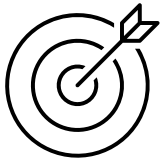
FLITE Material Sciences

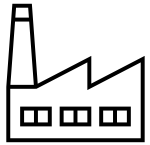
making everyday materials extraordinary

Dan Cohen, CEO

FLITE



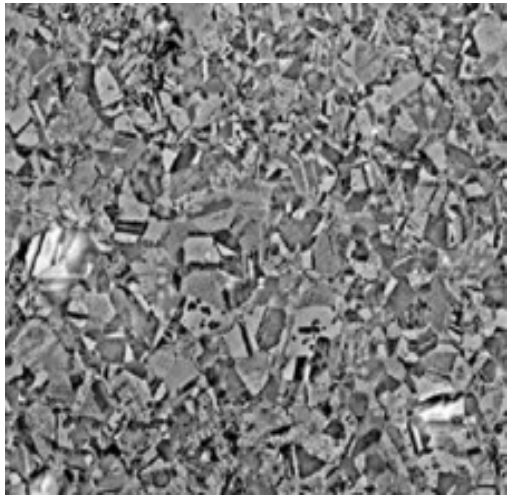
FLITE introduces a *radical new method* to
treat <u>all industrial materials</u>
to prevent failure caused by
ice, corrosion, biofilms or fouling
using clean lasers instead of toxic coatings.



We will succeed by embedding this technology
directly into our clients' manufacturing environment
for long-term licensing fees and royalties.

About FLITE Technology

Untreated Stainless Steel

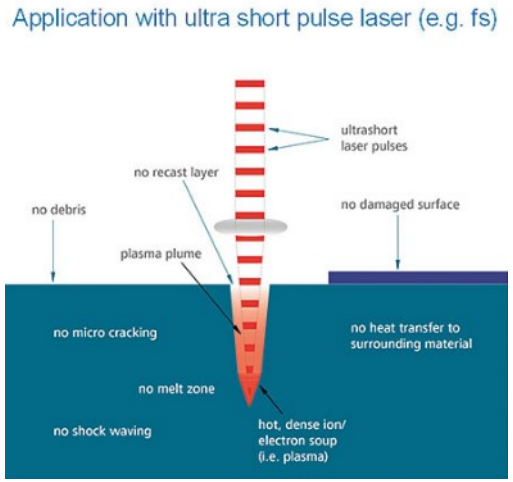


This is the surface of stainless steel, magnified to show its surface texture.

Temporary Coatings

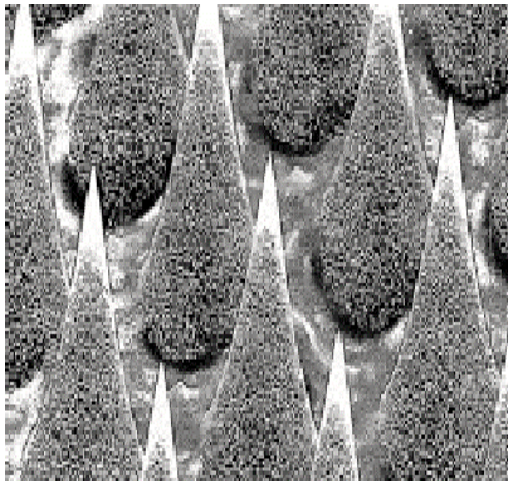
Coatings eventually peel, crack, pit, or delaminate from their surface. Result: Loss, damage and outrageous costs.

FLITE patented surface treatment



We use fast energy pulses to sculpt a new surface that produces a specific effect. Clean, permanent and durable.

Functional Surface: Superhydrophobic



This surface, copied from a lotus leaf, repels water with the slightest push, vibration or tilt.

Functionalized Surfaces

FLITE's techniques have been applied successfully to virtually every solid material, and we are designing new textures for specific industrial problems.

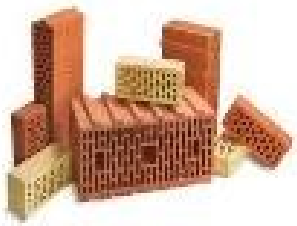
Repel water or oil

Attract water or oil

Metals

Glass

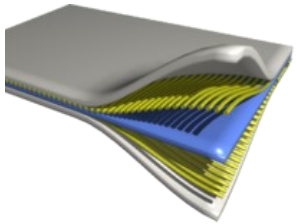
Ceramics



Polymers

Semicon

Composites



FLITE's Key Differences

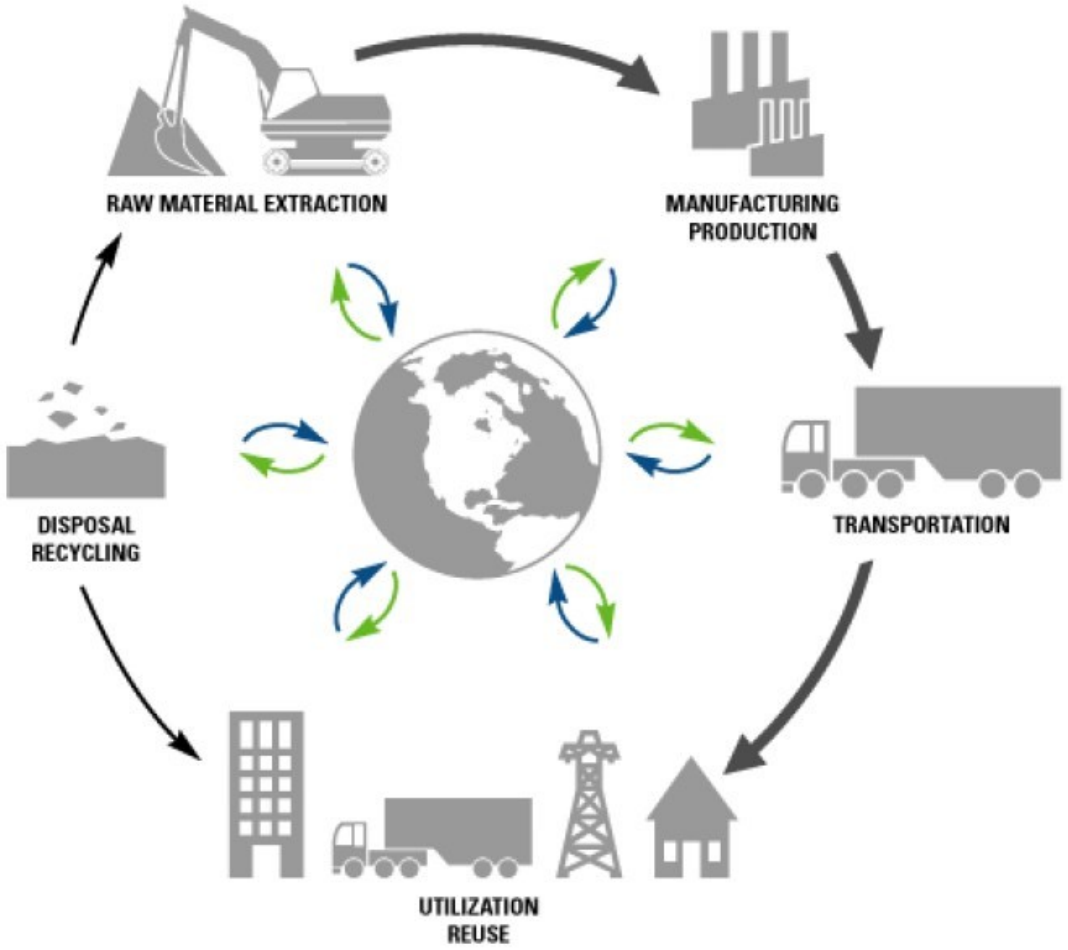
What we are *NOT*

- A process that adds material to the surface.
- A process that removes material from the surface.
- An additive that changes material properties.

What we ARE

- A treatment that goes where coatings can't.
- Completely green.
- A reason to redesign familiar products.

Defining *Green*



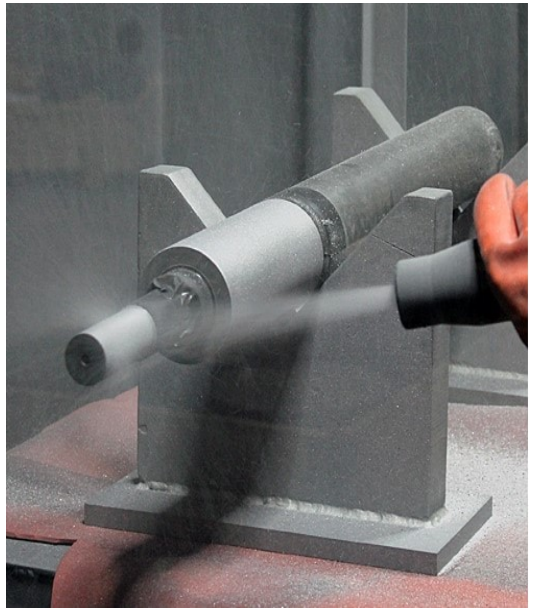
- No residue in soil, air, water
- No toxic vapors
- No significant waste heat
- No danger of flame or explosion
- No leaching into finished product
- No odors or loud noises
- Does not affect recycling
- Does not affect composting

- *Consumes Electricity*

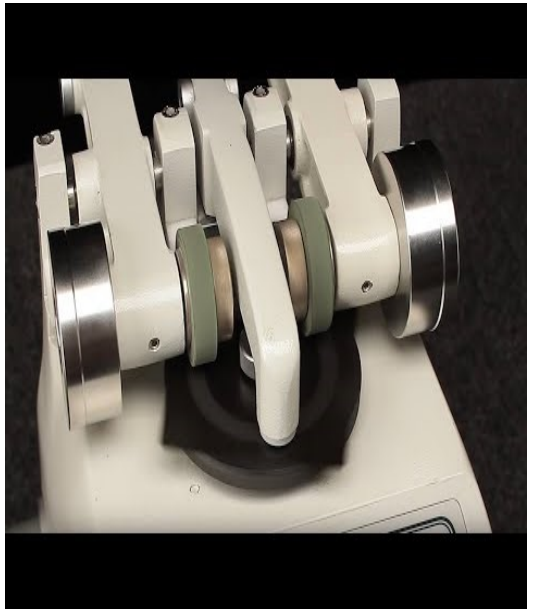
Durable and Scalable Results

FLITE's treatments do not weaken the product, according to early tests.
We are scaling the technique to apply at speeds of 1m^2/minute.

✓ Water jetting



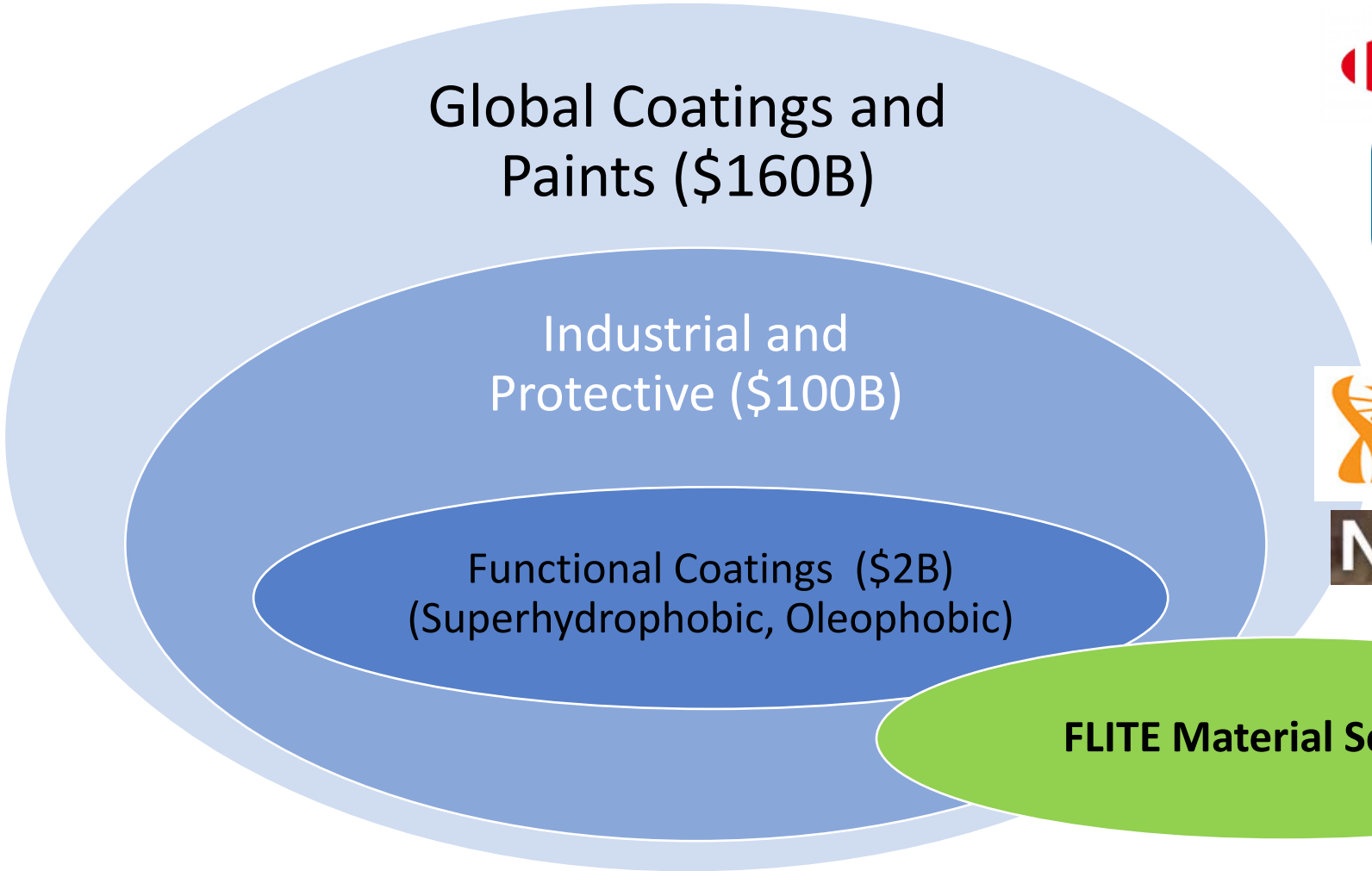
✓ Sand blasting



✓ Abrasive scrubs

✓ Thermal cycling

Market Profile



DUPONT
DOW
PPG
BASF
We create chemistry
SHERWIN WILLIAMS
COVER THE EARTH
Helicity Technologies
Hydrobead
NeverWet
ACULON

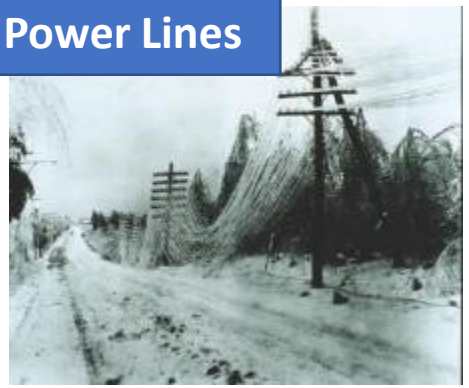
FLITE

Opportunity Catalog

Plane Icing

Cell Towers

Power Lines

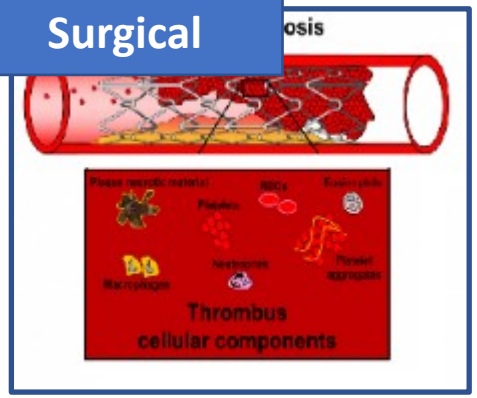


HVAC

Ship Hulls

Oil Pipeline

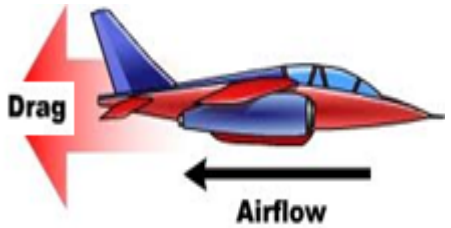
Surgical



Water

Market: Aerospace

Reduce Drag



Ice-free wings

Delay Corrosion

Longer lifecycle

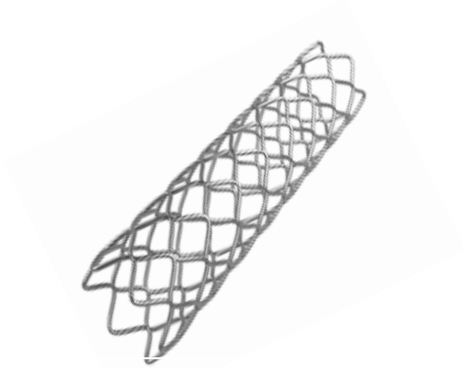
Reduce paints

Clear Instruments

Less weight

UAV wet flights

Market Profile: Medical Devices



Cardiac Stents

Dental Implants

Surgical Tools

Joint Replacements

Continuous Glucose Monitors

Graft and Screws

informa

MD+DI Qmed

MEDICAL DEVICE AND DIAGNOSTIC INDUSTRY

FDA Warns About Deadly Device Coatings Problems

By Chris Newmarker

November 23, 2015 in *Surface Treatment*

Coating adhesion problems related to guidewires and other devices apparently aren't going away, if a Monday safety communication out of FDA is any indication.

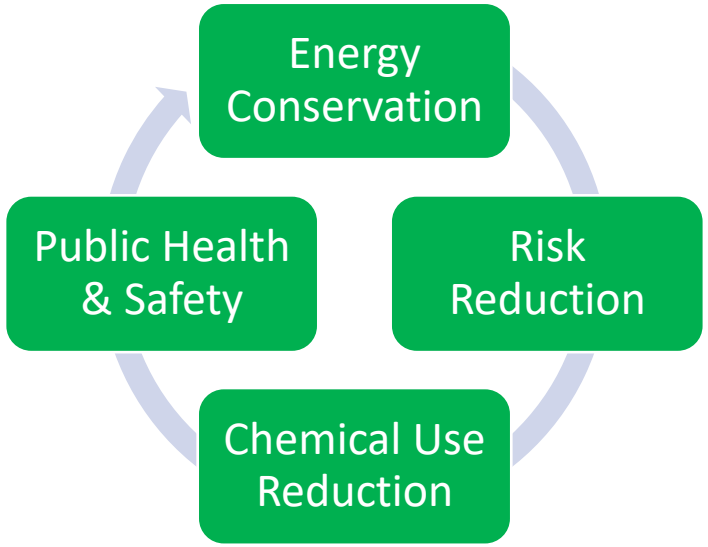
FLITE

Market Profile: Oil and Gas

Pipe Corrosion

Scale Buildup

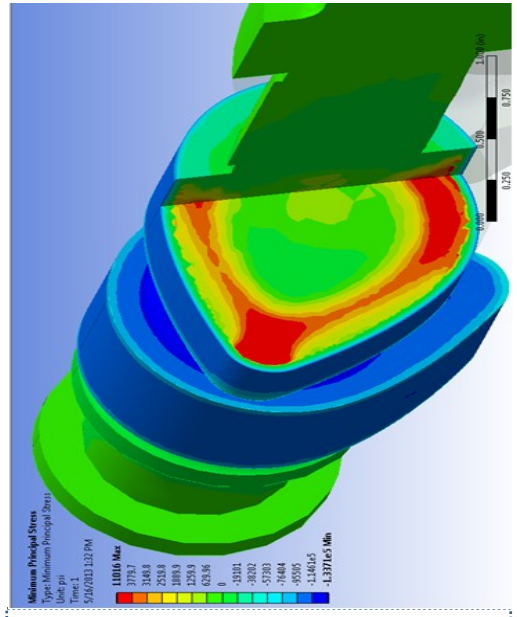
Biofilm Blockages



Integrations for Advanced Manufacturing

FLITE's is integrating its methods with other advanced laser techniques to offer complete manufacturing solutions

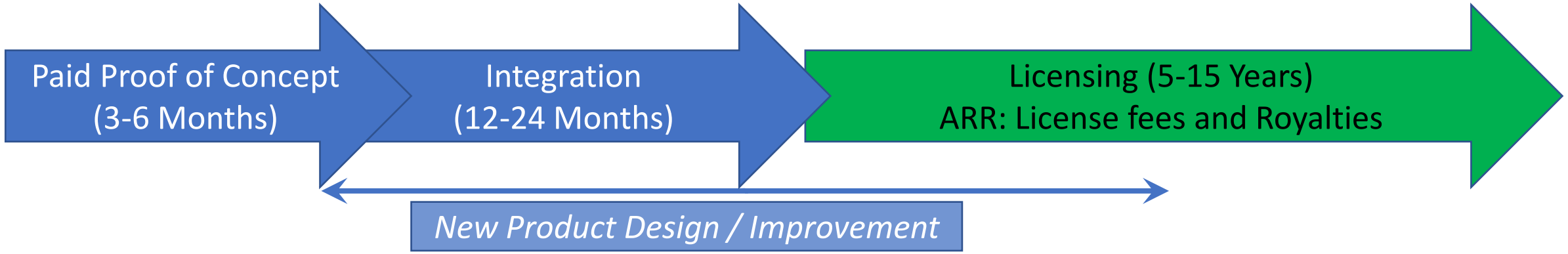
Laser Rust Removal



Laser Material Hardening

Micron-scale 3D Printing

Sales and Growth Engine



techstars

AFWERX

GREENTOWN LABS

JOULES ACCELERATOR

STARBURST

CEN TECH

FREE ELECTRONS

RICE | ALLIANCE
Rice Alliance for Technology and Entrepreneurship

FLITE

A Strong Beginning

Press Coverage

Stainless Steel World

The Verge

Newsweek

BBC

CNN

New Atlas

Business Insider

c|net

…+50 more in 6 languages

Technology licenses	**4**
Patents	**8**
Partner institutions	**5**

Winner, Startupalooza Pitch Contest
Semifinalist, US Army xTechSearch Prize
Winner, SPE ATCE Best in Show
2nd Place, Entrepreneurship World Cup
Winner, CCIA Cleantech Oil & Gas Challenge
Finalist, Vernadsky Challenge

FLITE

A Promising Future

Client Pipeline

…+110 more in other industries

First Customers

- ✓ Durable Goods Co.
- ✓ Food and Beverage Co.
- ✓ Helicopter OEM
- ✓ Aluminum Processor
- ✓ US Air Force
- ✓ National Drone Company
- ✓ Aviation Research Co.
- ✓ International Oil & Gas Co.
- ✓ Surveillance Drone Co.
- ✓ Military Robotics Co.
- ✓ International Plastics Co.

…+5 more under negotiation

FLITE's Top Team

Dan Cohen
President
28 years exp.
Innovation & R&D
CTO 5 times
Founder 3 times

Dr Ogan Gurel
Chief Science Officer
33 years exp.
MD (Neuro.), PhD

Tom Samek
VP Business Development
35 years experience in deeptech industries

Christiana Winfrey
VP Finance & Operations
15 years executive experience in growing startups

FLITE Numbers

FY 2021 Status	
Commercial pipeline	**$ 3.2 M**
Defense pipeline	**$ 2.6 M**
Nondilutive sources	**$ 2.5 M**
Burn Rate	< $10k / month
Capital raised	**$120,000**
Team size	**4 f/t | 7p/t**
Series A raise	**$ 5.0 M**

5-Year Outlook		
	Licenses	**Revenue**
Year 1	-	**$ 2.1 M**
Year 2	3	**$ 5.1 M**
Year 3	17	**$ 16.7 M**
Year 4	31	**$ 33.3 M**
Year 5	45	**$ 45.3 M**
5-year projected revenue *per license*		$ 5 M - $15 M
Margins on licenses		80%+

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