



## Korry D. Kobel

Director of Engineering, Digital Solutions at JLG Industries

# Using Augmented Reality for Technicians in the Field

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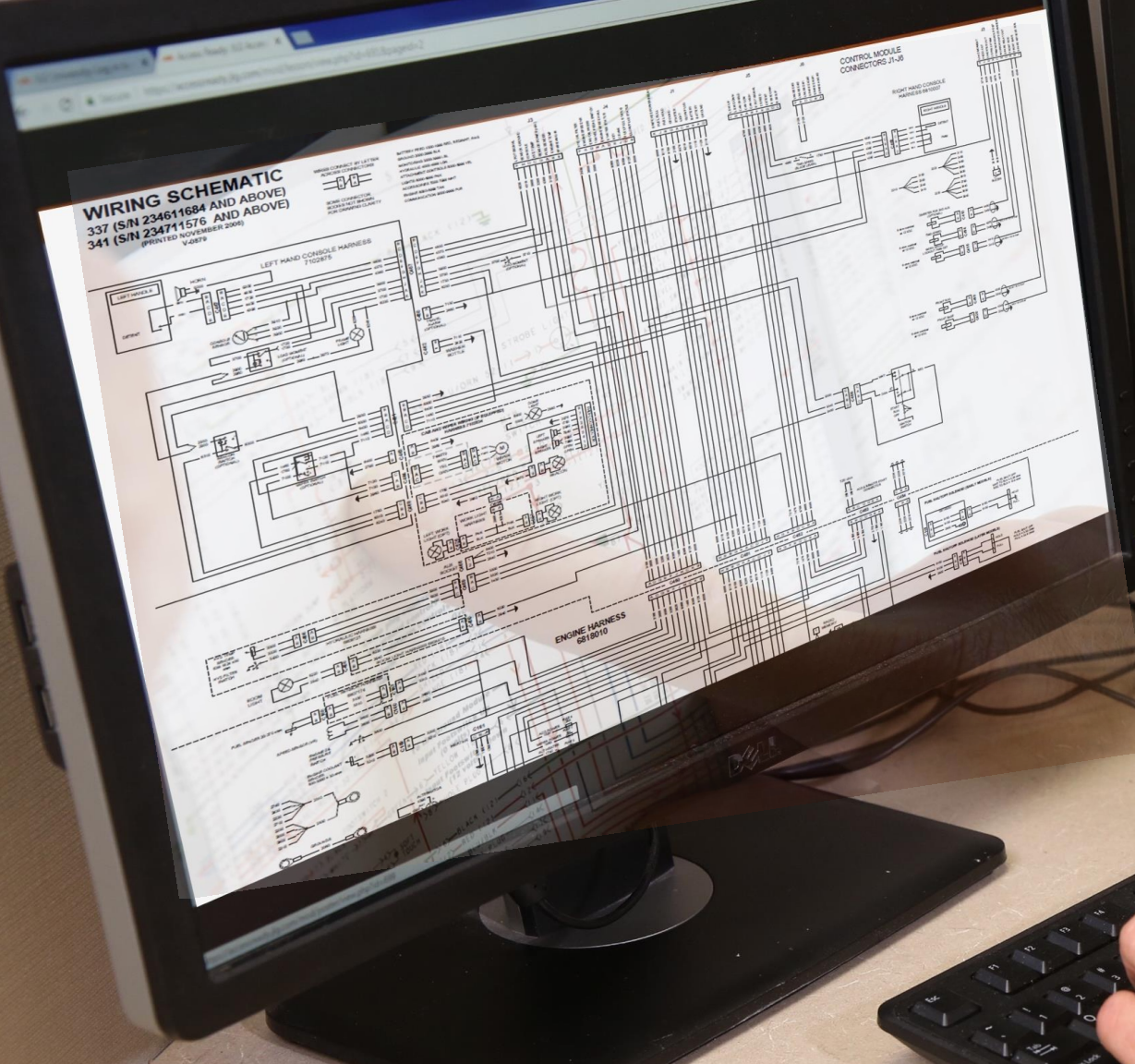


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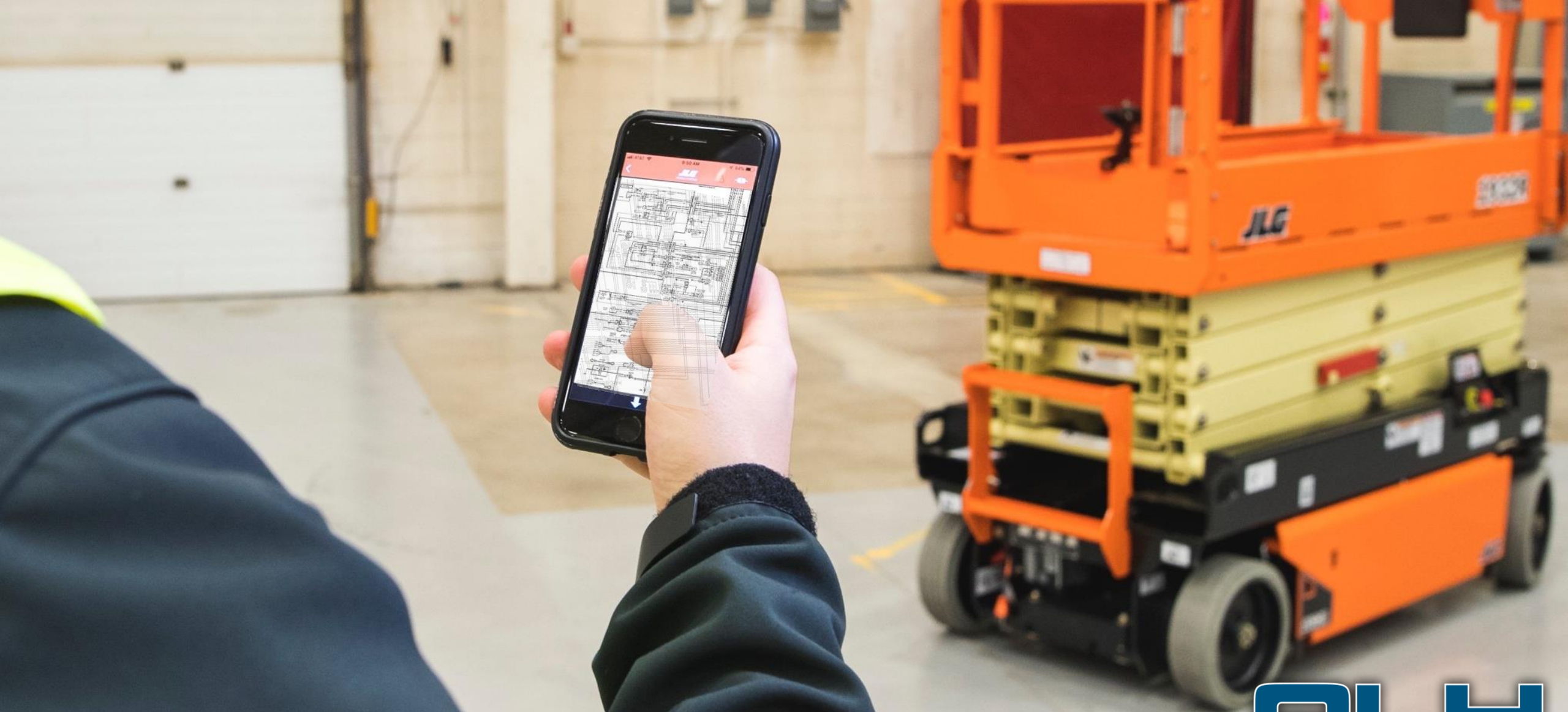
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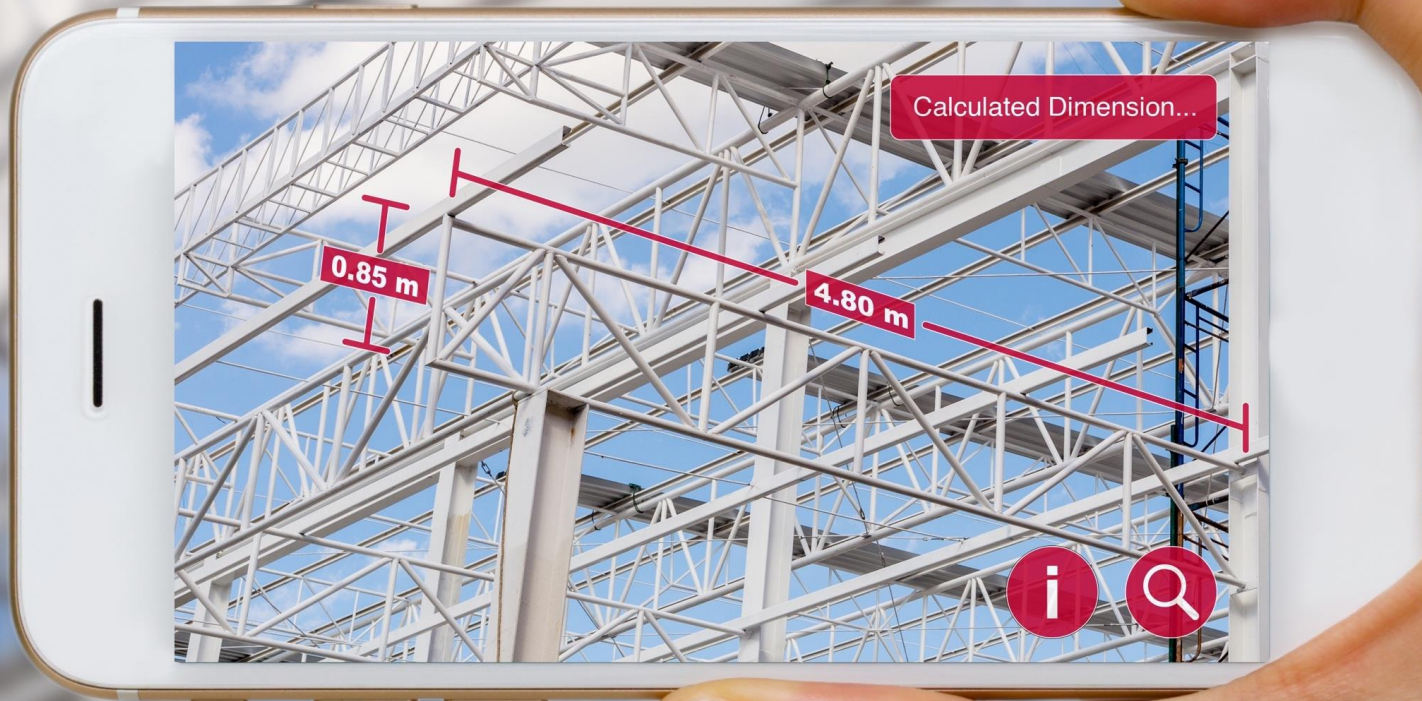
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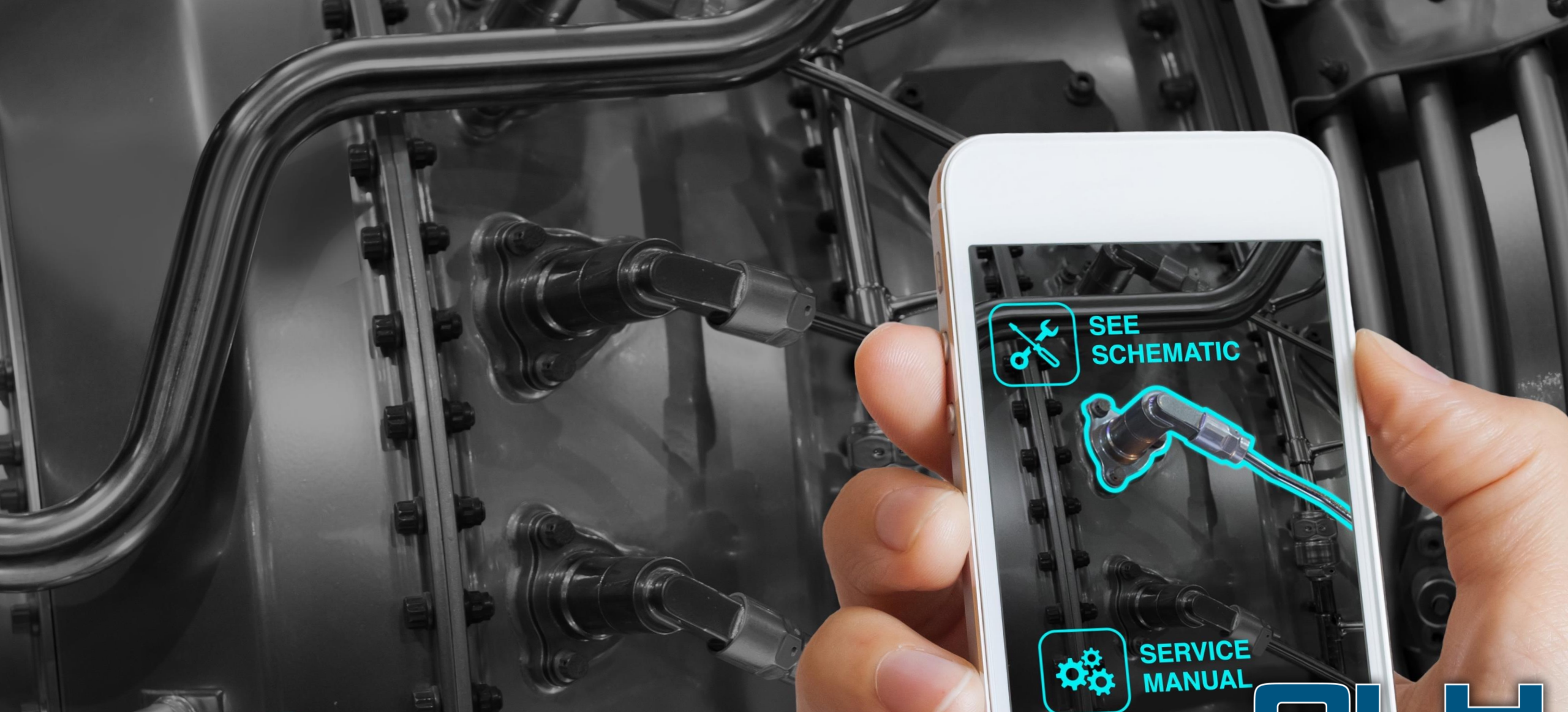


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# Augmented Reality

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The logo for the ALH Conference &amp; Awards 2019 is a rectangular graphic with a blue border. At the top, the letters 'ALH' are written in a large, blue, outlined font. Below this, the text 'ACCESS, LIFT &amp; HANDLERS' is written in a smaller, white, sans-serif font. At the bottom, the words 'CONFERENCE &amp; AWARDS 2019' are written in a bold, white, sans-serif font.



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# Grappling with an acute labor shortage, the construction industry is being forced to get creative



THE CIVIC REPORT

## Where Are All the Builders?

Construction costs are climbing and production is lagging, in part because aren't enough workers to go around.

By Andrew Soergel Senior Reporter June 15, 2018, at 6:00 a.m.

FOX BUSINESS

NEWS MARKETS PERSONAL FINANCE SMALL BUSINESS TECHNOLOGY FEATURES TV

## Construction worker shortage tops sector concerns in 2019

By Brittany De Lea | Published January 02, 2019 | Jobs | FOXBusiness

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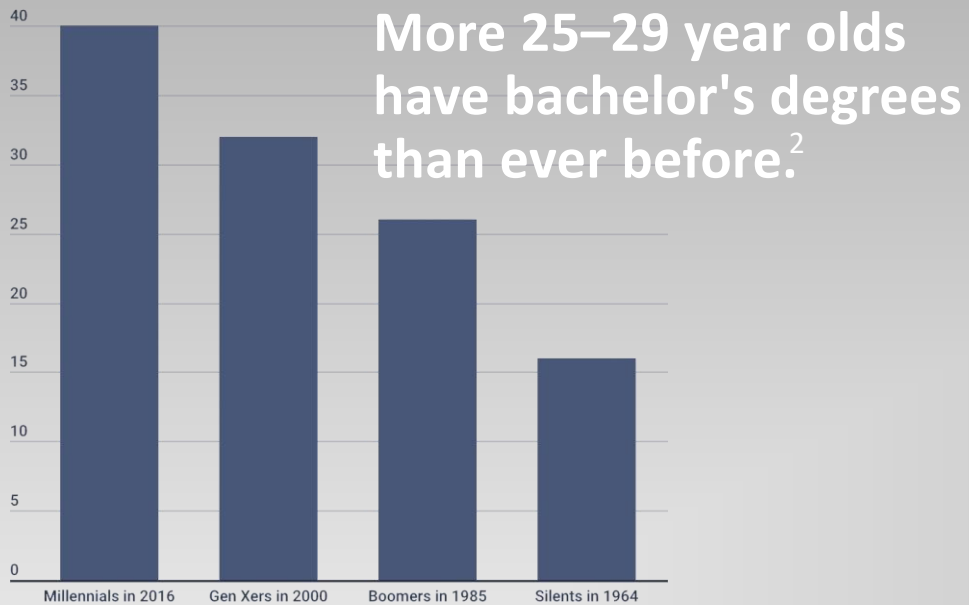
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# 200,000 unfilled construction industry jobs nationwide<sup>1</sup>

Percentage of employed 25-29 year olds with at least a bachelor's degree



## 64% of millennials

said they wouldn't even consider working in construction if you paid them

## \$100,000 or more.<sup>3</sup>

Technician shortage is costing the U.S. heavy equipment distribution industry roughly

## \$2.4 billion a year in lost revenue.<sup>4</sup>

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# \$35.4 BILLION

The increase in the total value of construction projects nationwide in the last year.<sup>5</sup>

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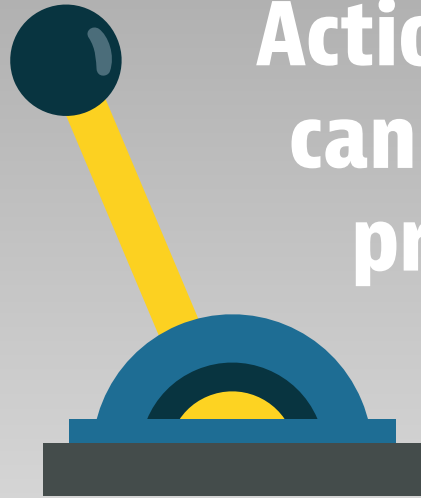
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Action in seven areas  
can boost sector  
productivity by  
**50–60%**<sup>6</sup>

- Reshape regulation
- Rewire contracts
- Rethink design
- Improve procurement and supply chain
- Improve onsite execution
- Infuse technology and innovation
- Reskill workers

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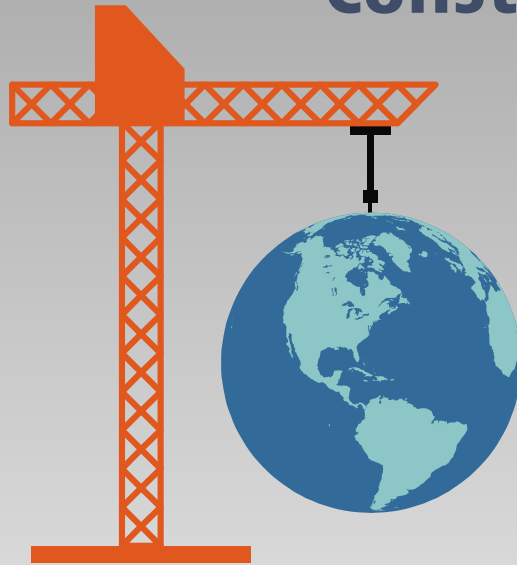
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## Construction matters for the world economy ... but has a long record of poor productivity

Construction-related spending  
accounts for

**13%** of the world's GDP

... but the sector's annual productivity  
growth has only increased

**1%** over the past 20 years

---

**\$1.6 trillion** of additional value added could be  
created through higher productivity,  
meeting half of the world's infrastructure need<sup>6</sup>

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# Sources

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