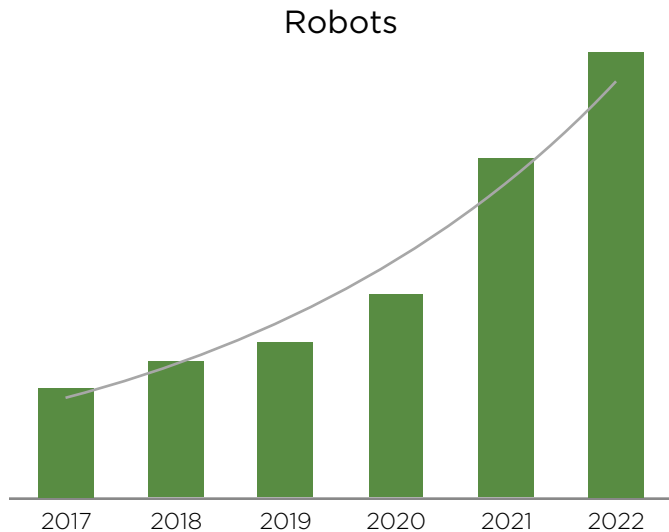# Robotic Autonomy Achieved With Cameras

Robots

Robots: (def) computers in motion that operate autonomously and intelligently.

The key to robotic autonomy is vision. Cameras are the eyes for robots, delivering real-time computer vision, machine learning and artificial intelligence to empower the robot to understand visual data and operate (semi) autonomously.

Automotive: By 2022, all new vehicles will be equipped with more than 25 cameras[1]. Light vehicles will have eight external cameras[2] and commercial vehicles, 16. Four to six cameras will be installed internally to monitor the behavior of the driver and passengers.

Drones: Both commercial and consumer drone industries are poised to increase dramatically[3] with autonomous and semi-autonomous capabilities powered by cameras (two to six cameras) for high-quality visual capture and navigation. Recent FDA approval for commercial drone use spans multiple industries.

Robotics: Robotics will have 20X more integrated cameras. Visually enabled robots will operate in industrial, consumer, retail and warehouse sectors.

Maritime Vessels: Unmanned Underwater Vehicles (UUVs) & Surface Vehicles (USVs) are deployed commercially and by the military. There are 255 unique configurations of UUVs in service today, including 147 different vessel platforms. The industry will grow with 2D and 3D capabilities for autonomy and surveillance.[4]

6th Annual LDV Vision Summit - May 22 & 23, 2019 in NYC will bring together 600+ top technologists, entrepreneurs, execs and investors to discuss the cutting edge in visual tech. Check out the speakers & more...

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