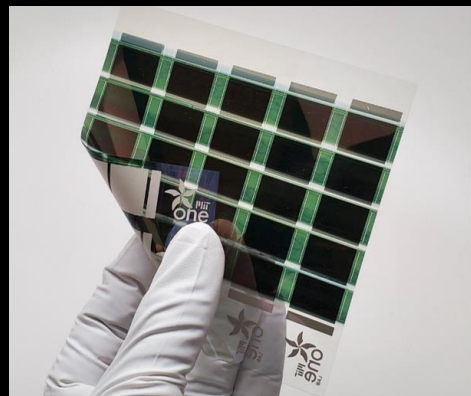


# ACTIVE SURFACES

## ULTRALIGHT FLEXIBLE THIN-FILM SOLAR FOR THE BUILT ENVIRONMENT

Target segment: Low-load commercial warehousing and community solar



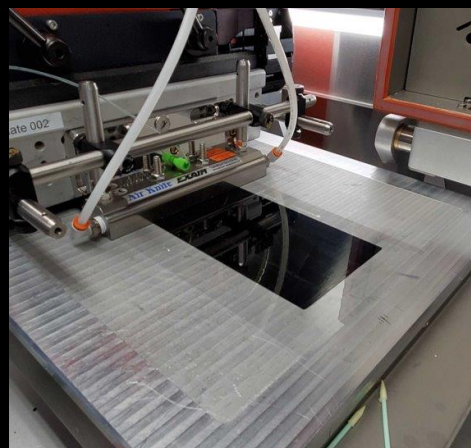
Our thin-film flexible technology will unlock terawatts of dual land use solar deployment

### Compared to conventional solar panels

- 120x lighter
- Significantly lower BOS and labor costs
- Competitive LCOE at scale
- Flexible form factor allowing new applications
- Mechanically flexible for rollable deployment

### Compared to other thin-film and perovskites

- 20%+ efficiency
- Significantly lower module cost
- Glass-free, flexible packaging
- *Single junction vs Tandem*
- *Solution processing vs Vacuum*
- *Built Environment vs Utility Scale*



Co-founded by **Dr. Richard Swartwout** (MIT PhD) & **Shiv Bhakta** (MIT MBA/MS) in 2022 at MIT



### Significant momentum to date

- Selected in renowned Climate Tech accelerators
- Awarded multiple entrepreneurship prizes
- Backed by Boston-based VC fund (pre-seed)
- 1 JDA & 2 pilot partnerships under discussion



### Innovation are IP protected (6 licensed patents)

- **Manufacturing:** High speed roll-to-roll slot die allowing manufacturing cost reduction at scale
- **Packaging:** In-house substrates enabling thinner durable packaging and limited delamination
- **Materials:** Perovskite chemical, solvent and passivation with high efficiency (MIT record: 25.2%)

**WE NEED YOUR HELP TO DERISK, PILOT, AND SCALE!**

**TECHNOLOGY GOAL: Demonstrate an efficient (>18%), low upfront cost (<\$0.5/W), economic (\$0.2/kWh) lightweight (200W/kg), mechanically flexible perovskite module**

