



AGRO

Get more **FREE** energy
for increased food production

Ukrainian AGRO Technology

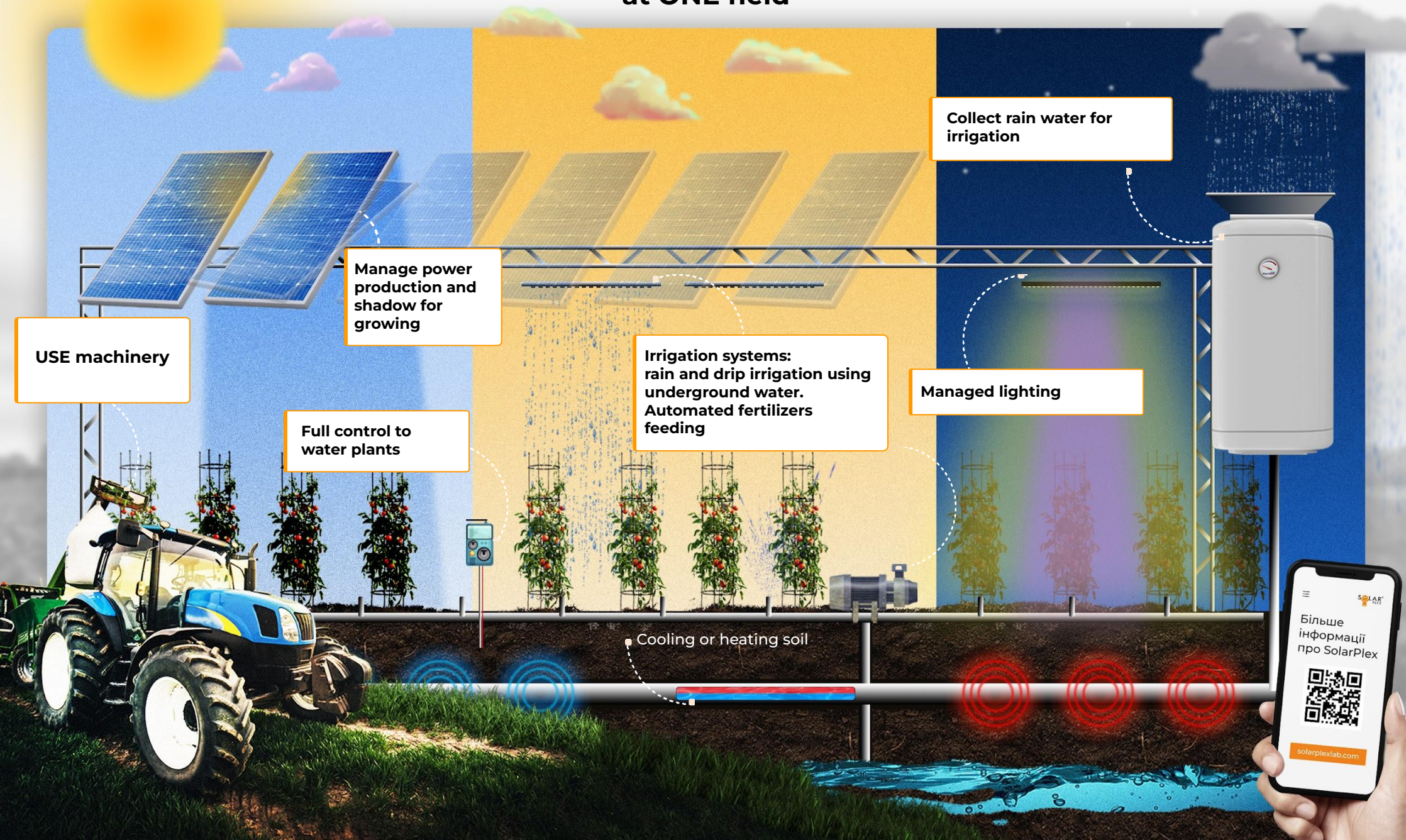


SolarPlex AGRO

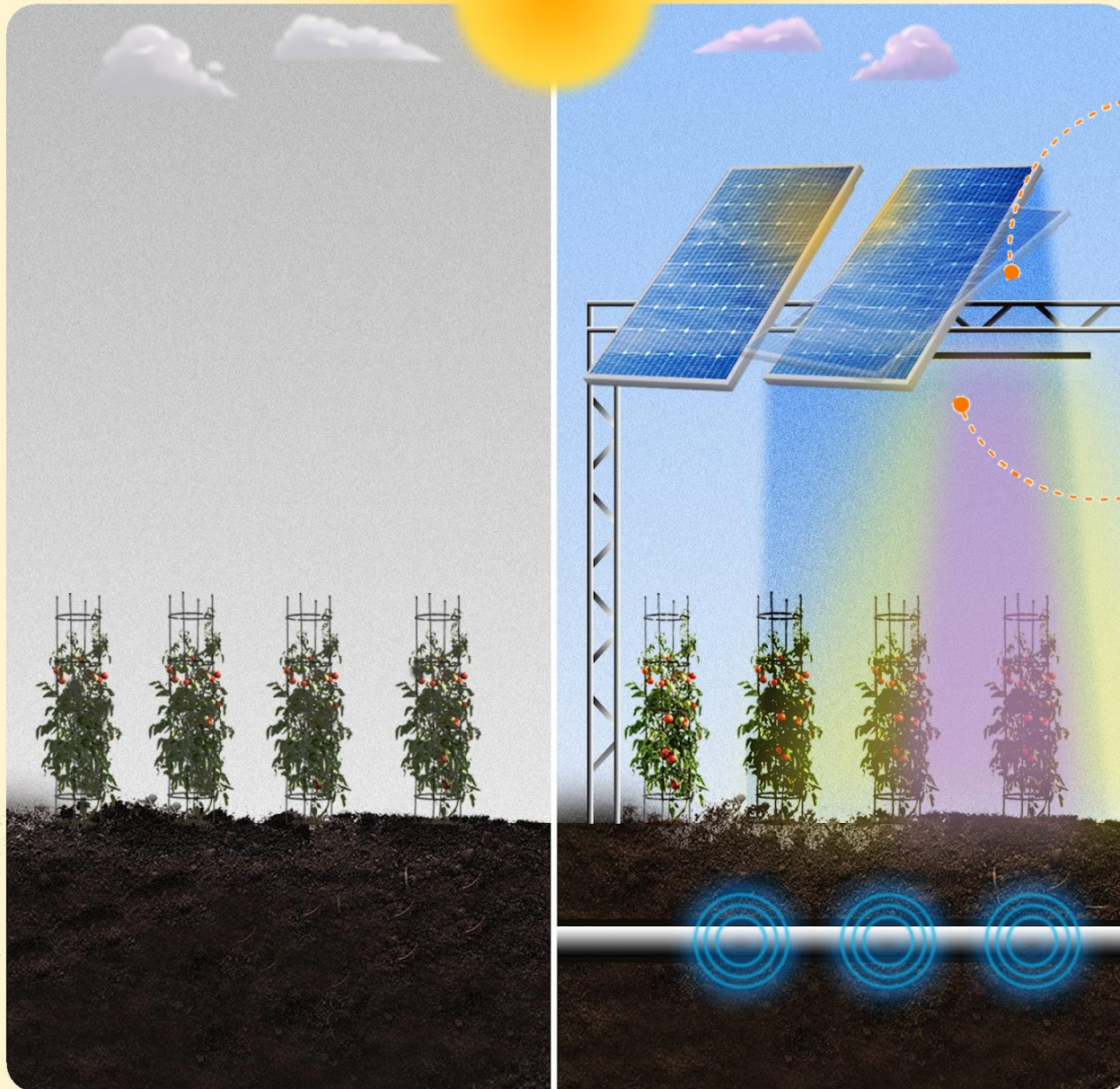
Get energy and grow 3x+ more food
at ONE field



AGRO



Light & shadow Benefits



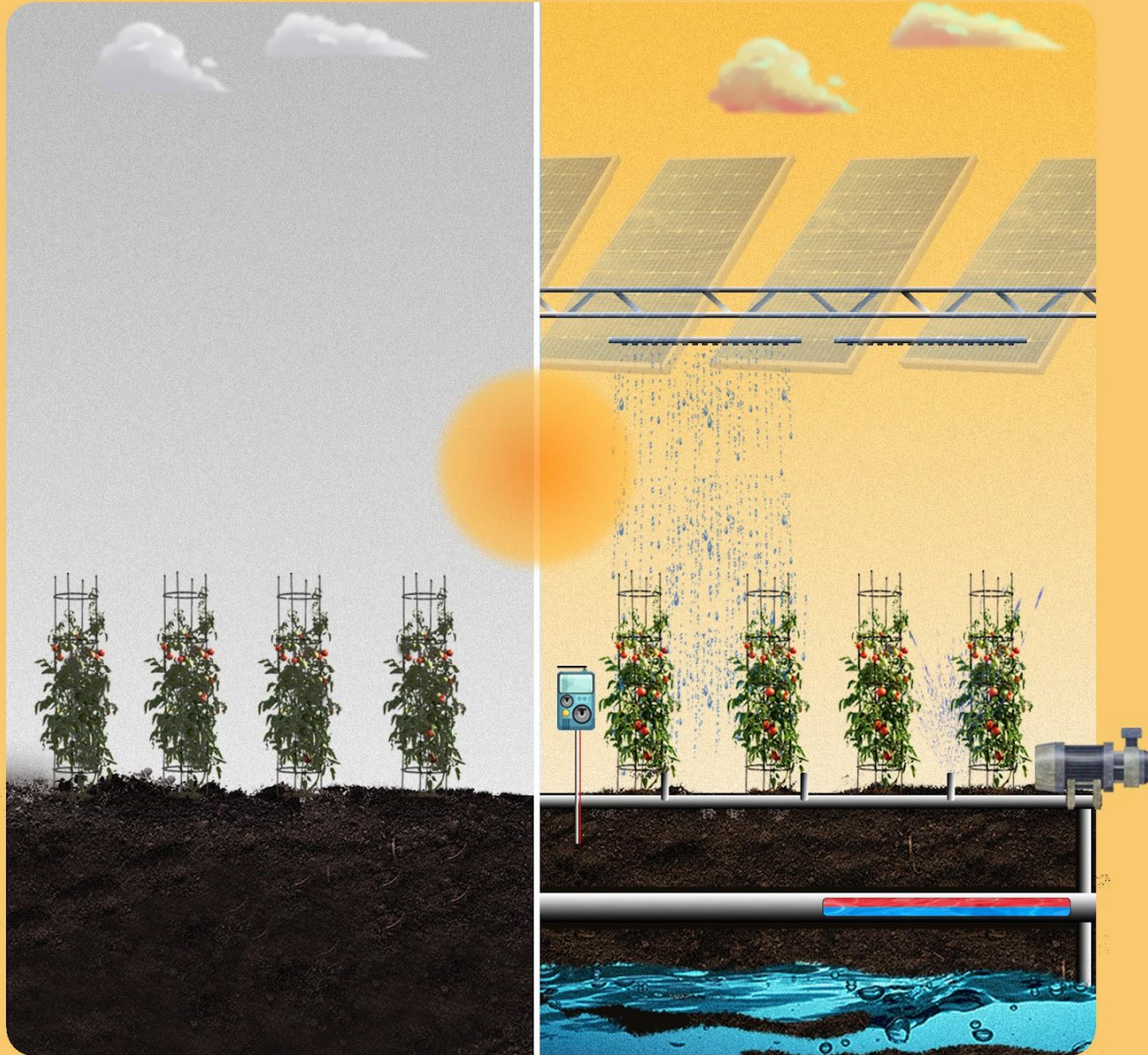
- **Managed shadowing**

SolarPlex panels change the angle of inclination, this allows partial shadowing of the plants, which prevents drying out and stores the moist in the soil due to less evaporation.

- **Managed color of lighting**

LED panels give necessary light spectrum to increase quality and growth of plants during day and night

Irrigation Benefits



Different irrigation systems

Rain mode and drip irrigation mode

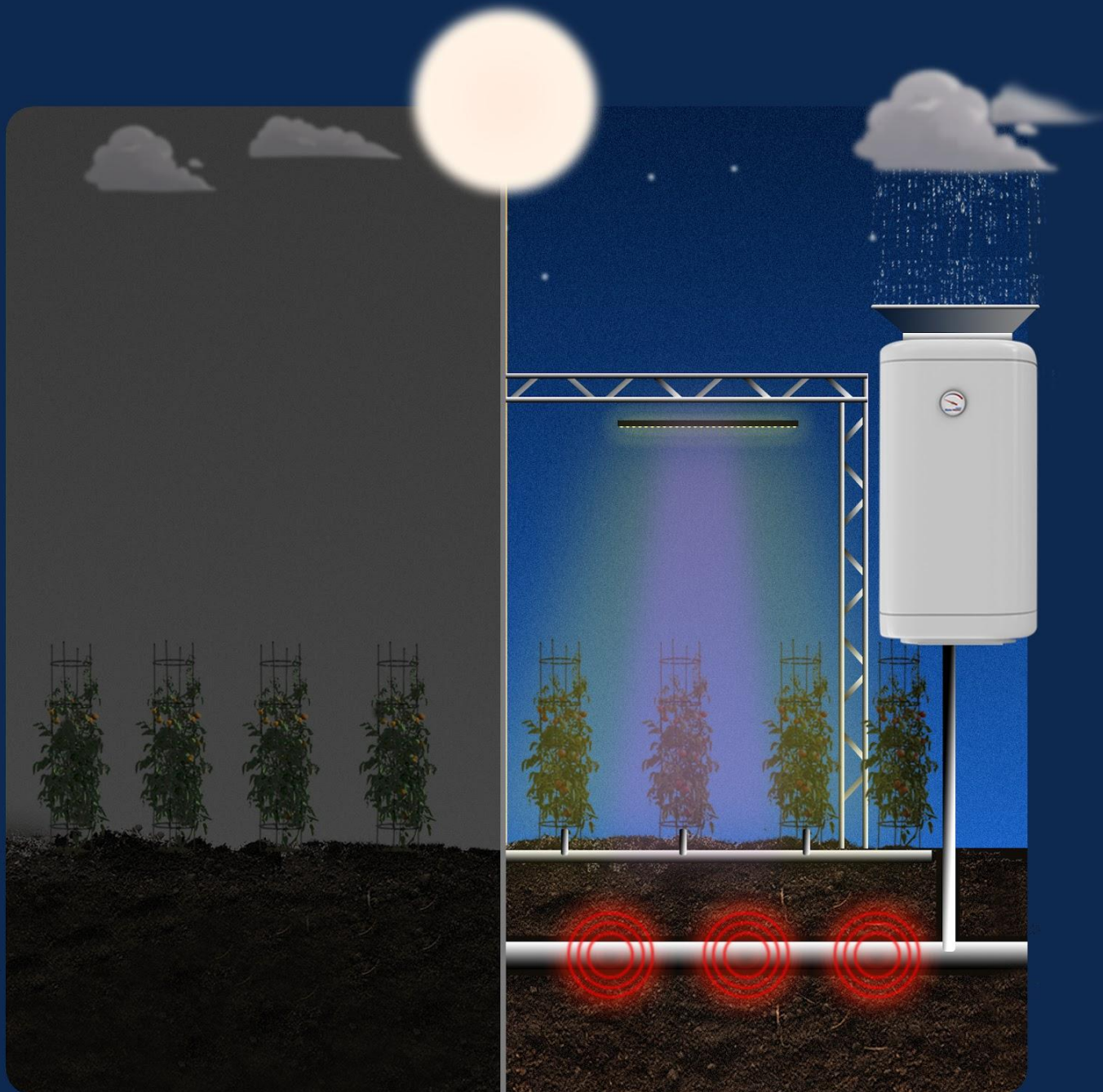
Underground water

Use underground water for irrigation with electrical pump system

Collect rain water

Collect rain water to tanks and use it for soil irrigation/cooling/heating when YOU need.

Soil Benefits



Manage and control soil temperature

The soil heating system prevents freezing and plants extinction

Manage and control soil temperature

The cooling system located in the soil prevents rapid drying and it's overheating.

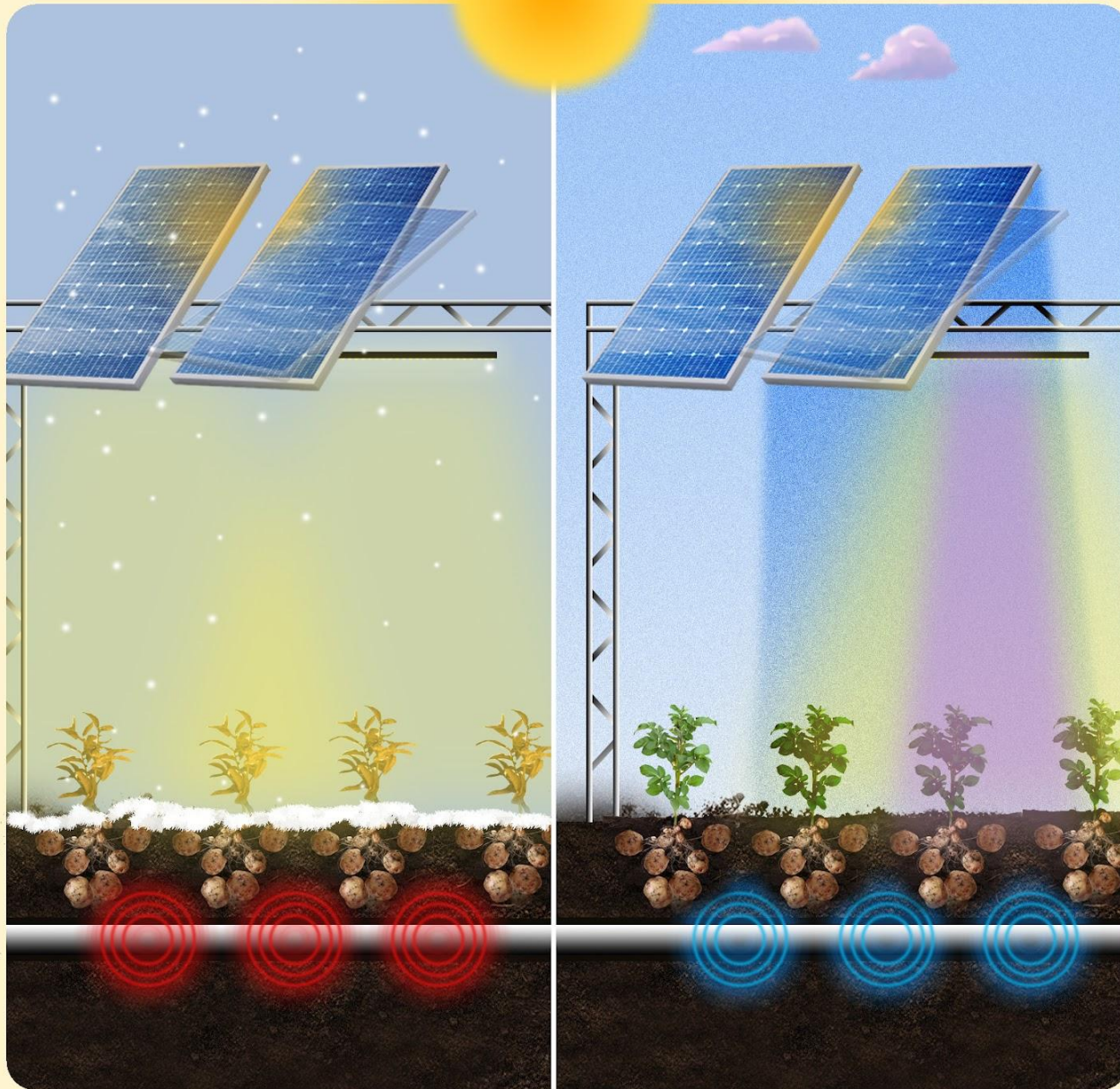
Full control and management of soil

Online monitoring of soil parameters allows online automatic management of soil chem condition, temperature and alerts about any issues

Temperature management Benefits

winter

summer



Soil temperature management

Creating a comfortable soil temperature for plants allows to harvest more during the season and to harvest several times in a year.

Panels productivity

Changing the angle of the panels allows you to create artificial shadow for plants and also increases the efficiency of the panel getting more time in the zone of sunlight.

compare growing technologies



plants	Open space field			Greenhouse			Solar Plex AGRO field		
	Average yield, c/he	quality	harvest times per year	average yield, c/he	quality	harvest times per year	average yield, c/he	quality	harvest times per year
Potato	85-200	100%	1-2	200-300	80-100%	1-3	200-500	100-120%	year round
Tomato	400-600	100%	1-2	600-1000	60-100%	2-3	1200-2000	100-150%	2-3
Cabbage	120-260	100%	1-2	600-1200	100%	2-3	1200	100%	2-3
Cucumber	160-200	100%	1-2	1000-1200	80%	2-3	2500-5000	100%	3
Onion	150-270	100%	1-2	600-1000	100-120%	year round	1000-2000	100-150%	year round
Carrot	190-420	100%	1-2	500-800	150%	year round	1000-2000	200%	year round
Zucchini	500-800	100%	1-3	>800-1000	150-200%	year round	>1000-2000	150-200%	year round
Wheat	38	100%	1	35-65	150%	2	50	150%	1
Sunflower	21,2	100%	1	35-42	150-200%	2	40	150-200%	1
Strawberry	150-250	100%	2	300-500	150-200%	year round	300-500	100-200%	2-3
Apple	200	100%	1	400-600	150-200%	1-2	400-600	200-300%	1-2
Grape	80-300	100%	1	300-600	150-200%	1-2	600	200%	1-2

Вплив умов вирощування найважливіших с/г культур на врожайність та якість продукції в Україні, %

Contacts



Helen Bahirova

Co-founder

+38-067-124-59-74
solarsimbio@gmail.com



Oleksii Kurhuzov

Co-founder

+38-067-486-80-48
kurguzov.alexey@gmail.com



Alex Riabtsev

Partner

+38-098-801-00-81
alex@alexrb.name



solarplexlab.com