



Autonomous Mobility Platform



01.

Bear Robotics Introduction

A+ Founding Team

15+ years of domain expertise | industry insider | market strategist



John Ha | Ph.D.
CEO

- Restaurateur
- Technical Lead at Google
- Adjunct Professor at KAIST
- Ph.D. in AI



Fangwei Li
CTO

- Software Engineer at TensorFlow
- Co-founder at Area 120 at Google

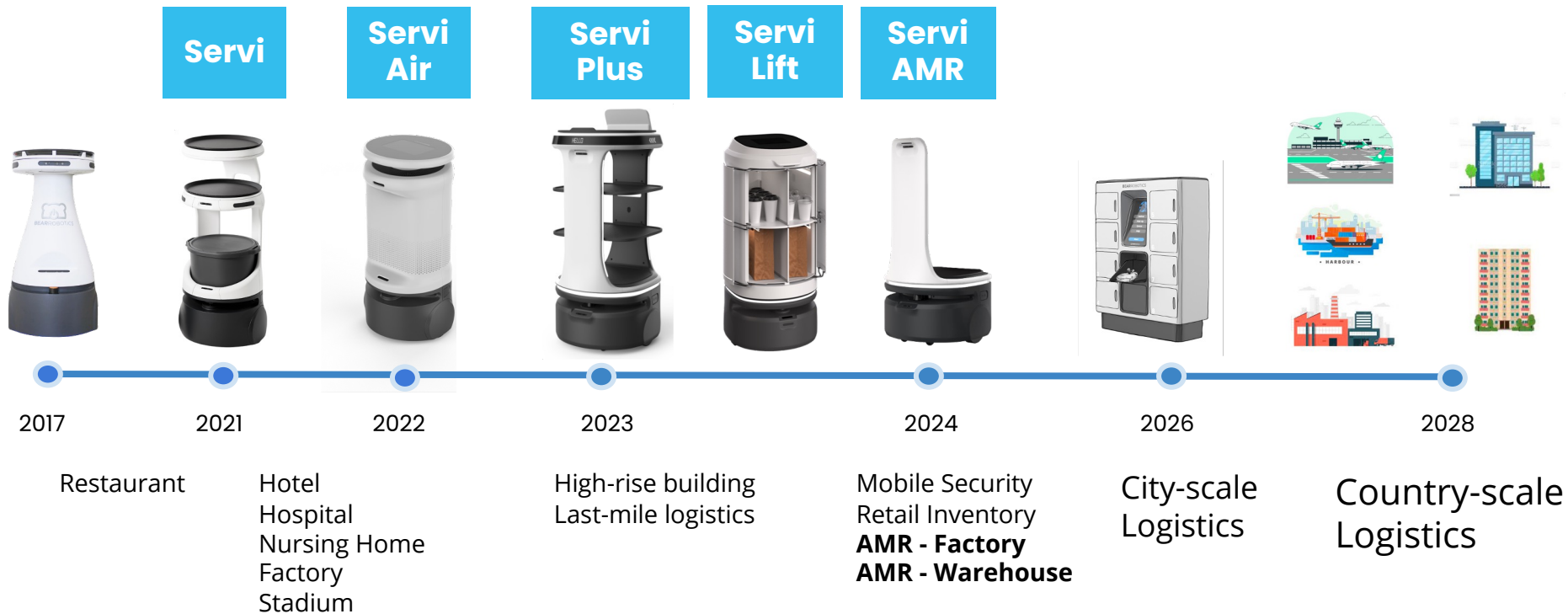


Juan Higueros | MBA
COO

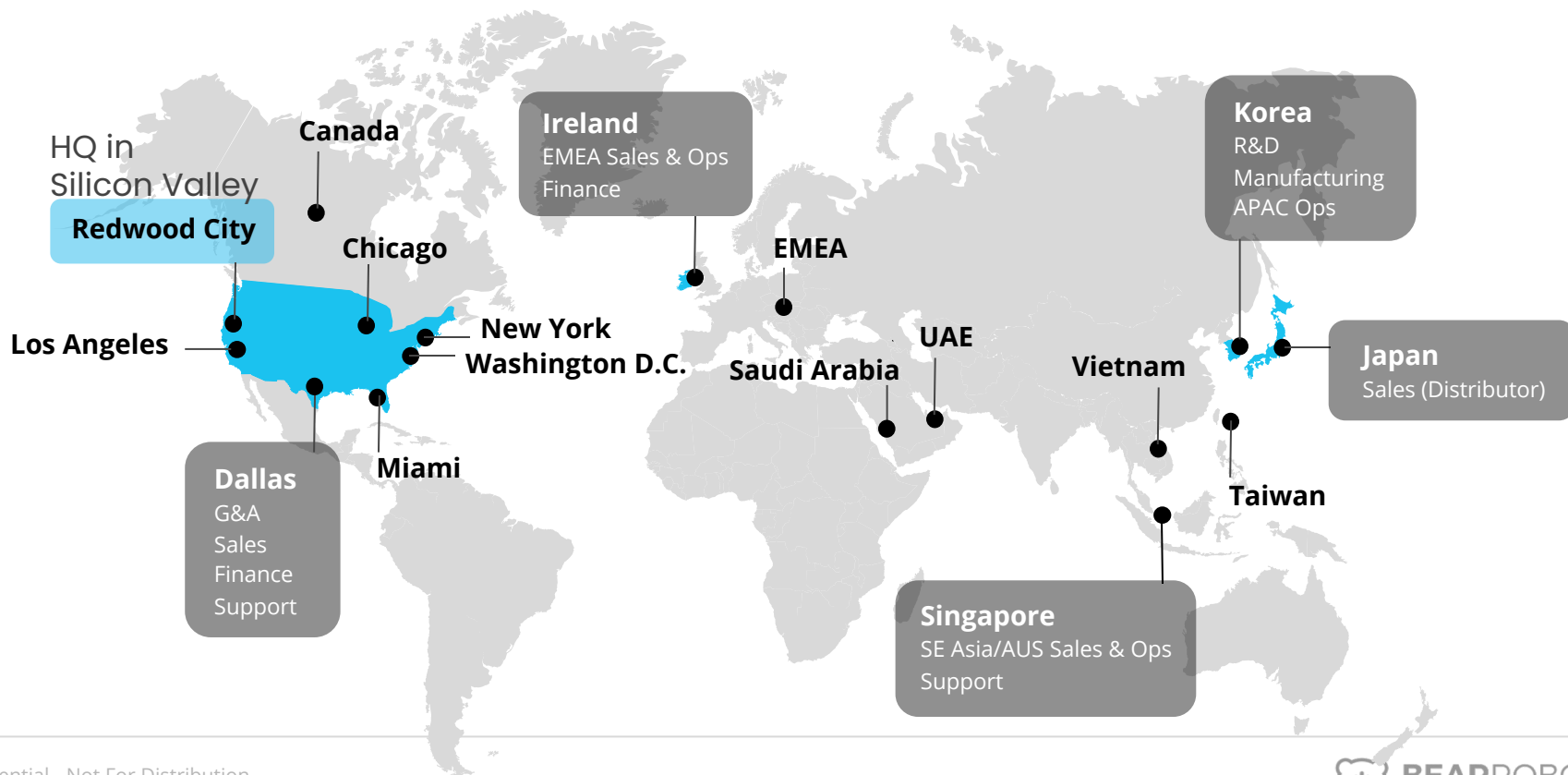
- Director of Strategy and M&A at KPMG
- Director of Corp Dev. at Polycom
- MIT Sloan MBA



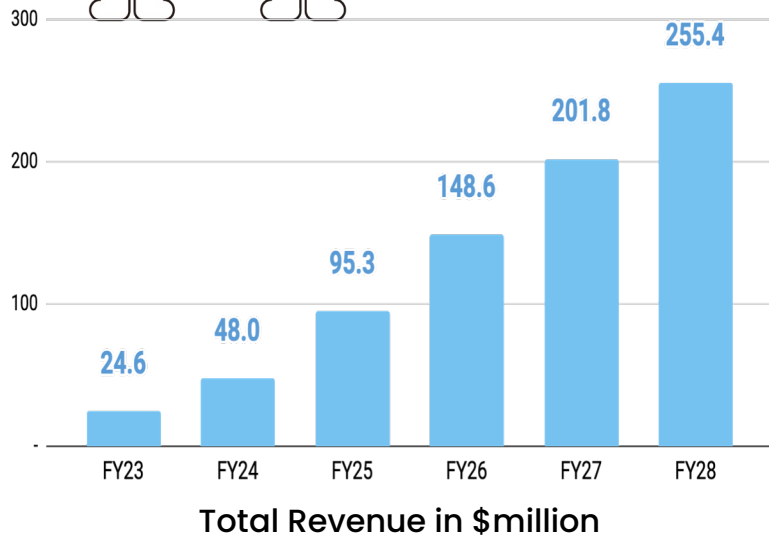
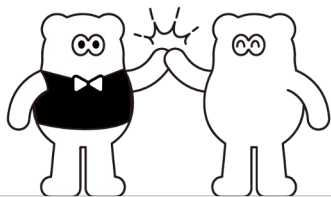
And successfully expanding into other sectors



We turn ideas into global business



Bear's traction



4

Global entities

(2 in progress)

230+

Headcount

\$117M

Accumulated
funding

3.6M+ km

Robots traveled

10,000+

Robots deployed
in **20+** countries

175M+

Deliveries made

Traction data as of Feb, 2024

We are trusted partners for industry leaders



02.

Bear Robotics' AMR Solution

Bear Robotics' AMR Solution



Servi Plus

Weight	62kg
Payload	40 kg
Sensor	1x2D LiDar & 3x3D Camera
Speed	0.2~1.2 m/s
Charging time	4 hours with cable charging
Battery Life	12 hours



Servi AMR
(Available in 2Q)

Weight	35kg
Payload	100 kg
Sensor	1x2D LiDar & 3x3D Camera
Speed	0.2~1.2 m/s
Charging time	4 hours with auto charging
Battery Life	12 hours

Bear Robotics AMRs

Factories need to have flexible logistics automation solutions

- [Video 1](#)
- [Video 2](#)

ROI When Adopting AMRs

Case Study from 'A' Factory using Bear Robotics' AMR

Line Name	# of AMRs Needed	# of Logistic Worker Removed	ROI*
SMD Line	4	8	7.9 months
Assembly Line	8	16	
CNC Line	4	8	
Total	16	32	

*Salary 5,500USD/year and 7,000USD per AMR

One AMR can replace one worker per shift so that one AMR can replace two workers as factories have two shifts per day

$16 \text{ AMRs} \times 7,000 + \text{Installation fee, } 1,500 \text{ USD} \times 3 \text{ locations} / 32 \text{ workers} \times 5500 \text{ USD} = 0.662 \text{ Year, } 7.9 \text{ months}$

Benefits when Adopting Bear Robotics' AMRs

Flexibility, Integration with Auto doors/Lifts, and KPI Management

- Even when changing production lines, Bear's AMRs still work after 1 hour of remapping
- Universe, Bear's cloud system can help factories manage AMR's KPIs including efficiency of AMRs, Battery health, etc.
- Bear's AMR can integrate with Auto doors and Lifts so that it can delivery parts/products from storage rooms to production lines

03.

Bear's AMR Benefits

Easy Setup Gives Flexible Logistic Automation

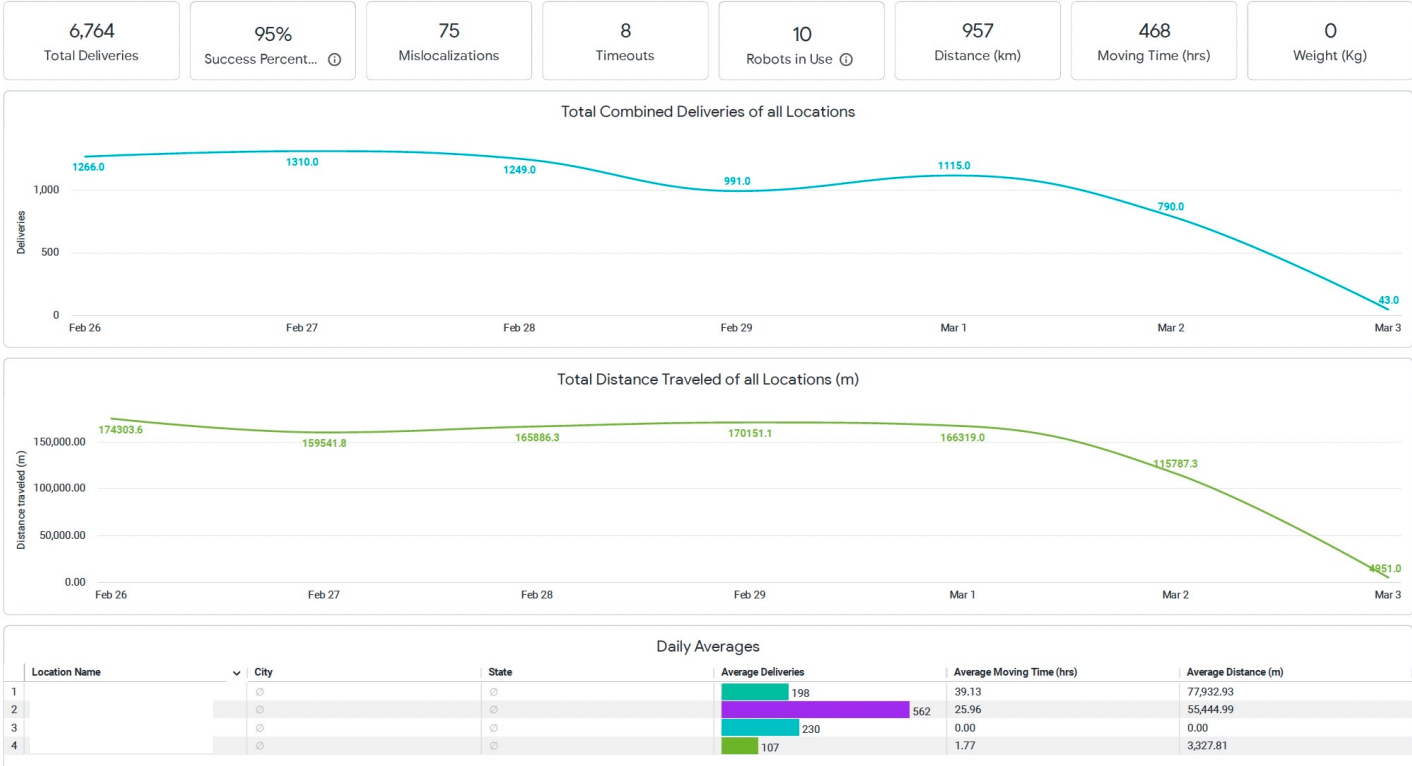
Mapping takes a few hours, and re-mapping, less than an hour

Mapping and deploying an area of 100m² takes only 30 minutes



Cloud Fleet Management saves operations cost

Remote Support, Monitor KPIs, Health check, and etc.



AMRs Can Open an Auto Door

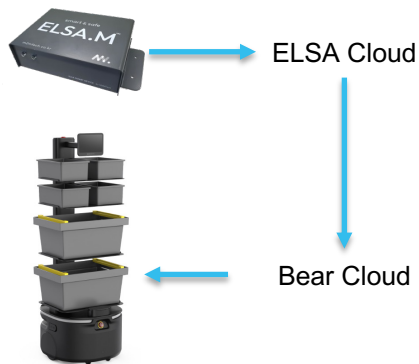
Factories have doors lines by lines sometimes. Robots can automatically open the door without any human intervention.



- [Video 3](#)
- [Video 4](#)

AMRs Can Take a Lift

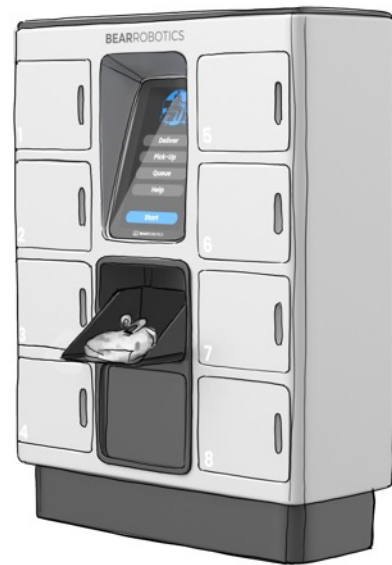
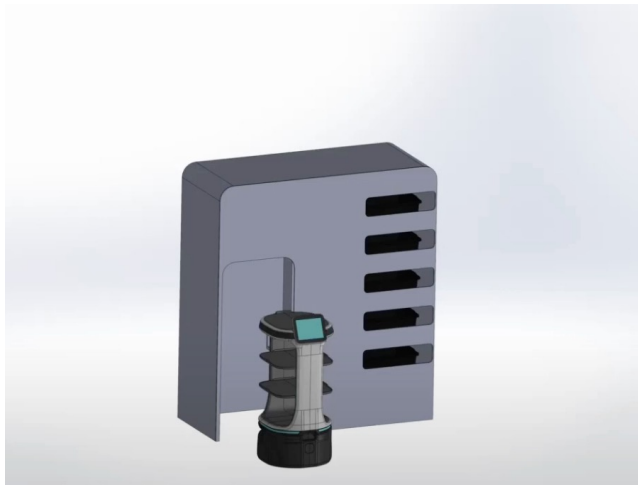
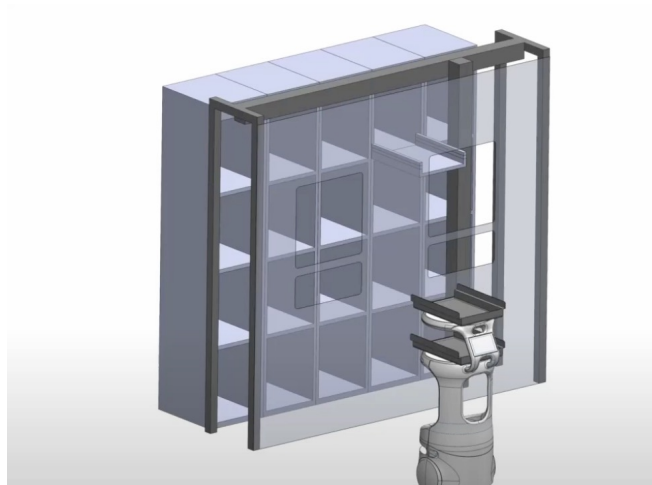
Factories have lifts to deliver parts from the storage to production lines. Robots can automatically take a lift without any human intervention.



- [Video 5](#)
- [Video 6](#)

Smart Shelf enables City-scale logistics

Robots & humans can interoperate via smart shelf



04.

Safety & Security Issues

Battery Safety Issues

Competitive Advantage:

- Battery & Charger: Product built with certifications and more reliable components.

Automated Mfg -> Better quality controlled

- Bigger battery capacity (BR: 44,100mAh VS Bellabot: 21000mAh)
- New reliable battery with longer battery life. IPx5, UL, PSE, CB, and UN38.3
- Flame Resisting (Level V0 / PC.M.FR6005)
- Battery Management System enabled and can be monitored



Samsung SDI Cell

- INR21700-50E
- Min 4,900mAh



Security Concerns with Chinese Robots

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Thank you

Contact
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