

VINE CONNECT FIELD DAY

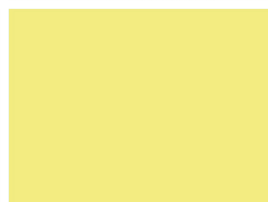
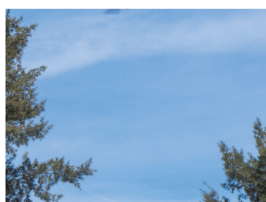
Guide & Lookbook



April 10,
2025



Hansen
Agricultural Research
& Extension Center



About the Organizers

UC ANR Innovate. UC ANR Innovate is the innovation arm of the University of California, Agriculture and Natural Resources, dedicated to advancing agriculture, food, and biotechnology in California. We connect researchers, entrepreneurs, farmers, and policymakers to transform ideas into real-world solutions that strengthen industries, empower communities, and ensure a thriving, inclusive future for agriculture.

Farmhand Ventures. Farmhand Ventures is an agtech venture firm building and backing founders transforming the future of work in agriculture. We invest in pre-seed and seed stage startups, and we partner strategically to support the development of agtech ecosystems that provide sustainable solutions for American farmers and farmworkers.

UC Agriculture and Natural Resources (UC ANR). UC ANR brings UC information and practices to all 58 California counties. Through research and Cooperative Extension in agriculture, natural resources, economic growth, nutrition and youth development, our mission is to improve the lives of all Californians. ucanr.edu

Event agenda

8:30 a.m

Registration and Breakfast

9:00 a.m.

Welcome and Introductions from The VINE and Hansen teams

Group 1

- **9:10 a.m.** – Lumo: Irrigation demonstration
- **9:30 a.m.** – Verdant Robotics: Precision spraying demonstration
- **9:50 a.m.** – Verdi: Irrigation demonstration
- **10:20 a.m.** – Ag-Bee: Drone spraying demonstration
- **10:40 a.m.** – L5 Automation: Harvesting demonstration

Group 2

- **9:10 a.m.** – Ag-Bee: Drone spraying demonstration
- **9:30 a.m.** – L5 Automation: Harvesting demonstration
- **9:50 a.m.** – Lumo: Irrigation demonstration
- **10:20 a.m.** – Verdant Robotics: Precision spraying demonstration
- **10:40 a.m.** – Verdi: Irrigation demonstration



- **Core Business:** Ag-Bee deploys autonomous aerial drones for precision crop monitoring, pollination support, and targeted agrochemical application . Its drone services reduce the need for manual field scouting and enable precise spraying where needed.
- **Demoing:** Drones performing crop monitoring and targeted applications. Presentation followed by technology demonstration showing field operations and data visualization.
- **Crop System:** Applicable across various crop types

Founded:

2019

Headquarters:

Temecula, California

Contact:

Briana Layfield

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www.ag-bee.com



- **Core Business:** L5 Automation develops autonomous field machinery to automate labor-intensive harvest tasks. Its two-handed, vision-guided robot can identify ripe berries and pick them at optimal times, addressing farm labor shortages.
- **Demoing:** Autonomous strawberry harvesting robot working on active plants. Small groups will observe the robot identifying and harvesting berries while team members explain the technology.
- **Crop System:** Strawberry cultivation with plans to expand to other fruits and vegetables.

Founded:

2020

Headquarters:

La Cañada Flintridge, California

Contact:

Alexander Gutierrez

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www.l5automation.com



LUMO

- **Core Business:** Lumo provides smart irrigation systems using patented “smart valve” technology to automate water management. Its IoT-enabled valves and software platform allow growers to control and monitor irrigation remotely with precision.
- **Demoing:** Smart irrigation valve technology. Attendees will witness remote scheduling, see hardware features in action, and view real-time data collection through the dashboard.
- **Crop System:** Specialty crops, such as vineyards, orchards, and other perennials.

Founded:
2021

Headquarters:
Santa Rosa, California

Per Unit Cost:
\$699.00

Contact:
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www.lumo.ag/



VERDANT ROBOTICS

- **Core Business:** Verdant Robotics' SharpShooter reduces labor and chemical costs while protecting crops and improving yields. The only system that aims before it applies, it delivers precise weeding, thinning, and beneficial treatments at speed—fitting seamlessly into existing cropping practices.
- **Demoing:** SharpShooter eliminating weeds within vegetable crops. System will showcase capabilities in a live field setting with lettuce, broccoli, or onions
- **Crop System:** Conventional, organic and no-till systems, across a variety of specialty row crops that traditionally rely on manual weeding or spraying.

Founded:

2019

Headquarters:

Hayward, California

Per Unit Cost / Sold

\$550,000 / 12

Contact:

Curtis Garner

curtis@verdantrobotics.com

www.verdantrobotics.com



- **Core Business:** Verdi makes irrigation automation simple and affordable for growers. Verdi's proprietary smart devices retrofit existing valves, pumps, and drip lines to automate irrigation, while offering advanced features like pressure monitoring and leak detection.
- **Demoing:** Portable irrigation automation, retrofitted to an existing irrigation system. See how Verdi's hardware and software make it easy for farm workers to control irrigation, monitor pressure, flow, soil moisture, and leaks in real time.
- **Crop System:** Any specialty crop, including grapes, berries, and vegetables.

Founded:

2020

Headquarters:

British Columbia, Canada

Per Unit Cost / Sold

\$400 / 1,500

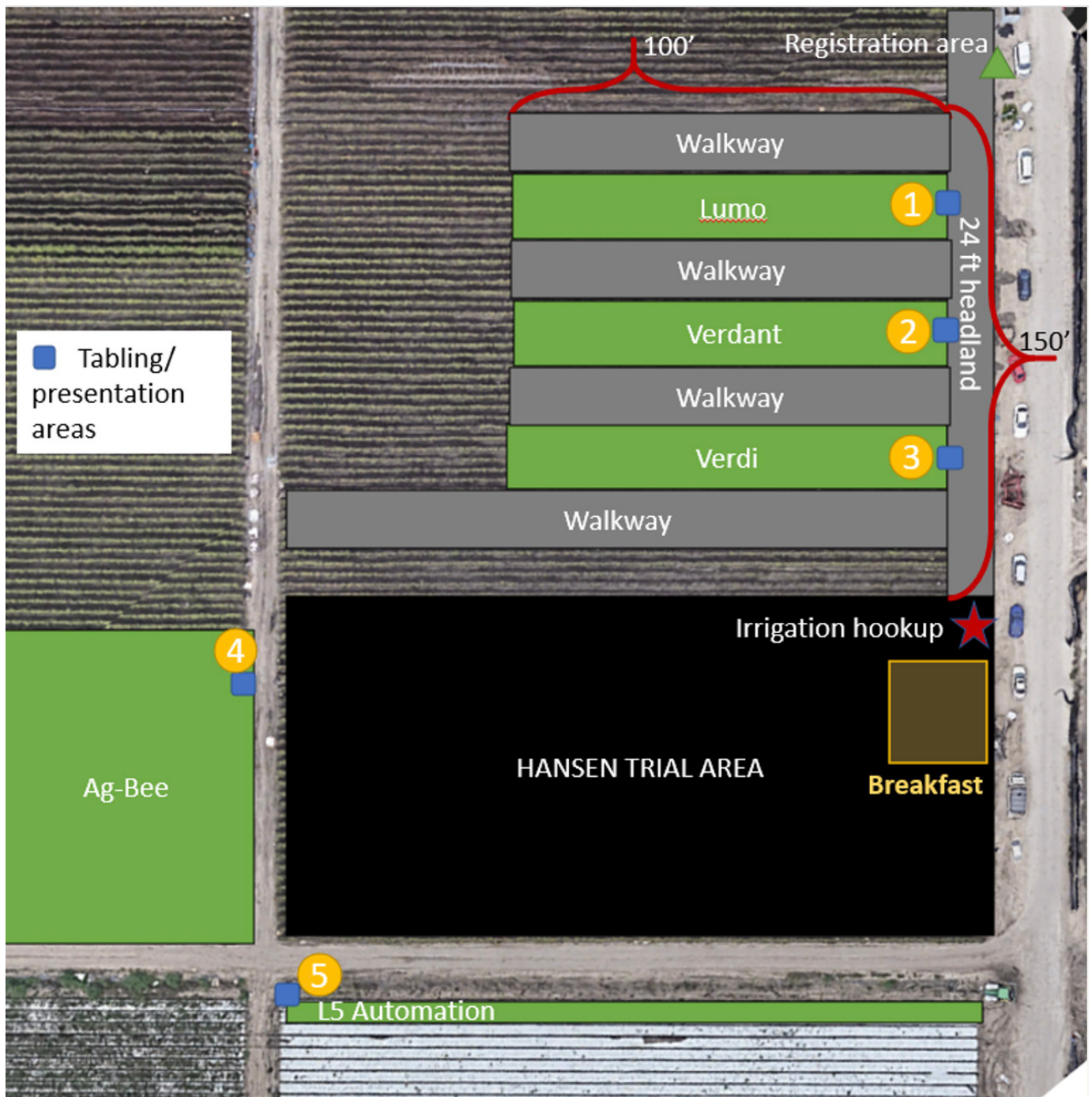
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Map of Demo Zone





THE VINE



**Farmhand
Ventures**



**UC ANR
innovate**

UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources

thevine.io



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