

LCM and efficiency in the building process

Residential projects in the Netherlands



RESEARCH SCHOOL
INTEGRAL DESIGN OF STRUCTURES

Subject

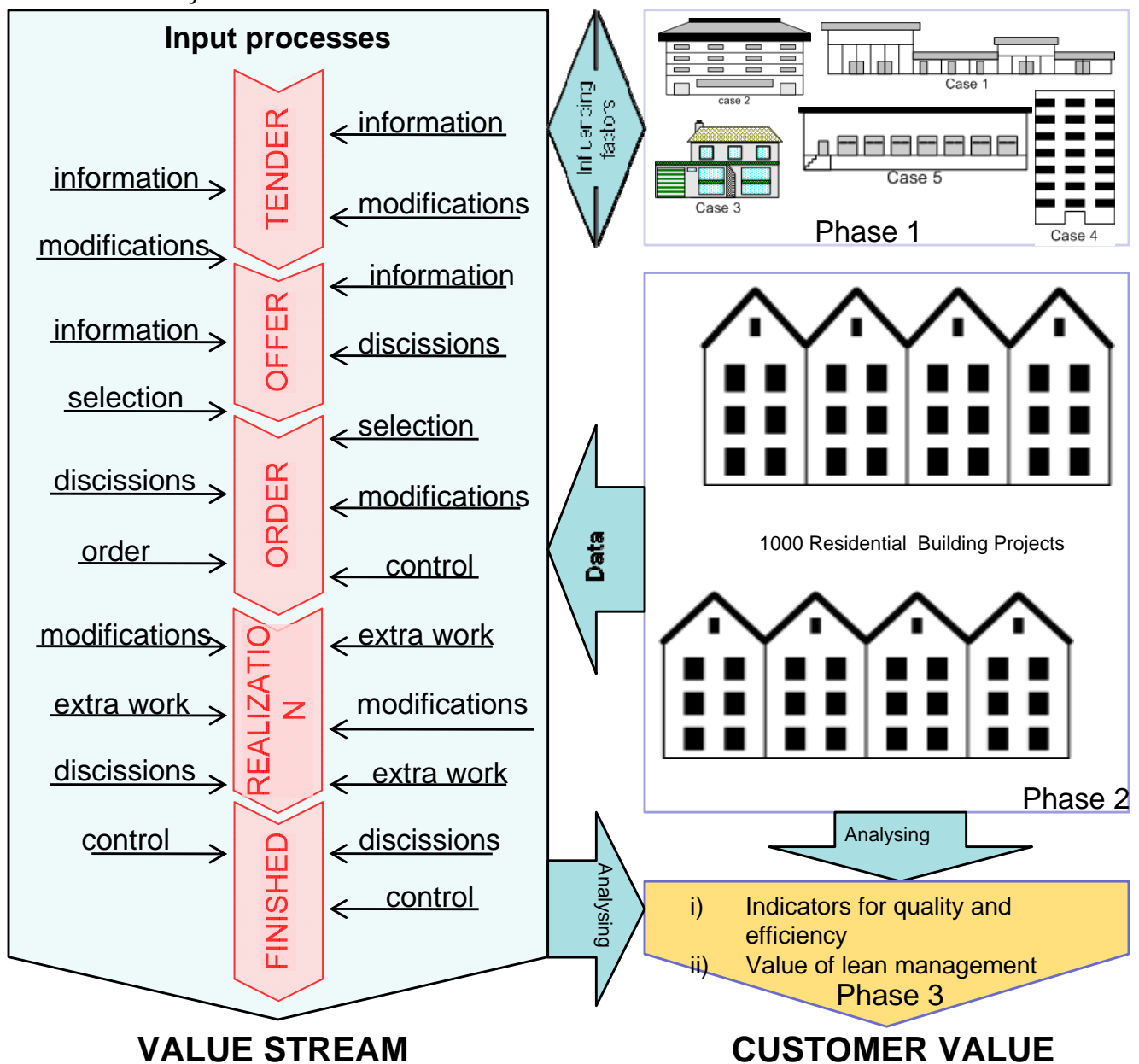
The subject of this research is Lean Construction Management and efficiency in the building process in the domain of Total Quality Management.

Goal

The goal of this research is to determine the parameters of efficiency in construction.

Expected Results

The expected results are; i) a set of indicators to evaluate the quality and efficiency of residential projects in the Netherlands, ii) a model presenting the value of lean management in the construction industry



Lean Construction Management and efficiency in the Building process

Residential projects in the Netherlands.

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Subject

This research investigates efficiency in the building process, actors for reducing of waste supported by the theory of lean management, building process and information management. This research will be executed at the level of residential projects in the Netherlands. The subject of efficiency is part of the domain of Total Quality Management.

Goals

The goal of this research is to determine the parameters of efficiency in construction and to compare efficiency between "traditional" projects and "lean" projects. These parameters concern the information flow from designers to contractors and from contractors to subcontractors and suppliers, both seen from the viewpoint of the contractor.

Research Question

What are the parameters of efficiency in construction?

Strategy

This research has three phases; -1- finding influencing factors by literature search and 5 case studies. -2- collecting data from 1000 residential building projects. -3- analyzing data by statistical methods.

Expected Results

The expected results are; -1- a set of indicators to evaluate the quality and efficiency of residential building projects. -2- a model presenting the value of lean management in the construction industry.

Preferred Partners Applications / Sponsors

Building industry, residential building

Prime Publication / Prototyping

2009

Research Period

2008-2012