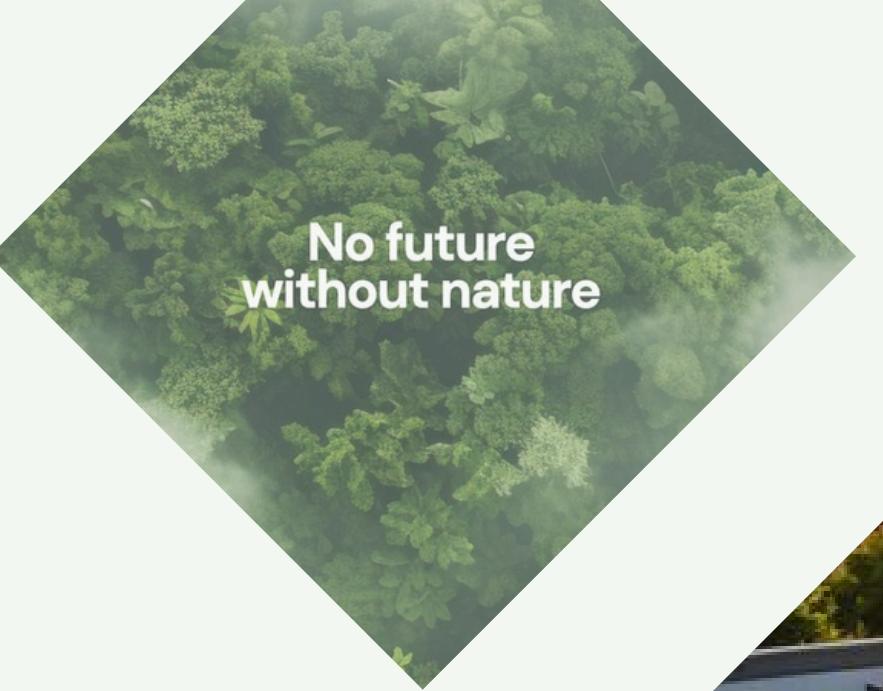


SolarSweep

Safer. Smarter. Faster.



No future
without nature





Meet Our Team



Manmeet kaur



Dinky Gondhale



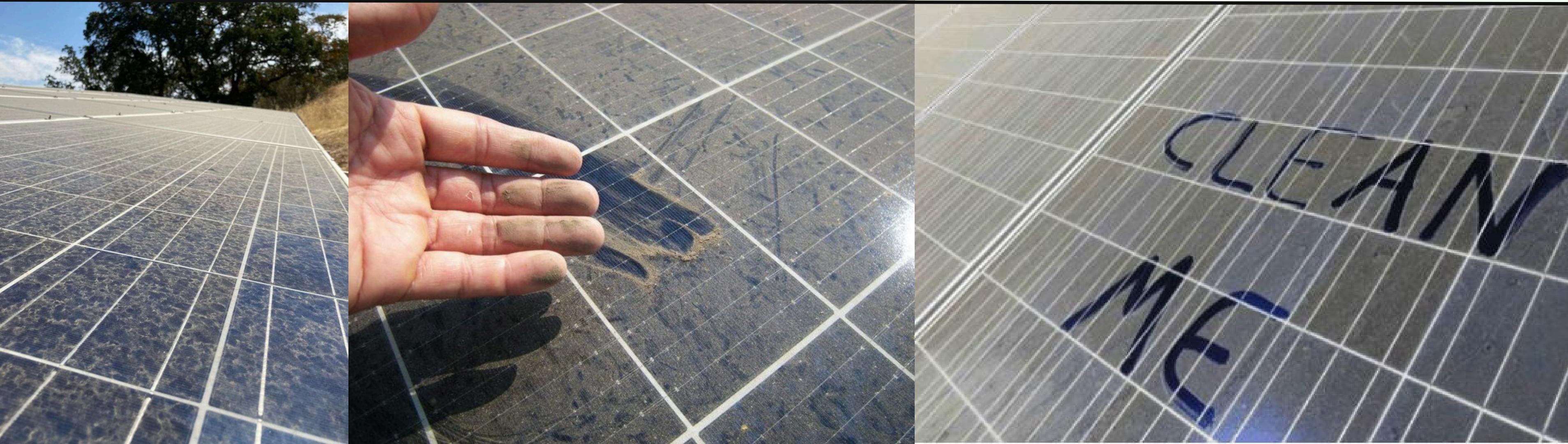
Shashwat Reshme



Priyam Soni

The Problem

Solar panels get dirty often, reducing energy output and costing homeowners money, but the current cleaning methods are unsafe, expensive, or inconvenient.



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“Solar farms lose up to 50% efficiency from dirt – that’s billions of dollars wasted every year.”



Market Opportunity

- By 2050, Australia will need 250 GW of solar power. Without cleaning, we'll waste the equivalent of \$75 billion in capital.
- The solar cleaning market today is already worth up to \$2 billion globally. By 2050? \$29 billion.



Current Solutions

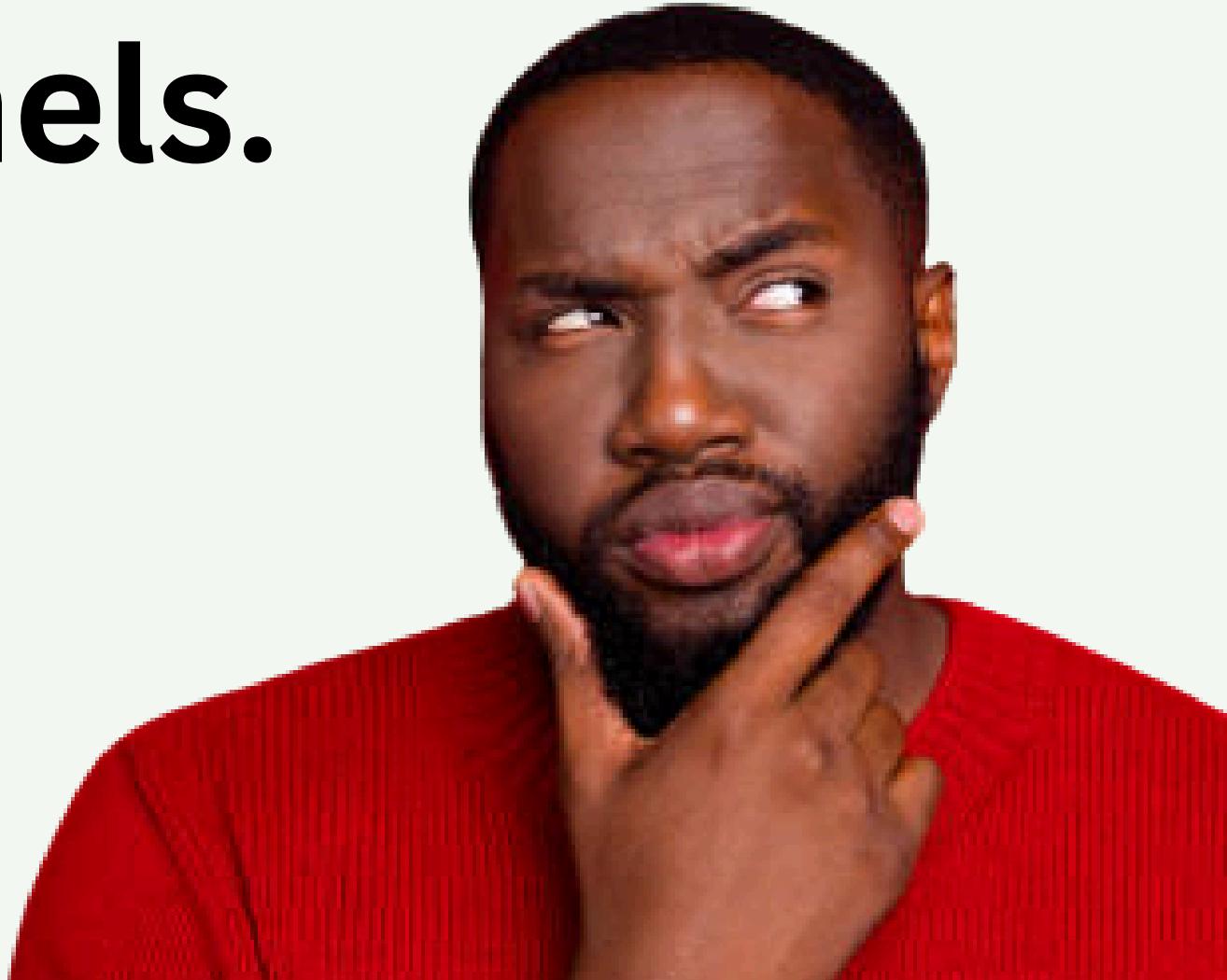
Manual cleaning: Unsafe and costly.
Vehicle/robotic cleaning: Limited access and high maintenance.
Hydrophobic films: Partial effectiveness and high cost.





What is the Gap?

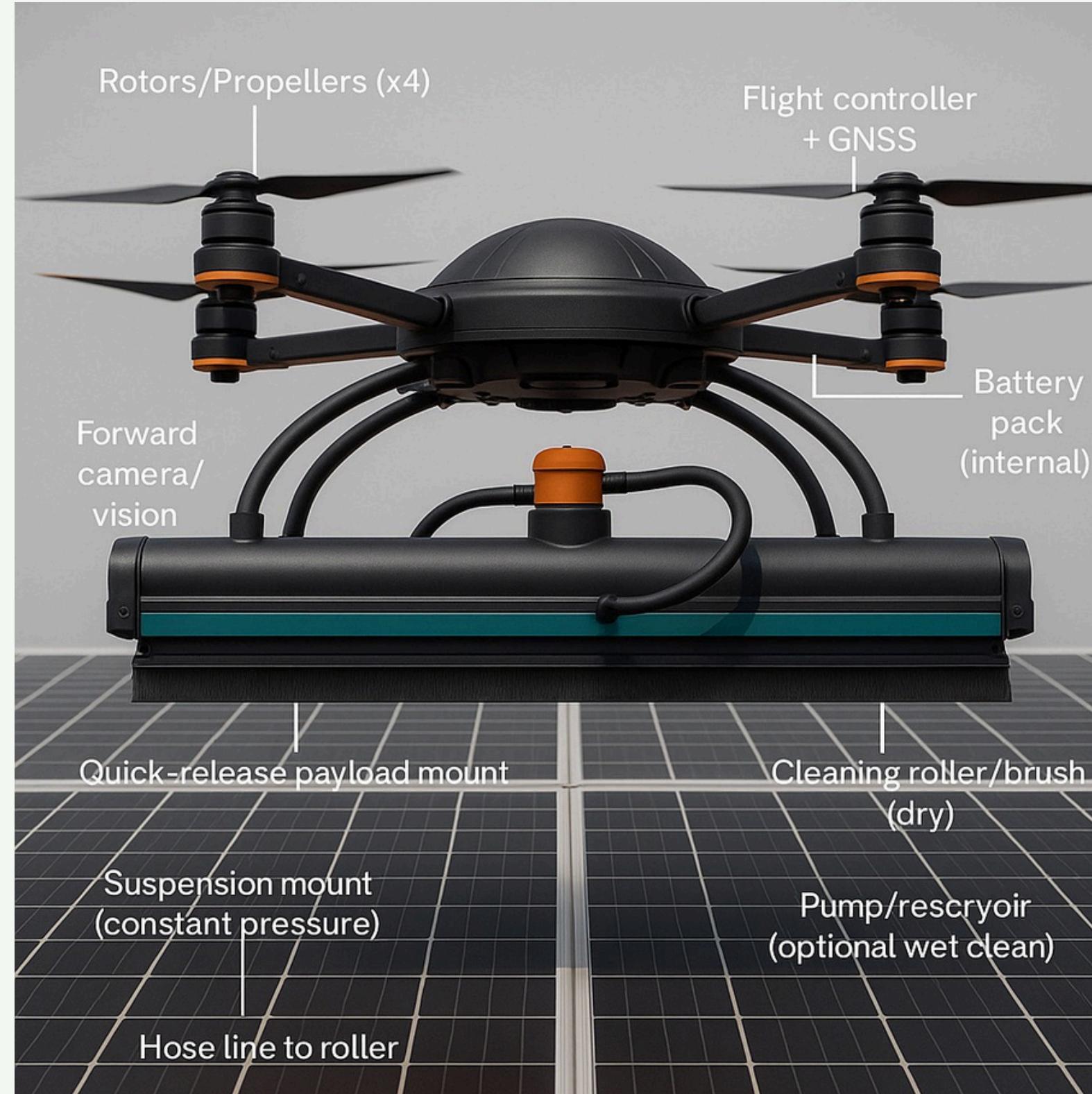
There's no affordable, efficient, and convenient solution for regular cleaning of residential solar panels.





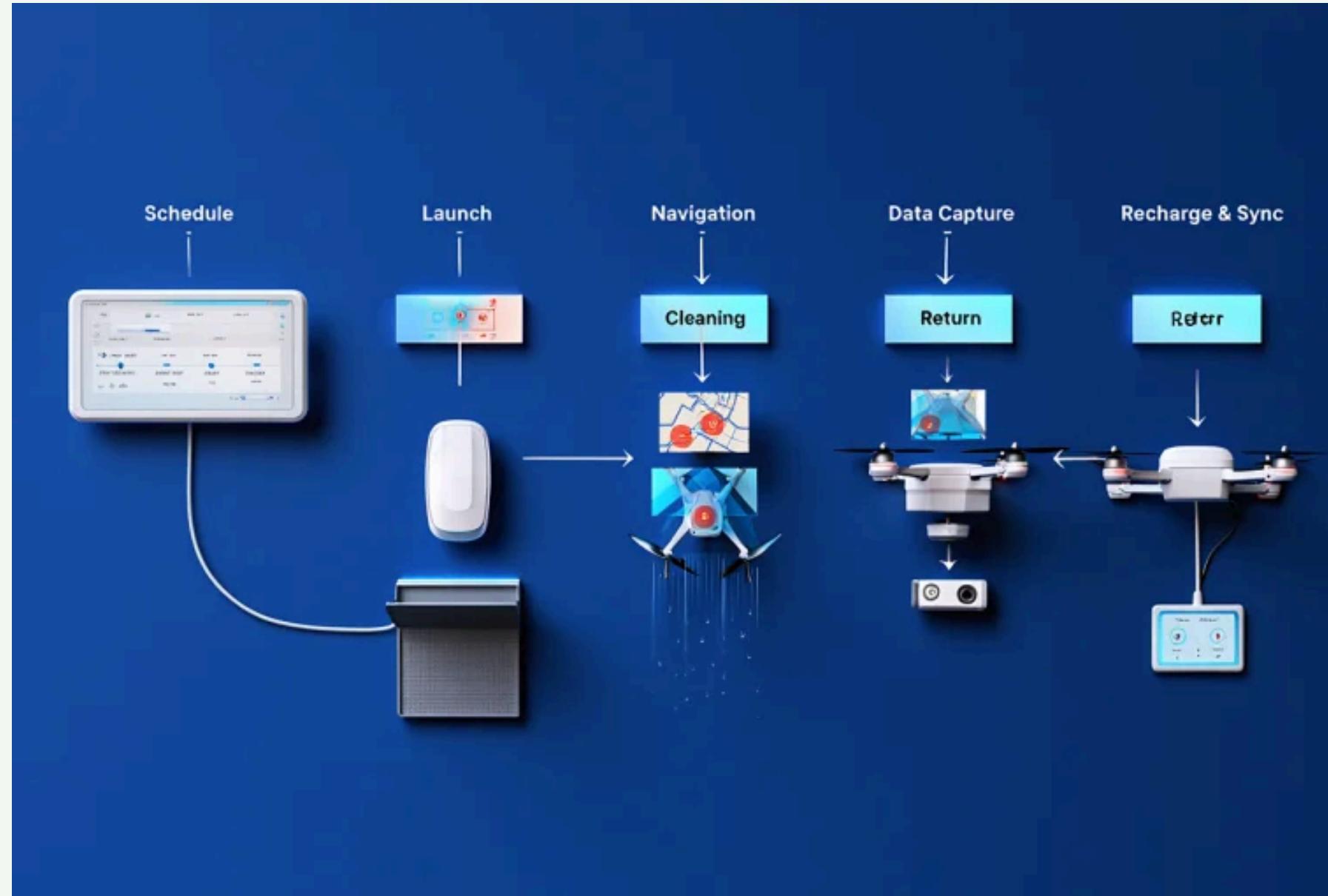
Our Hero – SolarSweep

- Autonomous drones that clean panels with AI navigation and water and brush technology.
- They deliver before-and-after images, real-time reports, and charge from a portable dock that plugs into standard AC.



Technology

- Core Components of SolarSweep
- **Drone Unit** – Propellers for flight, rotating brush, water tank, lithium battery
- **Computer Vision** – Cameras + image detection for dirt, GPS + sensors guide cleaning.
- **Docking Station** – Recharges battery, refills water (Pro), uploads data
- **Dashboard** – Schedule cycles, monitor cleaning, generate efficiency report



Workflow

- **Schedule:** Operator sets cleaning cycle via dashboard
- **Launch:** Drone deploys from docking station
- **Navigation:** AI & GPS map panels, detect dirty zones
- **Cleaning:** Rotating brush + optional water sweep panels
- **Data Capture:** Cameras log before/after images
- **Return:** Drone flies back to docking station
- **Recharge & Sync:** Battery recharged, data uploaded to dashboard



Form

Drone Unit

- Lightweight carbon-fiber X-frame for stable flight
- Integrated water tank and rotating brush for panel cleaning
- Foldable arms and propellers for portability
- Onboard sensors and cameras for mapping and imaging

Docking Station

- Compact, weatherproof pod with sloped roof
- LED status bar for mission and charge status
- Magnetic pogo-pin charging system
- Side refill port for water top-up

Water System

- Smart-controlled tank releases water only when needed
- Nozzles integrated near brush for targeted cleaning



Business Model

- Scale and stability.
- Recurring revenue from subscription-based drone control software and long-term O&M contracts.
- Costs include R&D, compliance, and operations.



SolarSweep Standard

For Residential owners : Price around \$4000

Water capacity : 2 litre

Manual navigation

Battery life : 45 mins - cleans upto 20 panels



SolarSweep Pro

For Large scale solar farms and enterprises :

Price around \$10,000

Water capacity : 6-7 litre

Battery life : 1.5 hours - cleans unto 60 panels





Target Audience

Primary Target Audience

- Homeowners with rooftop solar panels
→ They want to save money on electricity and keep their panels working at full efficiency without climbing onto roofs.

Secondary Target Audience

- Small businesses with solar installations
- Offices, shops, and warehouses that rely on solar to cut costs.
- Solar installation & maintenance companies





Vision & Mission

Our vision

Unleash the full power of the sun.

Our mission

Maximise solar efficiency through autonomous,
sustainable cleaning.





SolarSweep

Thank You!

We look forward to building a sustainable and profitable future together.

