HORIZON-CL6-2026-02-FARM2FORK-06
Advanced innovative solutions for improved competitiveness and sustainability in controlled environment agriculture (CEA)

CNTA

CNTA has R&D lines using Artificial Vision (AI + NIR/hyperspectral/visible) for advance, non-invasive characterization and predictive analysis

- Implement advanced sensing, specifically hyperspectral and Near-Infrared (NIR) imaging, to achieve real-time monitoring of crop quality and composition. This provides the data foundation for precise control and optimization of environmental conditions within the CEA facility.

- Develop sophisticated Artificial Intelligence (AI) and Machine Learning models to generate predictive analytics regarding crop productivity, stress detection, and quality forecasting, enabling data-driven decision-making and smart automation.

- Validate the full technological stack (sensing and AI solutions) in practical pilot environments (TRL 6-7). This demonstrates the cost-effectiveness, scalability, and integration necessary for commercial adoption and sustainability.

- CNTA is partner of **LIFE FARMITANK** where we Compare traditional crops vs crops produced by new nutritional technologies, heavy metals, pesticides, micro, waters, organoleptic, etc.