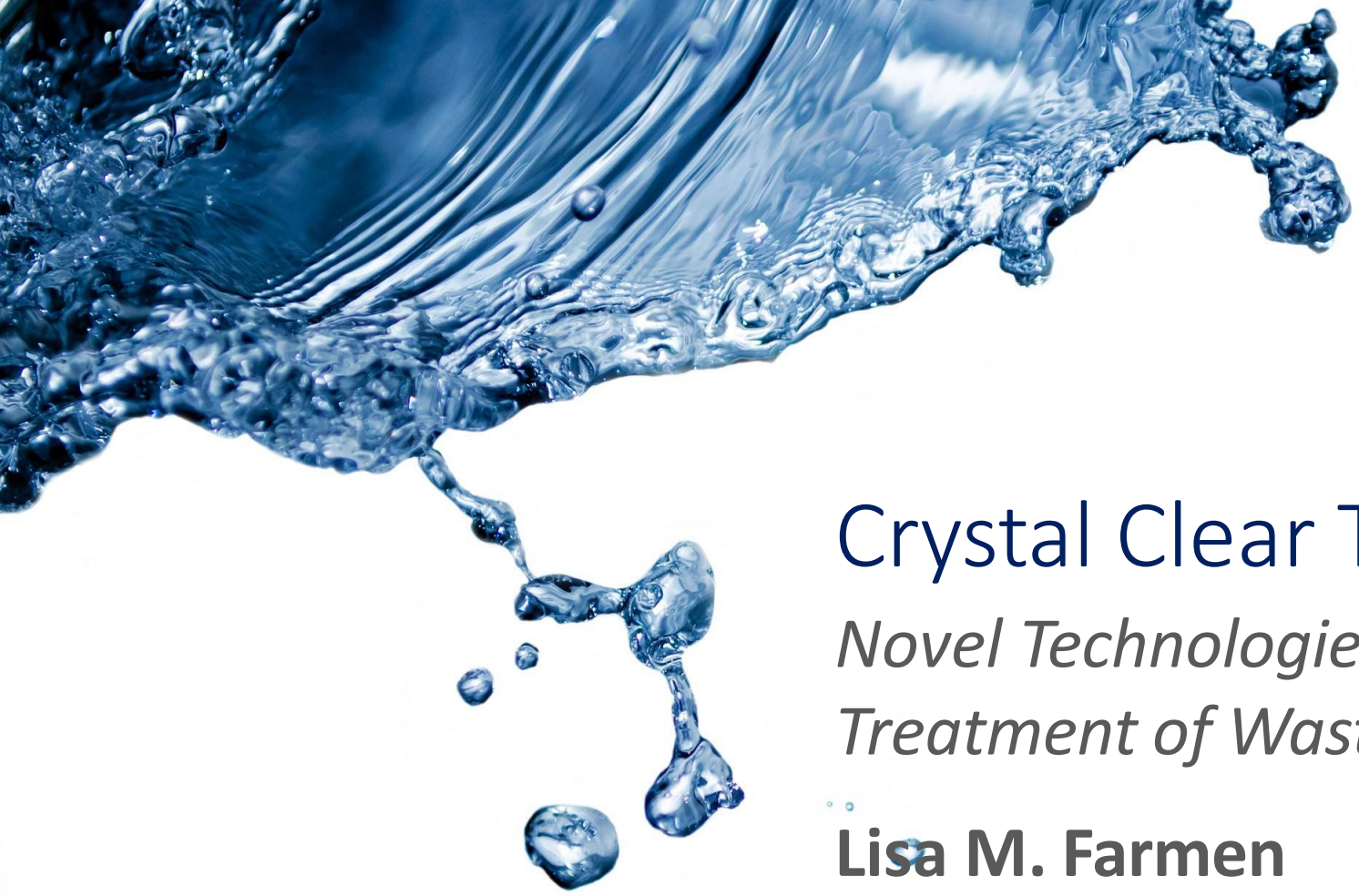
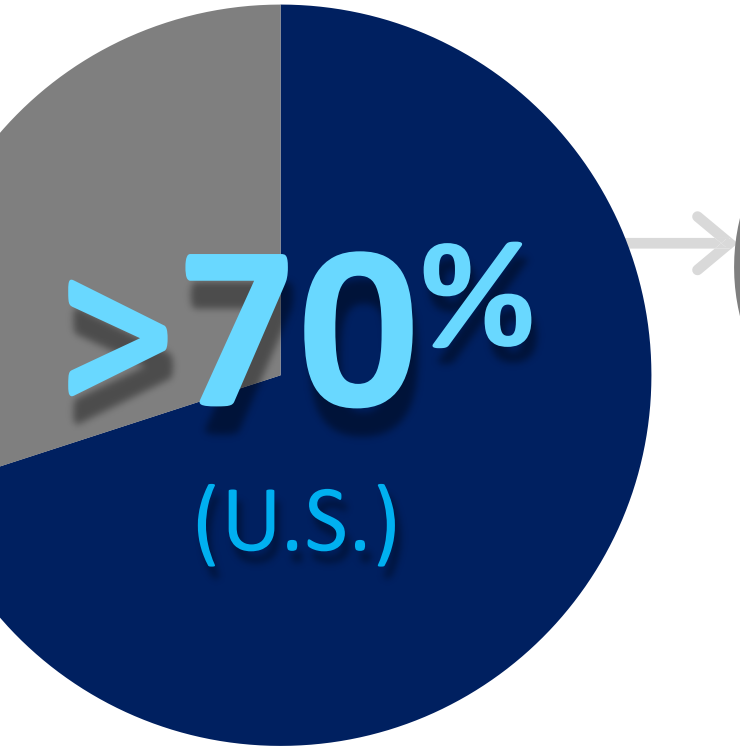


Crystal Clear Technologies

Novel Technologies for Fast, Effective Treatment of Wastewater

Lisa M. Farmen
Founder & CEO

POWER UTILITIES USE 70% OF FRESH WATER



Industrial Processes

- Utilities
- Mining
- Agriculture
- Oil & Gas
- WW Mgmt

Polluting Byproducts

- Selenium
- Arsenic
- Mercury
- Lead
- Copper
- Uranium

LARGE & GROWING MARKET FOR SOLUTIONS

Power sector

$3B+

CapEx

- DRIVERS
  - Expansion
  - Rising population, urbanization
  - Finite supply
  - infinite demand
  - Environmen
  - Global Com

OPPORTUNITY

- Provide efficient and effective solution at lower cost
- Deploy a truly sustainable solution
- Convert a waste to a resource

Local governments

$30B

annual O&M

WATER IS USED TO MAKE EVERYTHING

9 bottles of water

per bottle

1.5B gallons

per processing plant (annually)

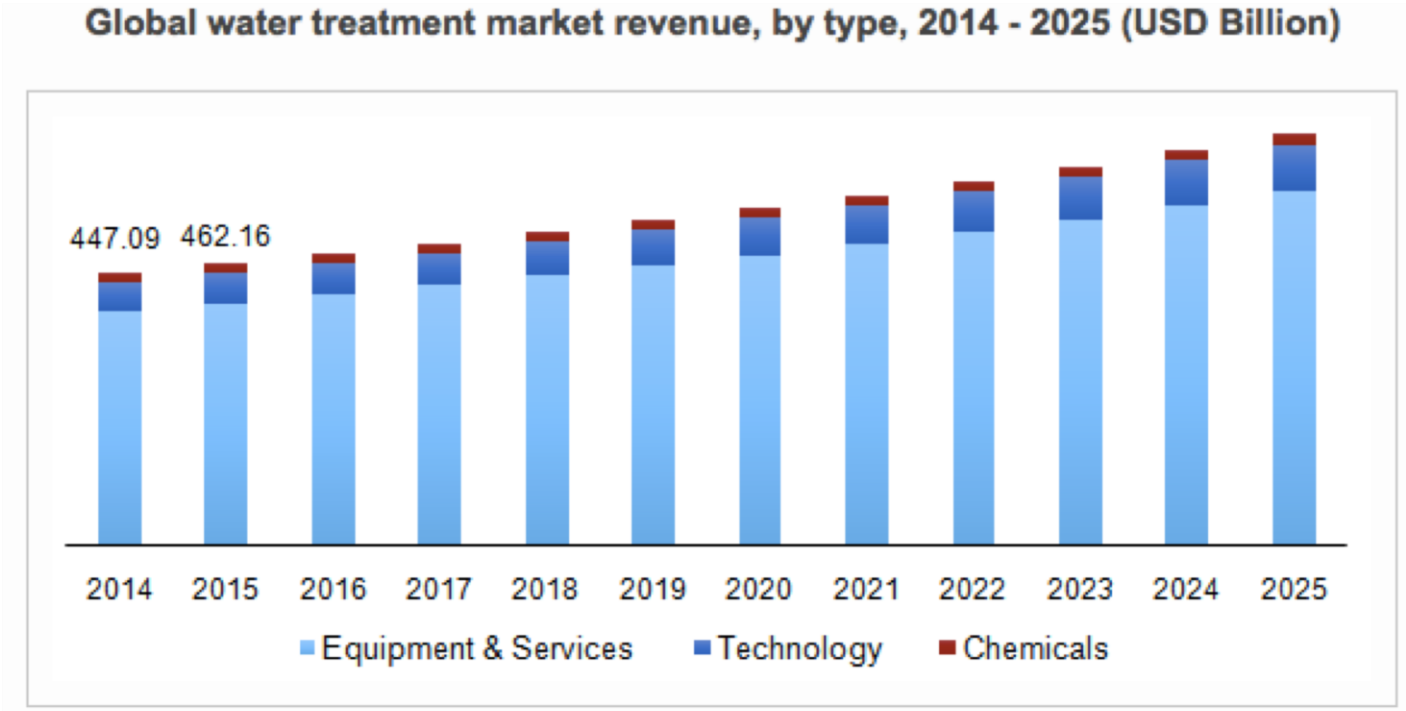
1.3M gallons

per processing plant (annually)

1.1B gallons

per processing plant (annually)

WASTEWATER DISPOSAL IS EXPENSIVE



→ Pollutants

= **EXPENSE**

CCT REMOVES and HARVESTS CONTAMINANTS

NMX™

Clean Water

+ Valuable Byproducts

= REVENUE

6–16% Metal
(by weight)

Protein Drink

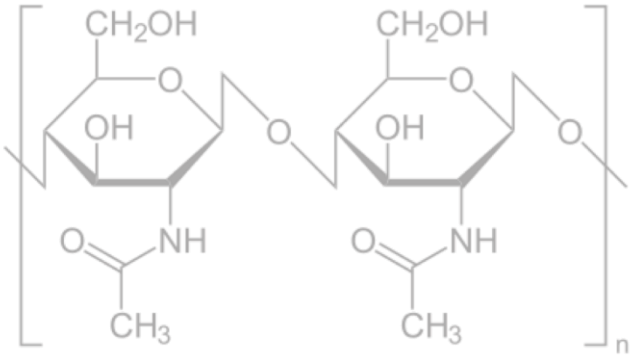
Pollutants

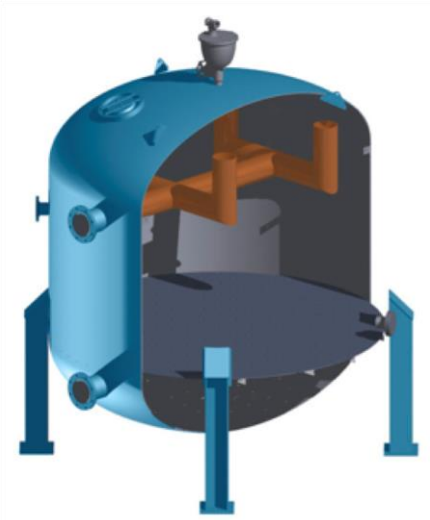
= EXPENSE

THE TECHNOLOGY

Chitin

(waste material)





WHY CRYSTAL CLEAR TECHNOLOGIES?

ü

Cheaper

CapEx ▼ 70%,

OpEx ▼ 20%

ü

Faster

3-5 minute contact time, vs. 2+ hours (biological systems)

ü

Sustainable

Reclaim solids, Recycle water

Most Effective

<2 ppb selenium exceeds drinking water standards

Scalable to 9,000+ gpm

(vs. competition max 500 gpm)

Removes contaminants to

< 2 ppb

(competition = 10+ ppb)

EXAMPLES – AGRICULTURE

	DARLING INGREDIENTS INC.
Wastewater Volume* (gals/year)	18,000,000
Annual Cost to Sewer	$447,696
OPEX Cost with CCT	$234,000 (est. reduced annual sewer fee) $7,740 (OPEX NMX™)
Annual Savings*	**$205,996**

***Per plant.** DII has more than 200 processing plants.

EXAMPLES – AGRICULTURE

	DARLING INGREDIENTS INC.	SUN-MAID CALIFORNIA RAISINS
Wastewater Volume* (gals/year)	18,000,000	77,000,000
Annual Cost to Sewer	$447,696	$1,400,000
OPEX Cost with CCT	$234,000 (est. reduced annual sewer fee) $7,740 (OPEX NMX™)	$27,500 (est. reduced annual sewer fee) $33,110 (OPEX NMX™)
Annual Savings*	**$205,996**	**$1,372,500**

***Per plant.** DII has more than 200 processing plants.

EXAMPLES – AGRICULTURE

	DARLING INGREDIENTS INC.	SUN-MAID CALIFORNIA RAISINS	GRIMMWAY FARMS
Wastewater Volume* (gals/year)	18,000,000	77,000,000	750,000,000
Annual Cost to Sewer	$447,696	$1,400,000	$30,000,000 (2,000 acres = lost revenue)
OPEX Cost with CCT	$234,000 (est. reduced annual sewer fee) $7,740 (OPEX NMX™)	$27,500 (est. reduced annual sewer fee) $33,110 (OPEX NMX™)	$470,850 (NMX™ OPEX)
Annual Savings*	**$205,996**	**$1,372,500**	**$29,069,925**

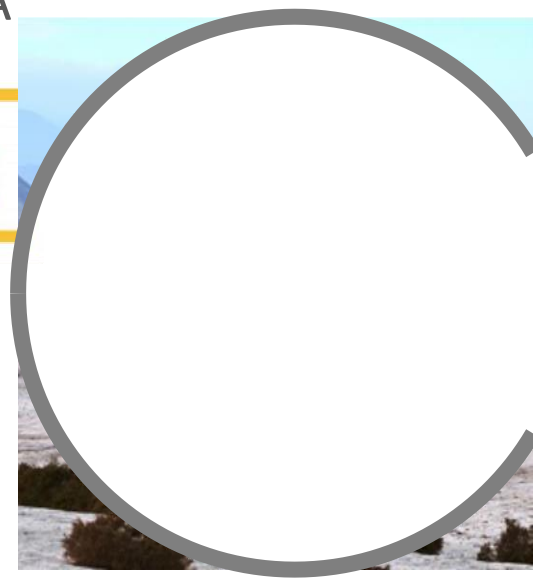
***Per plant.** DII has more than 200 processing plants.

WHAT'S NEEDED TO SCALE

MILESTONES ACHIEVED

- ✓ Intellectual property – **6 patents issued**, with right to practice
- ✓ **$2.25M funding to date**, including >$1M in SBIR grants (NSF)
- ✓ **External validation** – Cleantech Open, Stanford, Bureau of Reclamation, ADM, Montana Bureau of Mining & Technology, ASU/Salt River Project, State of CA
- ✓ Global supply chain – **manufacturing partners** (equipment, nanomaterials)

Kodak



NEXT STEPS

- First big customers – e.g., **10-year contract with State of CA** (Imperial Irrigation District/Salton Sea, Kesterson Reservoir)
- Investment capital – seeking **$1M over 18 months** for raw materials; Sales & Marketing; staffing (Engineering, CFO, CTO); office/lab space

BUSINESS MODEL & GO-TO-MARKET PLAN

BUSINESS MODEL

- Full-scale engineered systems
- Annuity / service business
- Attractive margins
  NMX™: 25%+
  Equipment: 40%–50%
- Outsourced manufacturing (NMX™ and equipment)

SALES CHANNELS (Evaluating)

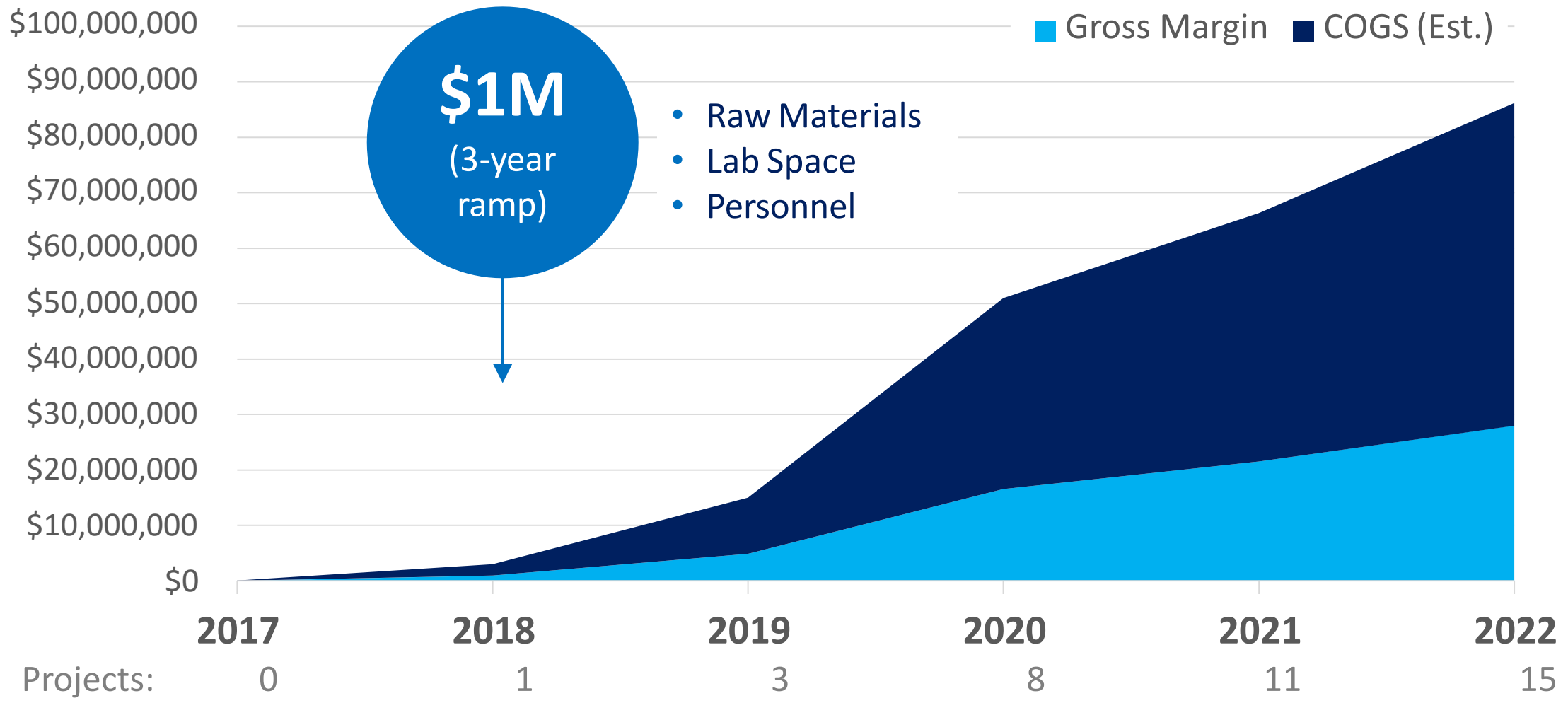
- B2B – direct to customer
- Licensing
- Direct to distributor
- Strategic partnerships

TARGET MARKETS

- **Selenium**
  - State of California/BOR Salton Sea
- **Municipalities, Ag Runoff** (numerous)
- **Agricultural Food Processing**
  - Wineries in California
  - Fruit and Vegetable Processing
  - Rendering/Meat Processing
- **Mining Runoff**
  - Berkeley Pit (26 *billion* gallons)
- **Stormwater**

39 STATES
have stormwater utilities, and 7 states have **100+** of them

FINANCIAL PLAN & FUNDING REQUIRED



THE TEAM

Lisa Farmen, MBA **CEO** 30+ engineering experience (Texas Instruments, Numonyx, ChemTrace, Sharp Labs, Sandia National Labs); built and sold OEM company; developed CCT IP; responsible for customer/partner acquisition

Mark Neuhausen, BS/MS/MBA **COO** 30+ Technologist, Executive and Angel Investor. Successful intrapreneur in large companies.

Joel Shertok, PhD **CTO** 30+ Director, Advanced Plasma Solutions; SVP, Rochester Midland; international process industries consultant with expertise in formulation and global manufacturing

ADVISORS

Candace Chan, PhD, Materials Science Professor, Arizona State University; postdoctoral fellow in nanomaterials science at UC Berkeley

Sharad Hajela, PhD, former CSO; Sr. Director Materials R&D at Powervision; Cofounder, Clarity Polymers; NIH postdoctoral fellow in chemistry at UC Berkeley

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