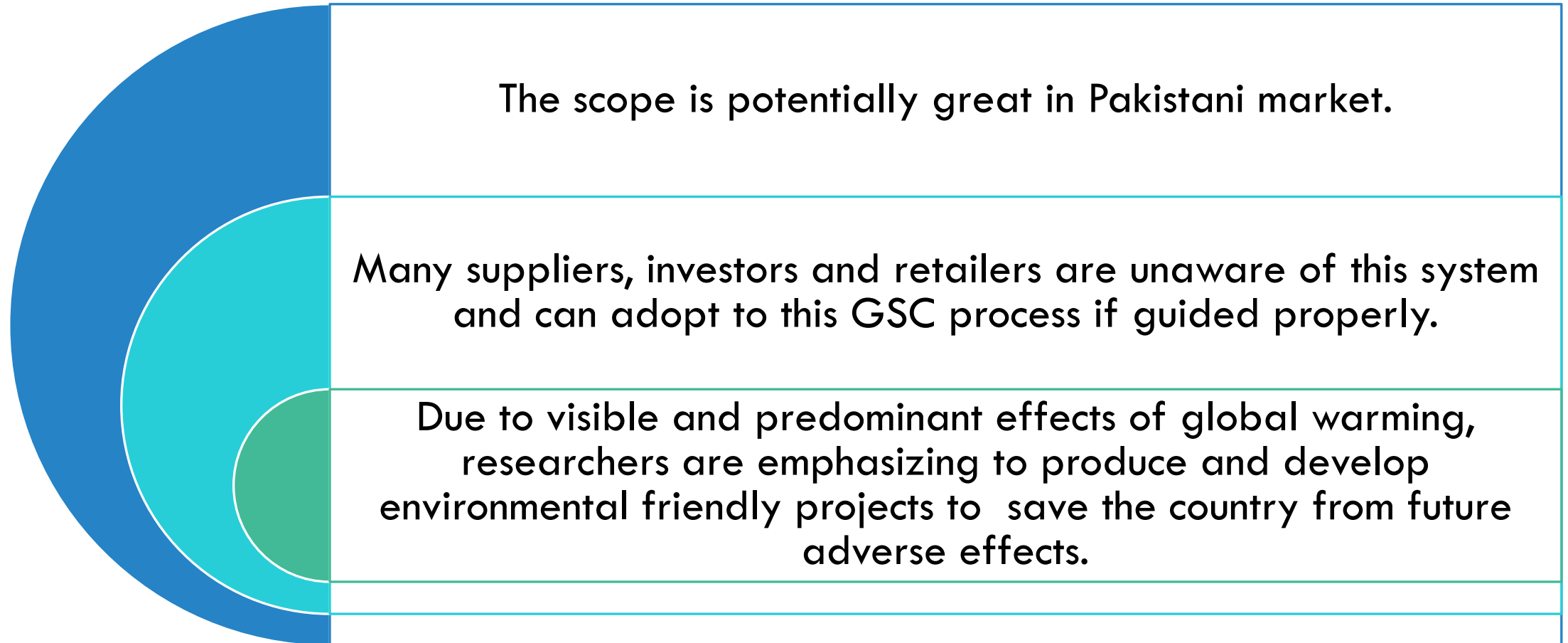
RESEARCH PROBLEM

At present, the implementation of this approach in Pakistan is a huge step.

Many industrialist and economists are reluctant in the first place because of unavailability of sufficient data.

The major perception is to get an overview about the credibility of the system if applied in Pakistani market on a lower basis, then gradual implementation on a higher level.

SCOPE



RESEARCH QUESTIONS

- What is the relationship between GSCM internal practices and supply chain output?
- What is the relationship between GSCM external practices and supply chain output?
- What is the relationship between GSCM eco-design practices and supply chain output?
- What is the relationship between GSCM internal practices and supply chain resource?

RESEARCH OBJECTIVES



To make an eco-friendly design for the project



To get recovery of investment



To manage the external environment of the business

LIMITATION OF RESEARCH



HYPOTHESIS

H1: There exists a correlation between GSCM and supply chain management.

H2: There is a significant relationship between eco-designing approaches through GSCM and cost effectiveness.

H3: There is a correlation between alarming environmental situation and long term hazardous threats to human health.

LITERATURE REVIEW

Study	Year	Authors	Major Findings
Sustainable supply chains: Governance mechanisms to greening suppliers. <i>Journal of Business Ethics</i> , 116(1), 189-203.	2013	Gimenez & Sierra	Due to environmental factors, there is an increasing need to integrate environmentally sustainable processes within the process and organization.
Critical success factors of green supply chain management for achieving sustainability in Indian automobile industry. <i>Production Planning & Control</i> , 26(5), 339-362.	2015	Luthra, Garg, & Haleem	To cater the needs and demands of present era, we need to adopt some sustainable measures, if there should be no compromise on the ability and needs of future generation.

Study	Year	Authors	Major Findings
Green human resource management and green supply chain management: Linking two emerging agendas. Journal of Cleaner Production, 112, 1824-1833.	2016	Jabbour, C. J. C., & de Sousa Jabbour	Green Supply chain can proved to be emerging and new source with competitive advantages in managerial perspective .
Sustainable supply chain management and the transition towards a circular economy: Evidence and some applications. Omega, 66, 344-357.	2017	Genovese, Acquaye, Figueroa & Koh.	The process of supply chain management is a network of supplies which results in transportation of product from upstream to downstream affinity with overall economic profit and to reduce damage towards the ecological environment.

ELEMENTS OF RESEARCH

Nature of Research

- Descriptive

**Extent of research
interference**

- Minimal

Study Setting

- Natural

Research Strategy

- It is a primary research, cross-sectional in nature and used quantitative analysis.

Unit of Analysis

- Individuals associated with supply chain industry

Time Horizon

- January 2018 to April 2018, Karachi

DATA ANALYSIS

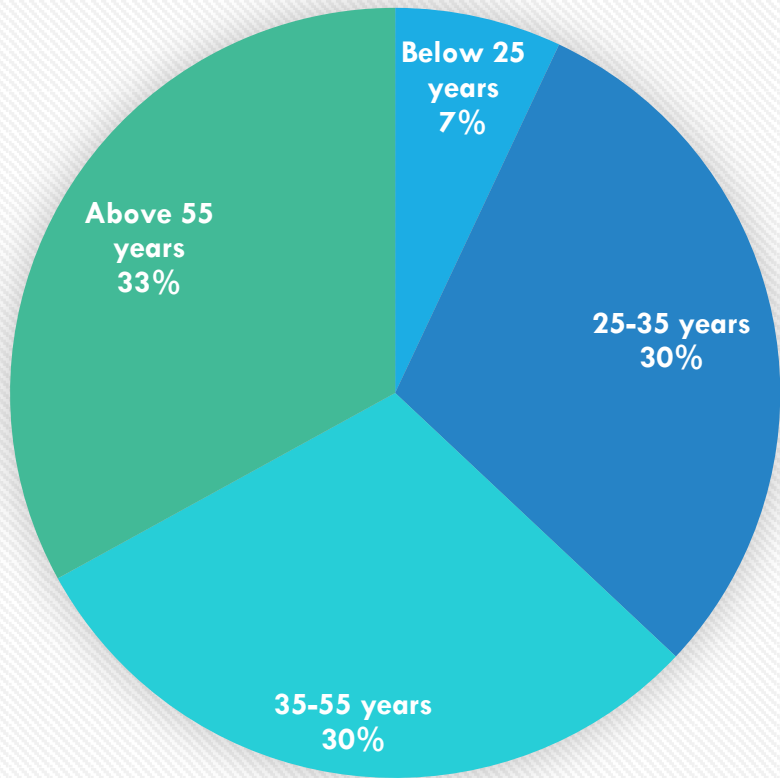
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.910	.911	3

Reliability analysis is performed for the evaluation and measurement of consistency level of the data.

As the value is 0.9, further analysis can be performed.

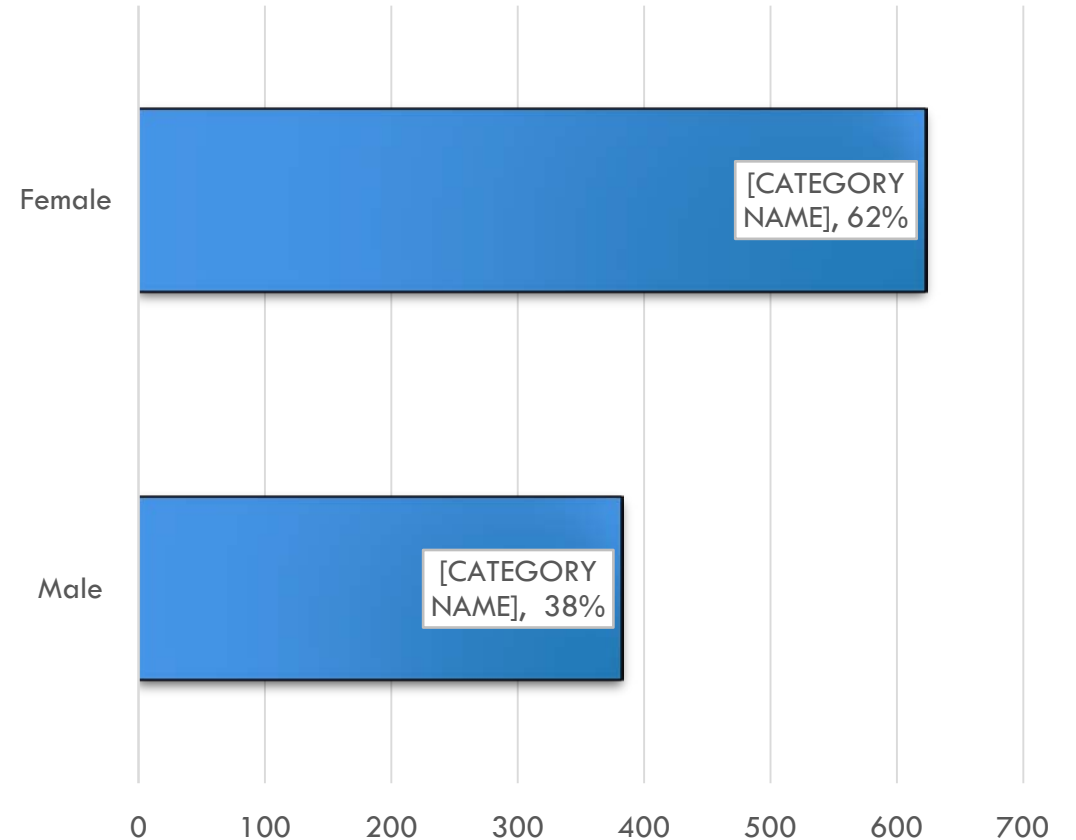
DATA ANALYSIS

Age of Respondents



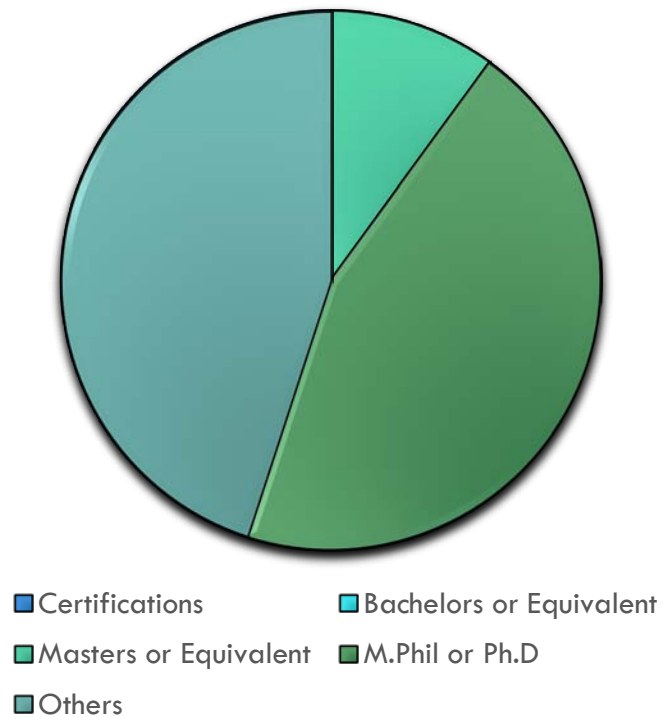
■ Below 25 years ■ 25-35 years ■ 35-55 years ■ Above 55 years

Gender of the respondents

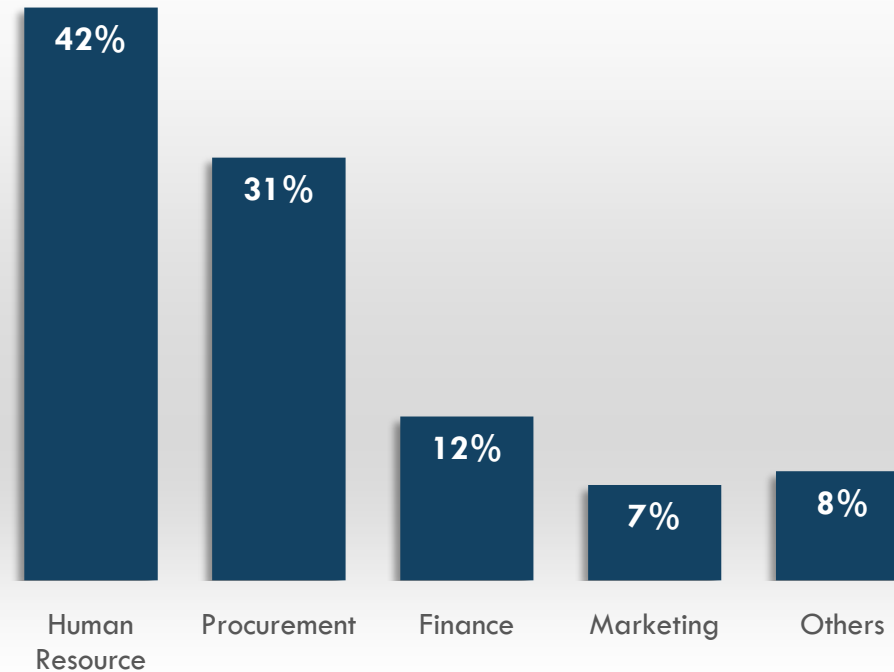


DATA ANALYSIS

Education Level of Respondents



Department of Respondents



DATA ANALYSIS

		GSCM SCM Correlation	Cost Effectivity GSCM	Local Global Climatic Threats
GSCM SCM Correlation	Pearson Correlation	1	.738**	.810**
	Sig. (2-tailed)		.000	.000
	N	100	100	100
Cost Effectivity GSCM	Pearson Correlation	.738**	1	.770**
	Sig. (2-tailed)	.000		.000
	N	100	100	100
Local Global Climatic Threats	Pearson Correlation	.810**	.770**	1
	Sig. (2-tailed)	.000	.000	
	N	100	100	100

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

The values show strong association between the dependent and independent variables.

DATA ANALYSIS

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.830 ^a	.688	.682	.82177

a. Predictors: (Constant), Local Global Climatic Threats, Cost Effectivity GSCM

Model	Sum of Squares	<u>Df</u>	Mean Square	F	Sig.
Regression	144.605	2	72.303	107.066	.000 ^b
Residual	65.505	97	.675		
Total	210.110	99			

a. Dependent Variable: GSCM SCM Correlation

b. Predictors: (Constant), Local Global Climatic Threats, Cost Effectivity GSCM

DATA ANALYSIS

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	2.871	.947		3.031	.003
Cost Effectivity GSCM	.261	.082	.282	3.169	.002
Local Global Climatic Threats	.578	.087	.593	6.675	.000

a. Dependent Variable: GSCM SCM Interrelation

FINDINGS

- Credibility and sustainability of GSCM creates an impact on conventional practices, as both have been found to be interrelated
- GSCM applied in countries other than Pakistan, has proved better in parameters of sustainability, cost reduction, employment measures and reduction in carbon foot print cycles.
- GSCM can be an ultimate robust plan to resolve the issues of climatic as well as other health hazards

FINDINGS

- Among many factors causing gradual rise in temperature, organizations opting practices that go against environment sustainability are the major cause of global warming.
- Most of the factors discussed under GSCM, pose an advantageous impact on climate modulations, cost fluctuations, resources management and profitability.

CONCLUSION

- Organizations can attain higher environmental performance and financial benefits in the long run, merely by commitment of managerial department towards enactment of GSC practices.
- Eco-design favors environmental sustainability as the industries which implement these practices can remanufacture and reprocess the products even after product life cycle (PLC).
- Collaboration of organizations in Pakistan for the betterment of Supply chain management and transition into GSCM is the key requirement for successful implementation of green practices.

RECOMMENDATIONS FOR FUTURE STUDIES

- Sample size or number of respondents can be increased to generalize the results
- It is suggested that in future more diverse respondents can be targeted for better results and findings
- Future studies in the same area may select different variables to take an overview of other parameters and diverse outcomes

THANK YOU



QUESTIONS/ANSWERS SUGGESTIONS