



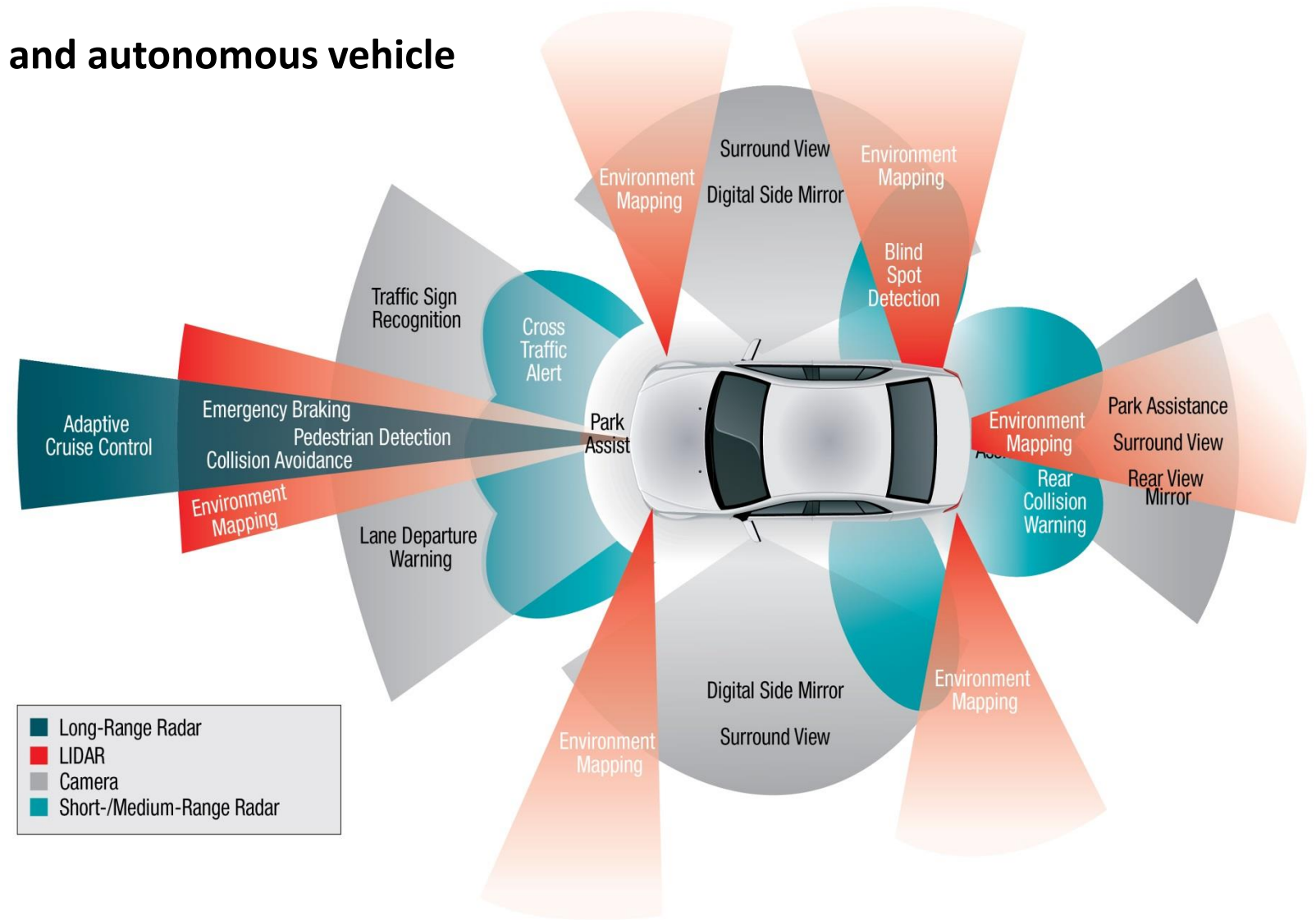
**e. What safety measures have
been put in place to protect
workers?**

Safety Features



Safety Features

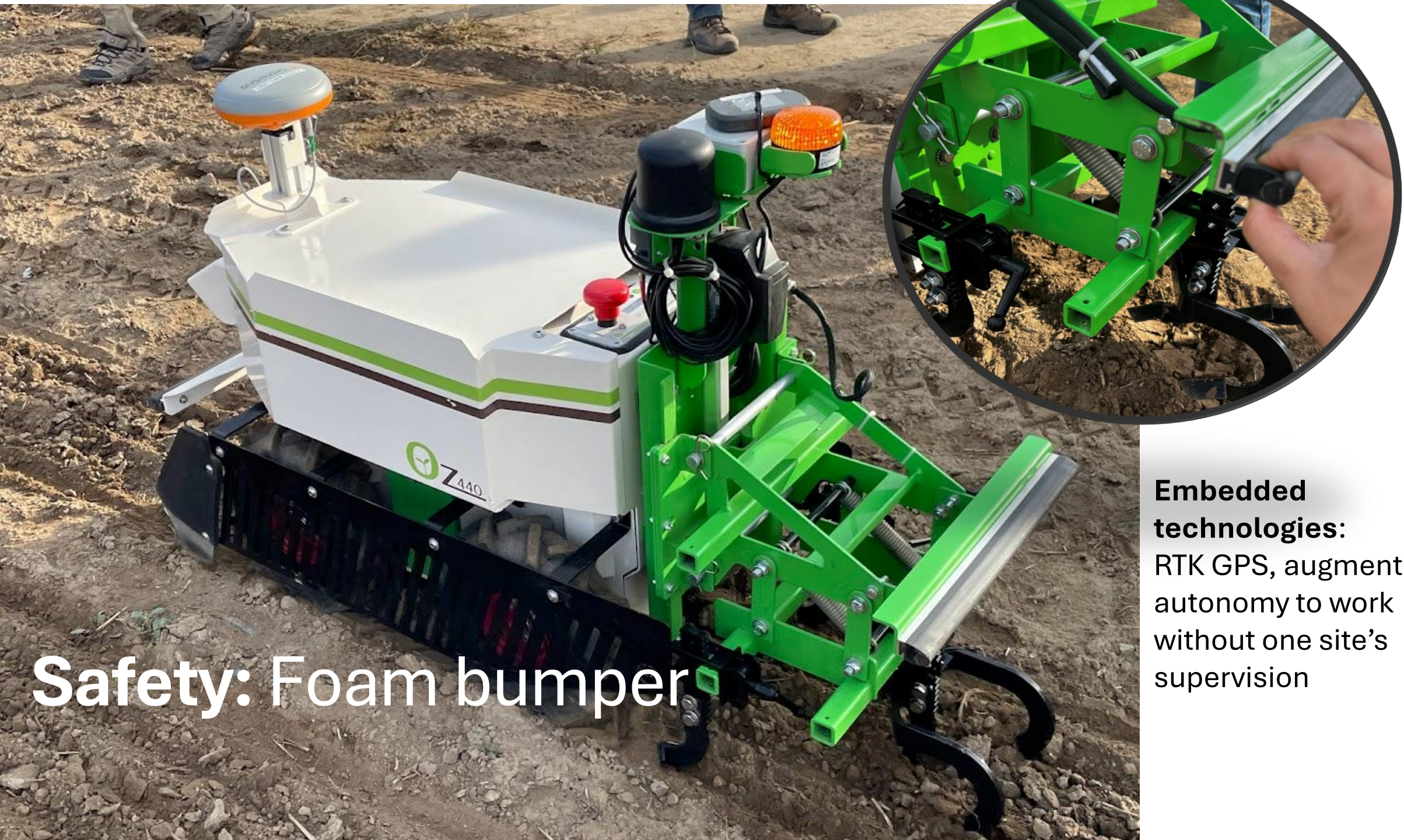
Sensors in a highly automated and autonomous vehicle



NIO (Oz)

- 300
- 2011
- Versatile robot
- Small scale farms
- With 20 different features
 - Weeding
 - Seeding
 - planting
 - carrying loads
- **Productivity: 3 acres/day**





Safety: Foam bumper

Embedded technologies:
RTK GPS, augmented autonomy to work without one site's supervision

Farmwise

- 2016
- Automated mechanical weeder for vegetable crops
- 14
- Weeding in between the rows of vegetable crops and in between the crops themselves
- Crops
- Productivity: 1 acre/hour
- Machine vision



Embedded technologies:

- LIDAR and vision systems, emergency stops, and remote monitoring



Burro

- 2017
- 200
- Collaborative Robots
- Follow people to learn routes, then retrace and navigate their routes autonomously

Embedded technologies:

Computer vision, precision GPS, and AI (safety features)



GUSS: Embedded technologies

- LiDAR & GPS Navigation
- Wheel Encoders & Steering Angle Sensors
- Defender™ Safety Vest System
- Remote Operation Monitoring



www.fira-agtech.com

Safety Features

- Touch-sensitive bumper



GUSS Defender vest



Reduce chemical exposure

Laser Weeder (Carbon Robotics)

- 2018
- More than 10
- Covers up to 2 acres per hour, up to 200,000 weeds per hour
- kills up to 99%
- AI deep learning models and computer vision software, to identify, target, and eliminate weeds.
- Millimeter precision
- Without disrupting the soil or crops
- lighting system to operate all day and under all conditions



Laser Weeder



Safety features

- **Class 4 Laser Safety Warnings** – *“Class 4 Laser Product Danger – invisible Laser Radiation. Avoid Eye Or Skin Exposure To Direct Or Scattered Radiation.”* ([Carbon Robotics](#))
- **Operator App with Real-time Monitoring & Control** – *“Operator app: ... easily control and customize your LaserWeeder... get real-time feedback on speed, laser status, performance and notifications.”*
([Carbon Robotics EU](#))