# Value Chain Index

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## **Integrated Value Chain: Chronological History**

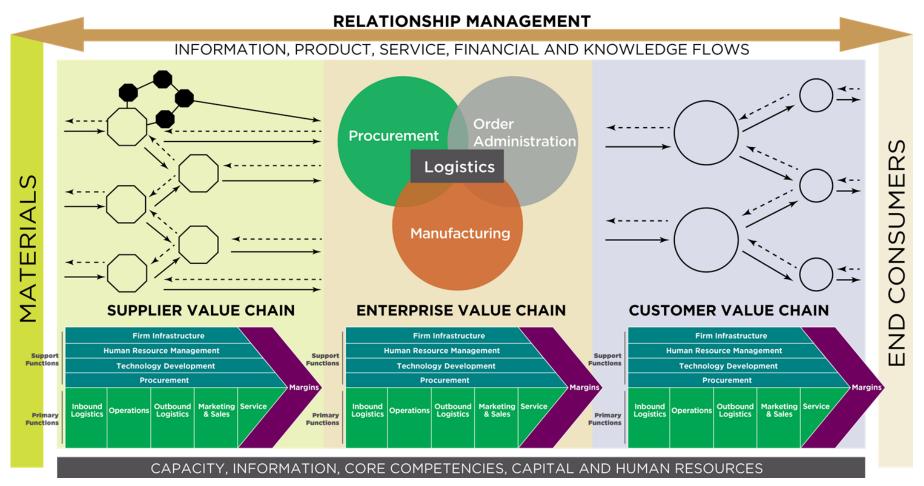
#### The evolution of value creation from supply chain to integrated value chain:

- Single company integrated supply chain model
- End-to-end integrated supply chain model
- Single company integrated value chain model
- End-to-end integrated value chain model

# End-to-End Integrated Value Chain Management provides firms with the next transformational opportunity for value creation.



## **End-to-End Integrated Value Chain Model**





## Value Chain Index: Project Team Members

**DR. ROGER CALANTONE**, Professor, Department of Marketing, Eli Broad College of Business

**DR. DAVID CLOSS,** Professor, Department of Supply Chain Management, Eli Broad College of Business

**DR. CHERI SPEIER-PERO,** Chairperson, Department of Supply Chain Management, Eli Broad College of Business

**DR. FRED RODAMMER,** Director and Professor of Practice, Eli Broad College of Business

**ROBERT MCELMURRY,** Market Analytics Manager, FANUC America Corporation



## Value Chain Index: Project Value and Benefits

# The Value Chain Index and Integrated Value Chain Assessment will provide four benefits to firms:

**Insights regarding dimensions other firms are using to characterize value chains** 

2 Influence regarding the design of the value chain assessment approach

**3** Define appropriate metrics for monitoring value chain

Benchmark their perceptions and practices regarding integrated value chain management with the objective of developing actions toward major opportunities to create value for the firm



## **Corporate Partners Currently Engaged** with Project

Corporate partners engaged in the value chain workshops:





## **Value Chain Competencies**

- MSU has been engaged in research for supply chain competencies for several decades
- MSU has recently created integrated supply chain competencies for the state-of-the-art research for APICS Beyond the Horizons study
- This experience and expertise was essential to the creation of the new innovative value chain competencies
- The assessment of value chain competencies is a critical component of the value proposition for firms that participate in the value chain assessment
- End-to-end integrated value chain performance will be dependent upon the building of expertise associated with key value chain competencies



## **Value Chain Competencies**

1	2	3	4
Talent, Resources,	Risk Management	Ideation and	Internal Integration
and Governance	and Sustainability	Innovation	

5	6	7
Customer	Supplier	Technology and
Partnerships	Partnerships	Business Processes



## **Creation of the Value Chain Index**

#### Initial MSU research focused on the creation of the Value Chain Index:

- Supply chain-related indices of Consumer Confidence Index (CCI), Purchasing Managers Index (PMI), and Customer Satisfaction (ACSI) were researched
- New Logistics Index design, which assesses directional perceptions of transportation, warehousing, and inventory costs will not be focused on value chain
- None of the supply chain indices corresponded to the multiple-company scope of integrated value chain management
- The index is an aggregation of a perceptual survey and may be classified as **Level One** value chain assessment



## **Creation of the Value Chain Index**

#### **Current Positioning**

- Lack of MSU access to firm performance data results in reliance on firm perceptions survey data
- Survey would capture general perceptions of value chain dimensions
- Survey will apply a maturity scale model for a limited number of value chain dimensions
- Survey will incorporate some Kepner-Tregoe techniques to characterize required value chain decisions, value chain plans, and value chain operations



## **Value Chain Index Characteristics**

Characteristic	Value Chain Index Approach
Frequency	Twice per year
Audience	Multiple firms; multiple industries
Methodology	Firm perceptions survey
Survey execution	MSU in collaboration with professional association
Survey analysis	MSU will analyze survey results
Feedback to participants	MSU with marketing partner
Communication of findings	MSU will report composite index results; eventually index will be reported by value chain category



# Value Chain Index: Example Categories for Value Chains





#### Food and beverage



#### **Consumer electronics**



Industrial equipment



#### Consumer packaged goods



#### Pharmaceuticals and healthcare





The Axia Institute: Delivering Value Chain Solutions MICHIGAN STATE UNIVERSITY

## **Example Value Chain Executive Education Topics**

Integrated Value Chain Management Concepts Value Chain Competencies and Gap Analysis Value Chain Talent Development

Supplier Partnerships/ Alliances Customer Partnerships/ Alliances Value Chain Ideation and Innovation



## **Project Work Plan: Accomplishments**

- Formed a team of research experts
- Researched and assessed existing indices
- Developed end-to-end integrated value chain model
- Conducted two value chain workshops with eight corporate partners
- Identified value chain competencies
- Developed value chain performance assessment survey to measure competencies

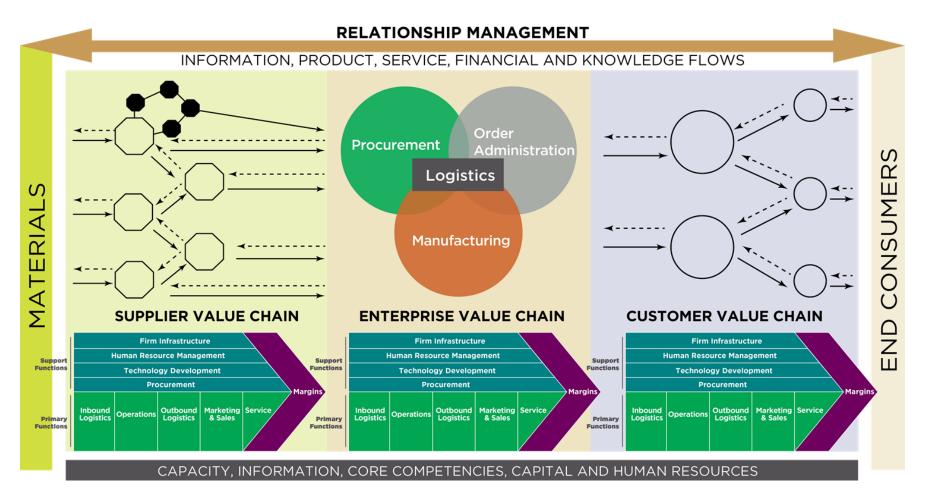


## **Project Work Plan: Future Activities**

- The next value chain workshop in January 2018 will validate the Value Chain Index approach
- Value Chain Index effort will be rolled out to selected industries in early 2018
- Value chain assessment executive education program will be developed in 2018



## **End-to-End Integrated Value Chain Model**





## **Questions Regarding Value Chain Assessment**

What types of opportunities can value chain assessment bring to the firm?

Compare the roles of the Level 1 assessment versus the Level 2 and 3 assessments



# Thank you

