

A REVIEW OF COMPONENTS AND CONFIGURATIONS OF SURVEY RESEARCH IN LEAN CONSTRUCTION

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AGENDA

- Introduction
- Research Question
- Research Method
- Survey Research
- About the Sample
- Identified Components
- Different Configurations
- Content Analysis
- Findings



Introduction

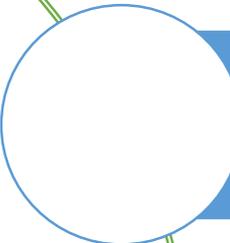
- Dependence of research reliability and validity on its methodology and Design

- Survey, a common research method

- The need to identify the active state, components and classifications of survey research in Lean Construction



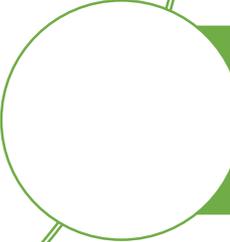
Research Question



What are the common components of survey research in Lean Construction?



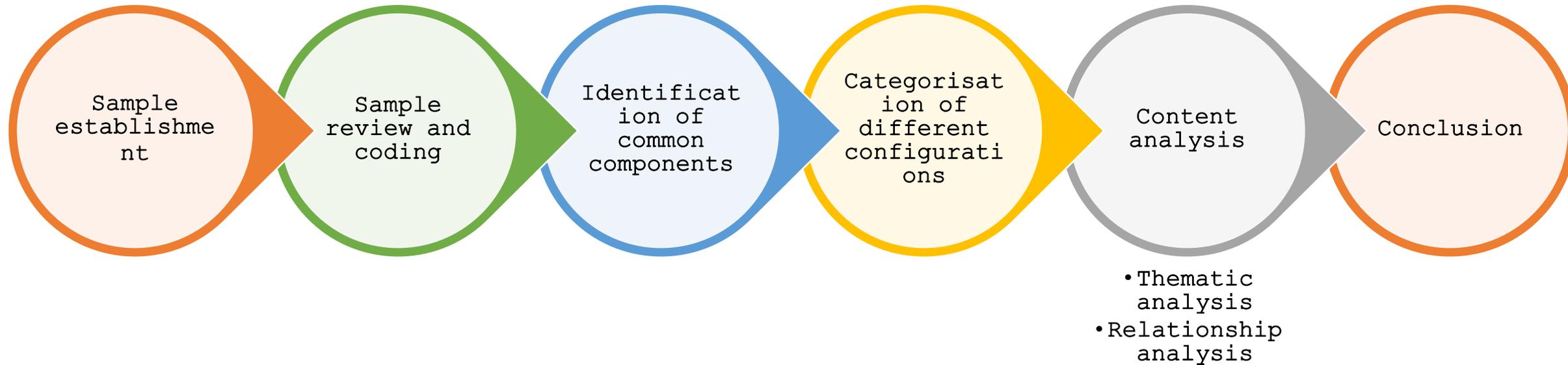
What categories of configurations exist based on the components?



What is the relationship between the categories?



Research Method



Survey Research



A type of
field study

Collect data
from
individuals



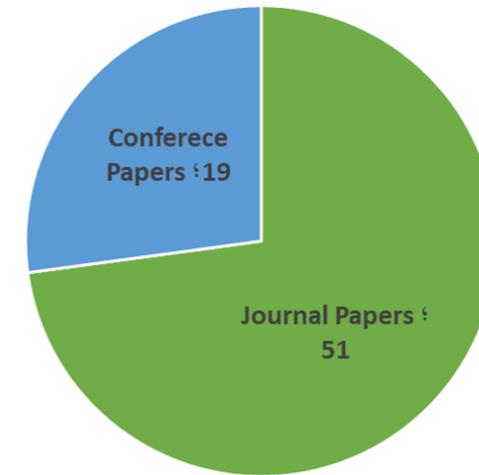
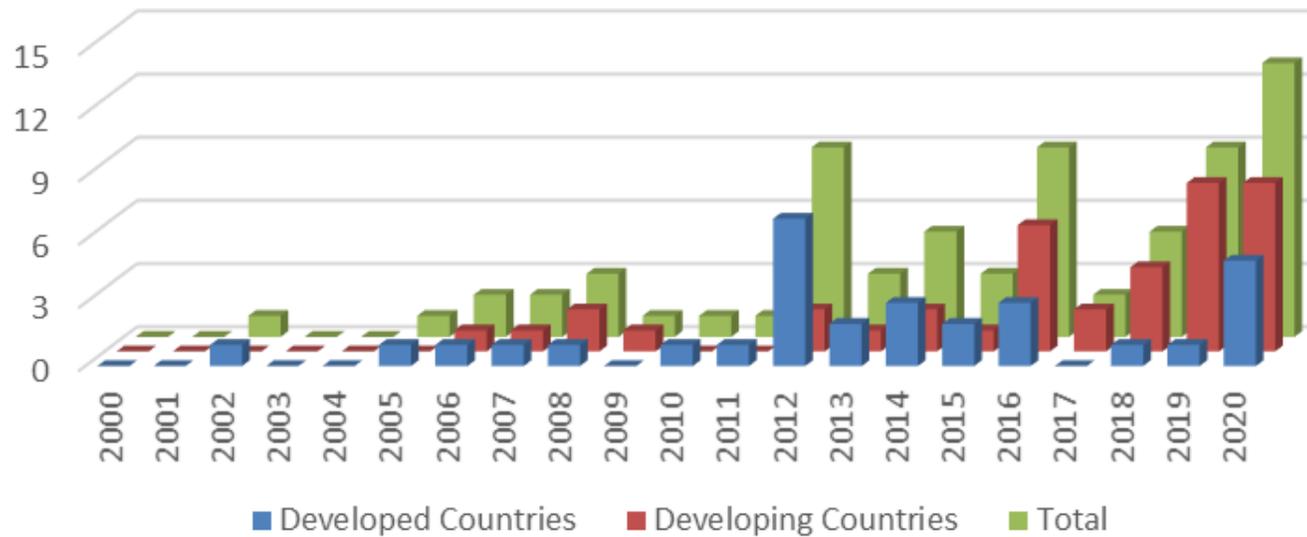
Individuals to
answer
predetermined
questions



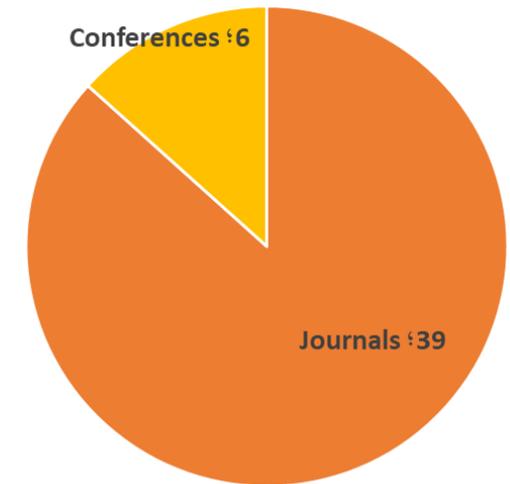
(Check and Schutt 2011), Images from www.alamy.com



About the Sample



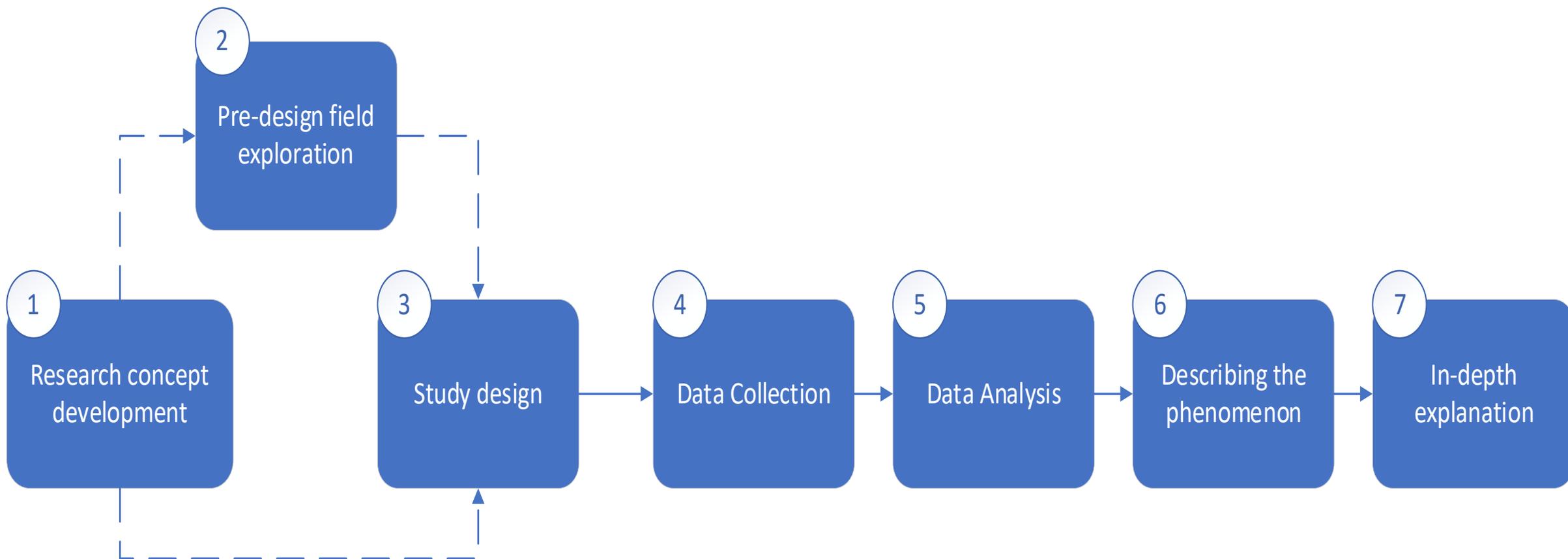
Publications by Type



Publication Mediums by Type



Identified Components



Different Configurations

Simple

Semi-elaborated

Elaborated



Different Configurations

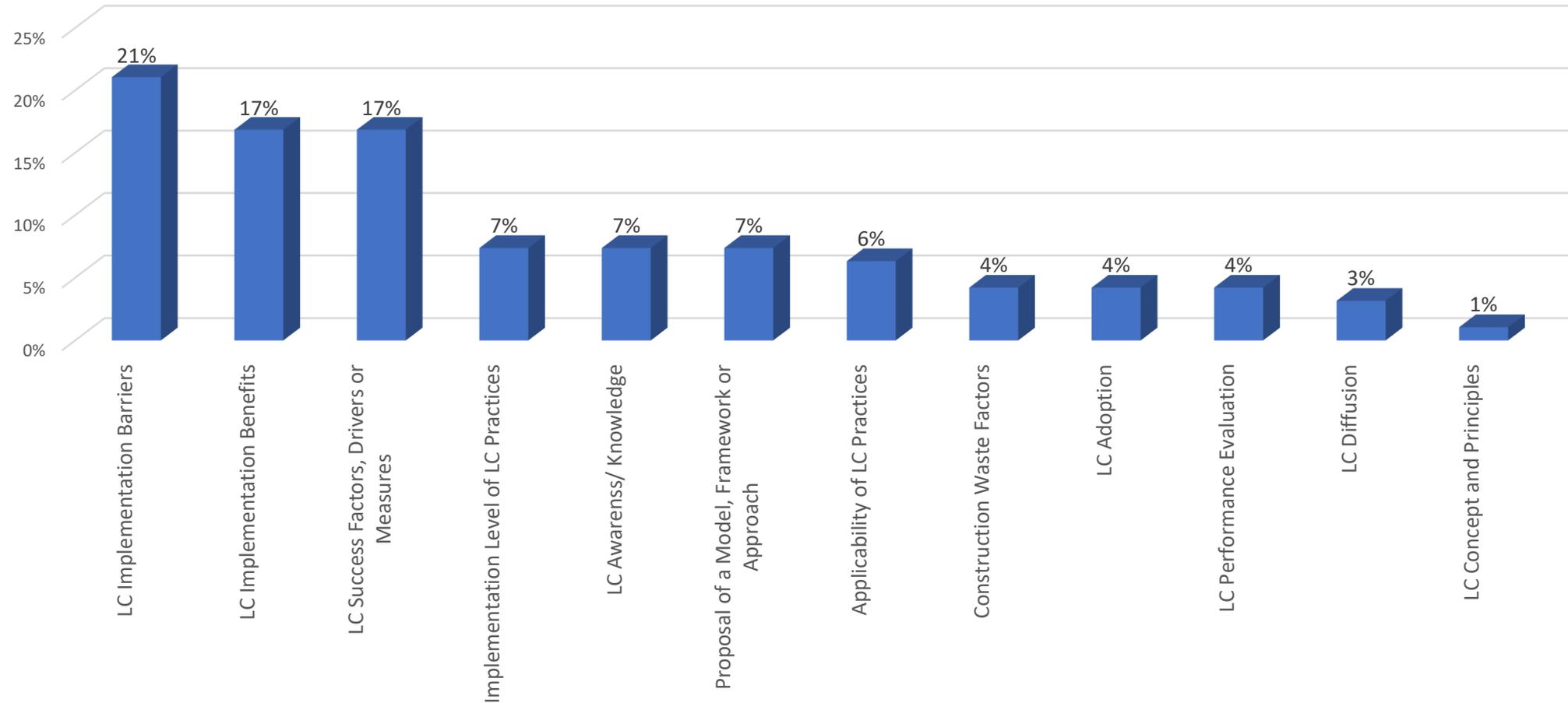
Research Category	Research Concept Development	Pre-design Field Exploration	Study Design	Data Collection	Data Analysis	Describing the Phenomenon	In-depth Explanation
Simple	Included	Not Included	Vary	Included	Included	Included	Not Included
Semi-Elaborated	Included	Included	Vary	Included	Included	Included	Not Included
Elaborated	Included	Included	Included	Included	Included	Included	Included

The difference between the configurations



Content Analysis

Themes of findings of the sampled studies



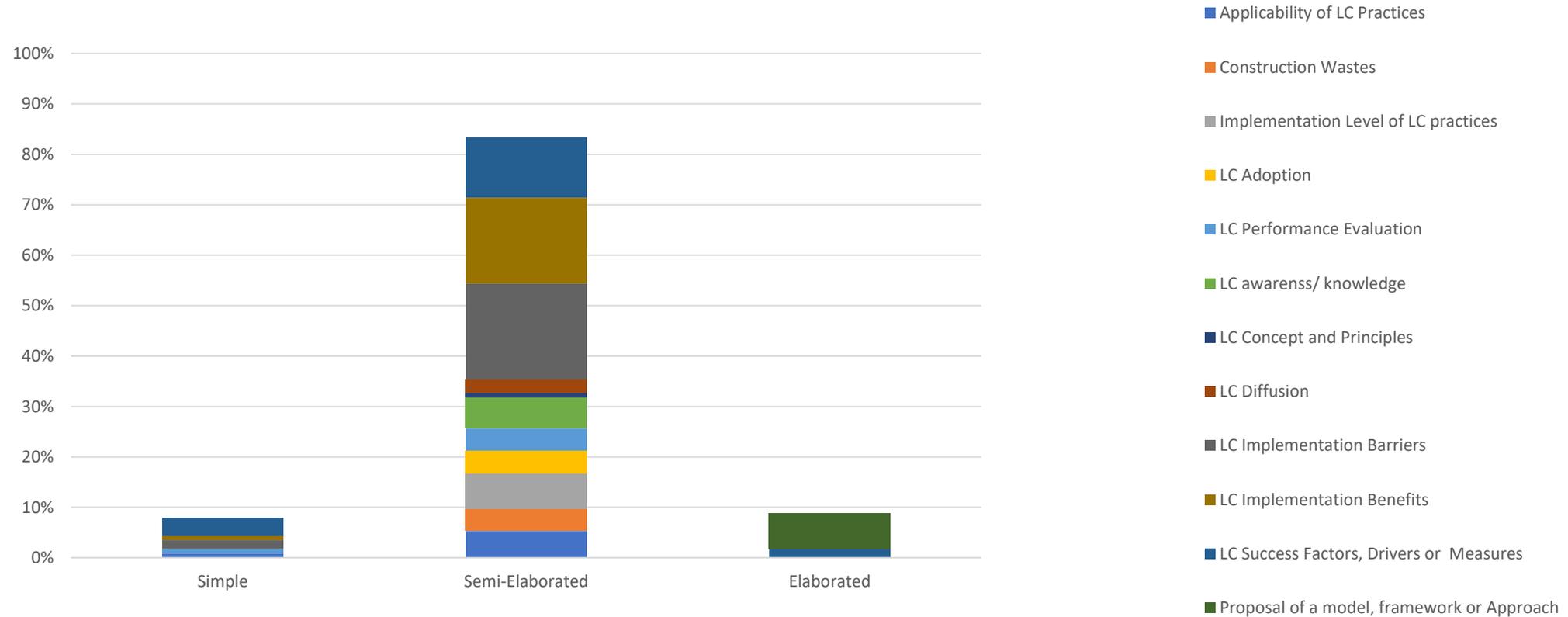
Content Analysis

Word cloud chart of the most frequent words in all studies



Relationship Analysis

Themes of findings by study



Findings

Sample collection and Analysis

Increasing interest in survey research

Diverse range of publication mediums with higher interest in journals

Seven Common Components

Research concept development
Pre-design field exploration
Study Design
Data Collection
Data Analysis
Describing the phenomenon
In-depth exploration

Three Configurations

Simple
Elaborated
Semi-elaborated

Content Analysis

Twelve main themes
Most popularity for LC barriers, benefits and drivers
Least popular: fundamental issues e.g. LC adoption, diffusion and principles
Word frequency analysis

Analysis of Relationship between the Configurations

Most popular configuration: sem-elaborated
Significant difference in content: themes and most frequent words

Recommendations

Empirical data will be of higher value in the future

Researchers to consider more diverse elaborated methods

Researchers to direct studies towards more neglected issues such as diffusion and adoption



THANK YOU!

If you enjoyed this presentation, please check the full text in the conference proceedings.

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