EDGE LEARNING: YOUR NEXT COMPETITIVE EDGE

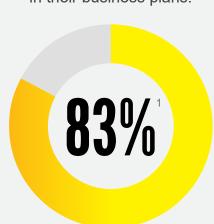
COGNEX

The global impact of Al

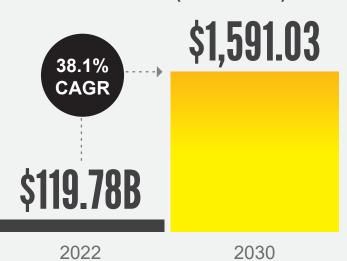
Artificial intelligence (AI) is the simulation of human intelligence by machines. Manufacturers are leveraging the combined power of AI and machine vision to better automate operations, optimize efficiency, and improve quality control.



Percentage of companies that claim AI is a top priority in their business plans:



Al market size (USD billion)²



The path to adopting Al³

OBSTACLES

- Lack of skilled individuals
- Complexity of AI systems
- Fear of job replacement Cybersecurity and data privacy



- **BENEFITS** Greater business insights
- Reduced human error
- Automation of mundane tasks
- Enhanced productivity

There are two leading AI technologies in industrial automation:



Designed for ease of use



Designed for complex applications

Recommended uses



Rule-based vision



Measurement and gauging



Location and fixturing



Robotic guidance

Edge learning



Classification



Assembly verification



Character reading

Deep learning



Complex defect detection





Tasks with significant variation



Highly customized jobs



Edge learning

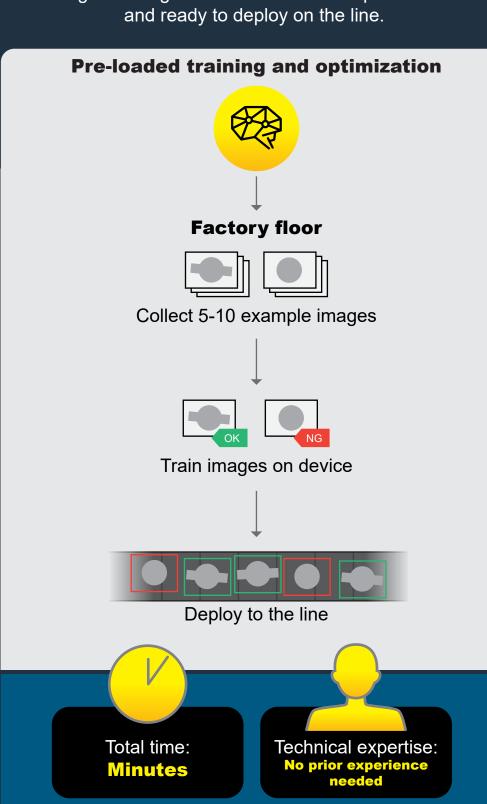
Edge learning neural networks come pre-trained

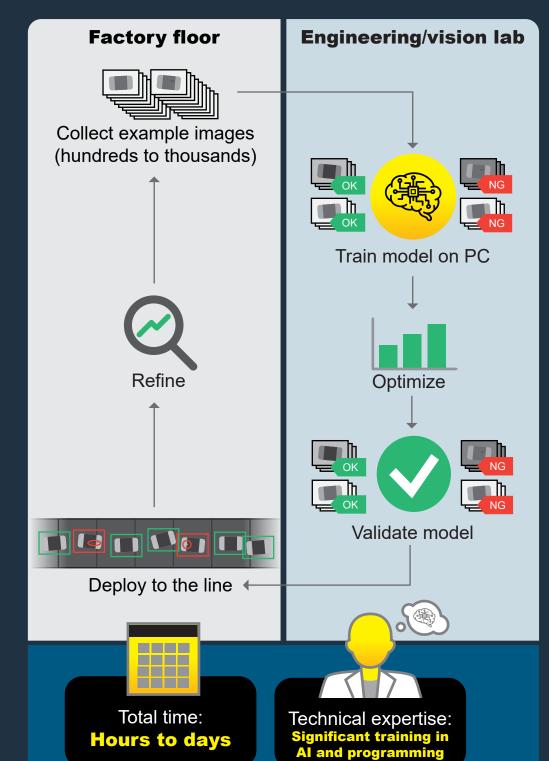
How to deploy



Deep learning

Deep learning neural networks are trained by an experienced professional on a PC.





- 1 57+ Amazing Artificial Intelligence Statistics (2022). (2022, August 4). Exploding Topics. Retrieved October 4, 2022, from https://explodingtopics.com/blog/ai-statistics
- https://www.globenewswire.com/news-release/2022/04/19/2424179/0/en/Artificial-Intelligence-Market-Size-to-Surpass-Around-US-1-597-1-Bn-By-2030.html