Studying the impact of digital information sharing in the public tender of large, complex projects

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Helmus van de Langemheen
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Does sharing digital information during the tender phase reduce uncertainty and ambiguity perceived by contractors?

How and why?
In this presentation

- The *how* and *why* of sharing digital information
- Contractors’ perspective
- Take away message
The how and why of sharing digital information

Case of a 40-km highway renovation & replacement project – Rijkswaterstaat

2-stage contracting

€ 1,5 billion for ‘regular’ scope
The how and why of sharing digital information

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3,069 product & service requirements

for 724 distinct objects
The how and why of sharing digital information

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2-stage contracting

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3.069 product & service requirements

for 724 distinct objects from

6 municipalities, 3 provinces, 2 waterboards,

2 traffic control centers
How much information (# of documents) do you think the client gathered for this tender?
The how and why of sharing digital information

Case of a 40-km highway renovation & replacement project – Rijkswaterstaat

How much information (# of documents) do you think the client gathered for this tender?

20,000 documents!
‘Traditional’ information sharing

Gather information from various sources and store in a dataroom shared with contractors.
‘Traditional’ information sharing

Gather information from various sources and store in a dataroom shared with contractors.

So HOW to structure and share digital information?
Data has a better idea
The how and why of sharing digital information

Case of a 40-km highway renovation & replacement project – Rijkswaterstaat

1. Data structure
The how and why of sharing digital information

Case of a 40-km highway renovation & replacement project – Rijkswaterstaat

1. Data structure

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</table>
The how and why of sharing digital information

Case of a 40-km highway renovation & replacement project – Rijkswaterstaat

1. Data structure

2. ABC-checks

- Actueel (Up-to-date)
- Betrouwbaar (Reliable)
- Compleet (Complete)

Reduced to 840 documents
The how and why of sharing digital information

Case of a 40-km highway renovation & replacement project – Rijkswaterstaat

1. Data structure
2. ABC-checks
3. Omission list

What information do we have? What is missing?

What risks are related to not having this information?
The how and why of sharing digital information

Case of a 40-km highway renovation & replacement project – Rijkswaterstaat

1. Data structure
2. ABC-checks
3. Omission list
4. Release process
Contractors’ perspective

Interview of contractors involved in the tender

“Any structure is desirable, as long as there is one.”

“Everything was clear and logical to find.”
Contractors’ perspective

Interview of contractors involved in the tender

“Any structure is desirable, as long as there is one.”

“Everything was clear and logical to find.”

“For sure, there was enough information. Sometimes even too much, for example, whole research reports. The conclusion would’ve been enough at this stage.”

“Sharing native files really helped us process so much information quickly. Documents in PDF required a lot of manual work.”
TAKE AWAY MESSAGE

1. Choose a structure
2. Check your data
3. Analyse the risks
4. Take ownership and share conclusions.