



Hunter McDaniel, PhD  
Founder and CEO  
Los Alamos, New Mexico

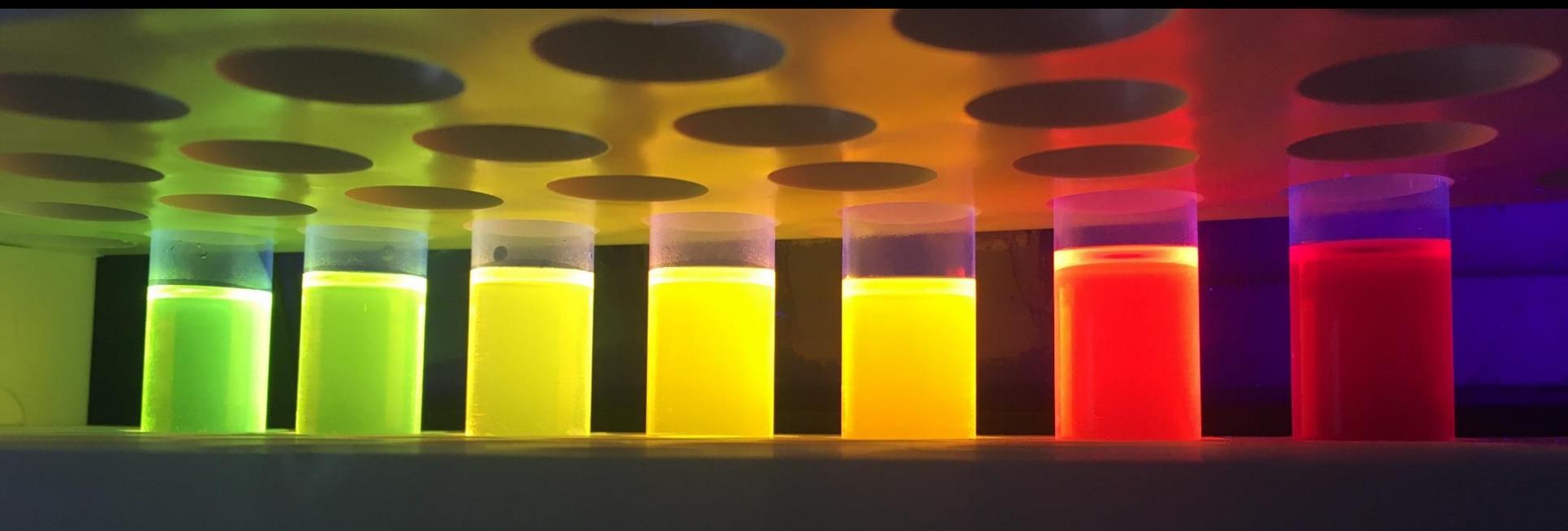
# ABOUT THE COMPANY

- LLC founded in 2014
- Located in Los Alamos, NM
- Licensing M.I.T., Los Alamos National Laboratory, and University of Washington tech
- \$1.3M raised, \$1.0M grants
- 2017 revenues > \$500,000
- Funded JDA (\$1M/2.5yrs)
- Team: x5 PhDs, x3 MBAs



# QUANTUM DOTS

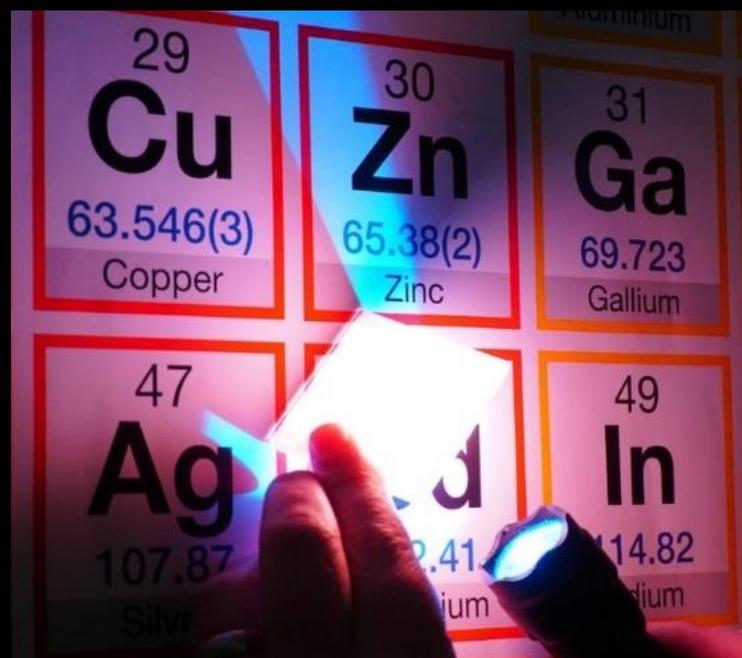
- Quantum dots reshape how we use color and light
- Our patented QDs are safer, cheaper, and more stable



# PLATFORM TECHNOLOGY

## Markets Served:

- Ag-tech/Greenhouses ←focus
  - Partnership talks, IP
- Solar windows ←focus
  - NSF SBIR, IP
- Security Inks for banknotes
  - Funded JDA partnership, IP
- Solid-state lighting/displays
  - DOE SBIR, IP
- Medical imaging
  - NSF/NIH SBIR, IP



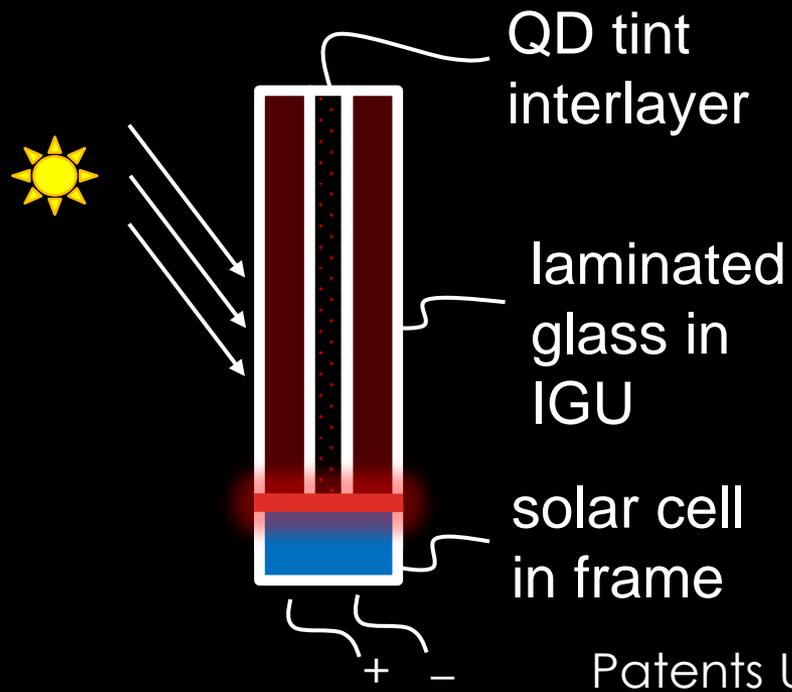
# VISION

- QD 'killer app' enables windows to generate electricity
- Power smart cities of the future with glass on skyscrapers
- More efficient greenhouses agriculture (first market)



# QD-TINTED SOLAR WINDOWS

- 1. Proprietary QD window tint absorbs sunlight
- 2. Glow from QDs is trapped in the glass
- 3. Light is channeled to solar cell in the frame



→ 2.7MW  
(77 floors)

# PRODUCTS

- ‘Drop-in’ QD products compatible with existing value chains
- Today we sell QD powder and QD-polymer sheets
- Window products are in development: (1) low-cost QD ag films for greenhouses, (2) Laminated QD-glass for windows



# SMART CITY MARKET SIZE

- Global flat glass industry = \$80B
- Building integrated PV industry = \$13B
- Buildings total addressable market = \$5B



# B2B BUSINESS MODEL

1. Sales of QDs and QD composites to industry partners
2. Licensing application technology

# NEXT MILESTONES

Scale up manufacturing to supply pilot projects (2017)

Joint development partnerships (2017-2018)

Pilot projects – greenhouses & windows (2018-2019)

Series A including strategic investor (expected mid 2018)

Launch first greenhouse product (spring 2019)

Launch commercial buildings product (2020)

Other products (security, medical, lighting) (2020+)

# OUR FACILITIES

134 Eastgate Dr, Los Alamos, New Mexico, USA  
9,000 ft<sup>2</sup> facility, high bay, lab space, 25+ people

