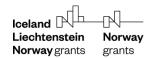






# HOW DATA AND AIS RESHAPING CONSTRUCTION MANAGEMENT

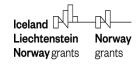






"What you want to achieve in the future is hidden in what you avoid doing today"





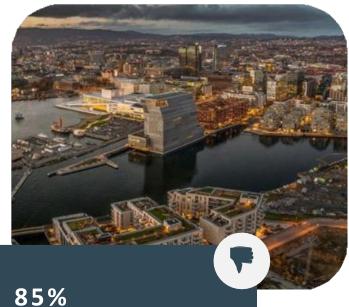




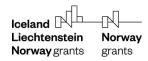
### **Every Year...**

30.000 new buildings in Norway

1.750.000 new buildings in the EU



experience cost overruns







## **Predictability of Budget Busts?**

#### THE PLANNING FALLACY







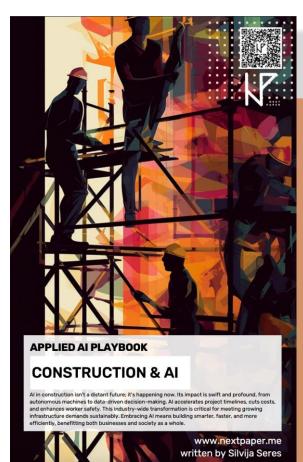
20 %

time spent looking for information



#### STRATEGIC TRENDS IN THE INDUSTRY

```
// BIM (Building Information Modeling)
// Modularity, prefabrication and 3D printing
// Sustainable Construction Practices
// Green Building Certifications
// Al driven management (safety, risk, project)
// Drones and robotics (surveying, inspections)
// AR and VR (planning, training)
// IoT and digital twin (smart construction, operations)
// Smart Cities Infrastructure
// (Blockchain (supply chain transparency, contracts))
```

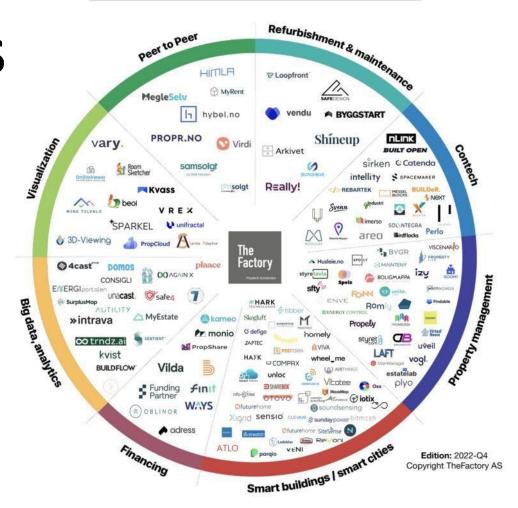


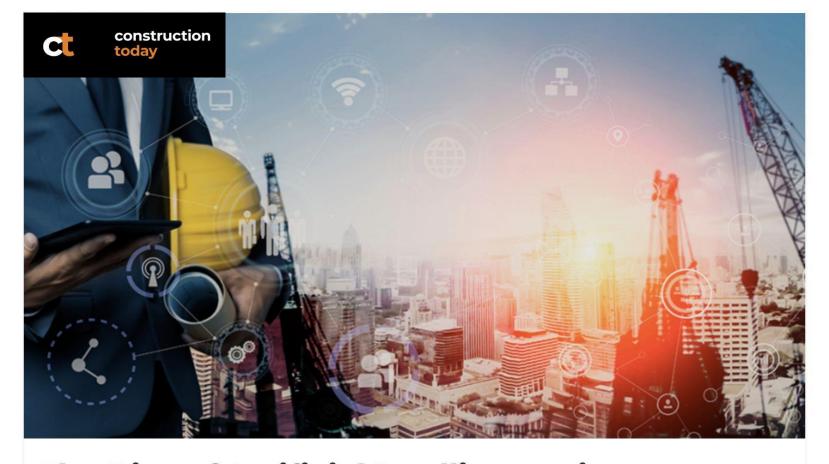
## 10 years ago





# POSSIBILITIES BEYOND BIM





## The Rise of Artificial Intelligence in Construction

## WHAT DO WE ACTUALLY WANT FROM AI?

Data-driven decisions

Improved risk management

Optimization and automation

Competitive edge



# WHY ARE WE STRUGGLING TO GET GOING?

Complex and outdated technology stack

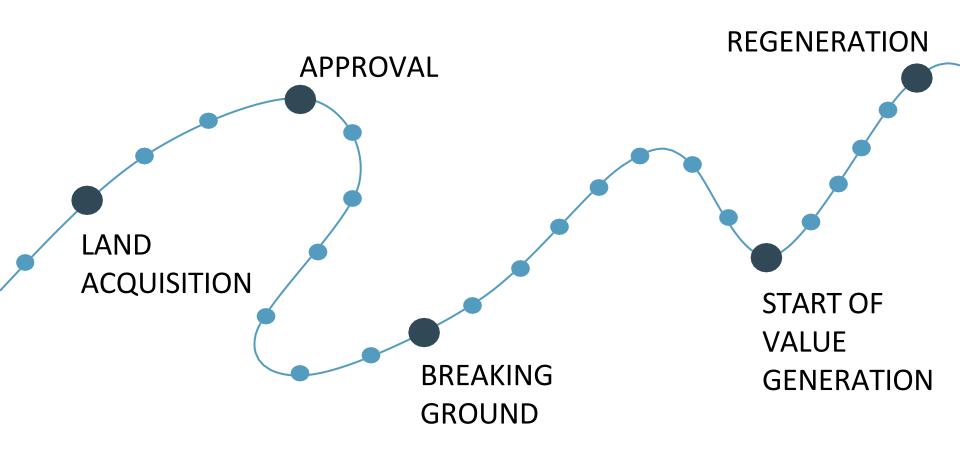
Lack of understanding and trust in new digital tools

Gap in digital skills in the workforce

Data stuck in silos



#### DATA ACROSS THE PROJECT LIFECYCLE



## Project management isn't getting easier, due to increased

Project Complexity

New Requirements Legal Tension



Project Example

## **CONSTRUCTION CITY**



**50** Contracts for realisation



**500** pages of unstructured documents for each contract

# DOCUMENT REVIEW IS TIME CONSUMING AND ERROR PRONE

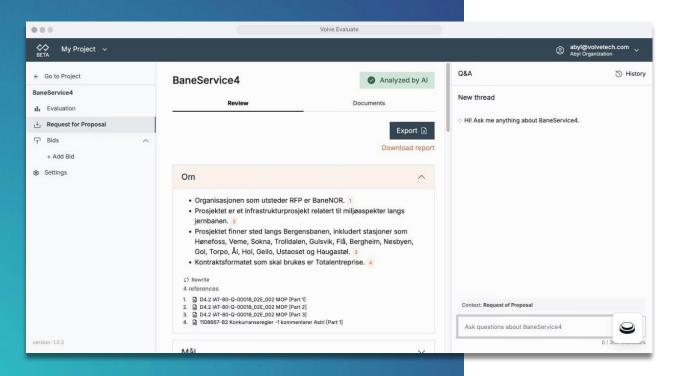


50+ x 800+ contracts hours









Get instant overview of criticalities and risks.

#### **DECISION MAKING IS DOCUMENT-HEAVY**

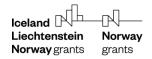
CONSTRUCTION DOCUMENTS

PROJECT DECISION-MAKING

... review

... identify

... evaluate









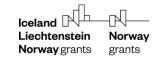


**New information** 

**Identify** connections

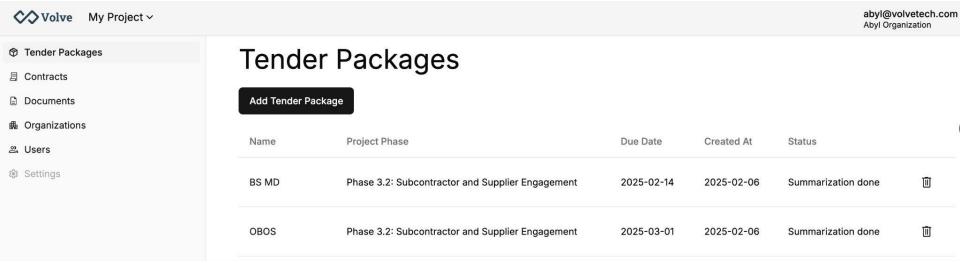
Find references

**Evaluate** interfaces









Tender processes

Procurement evaluation

Project management

Quality control

#### **Construction Needs AI built for the Industry**

## Industry knowledge

32

unique and automated evaluation methodologies embedded for the user

## Data aggregation

2000

construction documents analyzed and learned from since our beta launch

## **Supporting Workflows**

50%

time saved on existing workflows





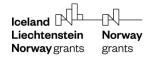


# DATA AND AI IS RESHAPING CONSTRUCTION MANAGEMENT

Faster insights

**Connected information** 

Optimized Project Execution







#### Interested to learn more?

### Let's connect!



herman@volvetech.com