

AI for Efficient Project Controls

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Constructor



Overview

1. The Problem

2. The Cause

3. The Solution

4. Case Study

5. How we Tackle the Problem?

6. Conclusions



The Problem

98% projects overcost by more than 30%...

77% projects are at least 40% late...



The Cause

Too much documentation:
130 million emails, 55 million documents,
and 12 million workflows



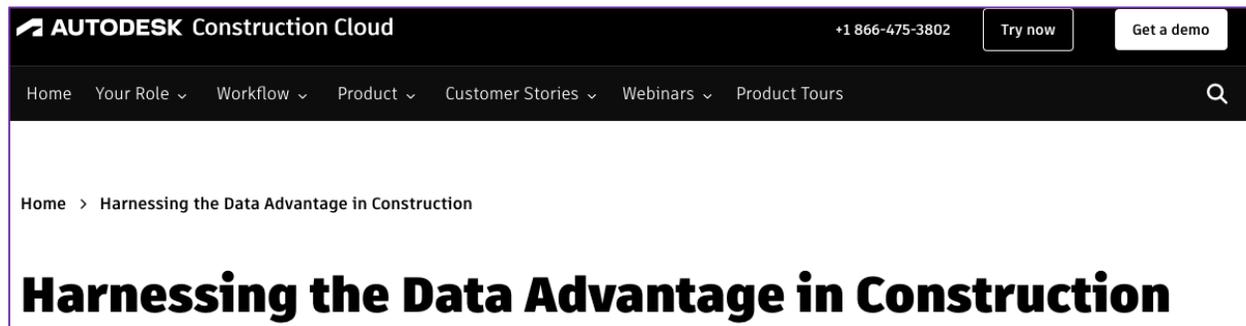
A SITE Products Industries Insights Company Marketplace

What is the Most Important Data to Track on Construction Projects?



The Cause

Fragmented construction data leads to suboptimal decisions: Data-issues cost the global construction industry US\$1.8 trillion annually



The Cause

Less time on project...

Project professionals lose 2 working days solving avoidable issues and looking for information

Poor Communication, Rework, Bad Data Management Cost Construction Industry \$177B Annually

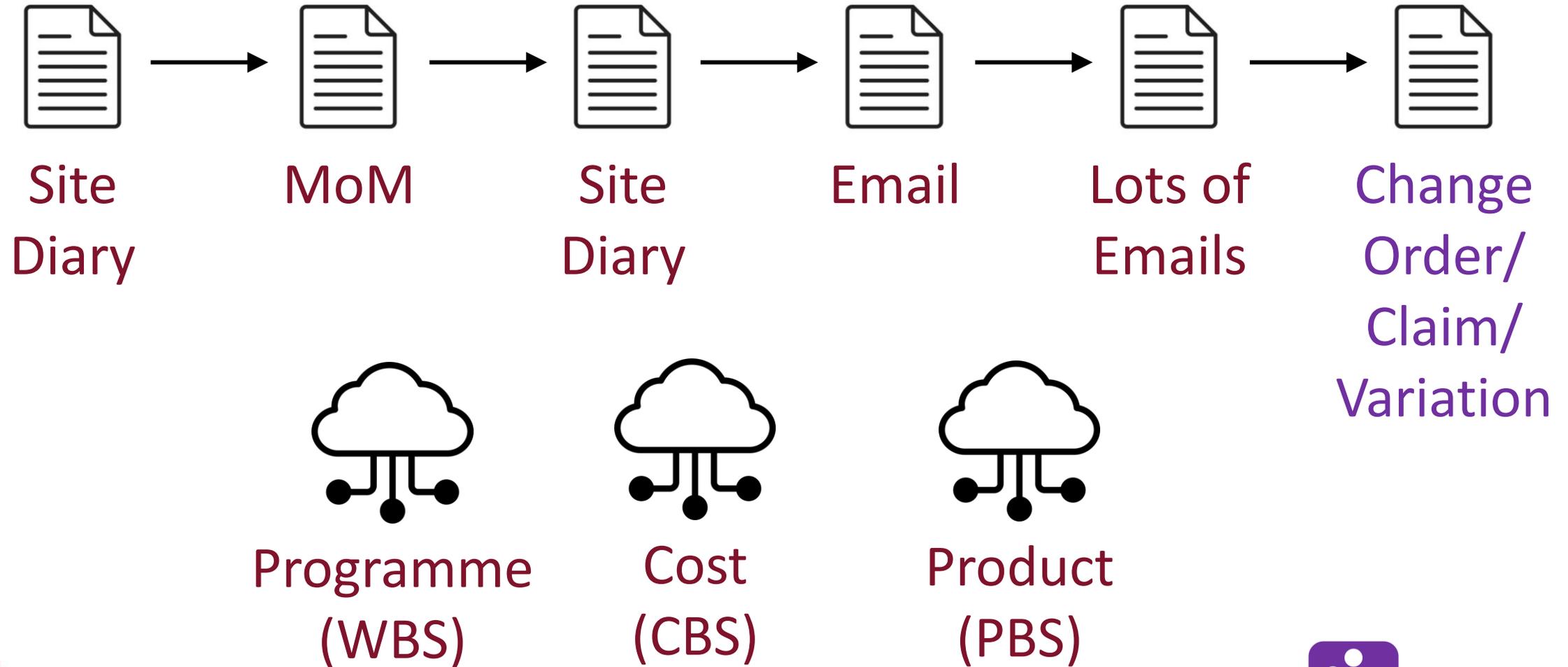
Survey of construction leaders underscores the need for better communications and data management practices to make teams more productive and reduce costly rework

Aug 1, 2018

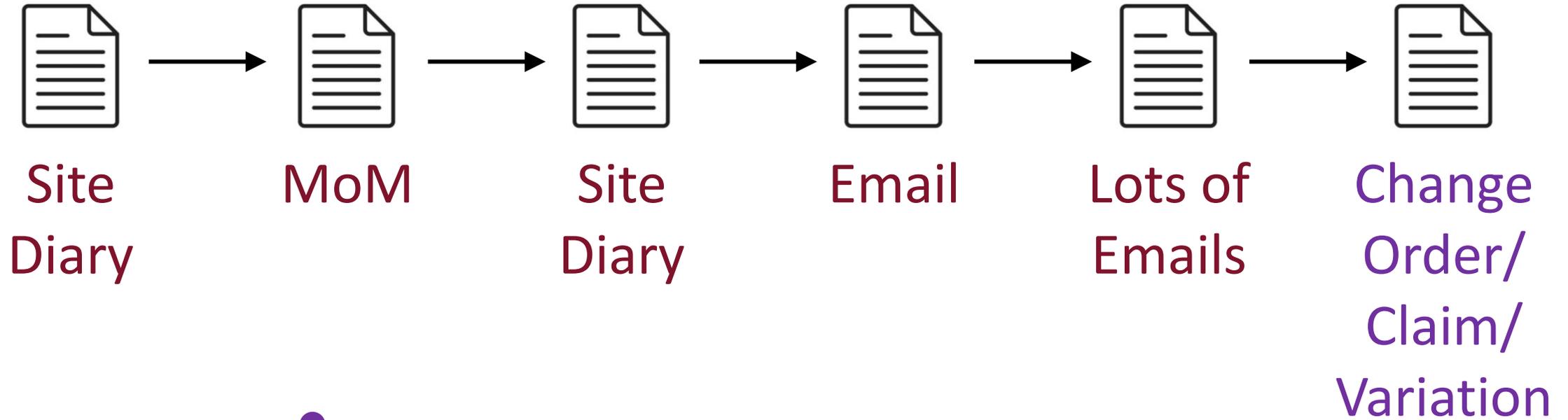
From [PlanGrid](#)



The Cause



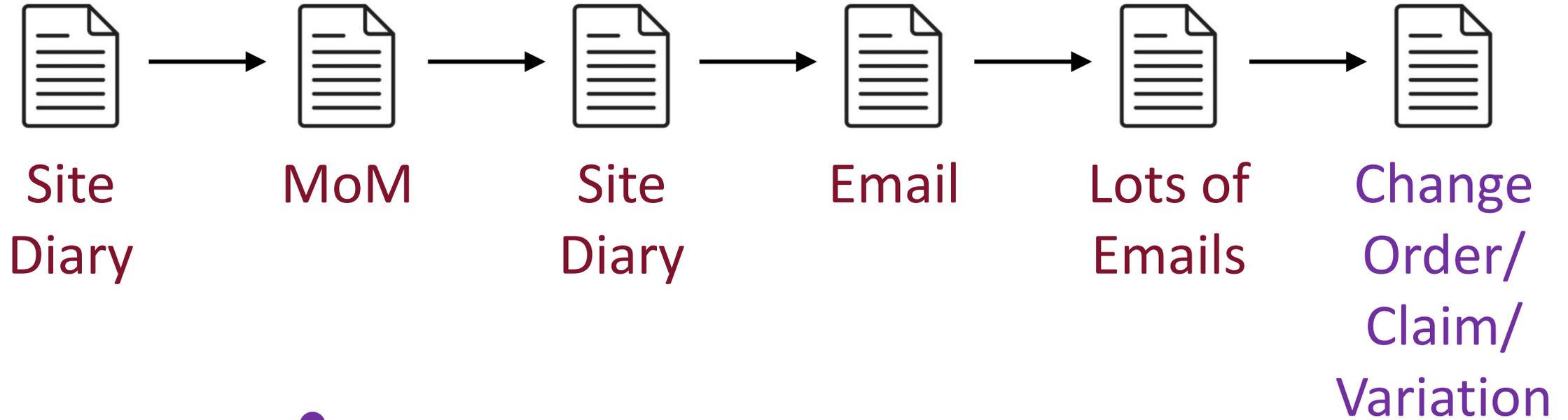
The Solution



Detect risks and predict impact in real-time



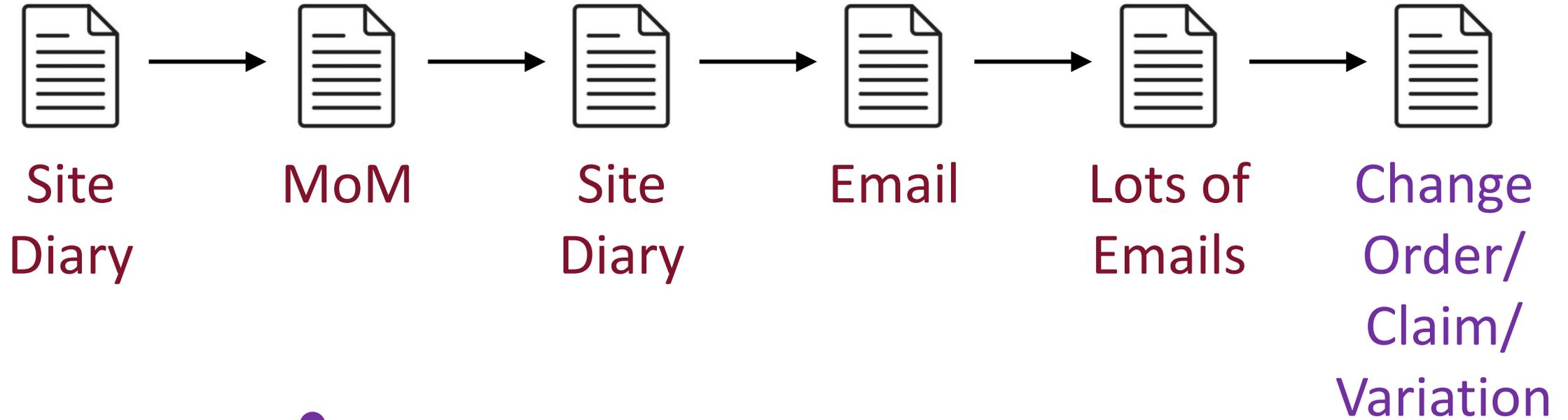
The Solution



Tracks risks across documents
(connect-the-dots)



The Solution



Integrate seamlessly in existing workflows



Case Study



Case Study

Sao Paulo Metro in Brazil

- Partnered with Cetenco Engenharia SA
- Large infrastructure project
- Line 2, Lot 6
- Three stations and tunnelling works
- Multi-Billion Euros



Case Study - Overall



4 Weeks Pilot

Constructor was deployed on an ongoing project for four weeks with weekly update meetings.



Real-time processing

Constructor connected to project Sharepoint directly and processed new documents in real-time.



Stakeholders

Project Director, Contract Manager, Planning Manager and Project Engineers participated in the pilot.



Case Study - Metrics



**100% risk
identification**

Constructor detected all actual risks with a false positive rate of 14%.



**86% accuracy in
impact estimation**

Constructor could predict activities impacted by an issue. Inaccurate activity descriptions impacted accuracy.



**100% accuracy in
tracking risks**

Constructor tracks and build risk timelines in real-time across documents making up-to-date information easily accessible.



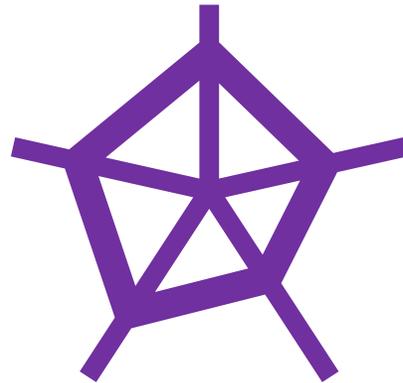
Case Study - Highlights

Productivity Dashboards

Constructor makes project risks crystal clear, so you can focus where it counts.

Coherent project state from documents

Constructor turns fragmented documents into a coherent, up-to-date project view.



Improves accountability

Stay aligned with an online hub for risks, actions, and accountability.

Agentic AI Automation

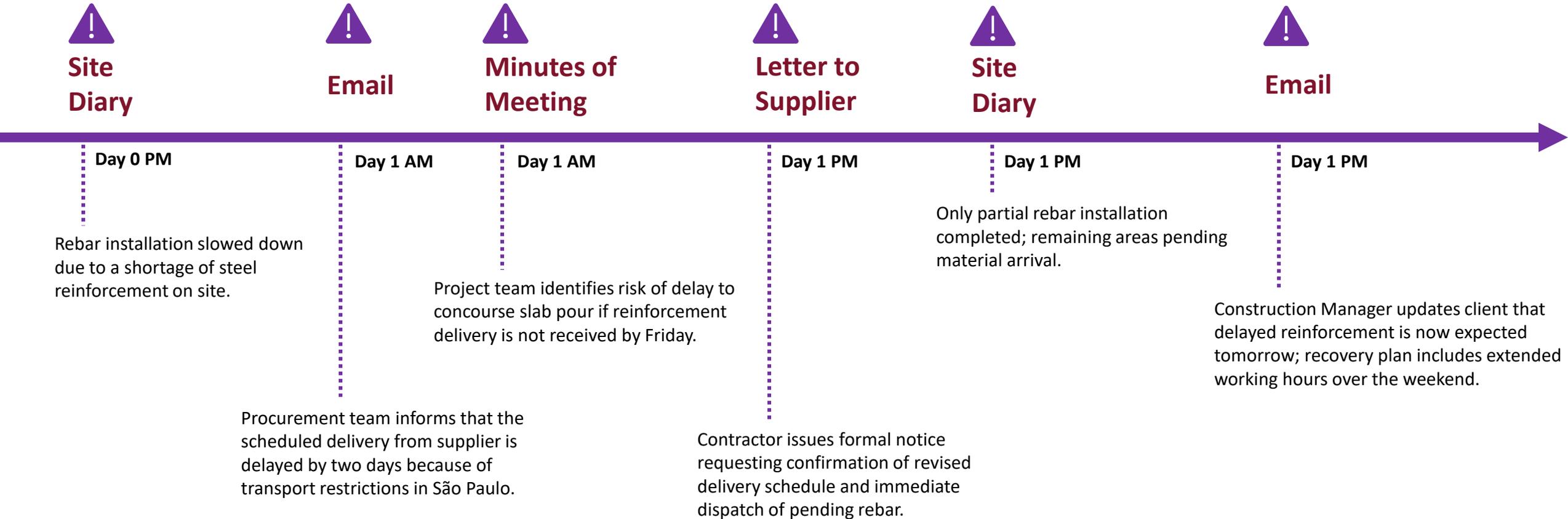
Use AI agents to automate risk reporting and management.

Recommendations to deal with risks

Constructor provides appropriate recommendations to deal with risks.



Risk/Issue Timeline



Testimonial

*“Constructor **empowered** us to channel our proactive approach with **real-time contract and risk management** at its core. The platform brought clarity to deliverables, **accelerated decision-making**, and its automation **cut through the noise**, allowing us to **focus on what matters**. Implementation was seamless, with no extra templates or complexity, resulting in minimal effort for maximum value.”*

Fernanda Campelo

Legal Business Manager and Data Protection Officer

Cetenco Engenharia S.A.



How we Tackle the Problem?



How we Tackle the Problem?

LLMs fine-tuned using domain-specific data to **detect risks**

Uses rules and AI strategically to **predict risks**



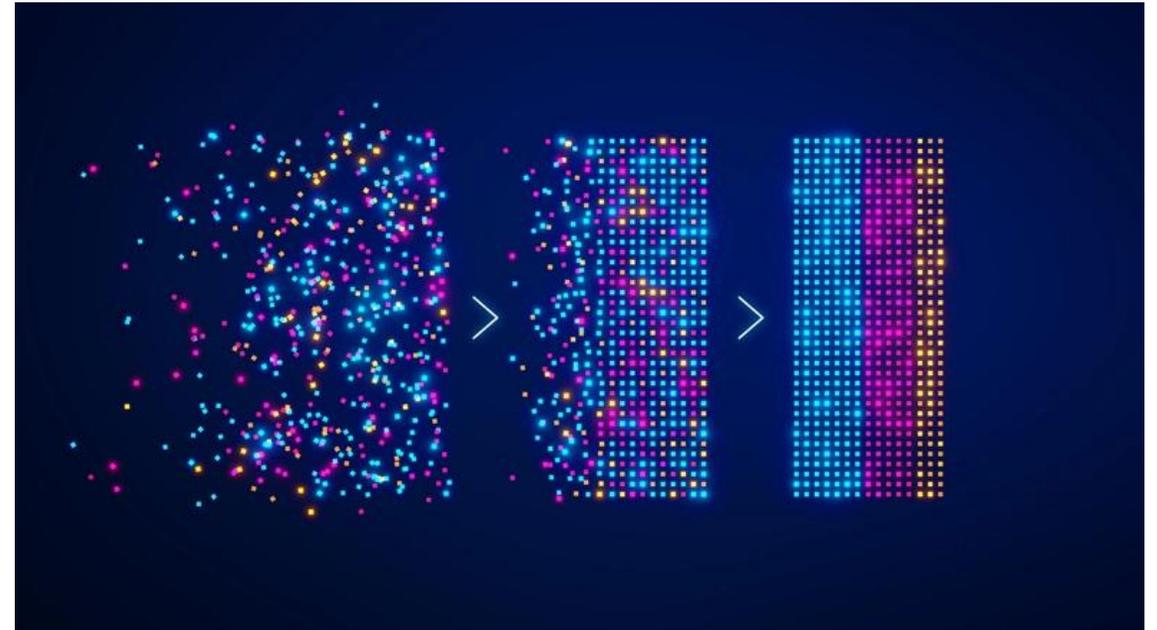
How we Tackle the Problem?

Uses ML to predict **activity-specific** time and cost impact for better prioritization of effort



How we Tackle the Problem?

In-house algorithms to
integrate/synchronize
fragmented data



Conclusions

1. Constructer **enables proactive risk handling**, as opposed to industry standard approach of reactive risk management.
2. Constructer **enables real-time document processing** to make up-to-date project information accessible for professionals.
3. Constructer **integrates fragmented data** to present a coherent view of the project performance.
4. Constructer **enables efficient project execution** through easier information management.





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**Thank
You**

