

// AUTOMATING AUTOMATION

We empower companies with smart automation to
reduce cost and increase productivity

REALTIME ROBOTICS AT A GLANCE

Company Overview

- Founded 2017, based in Boston
- 60 employees worldwide, 47 are engineering
- \$31M raised to date
- Asset light business model with no own manufacturing
- Industry disruptor empowering manufacturers to automate quickly with fast ROI
- Flexible RaaS model expected to accelerate robot adoption
- 17 unique invention disclosures, 3 awarded patents, 28 national applications pending, 2 PCT applications pending
- Huge global TAM of \$173 Billion

Team



CEO & PRESIDENT



CCO



CFO



VP Engineering



VP Systems



Dir. Product

Strategic Partners



Strategic Investors



// PROBLEM

Manufacturers cannot fulfill orders due to constantly combating:

- Labor shortages
- Challenging consumer demands



Automation should be the answer... BUT Automation today is:

Rigid

- Software requires manually entering each robot path and every movement within mm to avoid collisions
- **Must choose between slow or unsafe**

Complex

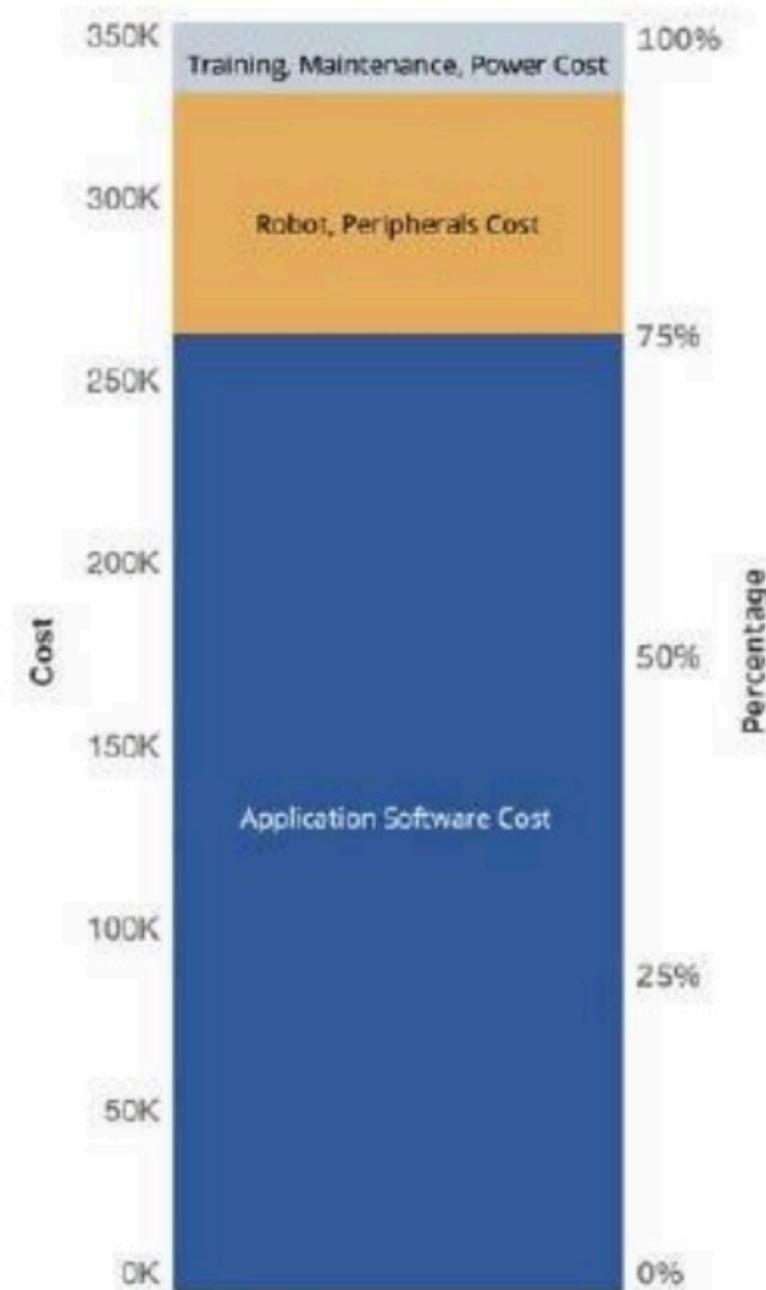
- Each robot brand has its own programming language and requires highly-skilled specialists

Inflexible

- Any changes require manually reprogramming the decision tree for the entire path for every robot

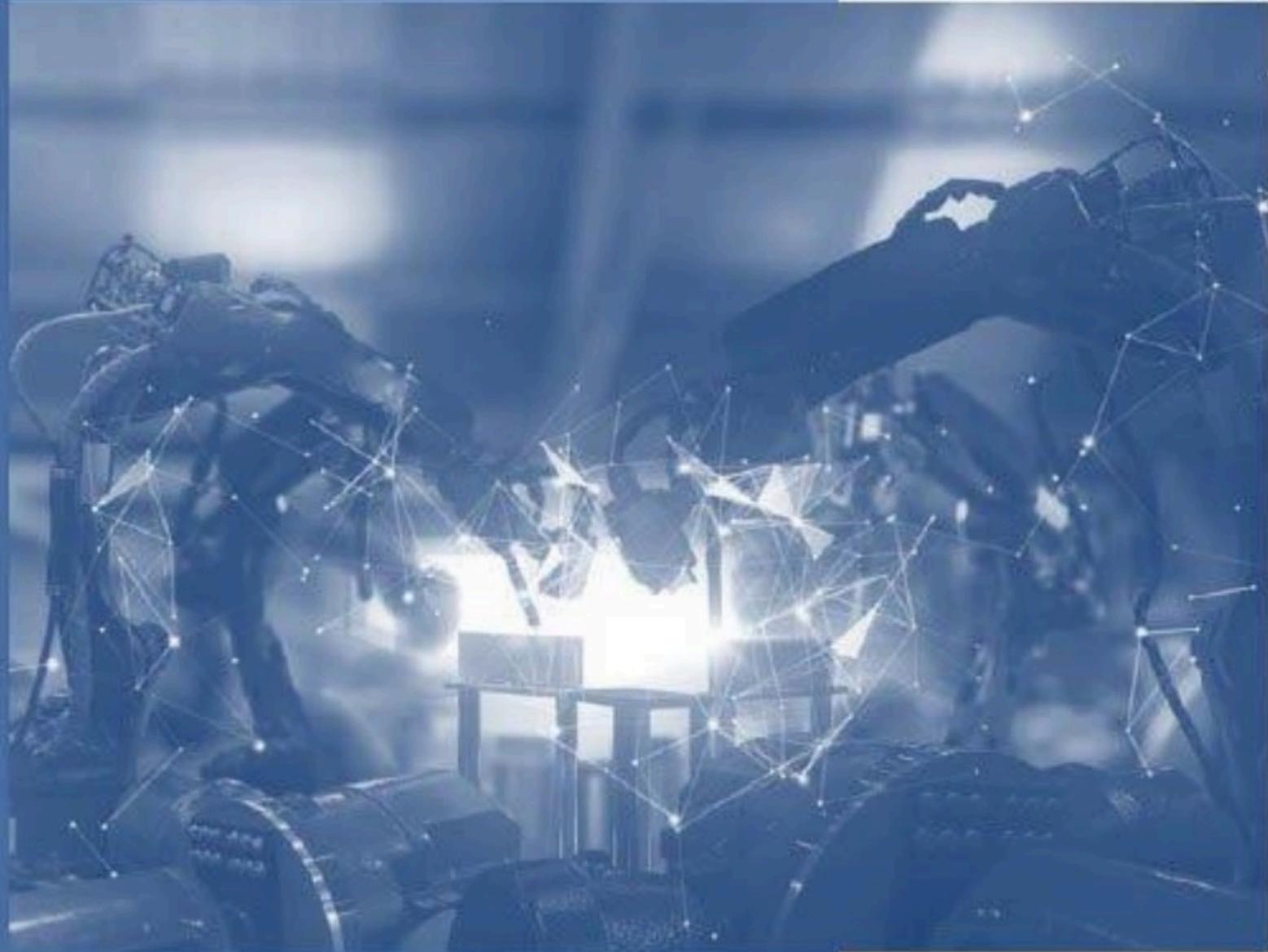
Expensive

- Average robot lifetime cost is \$350K, which **programming costs can account for 50%**



Average Robot Lifetime Cost
\$350,000

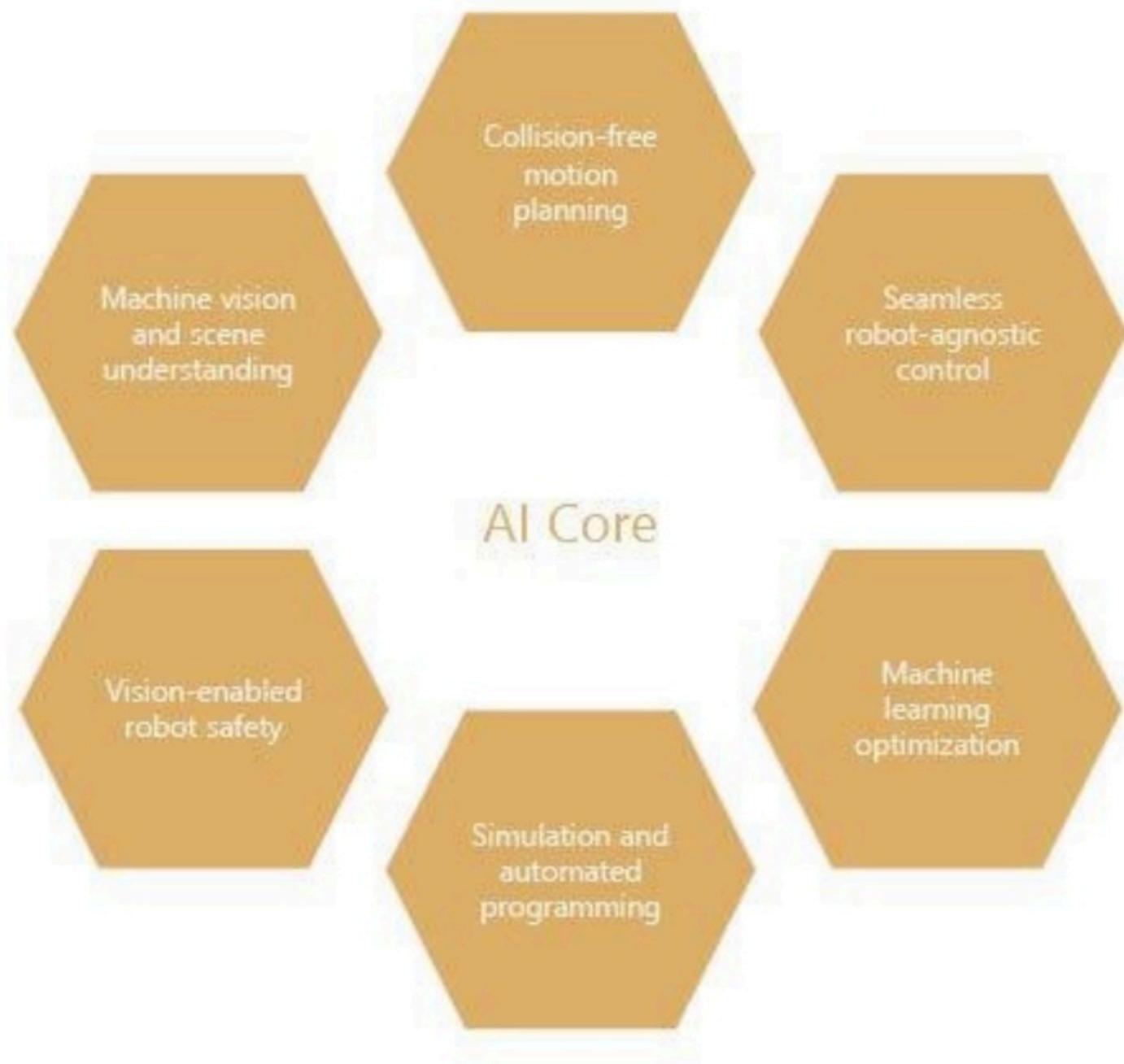
Source: International Federation of Robotics, Siemens Next47 Start-up Insights



// REALTIME'S SOLUTION

- Reduces programming time
- Reduces re-deployment time
- Increases flexibility and adaptability
- **Reduces automation costs by 40%**
- Allows multiple robots to work in shared space without collisions
- Will soon enable industrial robots to work at high-speed safely without guards and fencing

AI DRIVES THE BREAKTHROUGH IN ROBOTIC AUTOMATION



Deployment ROI

Deploy in hours vs weeks

- Software that automates programming
- New and existing automation integration
- Plug and play with all major robot brands
- AI & ML core generates optimized solutions

Performance Benefits

Improved performance on day 1

- Change specs on-the-fly with a few clicks
- Robots react autonomously in real-time to unexpected deviations or interruptions
- Continuous uptime from collision-free movements

Scalable, adaptable, reliable AI-driven robot programming platform enabling tasks to be automated quickly and affordably



Realtime Controller

Specialized Hardware

Automates motion plans and removes the need for brand-specific robot programming

Industrial Rate

Hardened edge-computing platform maximizes uptime and throughput for up to 16 robots



RapidPlan

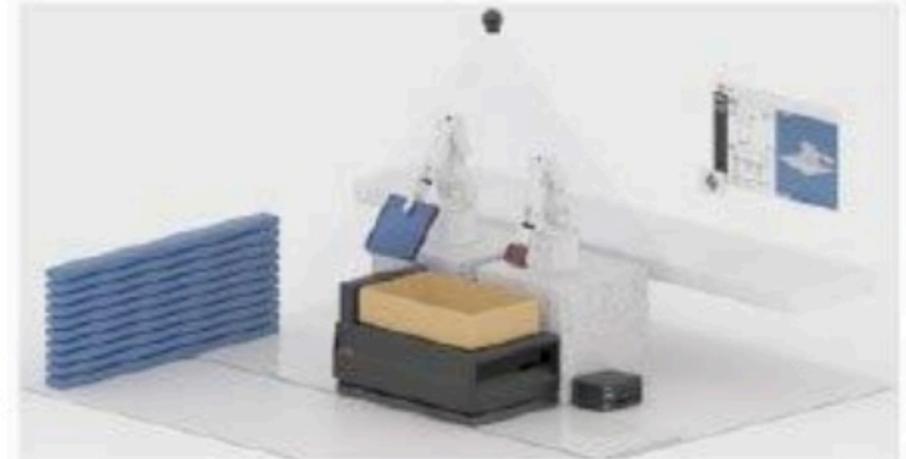
AI Core

Optimally choreographs all robots' movements

User-Centric Software

Change cell specs on-the-fly with only a few clicks

Optimize – Simulate – Deploy



RapidSense

Spatial Perception

Live path monitoring with obstacle detection

3D Machine Vision

Detection and reaction to process and control anomalies as they occur



Conventional Robots

Fences or Light Curtains

- Robots must stop when a human is inside the fence
- Costly to implement and inflexible due to large physical footprint
- Not suitable for collaborative applications



Today's Cobots

Power and Force Limited

- Robots stop on human contact
- Must move at slow speeds
- Limited to small payloads
- Not suitable for industrial applications



Realtime Collaborative

Speed and Separation

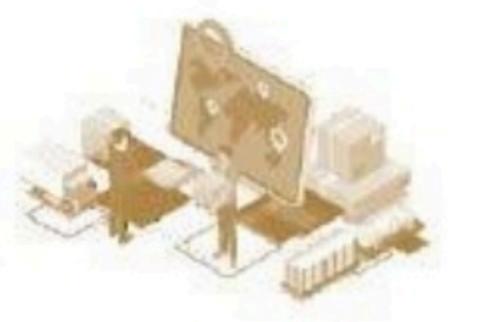
- No human contact/collisions
- Robots plan around humans instead of stopping
- Uses both 2D and 3D sensors
- Use industrial robots in collaborative applications

\$173 BILLION TAM BY 2025

Logistics

\$56B¹

- Automated material handling



Automotive

\$20B²

- Multi-robot factory floor



Digital Simulation

\$12B³

- Digital twin software programming



Safe Collaboration

\$85B²

- Safe unstructured robotics



¹McKinsey, Improving warehouse operations – digitally, 02/06/20; F. Curtis Barry & Company, Managing Your Warehouse Labor to Reduce Overall Expenses; Mordor Intelligence, Automated Material Handling (AMH) Market - Growth, Trends, COVID-19 Impact, and Forecasts (2021 - 2026), 2020; LogisticsIQ, Warehouse Automation: Rise of Warehouse Robotics, 2019. DHL, Robotics in Logistics, March 2016.
²IFR Report 2019
³McKinsey 2019 and WRR 2020

FOUR FOCUS VERTICALS



	LOGISTICS	AUTOMOTIVE	DIGITAL SIMULATION	SAFE COLLABORATION
ANCHOR APPLICATION	Mixed-case palletizing Parcel Sortation	Multi-robot welding, paint and assembly	Offline programming digital twin & optimization	Collaborative Industrial robots
BENEFITS	Faster, more accurate automation	Reduce complexity Quicker line changes	Vastly reduce programming time and cost	Power of industrial robots with people in the loop
ANCHOR PARTNERS				
RTR TECHNOLOGY	Realtime Controller RapidPlan RapidSense	Realtime Controller RapidPlan	Virtual Realtime Controller RapidPlan RapidPlan Optimize	Safety Certified Controller RapidPlan



Testimonial

"The combination of Process Simulate with Realtime Robotics' automated motion planning and interlocking has provided a significant improvement to our efficiency, reducing our off-line programming efforts by more than 80%. This presents to us a tangible and strategic advantage in the industry."

Michael Schaubmayr
Group Manager,
Mechanical Engineering Simulation

VALIANT TMS

Testimonial

"At Ford, we want to drive the future of manufacturing excellence. Realtime's unparalleled solution enables adaptability and efficiency in our processes, and we are excited to push the boundaries of what is possible together."

Gregory Linkowski
Robotics Research Engineer,
Robotics & Mobility Research

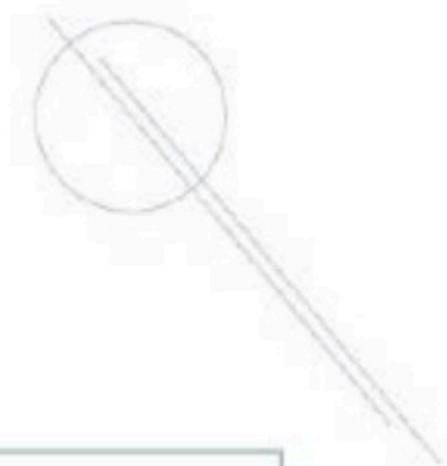
Ford

Testimonial

"Our partnership with Realtime Robotics reflects a paradigm shift in the way robotic applications are programmed and deployed. Together we have created a unique value proposition that will open up a world of possibilities for robotic automation."

Zvi Feuer
Sr. VP, Manufacturing Engineering Software

SIEMENS

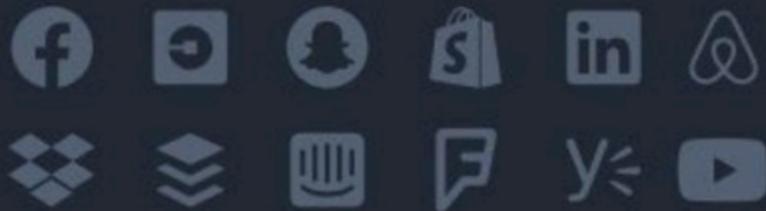




// CUSTOMER CASE STUDY

Product	RapidPlan Simulate
Application	Multi-Robot Chassis Welding
Benefits	<ul style="list-style-type: none">+ Automated and collision-free motion planning and interlocking+ Ability to handle higher level of complexity with reduced effort+ Failure recovery demonstrated
Conventional	33-hours planning / engineering time
Realtime	82% reduction in engineering time
Partnerships	Siemens

VALIANT TMS



Browse the best pitch deck examples.

Brought to you by bestpitchdeck.com — the world's largest library of pitch decks: hundreds of winning presentations from leading startups, updated every week.

[Read more →](#)

Follow us [@pitchdecks](#)    

