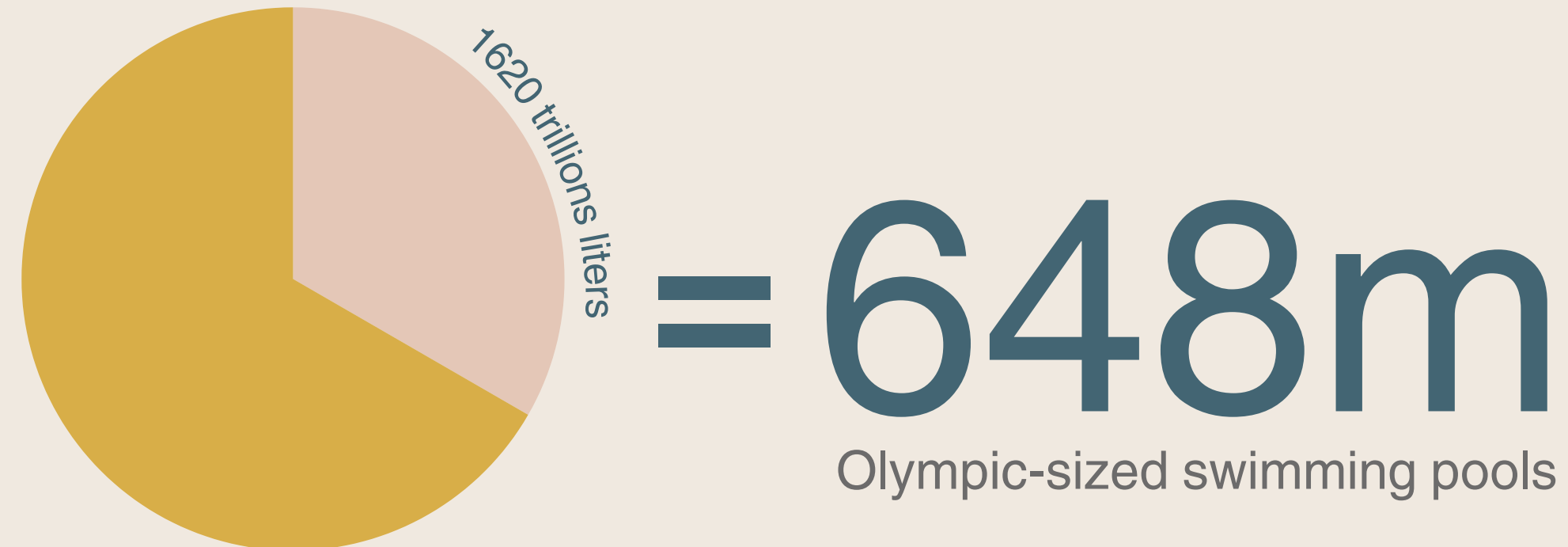




Every year, 1/3 of the of fresh water is wasted due to inefficient irrigation practices.

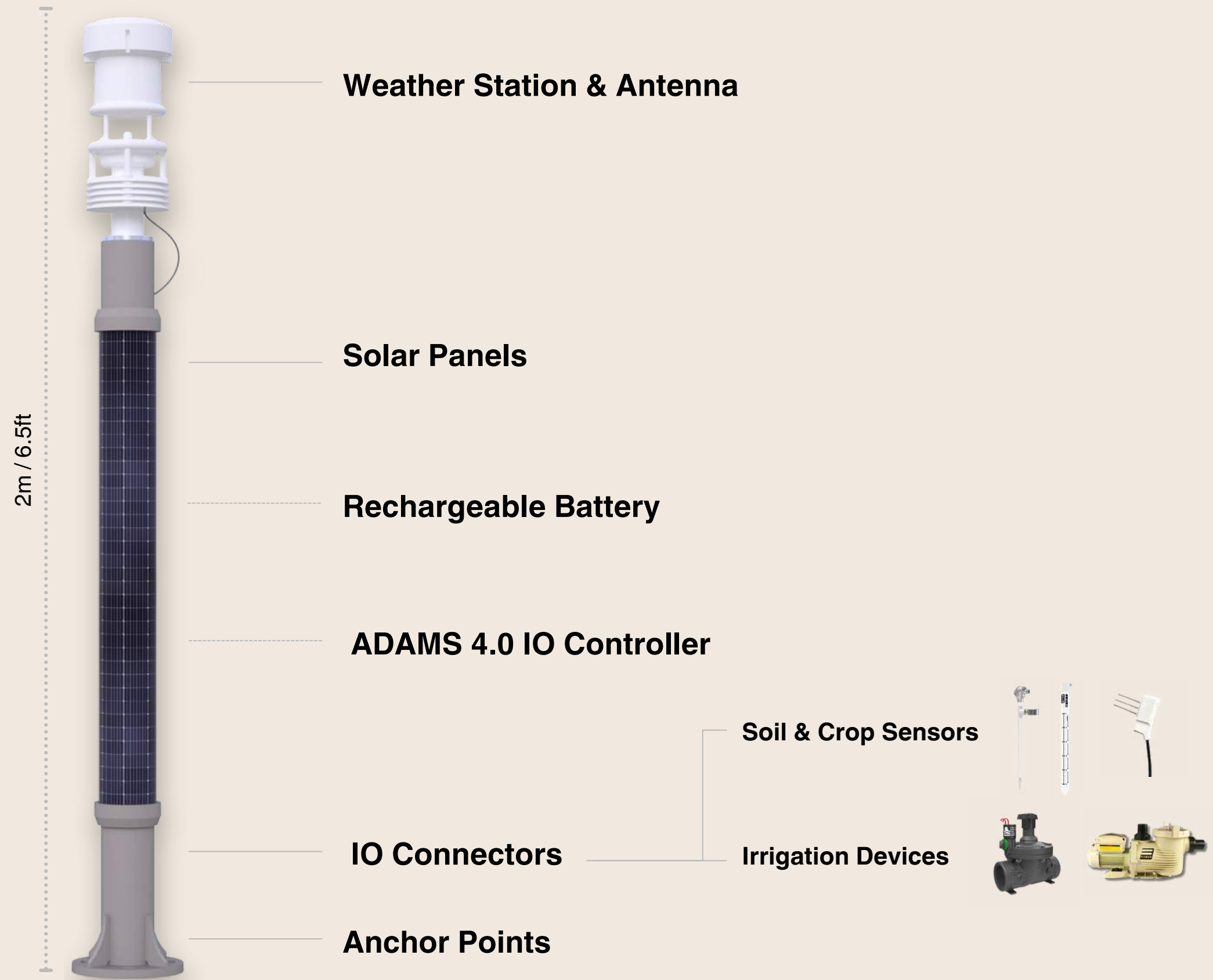


What is *Rocket 2.0*?

Rocket 2.0 is **a smart irrigation system** that adjusts watering schedules in real time based on **data**.

Designed for farmers / operators, it optimizes water usage, reduces energy costs, cuts down on labor expenses, and promotes healthier plant growth.

Compared to traditional timer-based systems, which dispense water at set intervals without considering changing weather conditions, Rocket 2.0 prevents the unnecessary waste of freshwater resources.



How Rocket 2.0 works.

1

Data collection

Rocket uses multiple sensors to gather climate, plant, and soil data, which it sends wirelessly to a central server.

2

Data processing

Our AI gathers these data, combining them with weather forecasts, it dynamically adjust the irrigation schedule in real time.

3

Irrigation control

The schedule is sent back to the Rocket 2.0 to adjust the irrigation devices, such as water valves and pumps.

Water usage is also measured.

1

DATA COLLECTION



Climate



Plants



Soil



Rocket 2.0

2

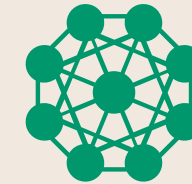
MACHINE LEARNING



Ai



Weather Forecast



Dynamic Irrigation Schedule

3

IRRIGATION CONTROL



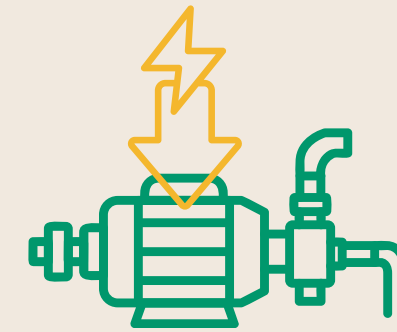
Performance

In our Hong Kong pilot project, Rocket 2.0 has achieved a 30% reduction in water usage, decreased labor hours by 40%, and minimized energy consumption from water pumps.

By automating repetitive tasks, operators can allocate more time to other activities within the gardens, leading to enhanced operational efficiency.

30%

Water Saving



Reduce Energy Consumption + Extending Lifespan



Reduce Labour Work



Increase Operation Efficiency



Healthier Plants



Rocket 1.0

Rocket 2.0 @ CES2025

Rocket 2.0 has won two awards and garnered dozens of media mentions and interviews. Among them, the **TechCrunch** interview generated the most attention and inquiries.

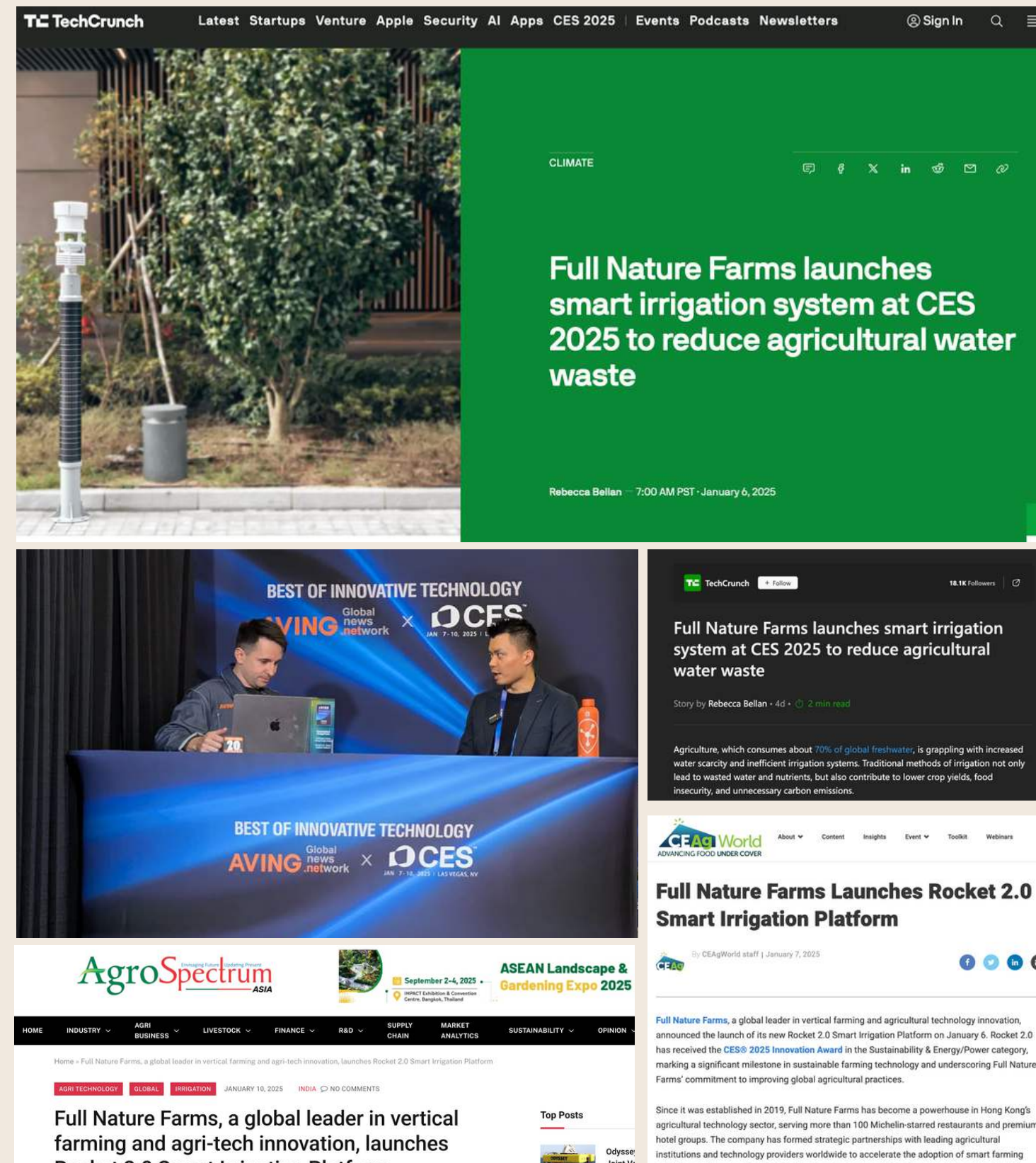
Even now, we continue to receive almost daily inquiries from around the world.

CES 2025 proved to be a highly successful launch for Rocket 2.0, highlighting the promising potential of the U.S. market.

Awards:



Social Media coverages:



Rocket 2.0 was also showcased at MWC 2025, generating dozens of concrete leads in the local market, further proving its global relevance and demand.

We have secured both PoC and commercial projects for Rocket 2.0, with many more in the pipeline.

The next major deployments will be at the *University of Georgia (Griffin)* and the *HKFYG Organic Farm*.



UNIVERSITY OF
GEORGIA



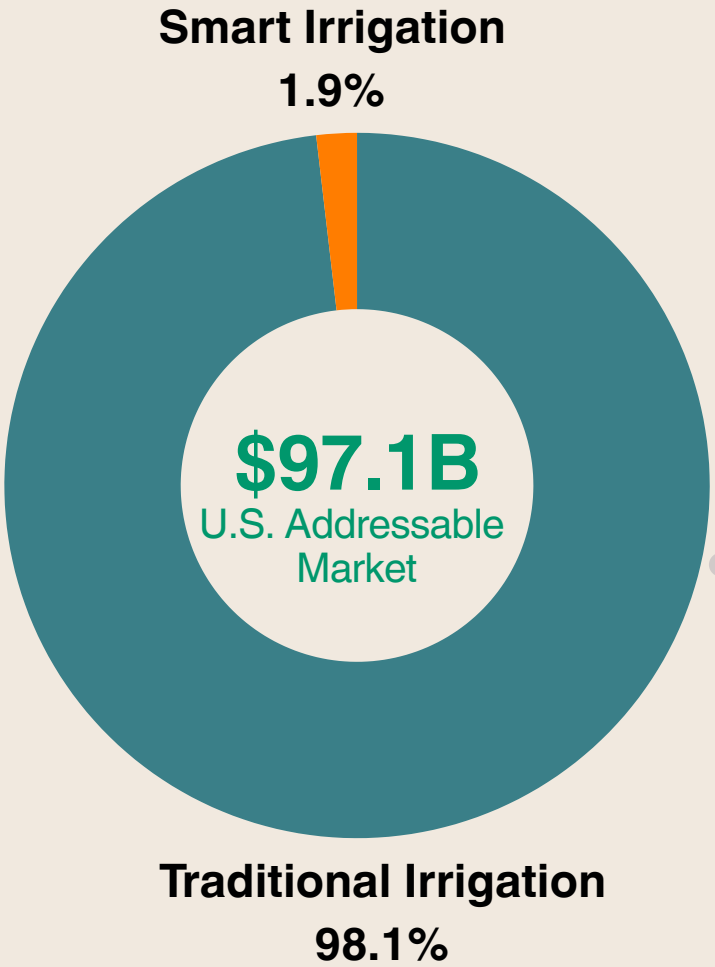
By implementing an innovative business model, we can effectively *eliminate* entry barriers for users.

	Sensor Cost (USD / pc)	Monthly Fee (USD / pc)	Irrigation Control (USD / month)	Future Proof (Upgradable)
 FULL NATURE FARMS	Free	\$20	\$10	Yes
 ARABLE	\$2,750	~\$100	No	No
 cropx	\$600 - \$1200	~\$40 - \$50	Undisclosed	No
 teralytic	\$750	~\$150	No	No

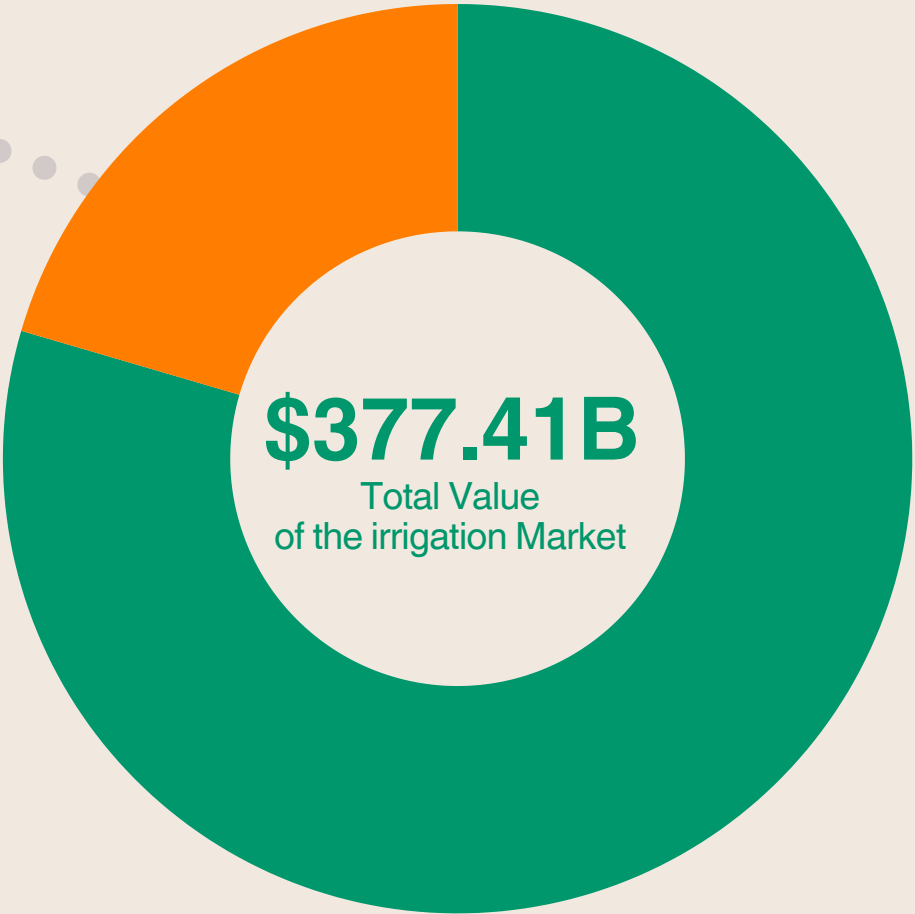
Irrigation is still an *old-school practice*,

highlighting the growth potential of the *Rocket 2.0* in the sector.

Using US's market data for reference.




U.S. Market Share
20.5%



Rest of the World
79.5%

570
million
farms worldwide



**The climate is changing
and the way we *irrigate*
needs to change with it.**

Us.

Our team brings together diverse expertise, ***from farmers to engineers***, enabling us to develop innovative solutions.

We have successfully completed dozens of EPC projects for governments, private entities, and universities, and we are now expanding globally.

Additionally, our local vertical farm supplies over 160 F&B customers since 2019.

Charlie Luchangco
Co-founder

Ray Lok
Founder & CEO

Willson Lee
Co-founder

Investors

Andrew Sheung
COO

Anny Cheung
CFO

Jason Tse
CTO

Rebecca Lau
Marketing Manager

Taco Liu
Sales & BD

Teresa Ho
Accounting

Eric Wong
System Designer

Farm Hands
FT x7

Ahbi Mandava
Electronic Engineer

Delivery Driver
PT x3

Celia Wong
Engineer

Wesley Wan
Engineer

Bex. Shala.
Engineer

Tomy Lin
UI/UX Designer

About the Founder

Ray Lok was born and raised in Hong Kong, where he attended local schools before pursuing a Bachelor's degree in Global Business at the University of Southern California.

He gained experience across various industries, starting as an intern at PCCW before working as a photographer for several summers. He later joined a design and trading studio and became involved in the garment and manufacturing business.

In 2013, Ray discovered his true passion for agriculture. He founded **Evergreens Republic** and established the first **USDA-certified organic** aquaponics greenhouse farm in Lau Fau Shan.

In 2018, Typhoon Mangkhut completely destroyed the greenhouse. In response, he launched a fundraising effort and founded **Full Nature Farms**, shifting his focus to indoor farming.

He is currently a committee member of **PolyU RiFood** and **SADF of AFCD**.



Agriculture, Fisheries and Conservation Department
The Government of the Hong Kong Special Administrative Region



Contact

Ray Lok

CEO & Founder

ray.lok@fullnature.com

+852-9856-9904

www.fullnature.com

Office:

Unit 617, 6/F, Building 19W, 19 Science Park West Avenue, Hong Kong Science Park

Farm:

Unit 9B, On Fat Industrial Building, 12 Kwai Wing Road, Kwai Chung, Hong Kong

LinkedIn:

