

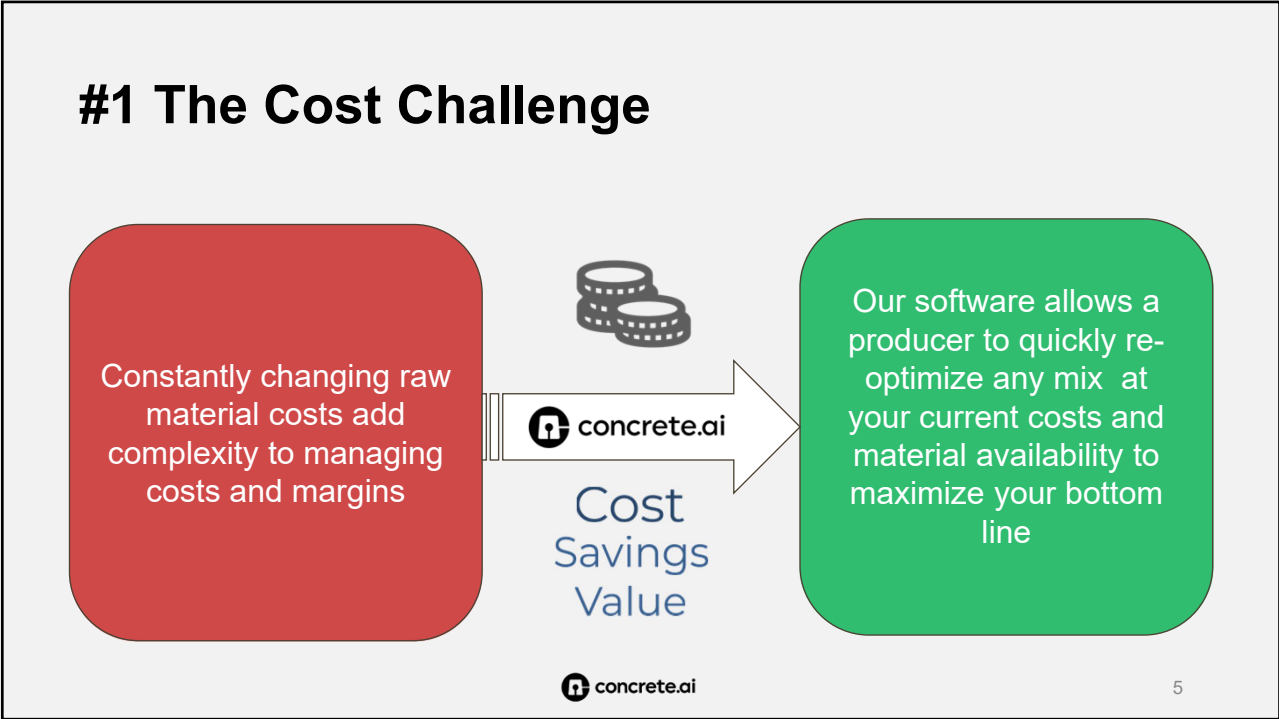


TODAY'S CHALLENGES

<p>Cost Savings Value</p>	<p> Fluctuations in raw material costs</p>
<p>Performance Availability Inventory</p>	<p> Complex supply chains & frequent material changes</p>
<p>Integration Data_Ownership</p>	<p> Data size, complexity, & integration</p>

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#2 Raw Material Availability Challenge

Barriers To Net-Zero Concrete - Fly Ash And GGBS Shortage

Add sand shortage to supply chain woes

4 Ways To Overcome Concrete Supply Chain Woes

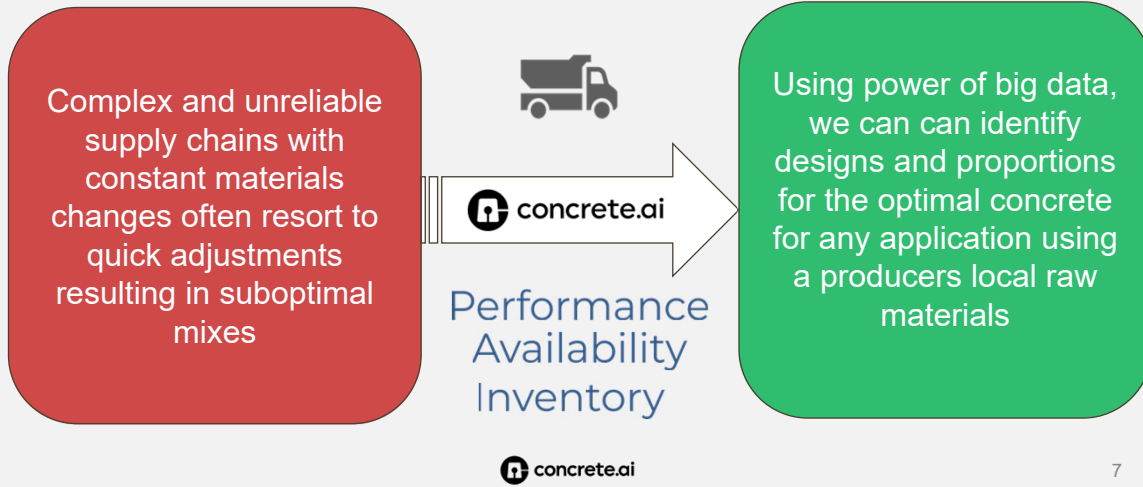
WEST MI FEELING EFFECTS OF CONCRETE SHORTAGE

ON YOUR SIDE
COULD CEMENT SHORTAGE IMPACT CONSTRUCTION PROJECTS?

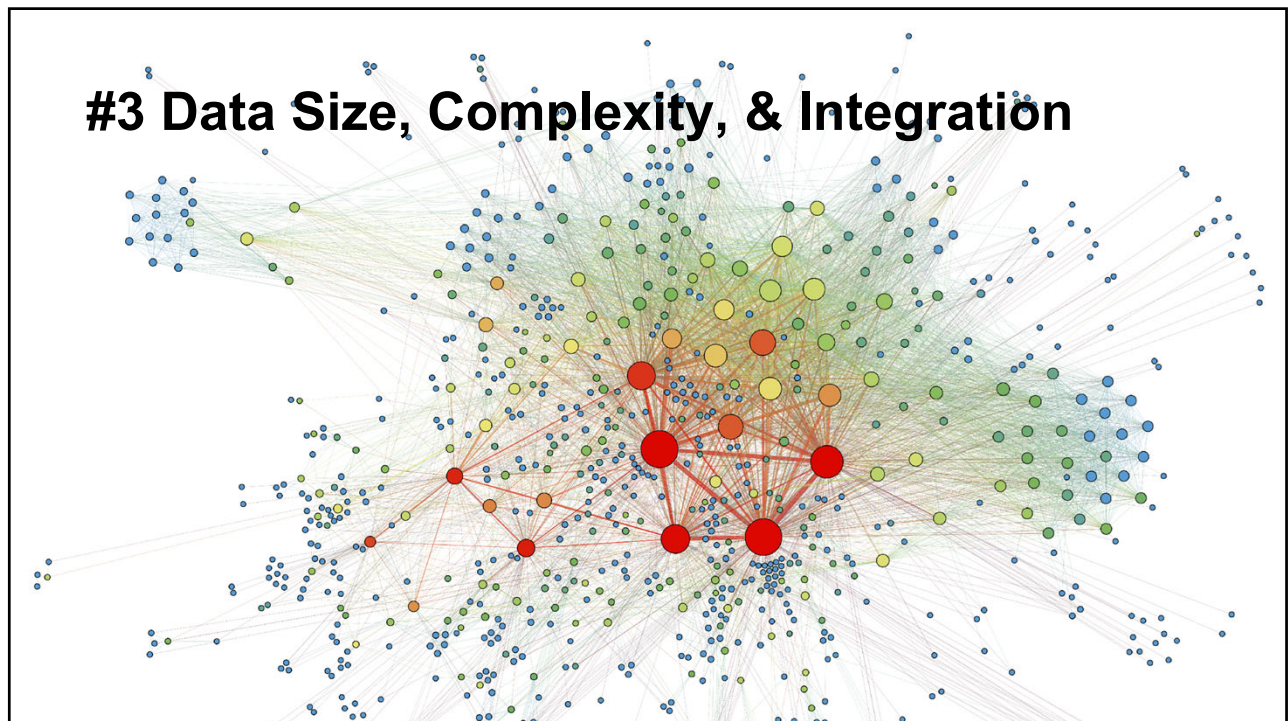
FOX 6 NEWS
CONCRETE, OTHER SHORTAGES AFFECTING CONSTRUCTION

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#2 Raw Material Availability Challenge



#3 Data Size, Complexity, & Integration



#3 Data Size, Complexity, & Integration

Disparate and increasingly complex data and processes slows ability to make a timely decision



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Integration
Data Ownership

Our software pulls complex data streams from multiple systems into an intuitive user interface

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A photograph of an elephant in a savanna setting, with a semi-transparent white box overlaid on its face containing the text 'The Elephant in the Room: AI'.


The Elephant in the Room: AI

DOES AI TAKE CONTROL?


The answer:
NO




Current options offer limited QA input. Our software is designed to be a robust decision-making tool




Enormously, complex data processed in real-time



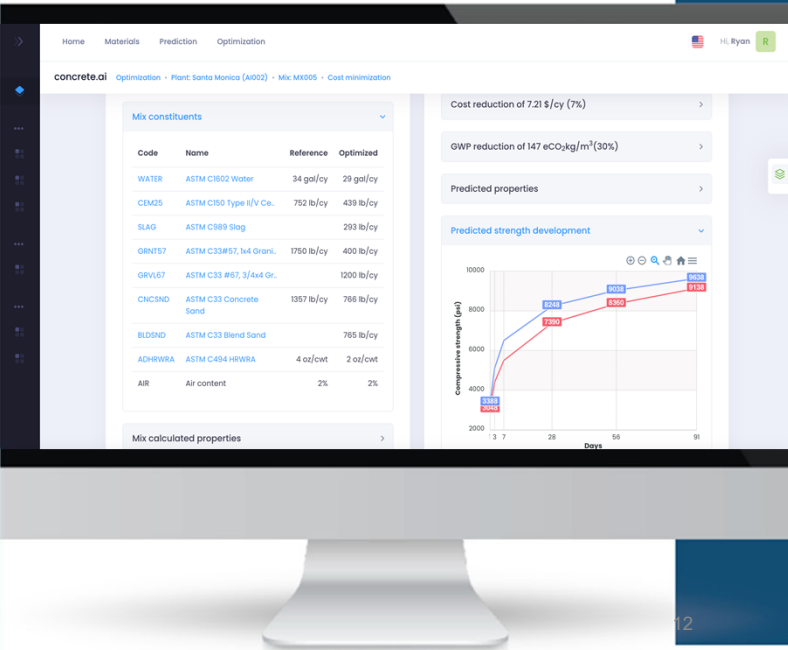
Concrete professional inputs critical human judgement


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Product Walk-Through




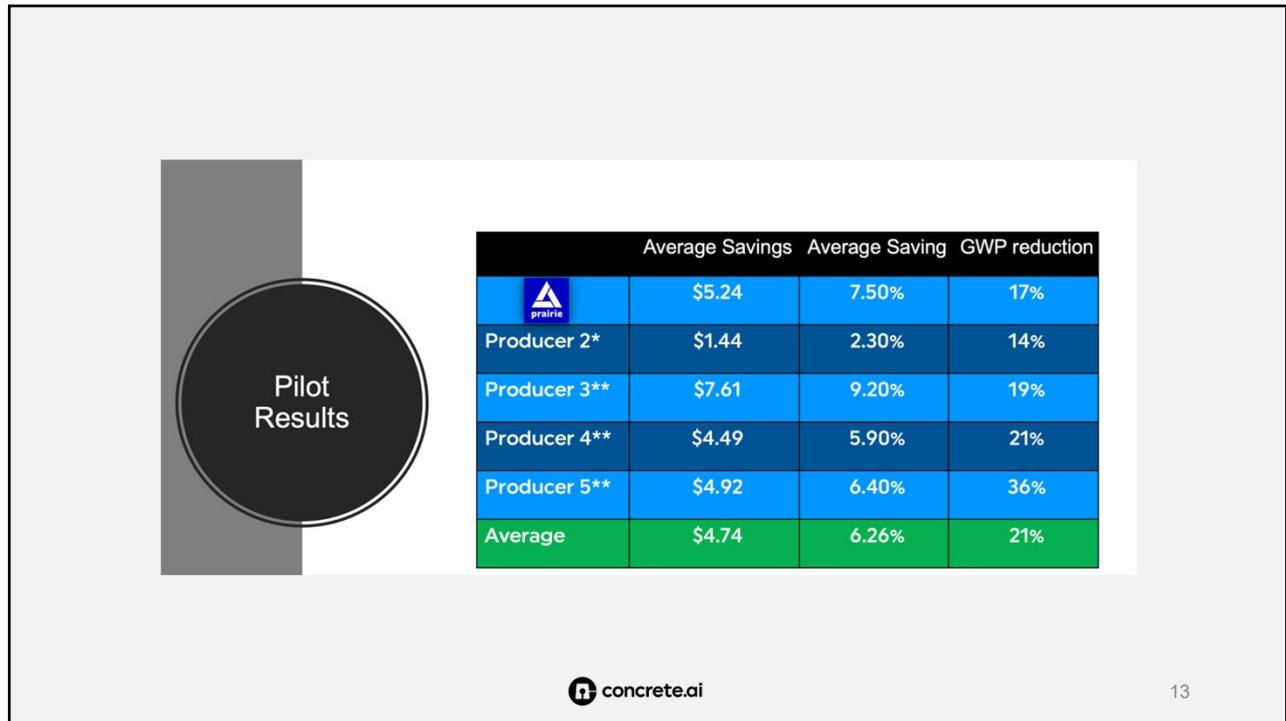
The screenshot displays the concrete.ai optimization interface. On the left, a table lists mix constituents with their reference and optimized values:

Code	Name	Reference	Optimized
WATER	ASTM C1602 Water	34 gal/cy	29 gal/cy
CEM25	ASTM C150 Type I/V Ce.	792 lb/cy	439 lb/cy
SLAG	ASTM C989 Slag		293 lb/cy
GRNT57	ASTM C33#57, 1/4 Gravel	1750 lb/cy	400 lb/cy
GRVL67	ASTM C33 #67, 3/4-4/4 Gr.		1200 lb/cy
CNC3ND	ASTM C33 Concrete Sand	1357 lb/cy	766 lb/cy
BLD3ND	ASTM C33 Blend Sand		766 lb/cy
ADHRWRA	ASTM C494 HRWRA	4 oz/cwt	2 oz/cwt
AIR	Air content	2%	2%

On the right, a graph shows predicted strength development over time (Days) for Compressive strength (Psi). The graph compares reference (red line) and optimized (blue line) mixes. Key data points are highlighted:

Days	Reference Strength (Psi)	Optimized Strength (Psi)
3	3018	3018
7	7200	7218
28	8200	8218
56	8700	8718
91	9120	9138

Summary metrics shown on the right include a cost reduction of 7.21 \$/cy (7%) and a GWP reduction of 147 eCO₂kg/m³ (30%).



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