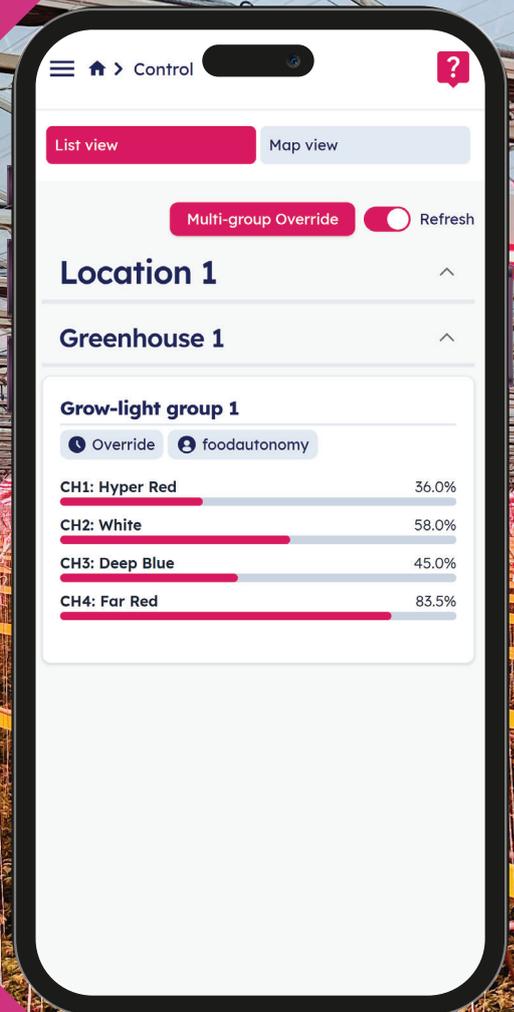# CULTIMESH®
Wireless mesh platform

SECURE WEB-BASED LIGHTING CONTROL SOFTWARE AVAILABLE WORLD-WIDE

Developed with growers for growers

SCAN TO KNOW MORE

Control

List view | Map view

Multi-group Override | Refresh

Location 1

Greenhouse 1

Grow-light group 1

⏱ Override | 👤 foodautonomy

CH1: Hyper Red — 36.0%
CH2: White — 58.0%
CH3: Deep Blue — 45.0%
CH4: Far Red — 83.5%

SMART, FAST, RELIABLE

- **Real-time insights:** CultiMesh monitors every fixture, detects circuit breaker trips or fan speed deviations, we pinpoint anomalies down to the exact spot.

- **Plug & Play:** Simply remove the old fixtures, install the new ones, and enjoy full wireless control. No costly wiring required.

- **One system, endless possibilities:** CultiMesh is backward compatible, allowing lamp and system updates to add new features to your greenhouse.

- **Lighting reports:** See how your lights performed, whether grid balancing adjusted them, and how PAR sensors influenced light levels.

- **Quality at every stage:** CultiMesh tests fixtures during manufacturing, monitors performance, and predicts malfunctions.

Dynamic multichannel light control

1 controller = unlimited fixtures

Grid balancing with aFRR (<1s)

Two-way communication

Role-based user management

Integrated & standalone fan control
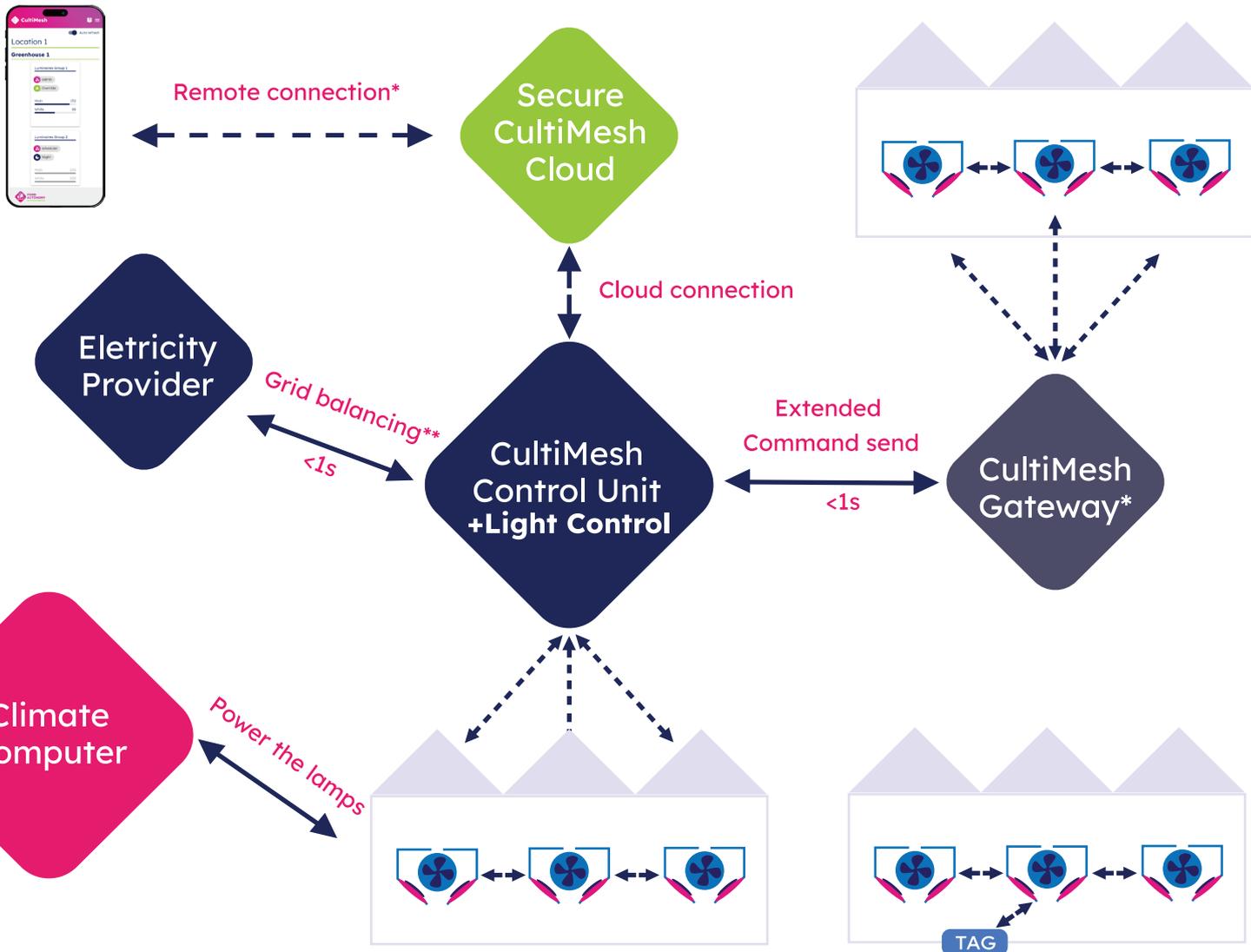
PAR sensor based control

Robotic positioning

Save time with our user-friendly interface

HUMAN-FRIENDLY LIGHTING

→ CultiMesh uses small tags to adjust the spectrum around workers, keeping most lights optimized for crops while ensuring comfort for people.

STANDALONE CULTIMESH OPERATION

Remote connection*

Secure CultiMesh Cloud

Cloud connection

Eletricity Provider

Grid balancing** <1s

CultiMesh Control Unit +Light Control

Extended Command send <1s

CultiMesh Gateway*

Climate Computer

Power the lamps

TAG

*Project dependent
**Compatible with FFR, FCR, FCR-D, FCR-N, aFRR, mFRR

Standalone control
Cut transition costs: Switch to LEDs without paying for climate computer upgrades.

or

Integrated control
Use everything from the familiar Climate Computer interface.

TRACKING
→ Track robot and human processes to ensure your greenhouse operation to the highest standards.

TRUSTED BY EUROPE'S LARGEST GROWERS.

" We are nowadays the biggest tomato grower in Finland. We control the lights with the CultiMesh®. The CultiMesh® is integrated into the computer system we are using. Working with Food Autonomy is giving me the feeling that they care. That's very important for me as a grower. "

Patrik Sigg,

CEO of Sven Sigg AB.

" We control lighting directly via our climate computer since the integration of the CultiMesh and the Horticulture Lighting Protocol. "

Leo van der Lans,

co-owner of Lans Group (lans.nl)

CULTIMESH® FEATURES

Features	CultiMesh standalone	CultiMesh integrated
Communication	Wireless	Wireless
Maximum grow-lights / gateway	20 000	20 000
Maximum groups	unlimited	100
Maximum grow-lights	unlimited	unlimited
Maximum control channels	16	16
Grid balancing support	aFRR, mFRR, FCR-D, FCR-N, FFR etc	aFRR, mFRR, FCR-D, FCR-N, FFR etc
Remote access	included	included
Grow-light Health monitoring	supported	supported
Robot tracking	supported	supported

FOOD AUTONOMY
Horticultural lighting