



FLUKE®

Reliability

**The rise of the connected
worker:**

**Implications for maintenance
and operations in 2021**

Keith Larson
Ankush Malhotra

Accelix™
Webinar Series

Meet the Speakers



Keith Larson

Editor-in-Chief at Control Magazine

VP Content, Group Publisher of the Putman Automation portfolio

- Holds P&L responsibility for Putman Media's Automation Group, including *Control*, *Control Design* and *Smart Industry* media brands
- Sets strategic direction across the Putman Media family of business-to-business media brands, including *Chemical Processing*, *Food Processing*, *Pharmaceutical Manufacturing* and *Plant Services*
- Former research engineer at BP Chemicals

Meet the Speakers



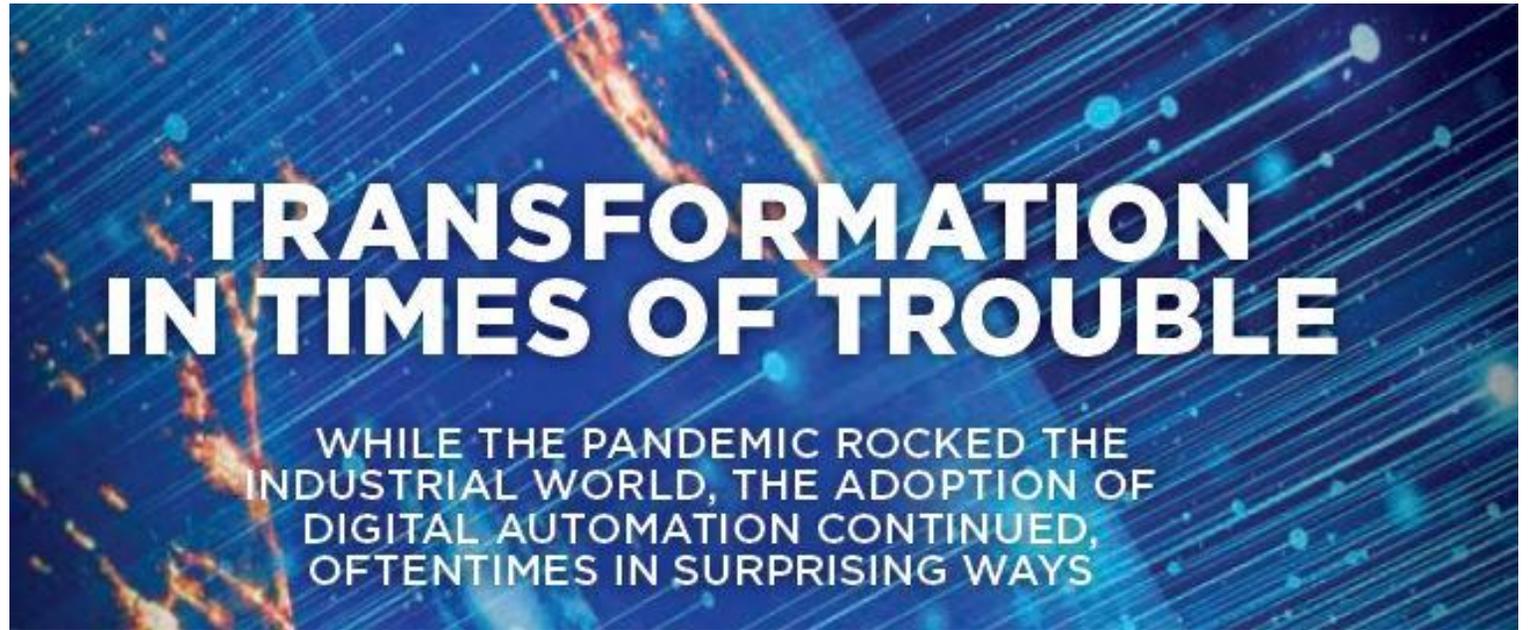
Ankush Malhotra

President of Fluke Reliability, a division of the Fluke Corporation

- Senior leader at Fluke Corporation and Fortive since 2006
- Former manufacturing manager and Danaher Business System (DBS) leader
- Focused on IIoT hardware, software, and services for industrial maintenance and reliability
- Led eMaint and Pruftechnik acquisitions into the Fluke Reliability family

SURVEY RESPONDENTS BY FUNCTION

General/corporate management	19%
Product design & development	17%
Sales/marketing	17%
Project management & execution	16%
IT & networking	13%
Maintenance/reliability	9%
Quality assurance	6%
Production/production planning	3%
Logistics/supply chain	1%



SURVEY RESPONDENTS BY INDUSTRY

Engineering/professional services	23%
Transportation/logistics	23%
Discrete manufacturing/industrial machine builder	14%
Process manufacturing	10%
Power generation	6%
Oil & gas	5%
Other	19%

State of Initiative Report

POLL QUESTION No. 1

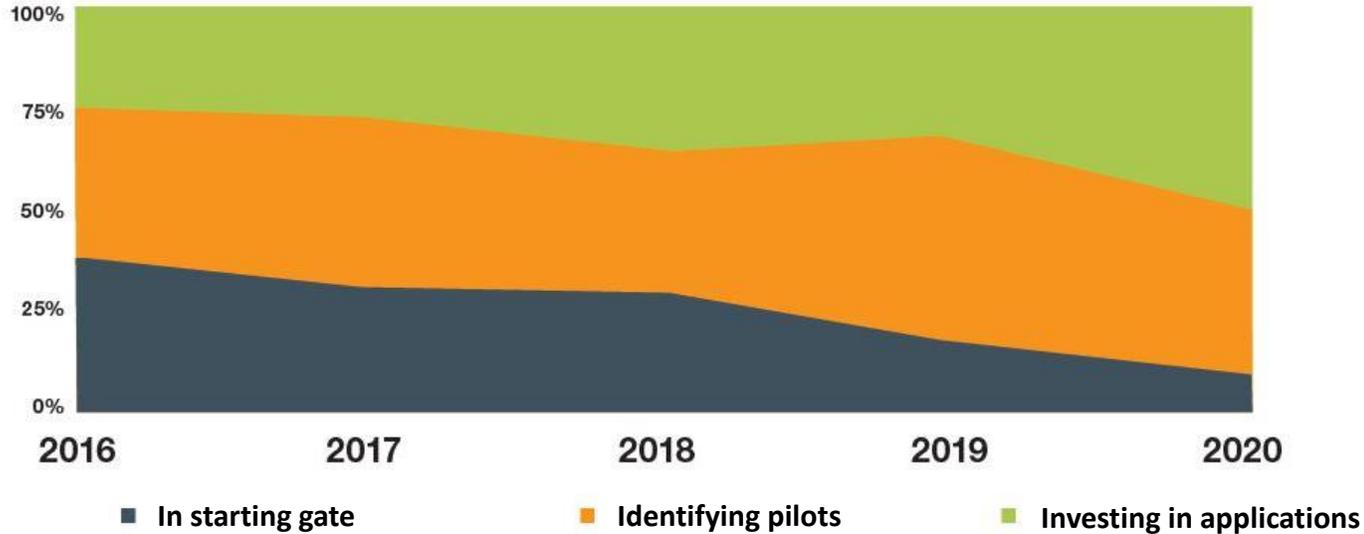


How has the pandemic impacted your digital transformation efforts?
(Click only one answer)

- It has fast-tracked our implementation of digital tools and techniques
- It has jumpstarted our planning
- It has slowed our digital transformation efforts
- No impact
- Not sure

Current operating conditions and level of digitalization

IMPLEMENTATION PLANS PROCEEDING



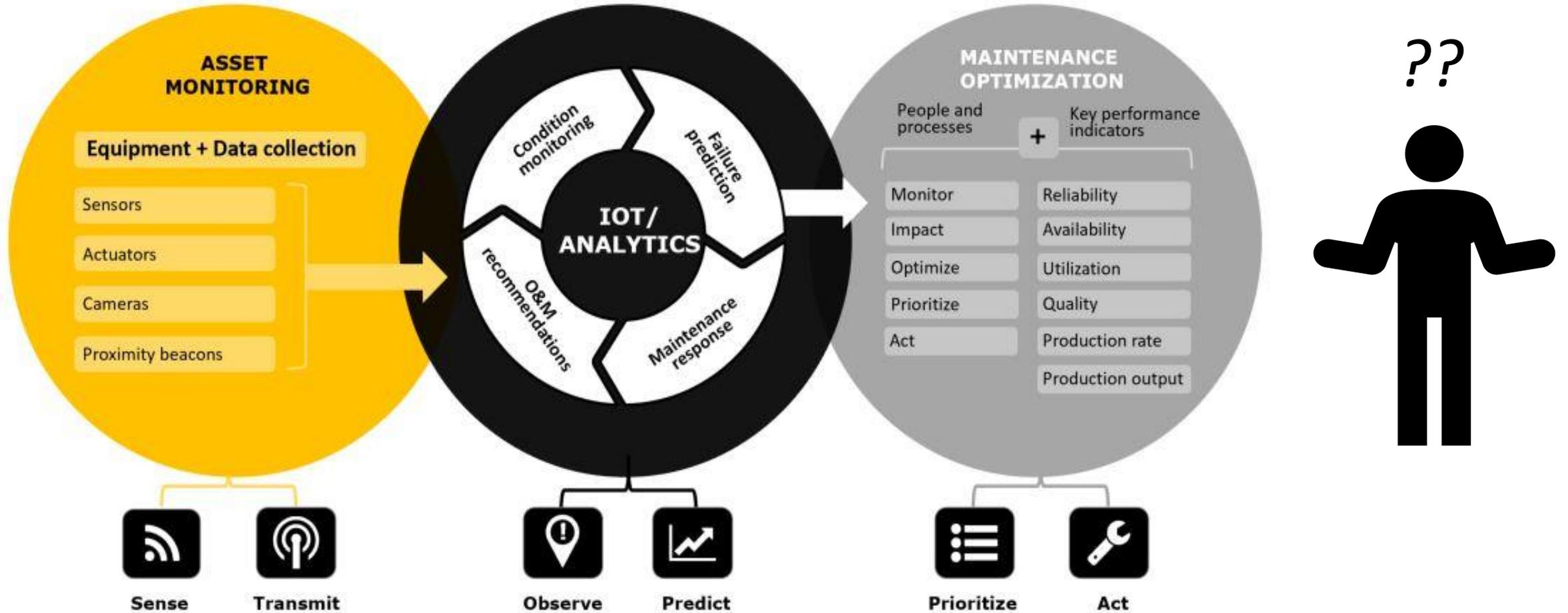
HOW HAS THE PANDEMIC IMPACTED YOUR DIGITAL-TRANSFORMATION EFFORTS?

	Percent
It has fast-tracked our implementation of digital tools and techniques	39%
It has slowed our digital-transformation efforts	39%
No impact	20%

Data source: "State of Initiative" report 2020 from Smart Industry

- Plants are experiencing varying degrees of COVID19 disruption and a high degree of uncertainty
- More plants are accelerating their digitalization and moving from early pilot to actually transforming their operations

Digitalization's impact on daily work



Asset-centric digitalization model common to maintenance and reliability

POLL QUESTION No. 2

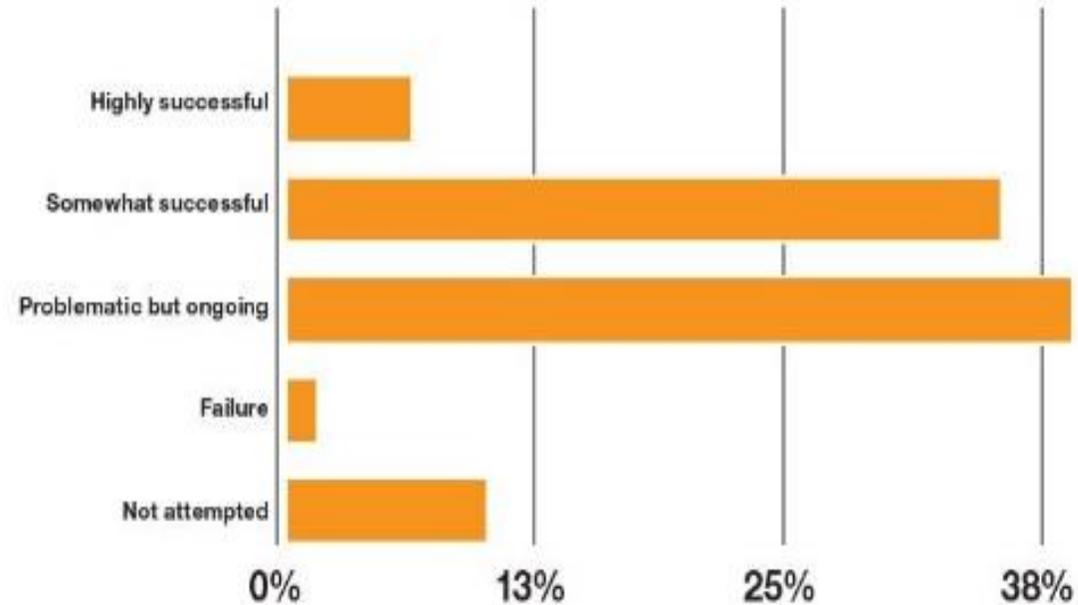


How would you characterize your company's digital transformation efforts thus far? **(Click only one answer)**

- Highly successful
- Somewhat successful
- Problematic but ongoing
- Failure
- Not attempted

Identifying and overcoming the biggest challenges

IMPLEMENTATION SPEEDBUMPS



KEY OBSTACLES TO DIGITAL TRANSFORMATION

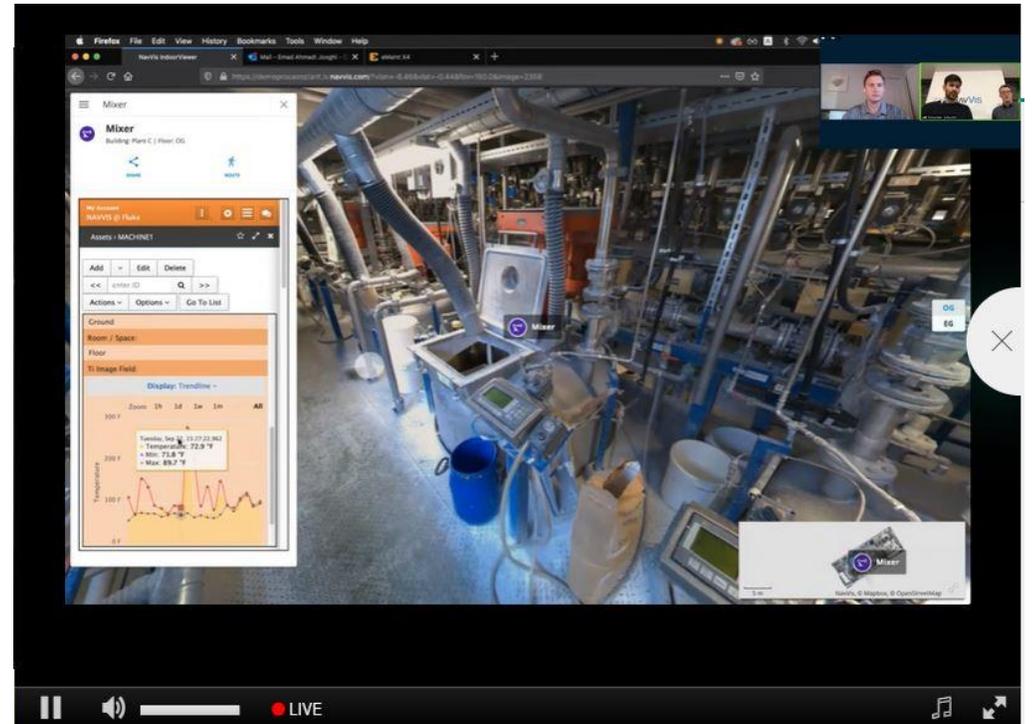
	2020	2015 (Rank)	6-Year Change
1. General economic uncertainty	50	21 (9)	+ 29
2. Lack of business-Impact understanding	38	44 (2)	- 6
3. Lack of senior management knowledge	36	33 (4)	+ 3
4. Lack of employee knowledge	35	34 (3)	+ 1
5. Weakness In technology Infrastructure	35	25 (7)	+10
6. Workforce skills gap	32	28 (6)	+4
7. Senior management commitment	30	30 (5)	-
8. Immaturity of standards	29	23 (8)	+ 6
9. Security concerns	29	45 (1)	- 16
10. Regulations (as for data privacy)	20	20 (10)	-

Data source: "State of Initiative" report 2020 from Smart Industry

Tangible use of digital aids: Where is it happening?

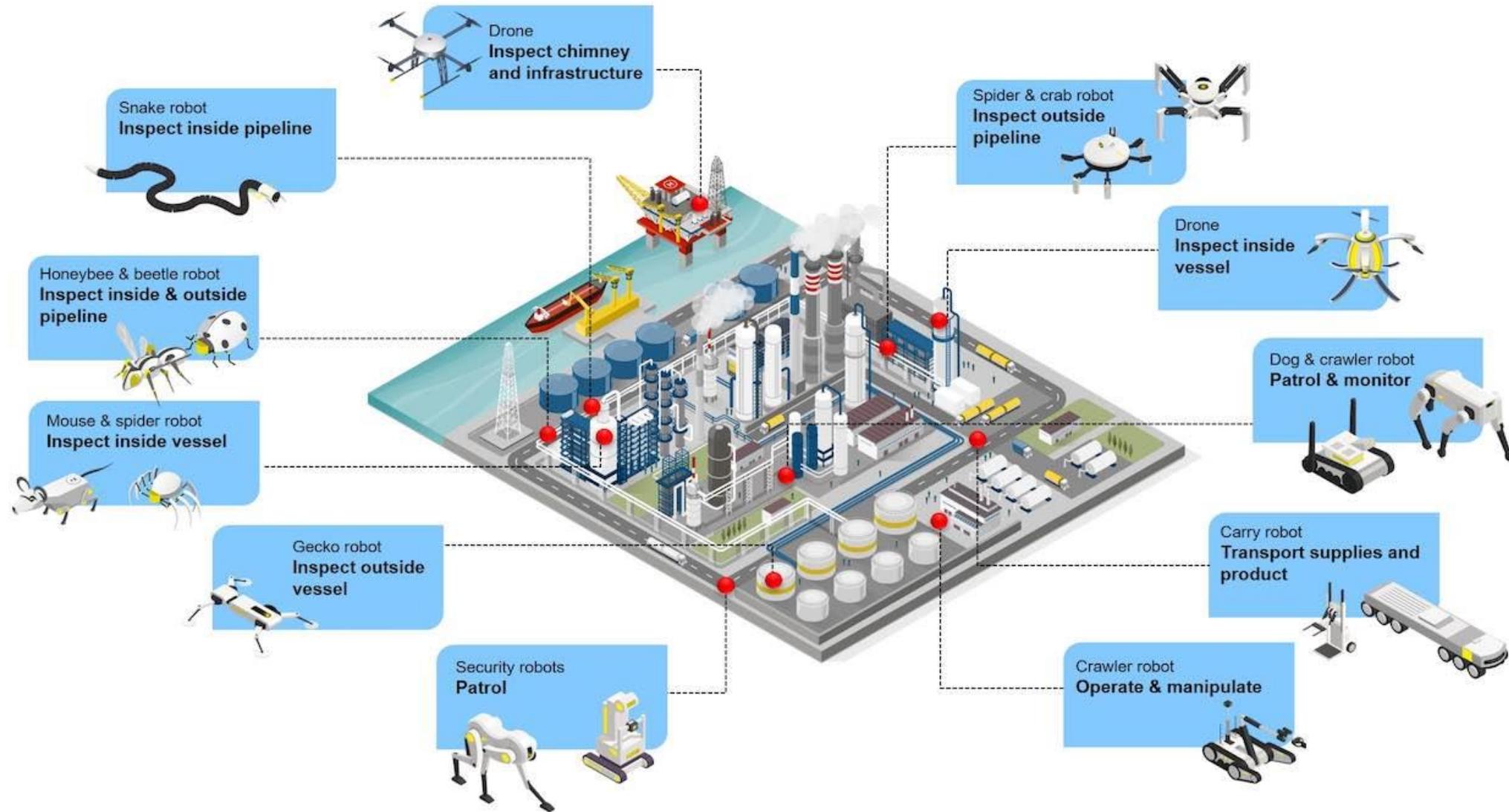


During the pandemic, more maintenance professionals have been using hands-free, two-way video tech and AR to collaborate remotely on the plant floor



NavVis spatial intelligence integrates a 360° digital twin with eMaint CMMS for remote visual access and work order planning and enhancement

Which technologies will lead in 2021?



QUESTIONS?



Thank you!

Keith Larson

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Group Publisher

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President, Fluke Reliability

Next webinar: Root causes of lubricant degradation and how to prevent it from harming your machines

BEST PRACTICE WEBINAR

Wednesday, Jan. 20, 11 a.m. ET

Root causes of lubricant degradation and how to prevent it from harming your machines

Oil analysis is a primary way to determine lubrication breakdown, a sign of potential premature failure in critical and other assets. Lubricant degradation occurs in six ways -- oxidation, thermal degradation, microdieseling, electrostatic spark discharge, additive depletion, and contamination.

Expert **Sanya Mathura**, founder of Trinidad-based Strategic Reliability Solutions, Ltd., introduces the basic concepts of lubrication, and discusses how a lubricant can degrade and ways each situation can be handled to avoid asset decline and demise. Mathura's company has solved lubrication problems and provided training in the automotive, industrial, marine, construction, and transportation sectors.



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DEMO

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