

# Light of Life: Product Innovation AI x XR Ed-Tech

Empowering Urban Ecosystem | Sustainability

Patents issued



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PROZPARITY ENERGY



# Intro - Cultivating Smarter Cities

*Where AI, Education & Sustainability Converge*

## Core Business

"We transform urban spaces into AI-powered, carbon-negative ecosystems using solar greenhouses with embedded XR education – turning buildings into living classrooms and sustainability engines."

## Vision

Cities where every building grows food, educates communities, and fights climate change.

## Vision

## Mission

## Mission

*Democratize sustainable innovation through gamified learning and self-powered urban farming.*



## User Value Proposition

1. AI x XR Ed-Tech: 5G-enabled AR "Virtual Farms" turn schools into climate labs.
2. Urban Ecosystem: Wireless retrofit kits activate rooftops as community farms.
3. Circular Sustainability: Blockchain-verified carbon credits + 40% energy savings.

# Problem Statement

*From Classrooms to Balconies, Tech Gaps Persist*

## Disconnected Ecosystems

1

**Siloed Systems:** Hardware, software, and community lack integration.

**Industry Gap:** No unified solutions for STEM education, smart gardening, and ESG verification.



### Complex & Costly Tools:

B2C: 65% abandon smart gardens due to poor AI guidance (Statista 2023).

Ed-Tech: Schools rely on theoretical apps, missing hands-on learning.

### Ed-Tech Scenario:

Zero hands-on energy/agriculture experience in schooling in schooling.

## Scalability Limits

**Regional Constraints:** 70% of Greenhouses only work in certain regions or circumstances ([AgTech Review 2024](#))

**Impact Issues:** Schools doubt green projects; urban farmers lack crop monitoring.



2



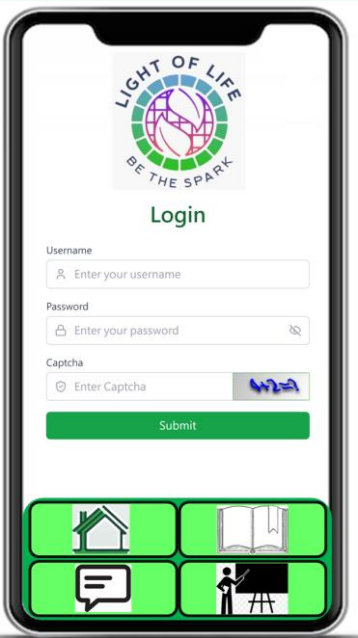
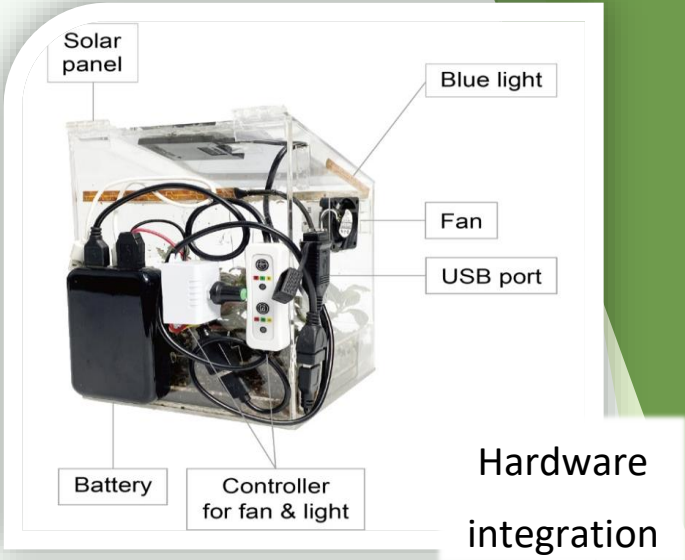
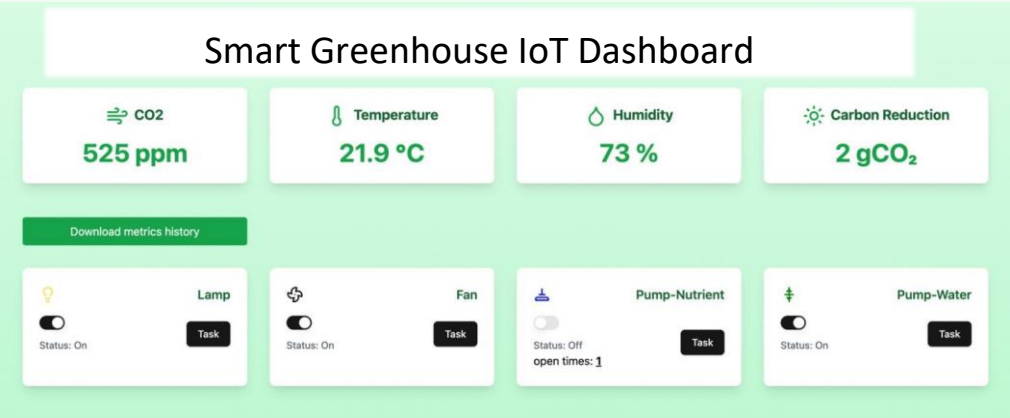
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## Inaccessible Climate Tech



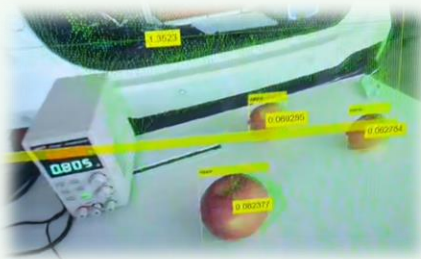


# Solution Overview



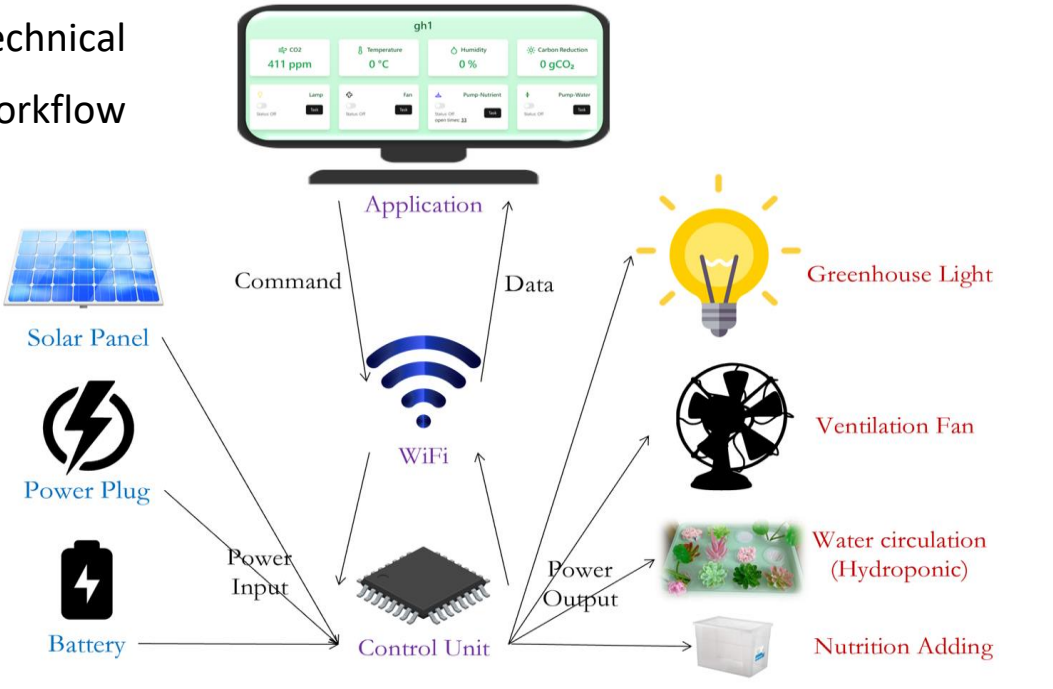
Login Interface

Control switches & monitor status  
+  
AI plant analysis



Software integration

## Technical workflow



# Technological Application

## AI- Climate Intelligence

### Optimizing Resources, Maximizing Yield

Adaptive AI algorithms harmonize HVAC, lighting & irrigation in real-time, cutting energy use by 40% while boosting crop yields 30%.

## Modular IoT Ecosystem

### Wireless Retrofitting for Zero-Disruption Upgrades

Plug-and-play sensors monitor soil, air, and energy flows, enabling non-invasive building conversions into smart greenhouses.

## 5G-Enabled Robotics

### Precision Automation for Urban Farms

Low-latency 5G controls pollination drones and harvesters (<0.5s response), slashing labor costs 50% in signal-challenged areas.



## Cyber-Physical Security

### Zero-Trust Protection for Critical Infrastructure

Encrypted device-to-cloud pipelines with intrusion detection safeguard robotic controls and sensitive crop data.

## Blockchain-Verified ESG

### Transparent Carbon & Resource Tracking

Tamper-proof ledgers quantify solar generation and CO<sub>2</sub> sequestration, generating certified carbon credits for buildings.

## Edge Computing Micro-Servers

### On-Site Data Processing for Resilience

Solar-powered edge nodes process crop analytics locally, reducing cloud dependency and ensuring 99.9% uptime for critical operations.