

Hello!

Murray Tester

Director - JHTester Industrial Automation

A proudly owned family business offering system integration and automation solutions to industry for over 40 years.



From Humble Beginnings....



Smart Innovations Solutions since 1980



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Our International Impact



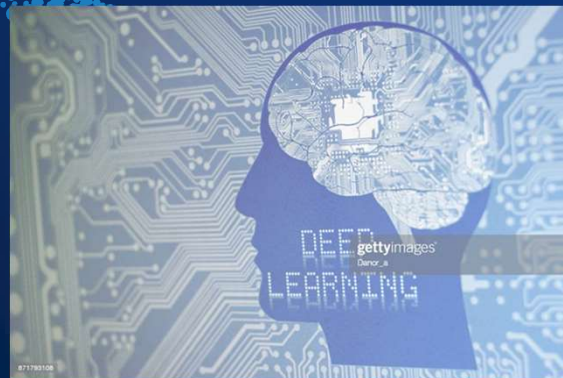
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**WE ARE DRIVEN TO
HELP AUSTRALIAN
INDUSTRY THRIVE...**

MURRAY TESTER- MANAGING DIRECTOR



Automation Trends



1. Collaborative Robots

Flexible and Versatile
Safe and Collaborative



What's the HYPE around
Collaborative Robots....
Cobots?

Global Industrial Cobot Market

OPPORTUNITIES AND FORECAST,
2019-2026

Global Industrial Cobot Market
is expected to reach
\$12.48 billion by 2026.

Growing at a **CAGR of 44.8%**
(2019-2026)



Allied
Market
Research

©Allied Market Research

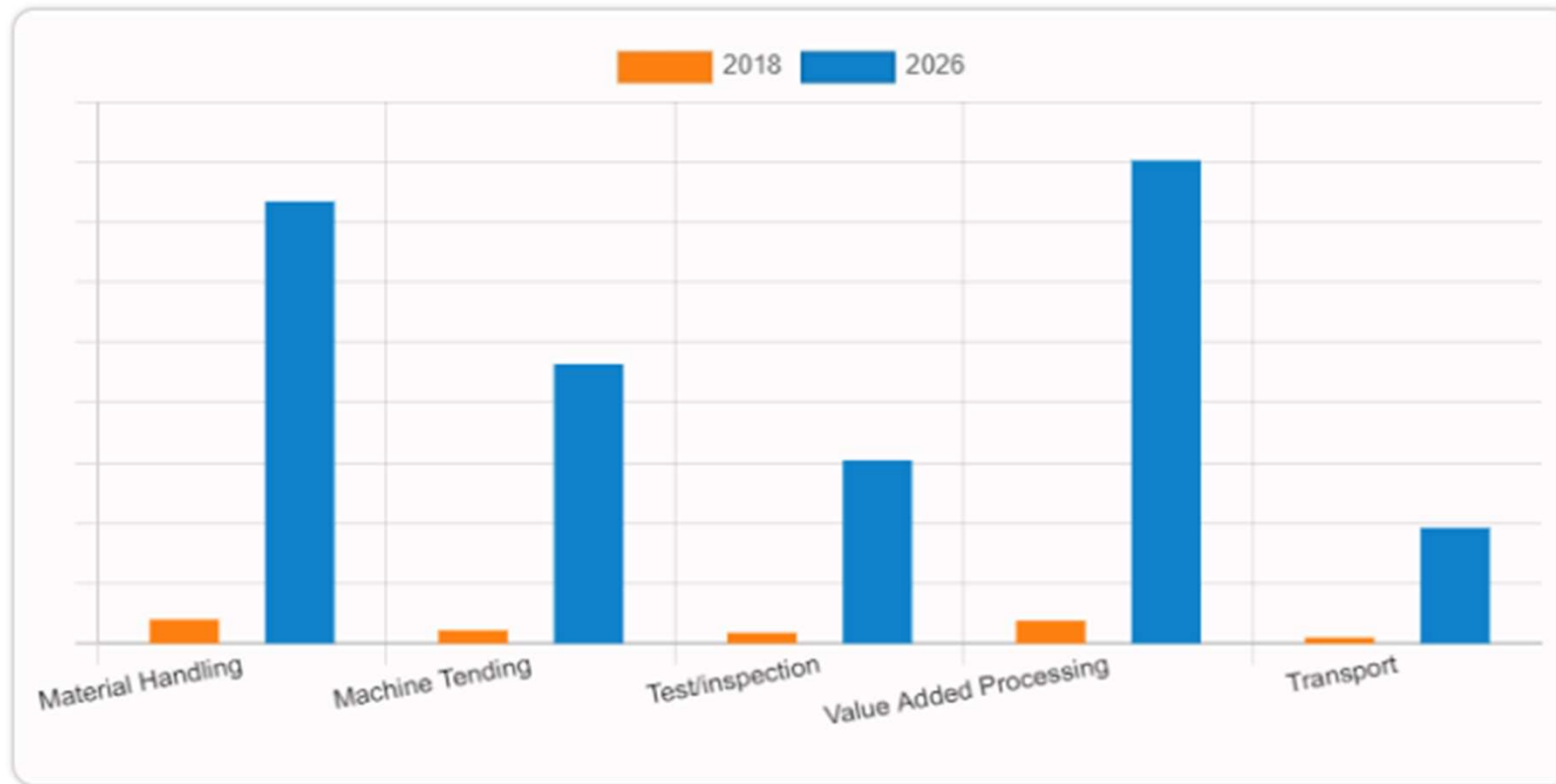
[Industrial Cobot
Market Size, Share
| Future Analysis
and Trends - 2026
\(alliedmarketresearch.com\)](#)

Source - Allied Market Research, Mar 2020.
CAGR - Topped by Asia Pacific, Forecasted at 47.6%



Industrial Cobot Market

By Application

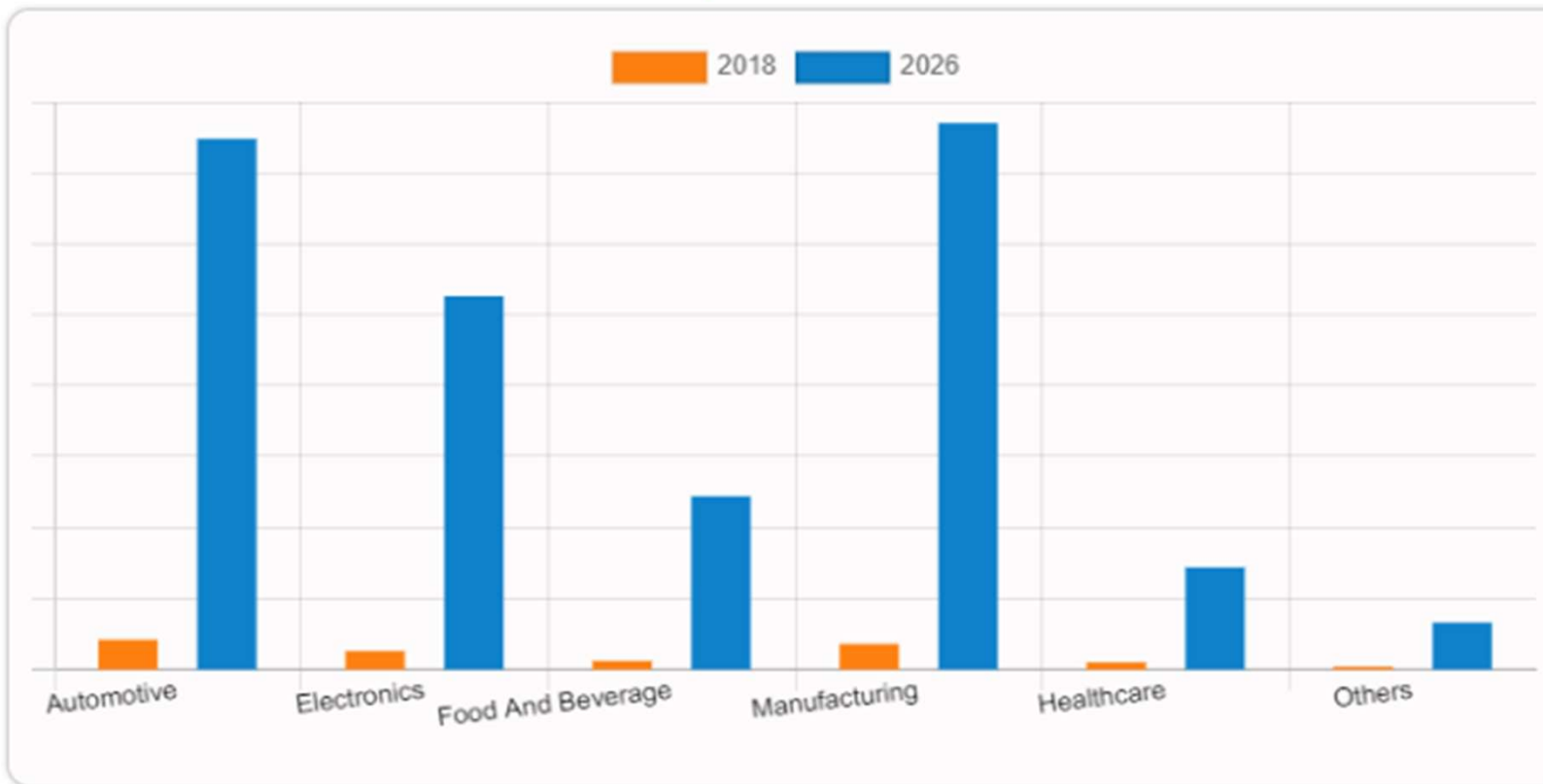


Value Added Processing applications segment is projected as one of the most lucrative segments.

Source - Allied Market Research, Mar 2020.

Industrial Cobot Market

By End User



Manufacturing segment is expected to secure leading position during forecast period.

Source - Allied Market Research, Mar 2020.



Cobot V's Industrial Robot....



PRO's

- Work Safely with People
 - Power and Force Limited
 - Lower Cost of Work Cell
- Compact & Versatile
 - Possibility for Mobile
- Quick Deployment (Simple System)
- Consistent & Accurate
- Process Optimisation
- Inherently Safe
- Perfect for Monotonous or Dangerous tasks
- Generally a quicker ROI

CON's

- Performance Limitations
 - Collaborative Speed
 - Payload (EOAT)
- Non-Collaborative movement needs safety consideration
 - Safe Cell
 - → Industrial Robot

2. Artificial Intelligence (AI)?



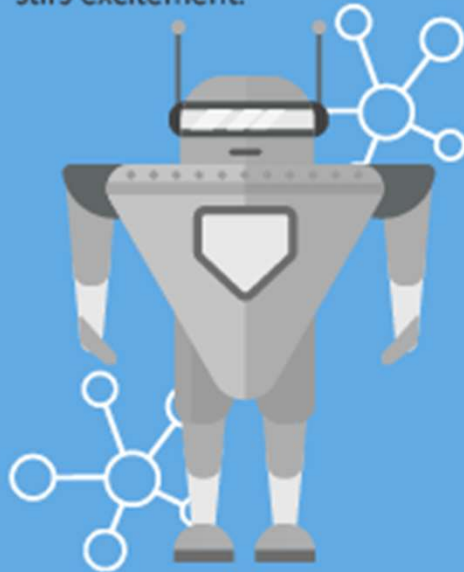
Is there a place in Automation?



A Subcategory of AI. Machine Learning is based on the idea that machines can learn from data, identifying patterns and acting upon this information. Neural Networks (SMARTS!)

ARTIFICIAL INTELLIGENCE

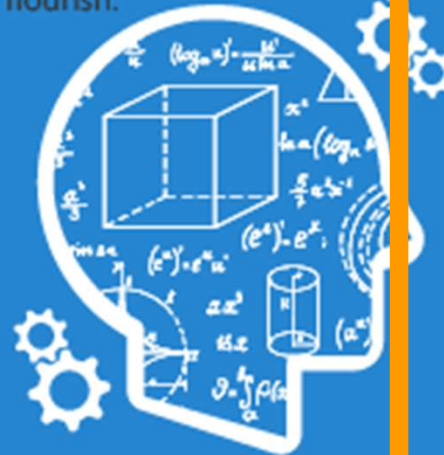
Early artificial intelligence stirs excitement.



1950's 1960's 1970's

MACHINE LEARNING

Machine learning begins to flourish.



1980's 1990's 2000's

DEEP LEARNING

Deep learning breakthroughs drive AI boom.

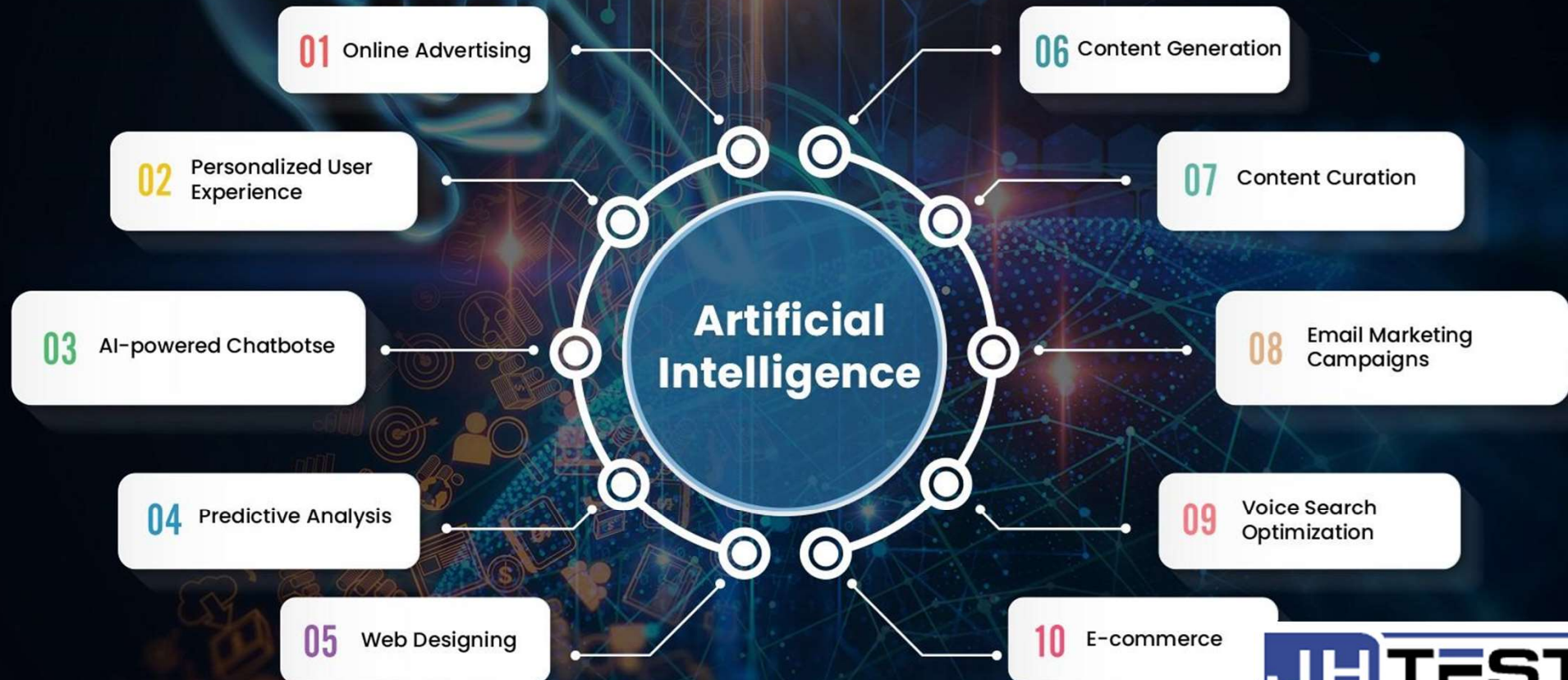


2010's

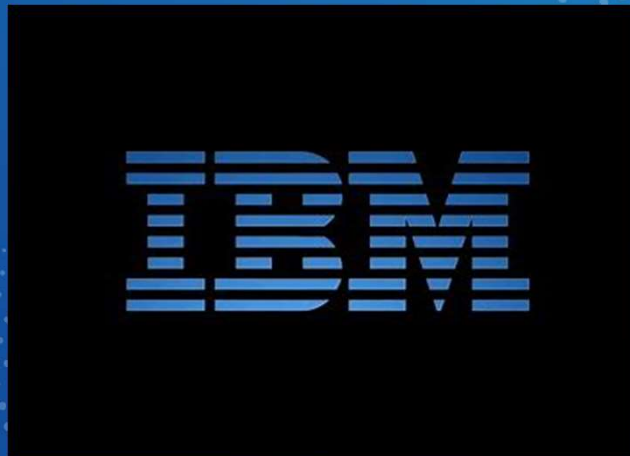
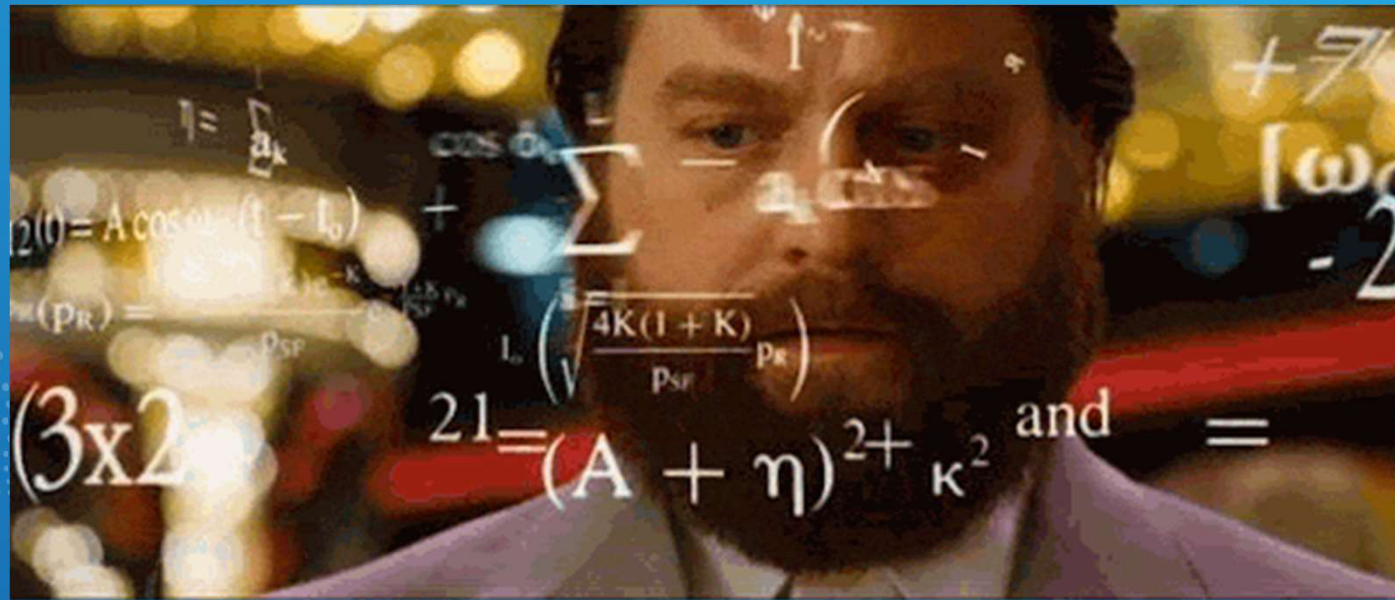
**TRATICA, Market Research and consulting firm Prediction by 2020:
“The Global AI Market is expected to reach a revenue of \$118.6 Billion by 2025”**



10 Applications of Artificial Intelligence in Digital Marketing



Businesses invested in ML & DL



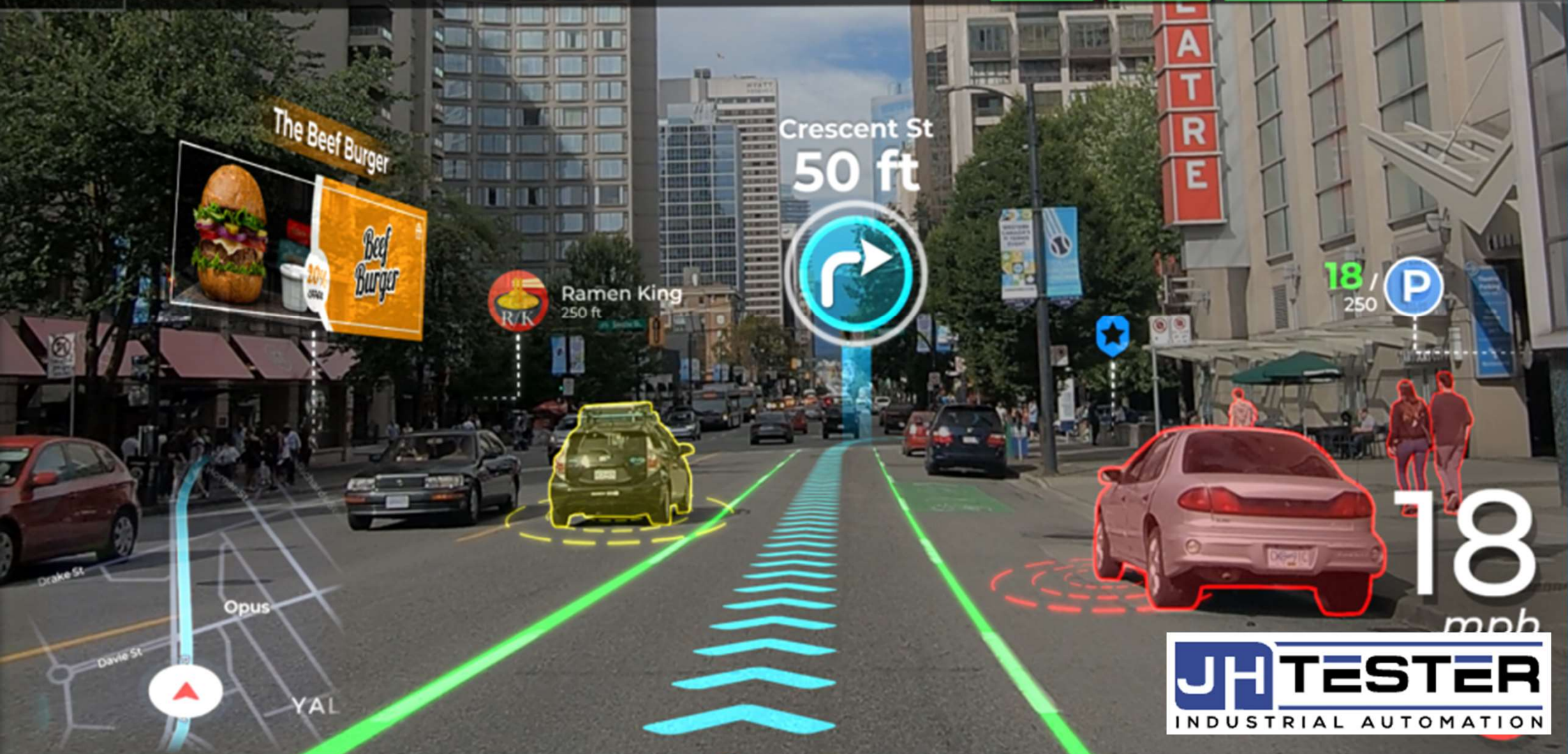
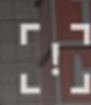
Examples of AI, Deep Learning.





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Monday, August 24

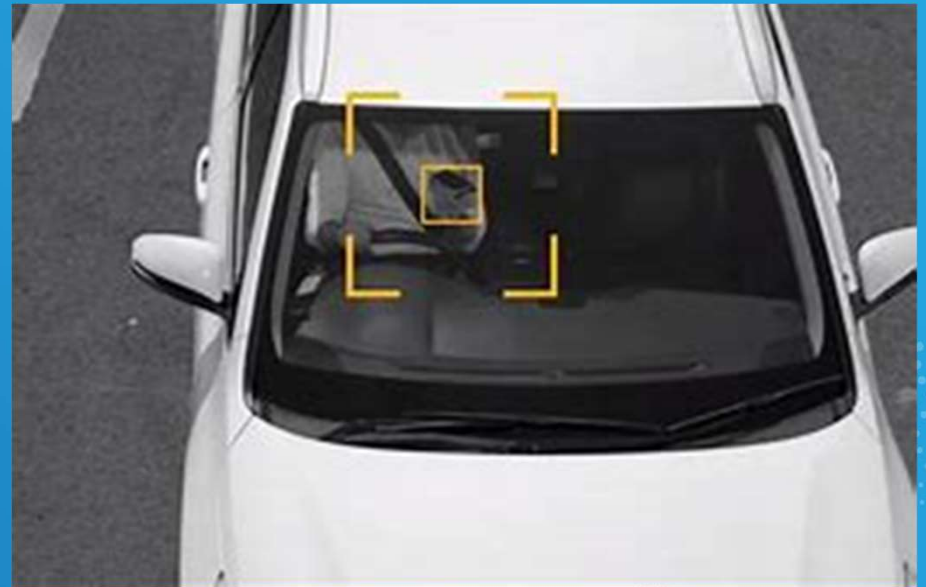


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INDUSTRIAL AUTOMATION



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2. a. Machine Vision

... with deep learning

534547657568
675756756756
7867876889
7878678789789
87798797
7867866976
78979878978

DATA	504	804	8707	804	87777	808	738
DATA	804	804	804	804	804	804	804
DATA	804	804	804	804	804	804	804

1. Prototyping



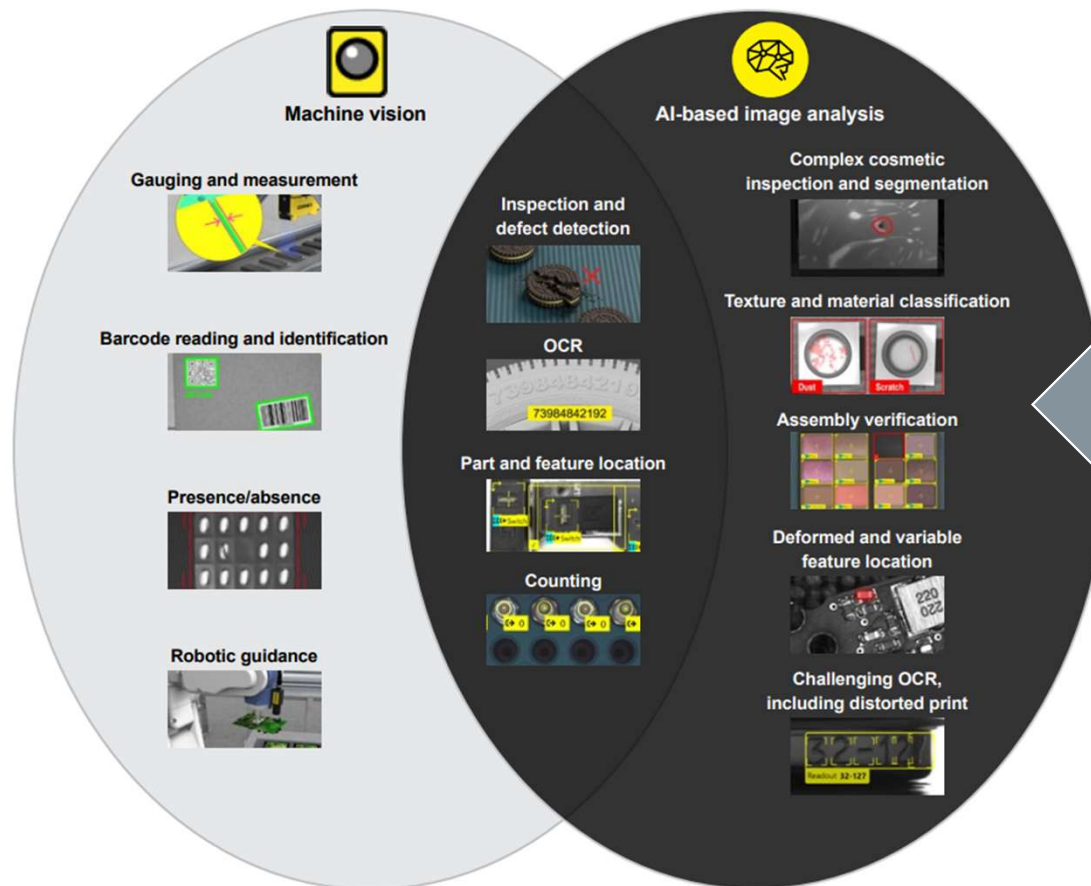
2. Image Data Collection



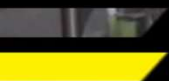
3. Optimization



4. Validation & Deployment



- Opportunity to replace rule based algorithms
- Easy to Configure
- May Tolerate Variation



Some areas of operations that AI may improve....

Quality control

Predictive maintenance

Waste reduction

Design optimization

Process automation

3. Remote Access VPN

Anywhere any time...

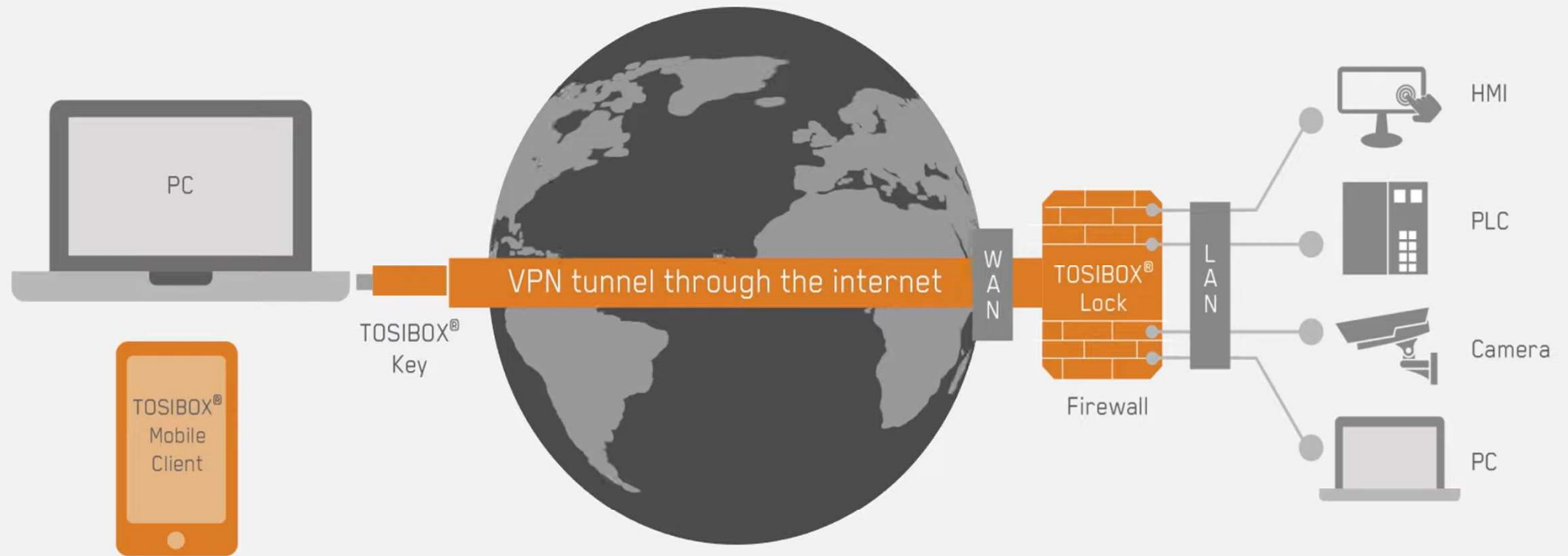




VPN

Anywhere any time...

4G VPN
Fast Speed & Ultimate



How it works.

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4. CLOUD SOLUTIONS

INSYTE

Intelligent automation tools to enhance
operational efficiency

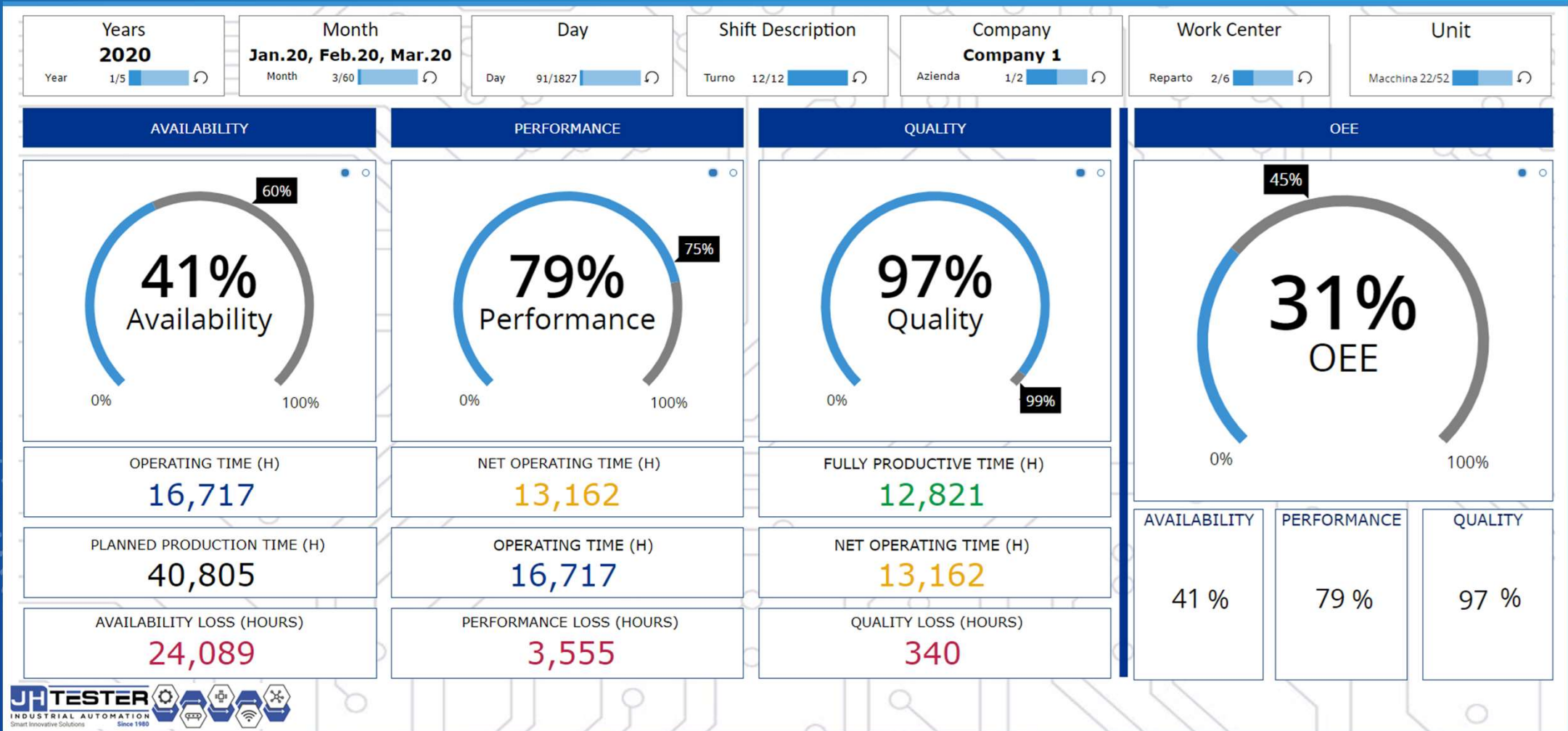




FactoryTalk Analytics
for Devices







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**INNOVATION NEED
NOT BE LIMITED
BY INDUSTRY...**

MURRAY TESTER- MANAGING DIRECTOR

The background features two wavy lines composed of small, light blue dots that sweep across the slide, one above and one below the central text.

QUESTIONS ?



THANK YOU ALL!