

Key Infrastructure for Future Agriculture

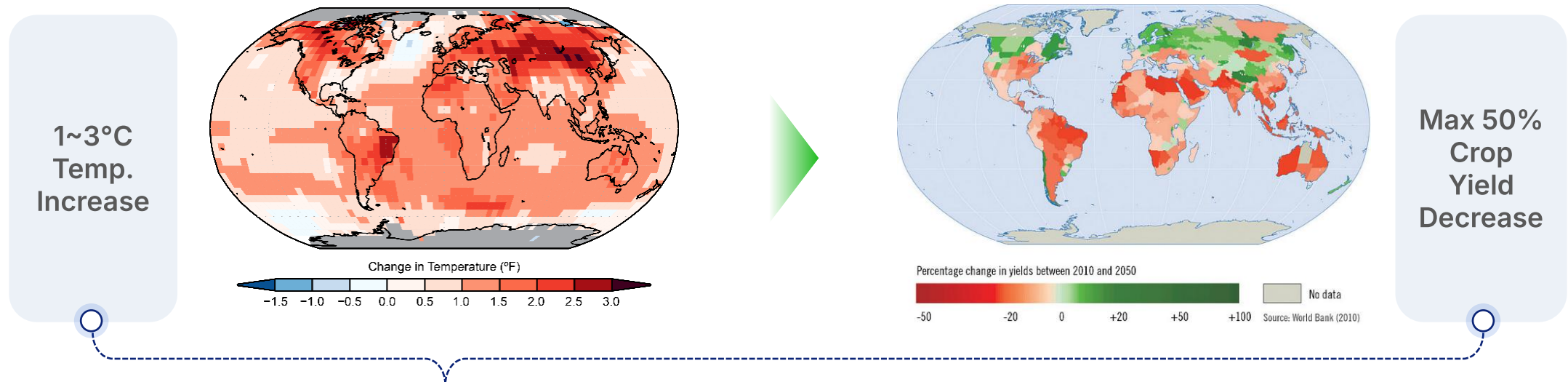
Smart Agrivoltaic Management System (SAMS)

CTCN

03 SEPTEMBER 2025

Solution needed to overcome the agriculture crisis

170 t USD world's agriculture industry trapped in a vicious cycle of climate crisis ▶ income decrease ▶ no. of farmer decrease



71% Farmers
Experiencing Climate Damage

World's 71% farmers already experiencing climate damage

16% Income
Decrease from Farming

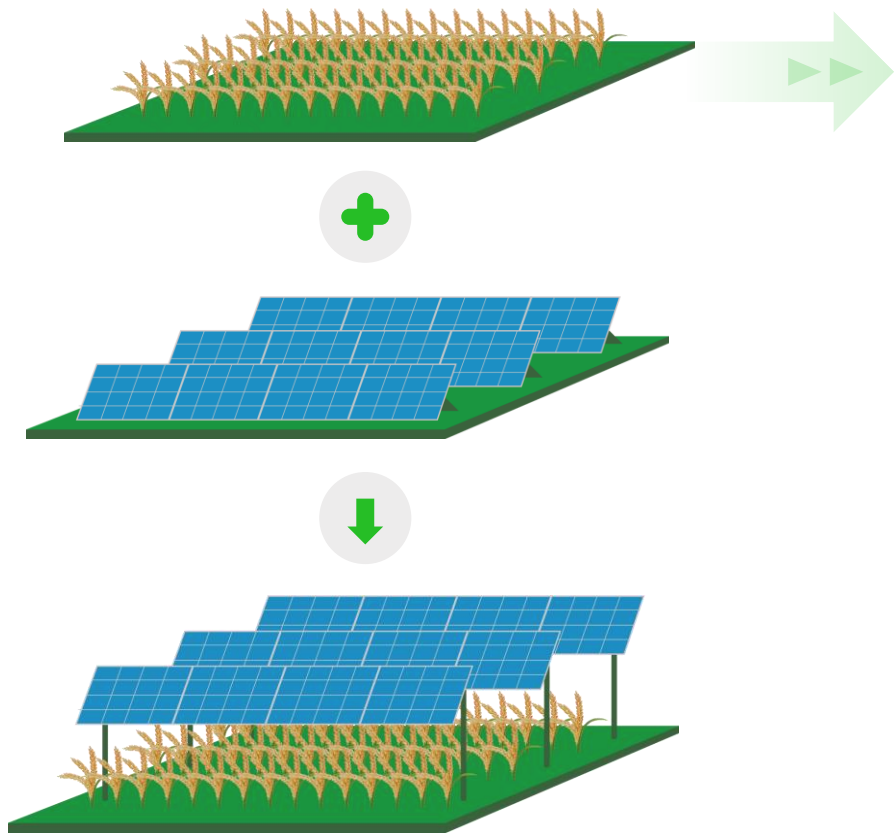
In last 2 yrs, farmers' profit decreased by 16%

60% Farmers
Seeking climate solution

In desperate need of climate protection technologies

* Source: Bayer Group

Agrivoltaics > Climate Smart Agriculture



APV Relative Daytime Temp. from Open Field
0.5~2 °C ▼

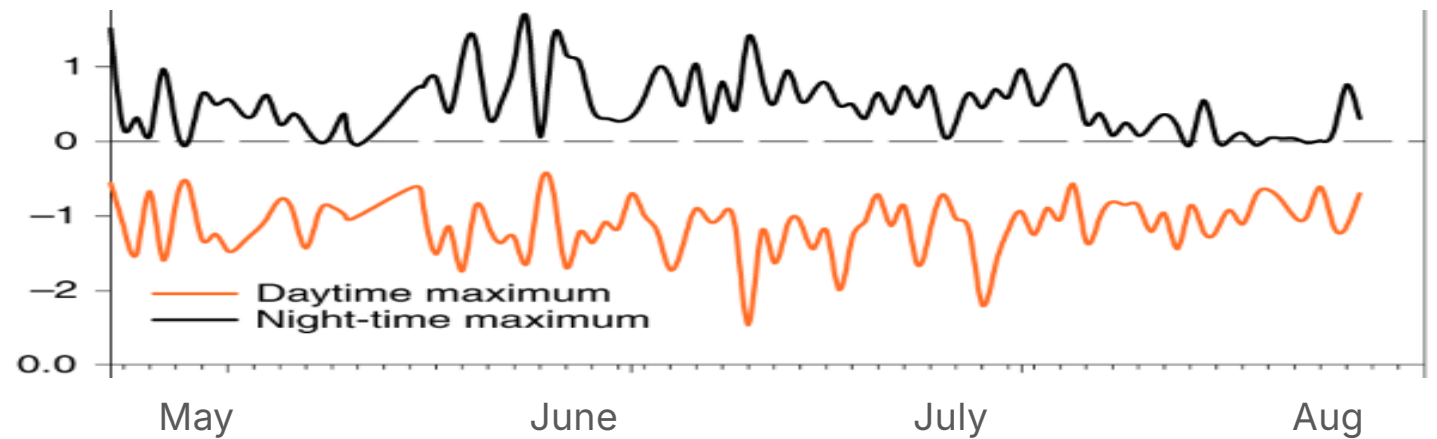
Heat Damage Decrease



APV Relative Nighttime Temp. from Open Field
0~1.5 °C ▲

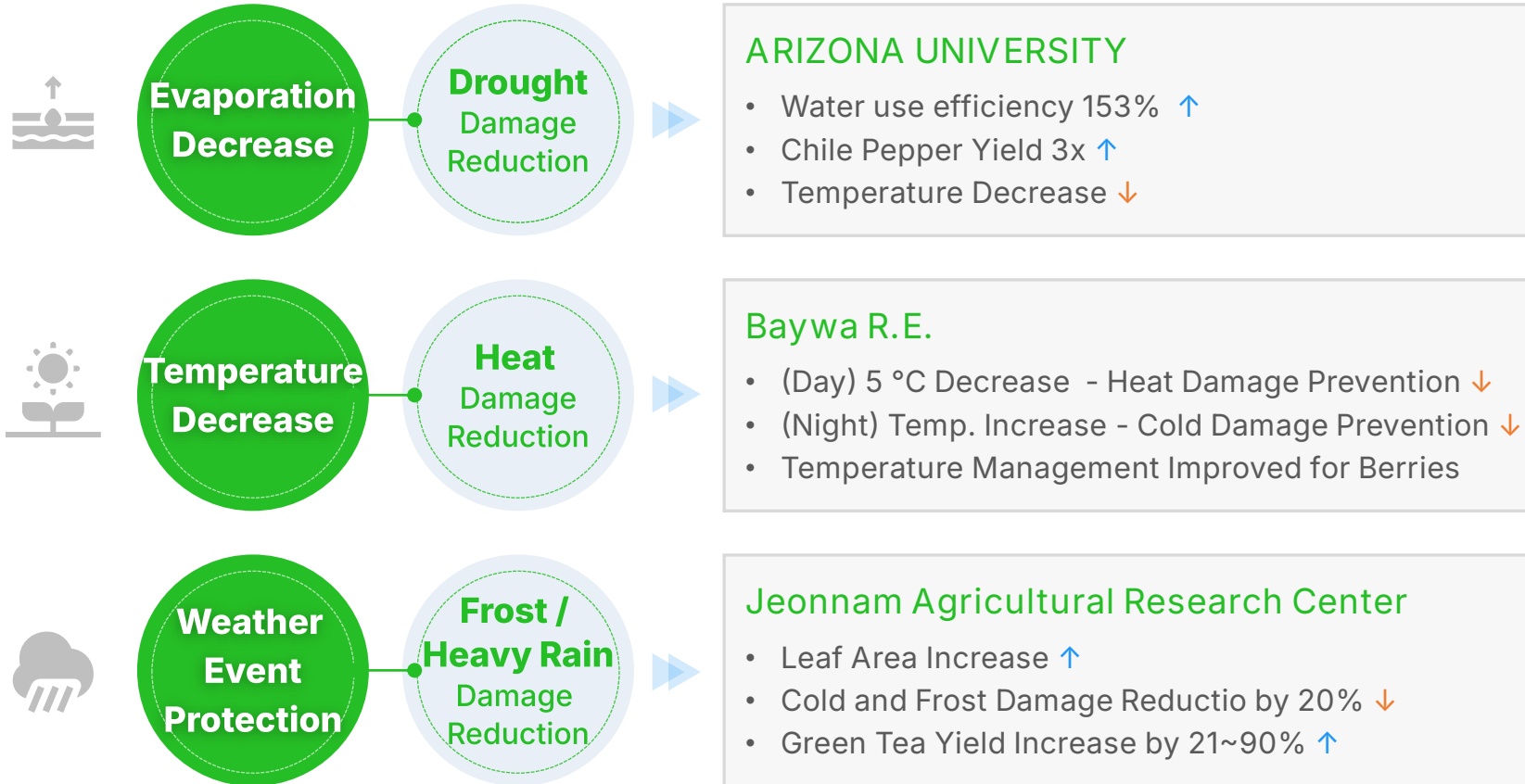
Cold Damage Decrease

Under APV Relative Temperature Compared to Open Field



Protecting Crops from Temperature Damage.

Case Study: Climate Damage Reduction



Effectively Reducing Temperature and Drought Damage

- For dynamic panel agrivoltaic, we provide AI algorithm-based real-time crop growth optimization service.
- Locking-in customers with our AI optimization and management service



* Analysis of Growing Degree Days (GDD) based crop growth and panel angle adjustment according to the temperature conditions under the APV



AI analysis on crop yield and power generation



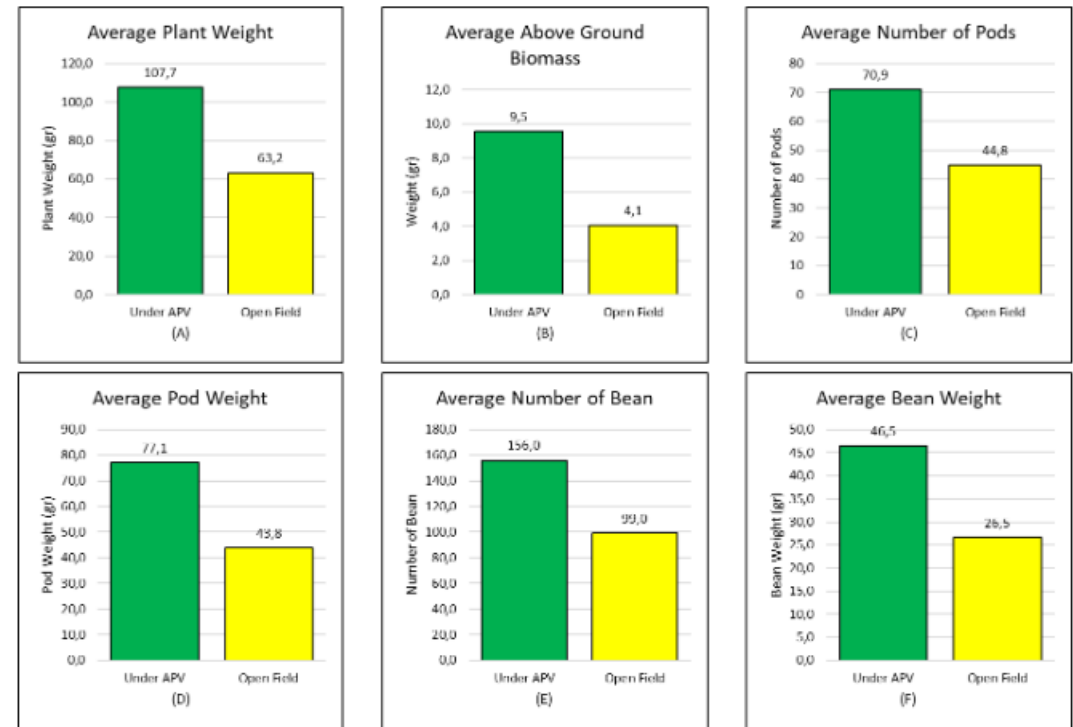
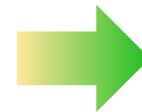
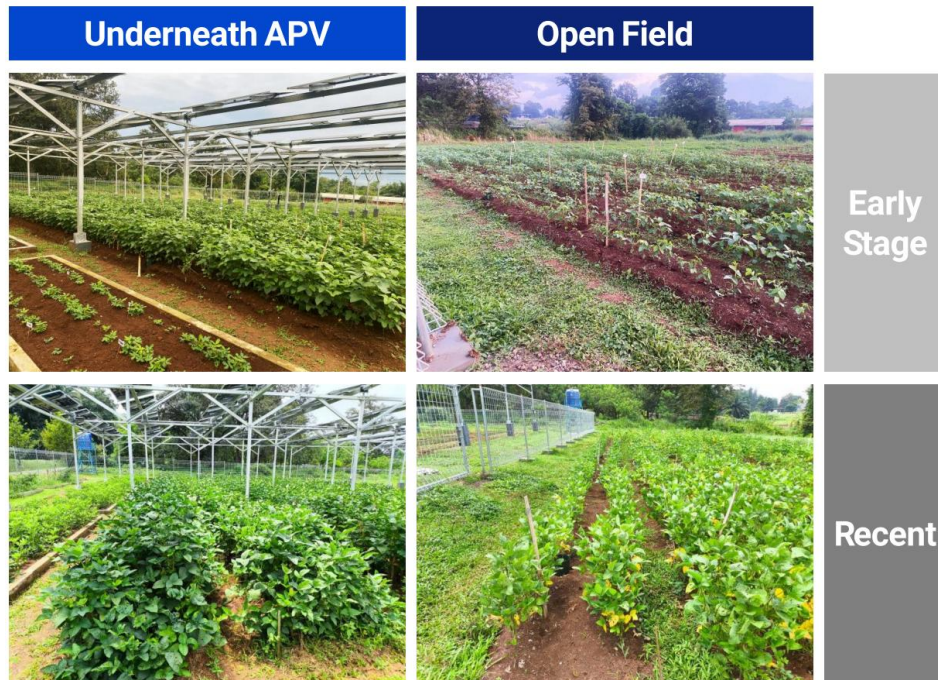
Optimizing microclimate for crop by changing panel angle



ENVELOPS - INDONESIA



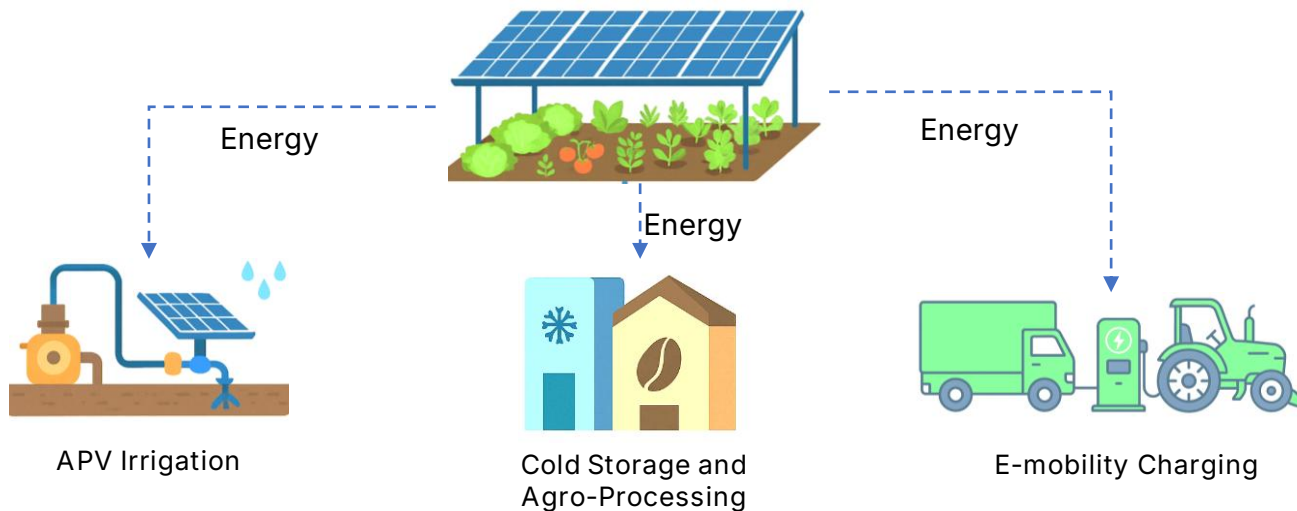
AI-based Agrivoltaic Technology, a Key Infrastructure for Global Agricultural Transformation



ENVELOPS Indonesia APV - Bean

ENVELOPS Indonesia APV - Bean

Agrivoltaics > Key Infrastructure for Future Agriculture



ENVELOPS' AGRIVOLTAIC NEXUS

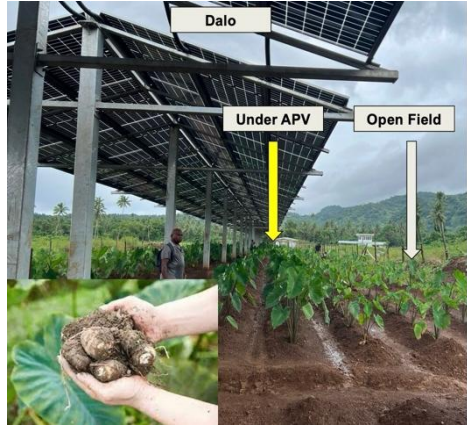


ENVELOPS INDONESIA AGRIVOLTAIC NEXUS

Agrivoltaic Powered Irrigation, E-mobility, and Agro-Processing



FIJI



INDONESIA



VIETNAM



JAMAICA



KOREA (19 sites, 2.2 MW)



Bring Light, Bring Life

We harness the power of light to regenerate the planet