

A Conceptual Exploration of a Collaborative Environment in the Construction Industry When Working with Temporary Socio-Technical Processes

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Why this study?

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The Issue

- Low productivity

The Issue

- Low productivity
- A project is complex in itself

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- Technology needs transparent information flow

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The Issue

- Low productivity
- A project is complex in itself
- Technology needs transparent information flow
- Focus on collaboration
- Contribution: industry level

Research Question:

Can we talk about a collaborative environment in the construction industry when working with temporary socio-technical processes?

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Can we talk about a collaborative environment in the construction industry when working with temporary socio-technical processes?

Objectives:

1. Assess the characteristics of temporality in the relationship between a project and the construction industry as a network.
2. View integrated project delivery (IPD) through the boundary theory of loose and tight couplings.

Methodology

- Semi-structured literature review
 - Scott (2006)
 - Theoretical and empirical papers

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- Organizational theory

Methodology

- Semi-structured literature review
 - Scott (2006)
 - Theoretical and empirical papers
- Organizational theory
- Issues with the paper
 - Extensive literature
 - Not the only solution



Context

Complex nature of construction

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- Complex components

Baccarini (1996), Gidado (1996)

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- Boundaries
Kerosuo (2006)

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- Bridge projects and network: open system theory
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Dubois and Gadde (2009), Scott (2006)
 - Integrated Project Delivery model (IPD)



Discussion

THE CHARACTERISTICS OF TEMPORALITY IN THE RELATIONSHIP BETWEEN A PROJECT AND THE CONSTRUCTION INDUSTRY AS A NETWORK

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2. Re-think boundaries working in the industry today

Discussion

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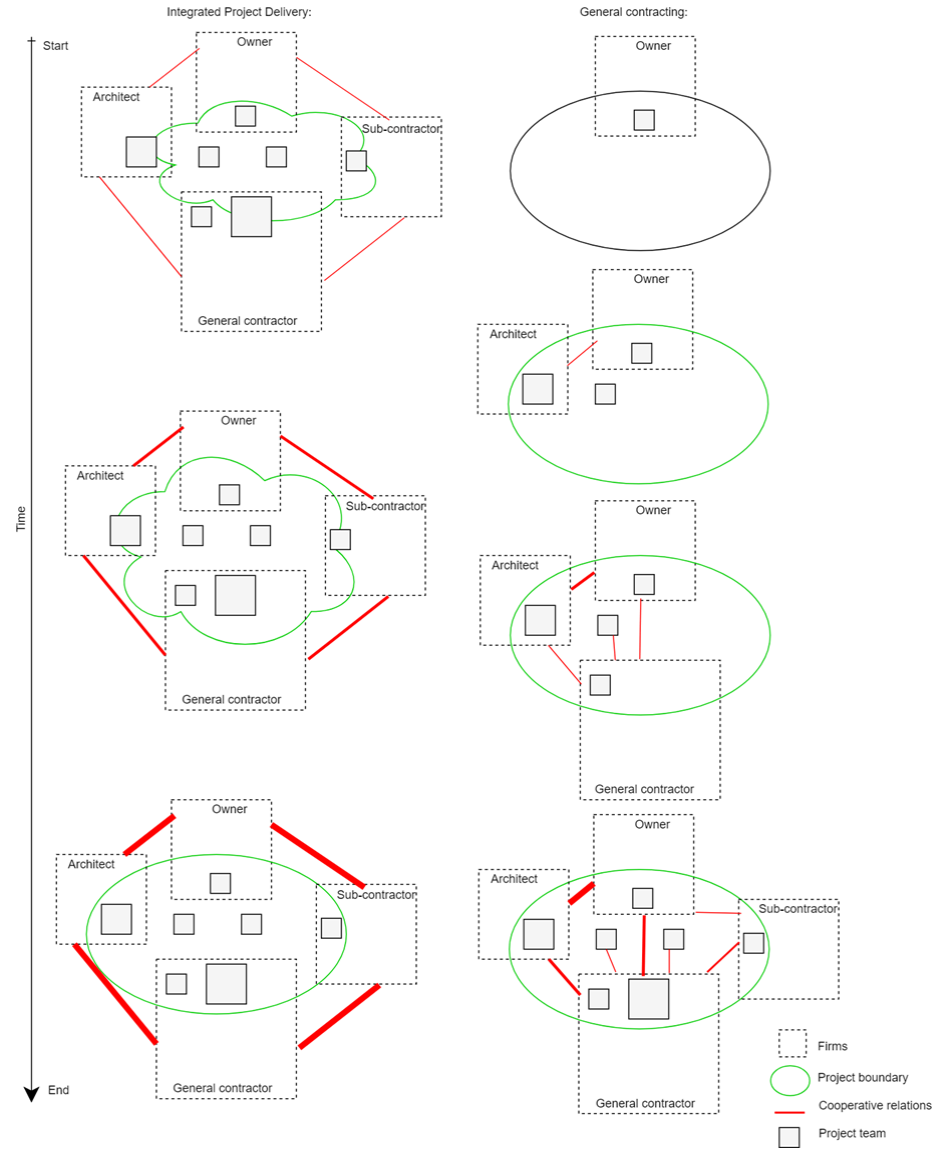
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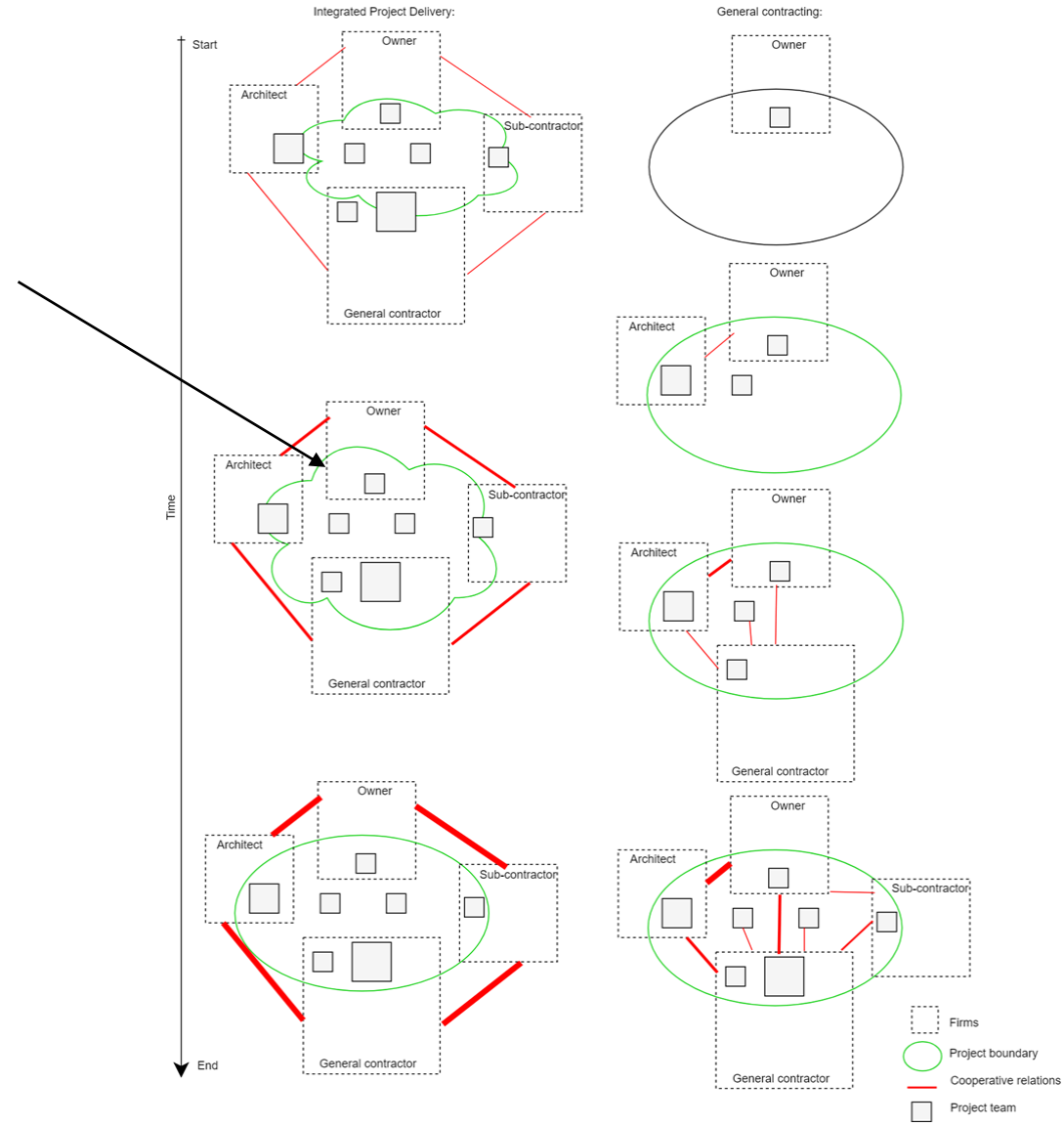


Discussion

DOES IPD TIGHTEN COUPLINGS IN THE PERMANENT NETWORK?

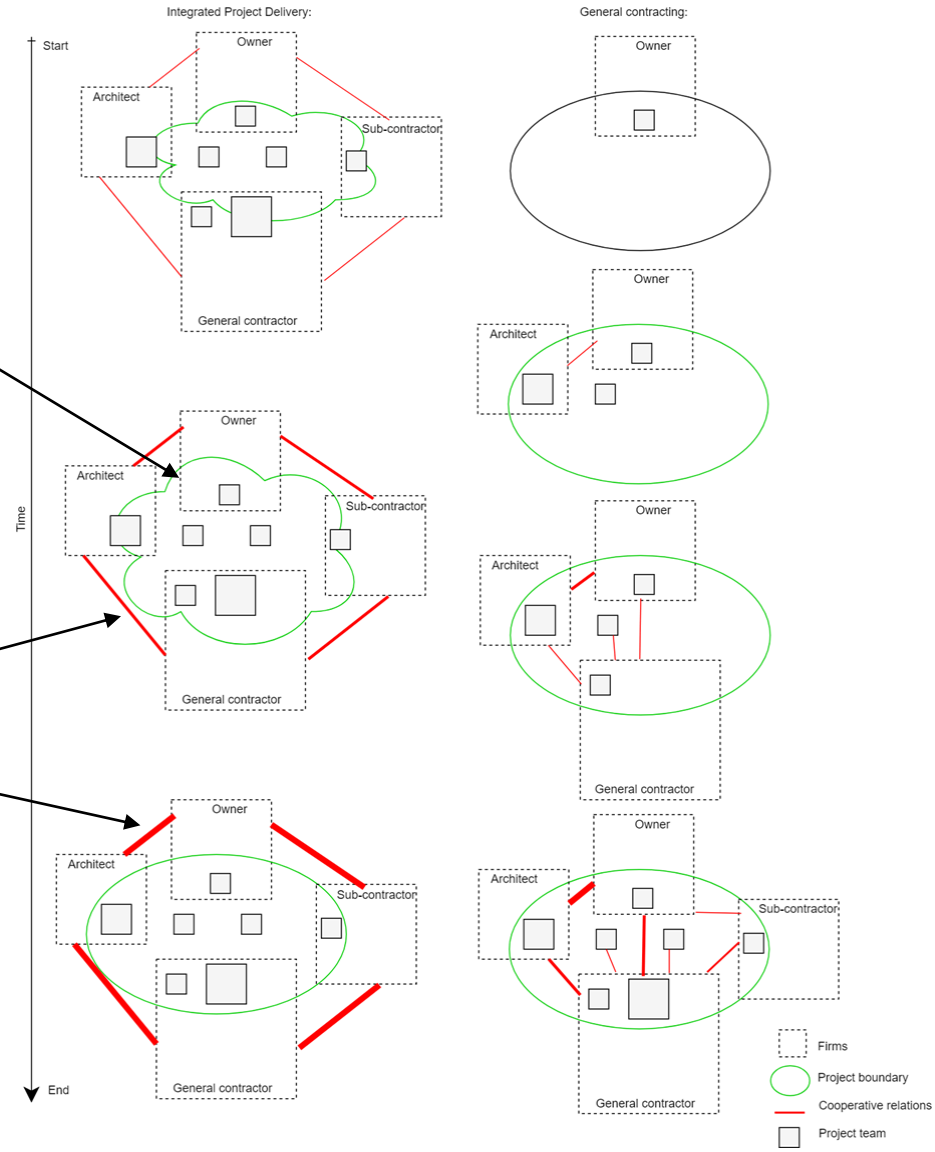


Dynamic boundaries



Dynamic boundaries

Stable relations get stronger





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- We need collaboration *because* of socio-technical processes

Can we talk about a collaborative environment in the construction industry when working with temporary socio-technical processes?

- We need collaboration *because* of socio-technical processes
- IPD – a solution for temporality?

Implications

Contribution

- Knowledge on where we should place our focus

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Future research

- Empirical studies

Implications

Contribution

- Knowledge on where we should place our focus

Future research

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- Negative effects

Implications

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- Knowledge on where we should place our focus

Future research

- Empirical studies
- Negative effects
- Practical need for the industry



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