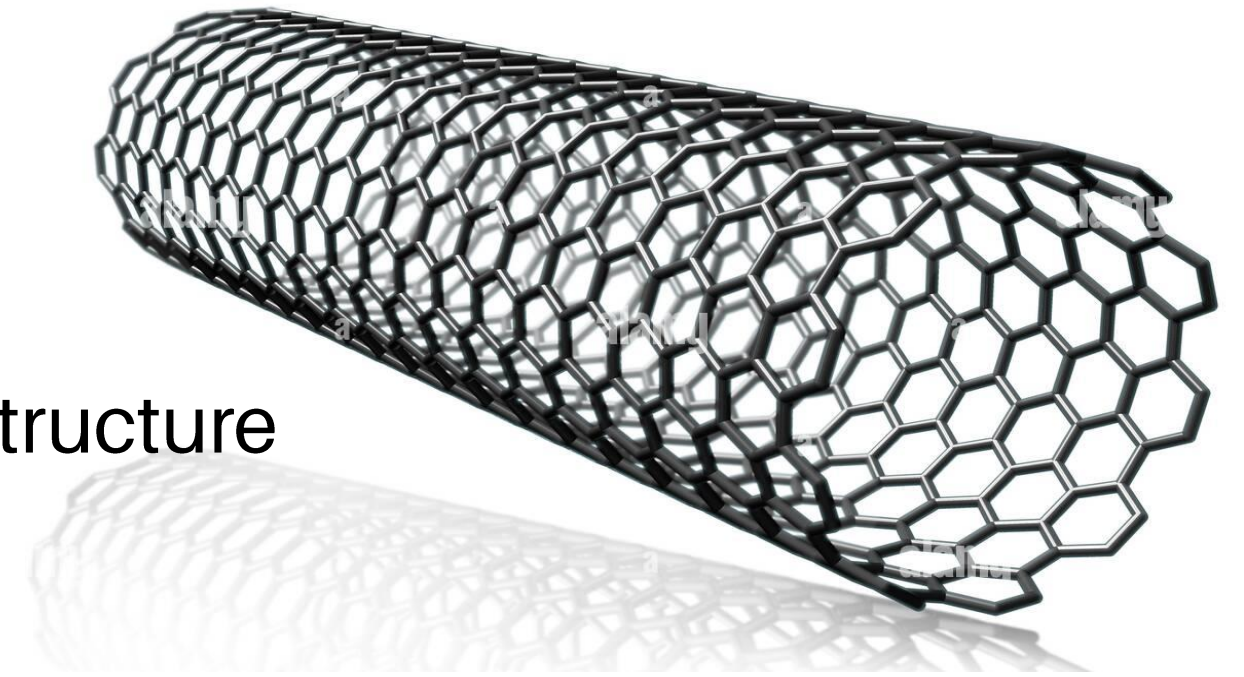


Eden Innovations

Advanced Materials and Energy Systems for Defense & Critical Infrastructure



Presenting at:

DEFENSE, INNOVATION & INFRASTRUCTURE FORUM

MAR-A-LAGO, PALM BEACH FL, USA

May 8th 2026



The Mar-a-Lago Club



Allan Godsk Larsen M.Sc., Ph.D.
Chief Scientist, Managing Director
Eden Innovations Ltd | EDE:ASX
aglarsen@edeninnovations.com
www.edeninnovations.com

Eden Innovations

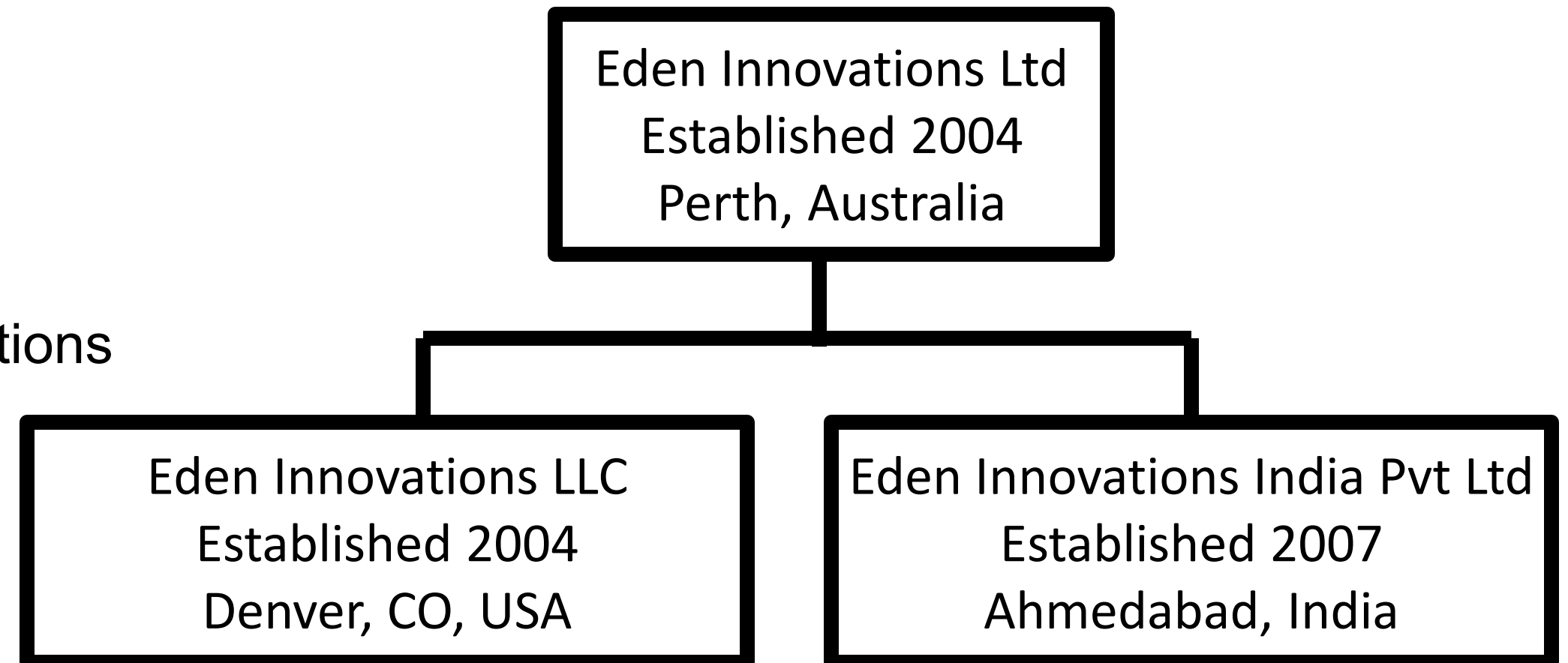
Advanced Materials and Energy Systems for Defense & Critical Infrastructure

Special focus on:

Eden's CNT technology and applications
EdenCrete for durability,
EdenCrete Pz7 for strength and cost-reduction
OptiBlend, EdenPlast, and EdenShield applications

Allan Godsk Larsen M.Sc., Ph.D.
Chief Scientist, Managing Director
Eden Innovations Ltd | EDE:ASX
aglarsen@edeninnovations.com
www.edeninnovations.com

Corporate Structure

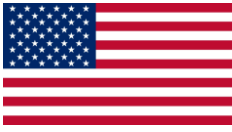


EdenShield by Eden Innovations

Decades of IP, Now Deployed for Defense

Advanced Materials and Energy Systems for Defense & Critical Infrastructure



- **Proven Technology, New Market:** 22 years established presence in USA. Newly-launched **EdenShield™** division harnesses 11+ years of commercialised CNT expertise for defense and critical infrastructure markets. 
- **Existing revenue Streams and strong pipeline:** Concrete admixtures (EdenCrete®) and dual-fuel energy systems (OptiBlend®) with strong revenue growth. CNT-enriched polymers (EdenPlast®), paints/coatings being developed under a unified defense-grade brand, EdenShield.
- **Strategic Positioning:** Active projects across USA, Israel, France, India, Ecuador & more. EdenShield™ launched 2026 to serve military, government, and infrastructure clients.
- **Exceptional Concrete Performance Data:** EdenCrete Pz7 delivers 10–40% compressive strength gains; blast-resistant UHPC achieving 140 Mpa.
- **Targeting Multiple High-Growth Markets:** Data Centers, Drones & UAVs, Military Infrastructure, Bunkers, Airports, Remote Military Bases, Hospitals, Power Stations, Critical Transport Hubs.



Eden Innovations

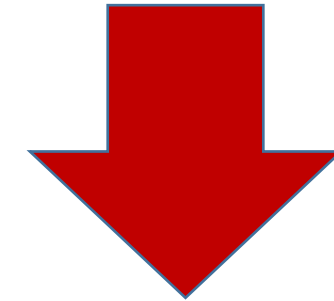
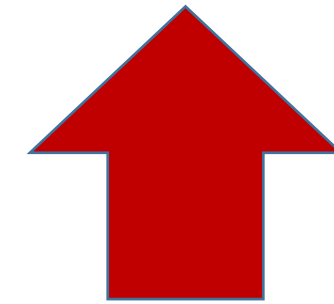
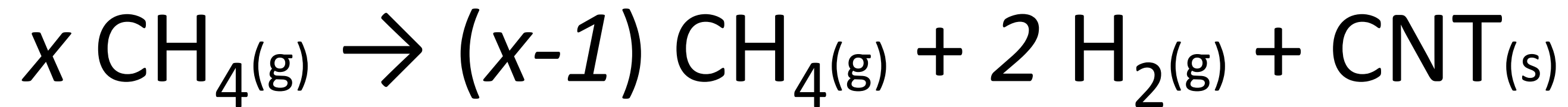
It started with H₂ production:



Eden Innovations

H₂ is now the byproduct, CNT the target

Asphalt, Batteries, Coatings, Composites, Rubber, Supercapacitors etc.



Concrete and plastics

Carbon Nanotubes:

Space Elevator

Properties:

- Extreme mechanical strength
- Exceptional electrical (semi-)conductors
- Optically “perfect” black
- Thermal conductor

Predicted to revolutionize the world!

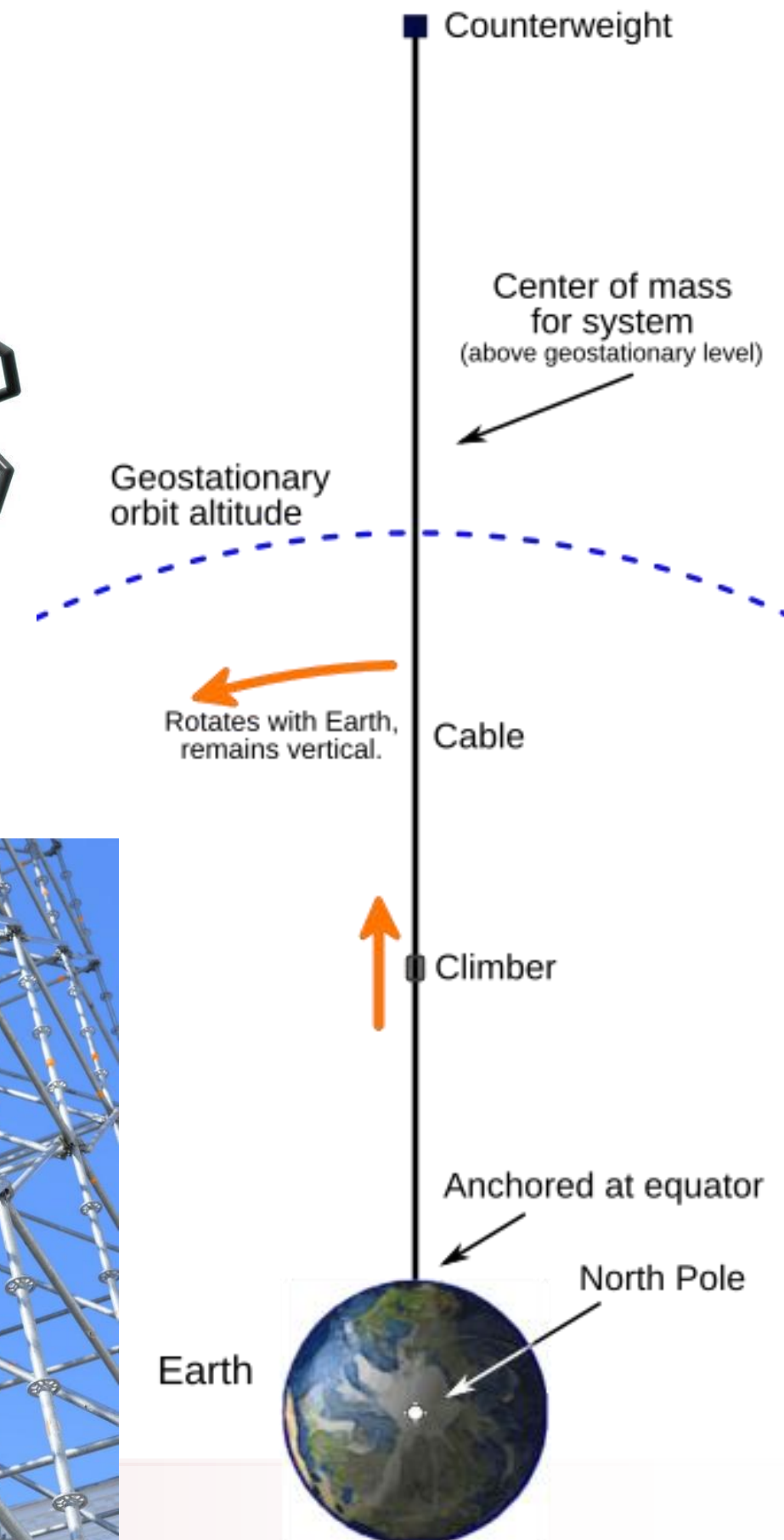
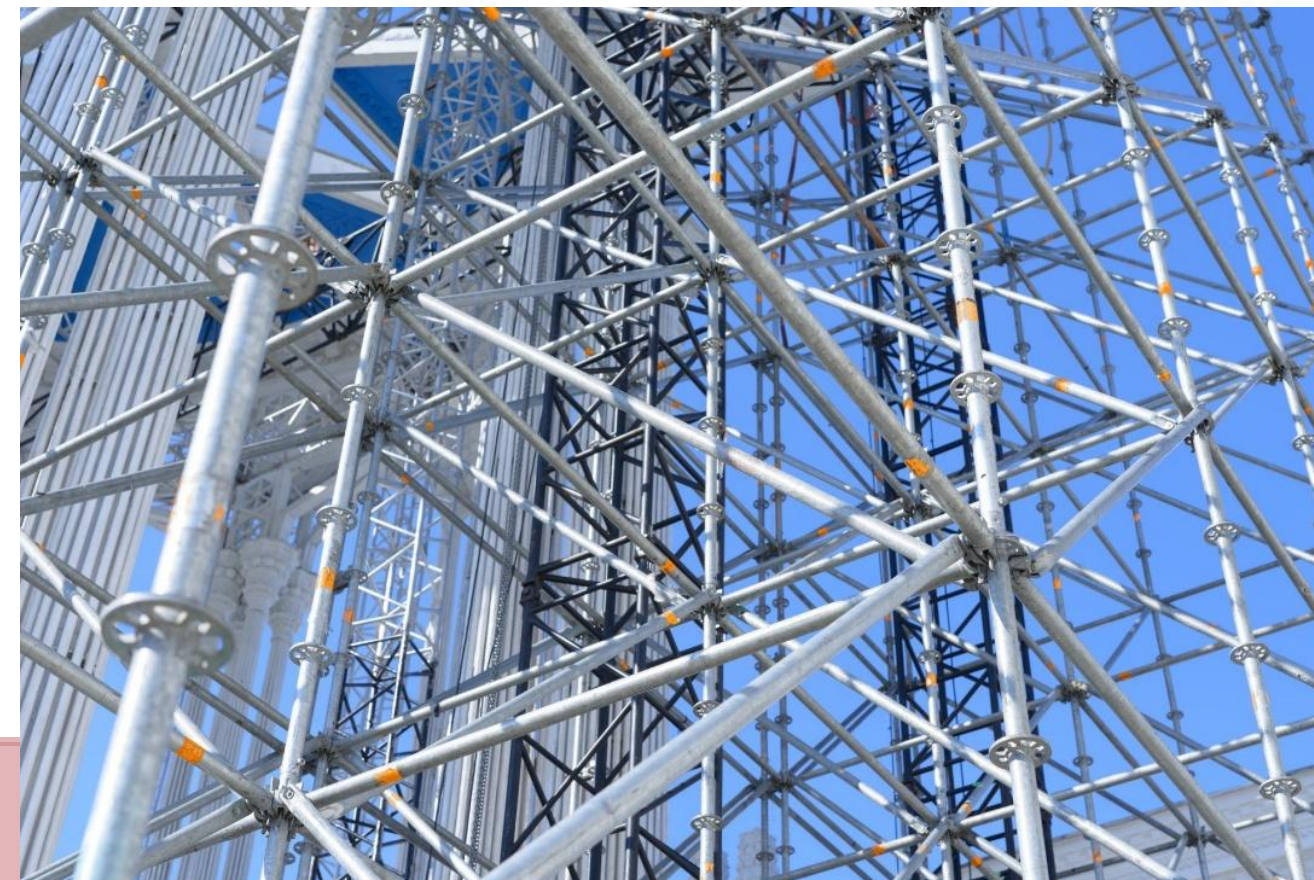
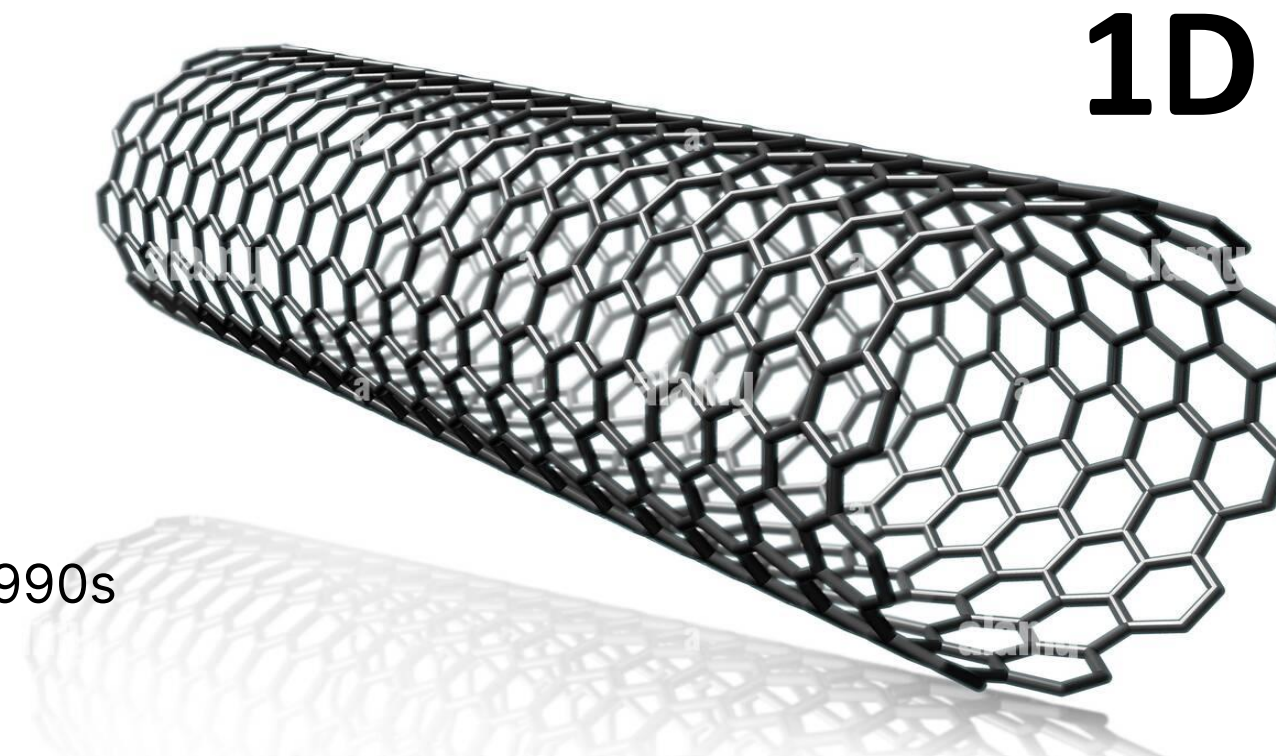
- Approx. 10,000 scientific papers published in the 1990s
- Approx. 80,000 papers during the 2000s

Challenges:

- Cost, cost, and cost
- Complicated and slow to produce
- Complicated to use
- Challenge to integrate in real world applications

Eden's Solutions:

- Produce CNT cheaper than anyone else
- Ton scale production – Unique approach
- Applications found and integration solved

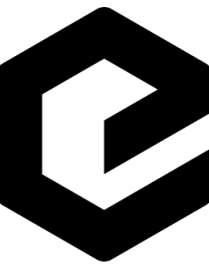


Suspension and Dispersion: Integration

Potentially as difficult as making the CNTs in the first place

A good dispersion ensures CNT stability in the solution

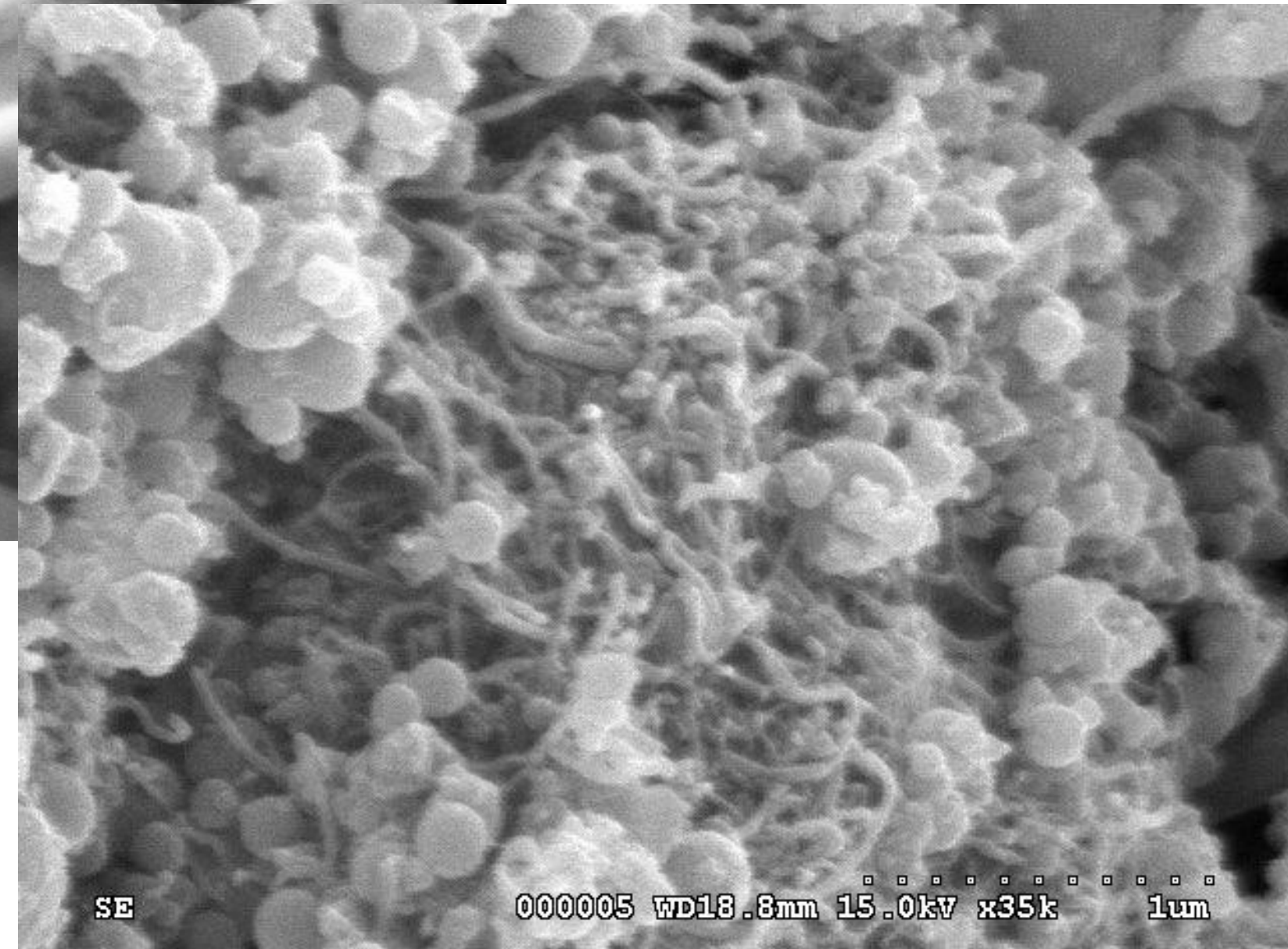
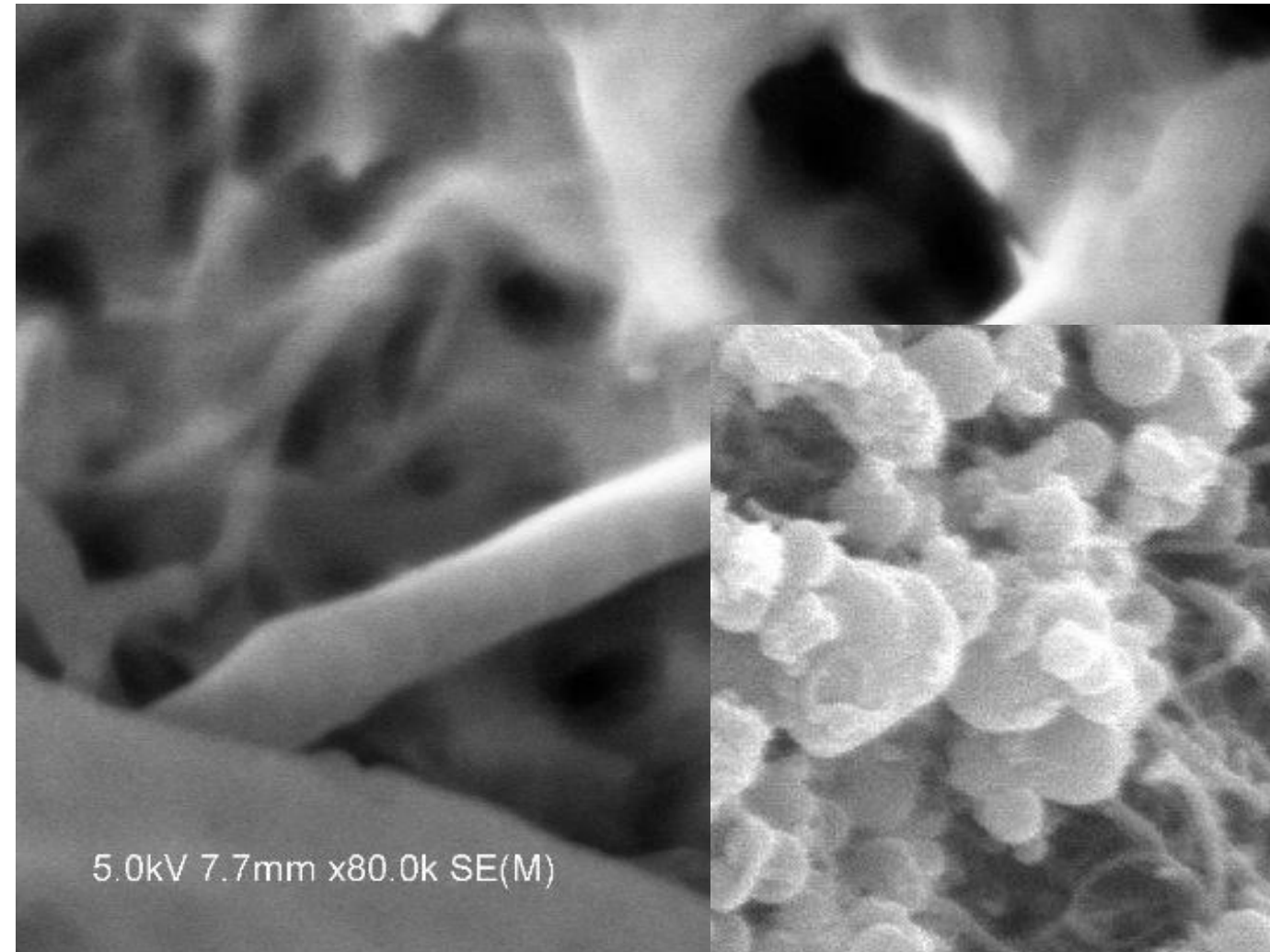
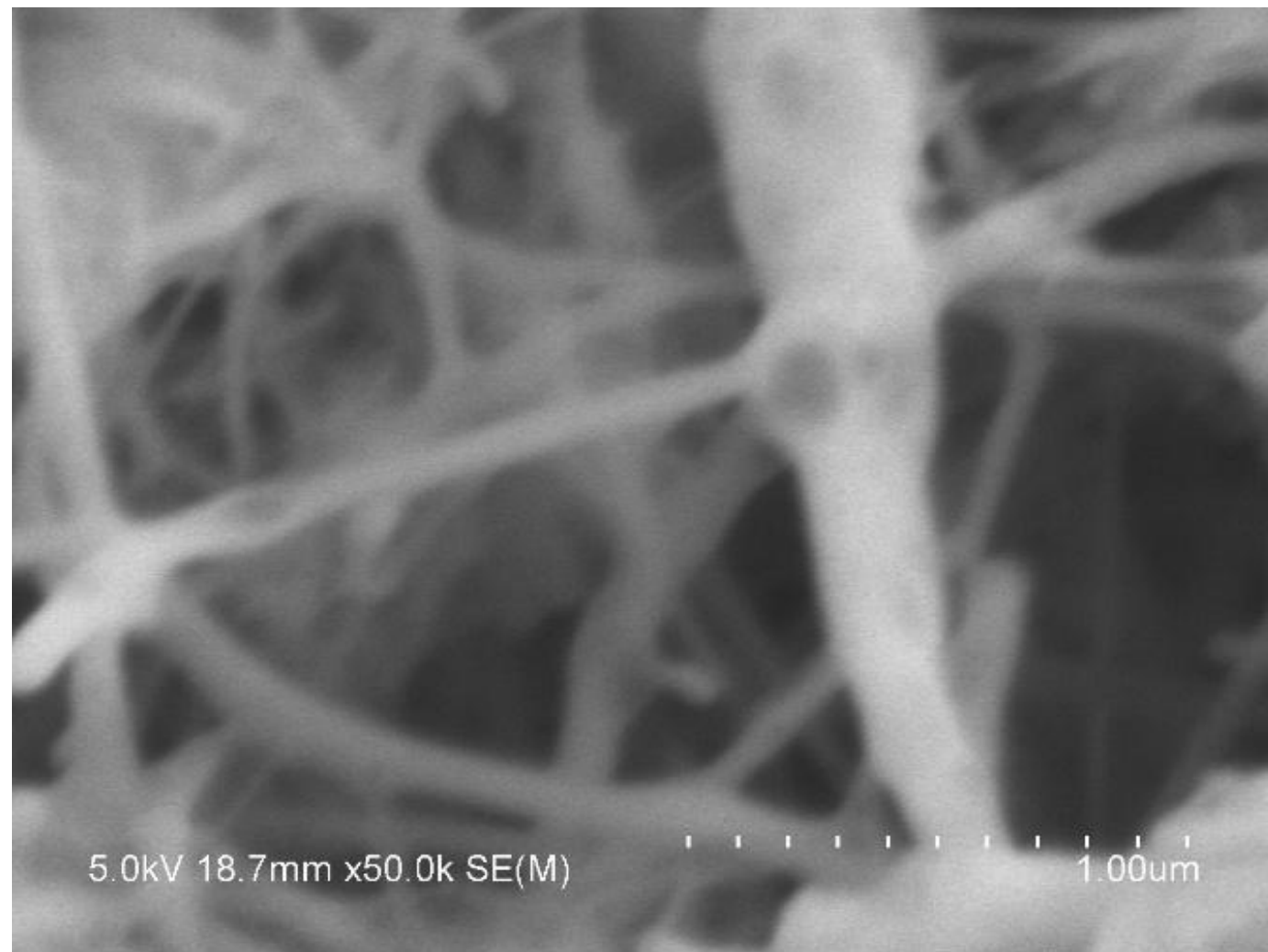
A good dispersion optimizes performance of each individual CNT



TOUGHER
STRONGER
CONCRETE



How EdenCrete works: Dispersed CNT

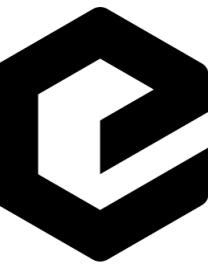


Non-integration:

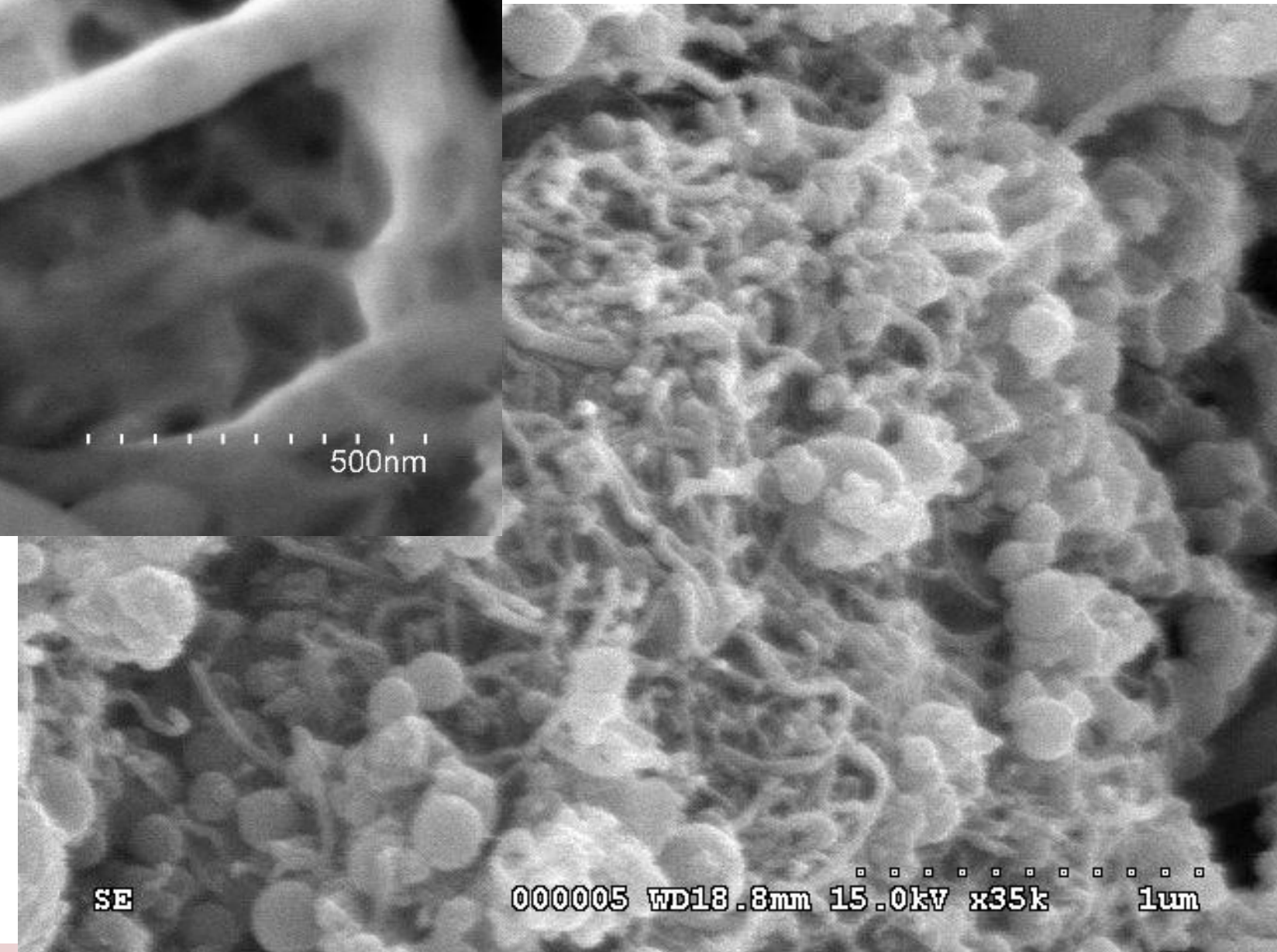
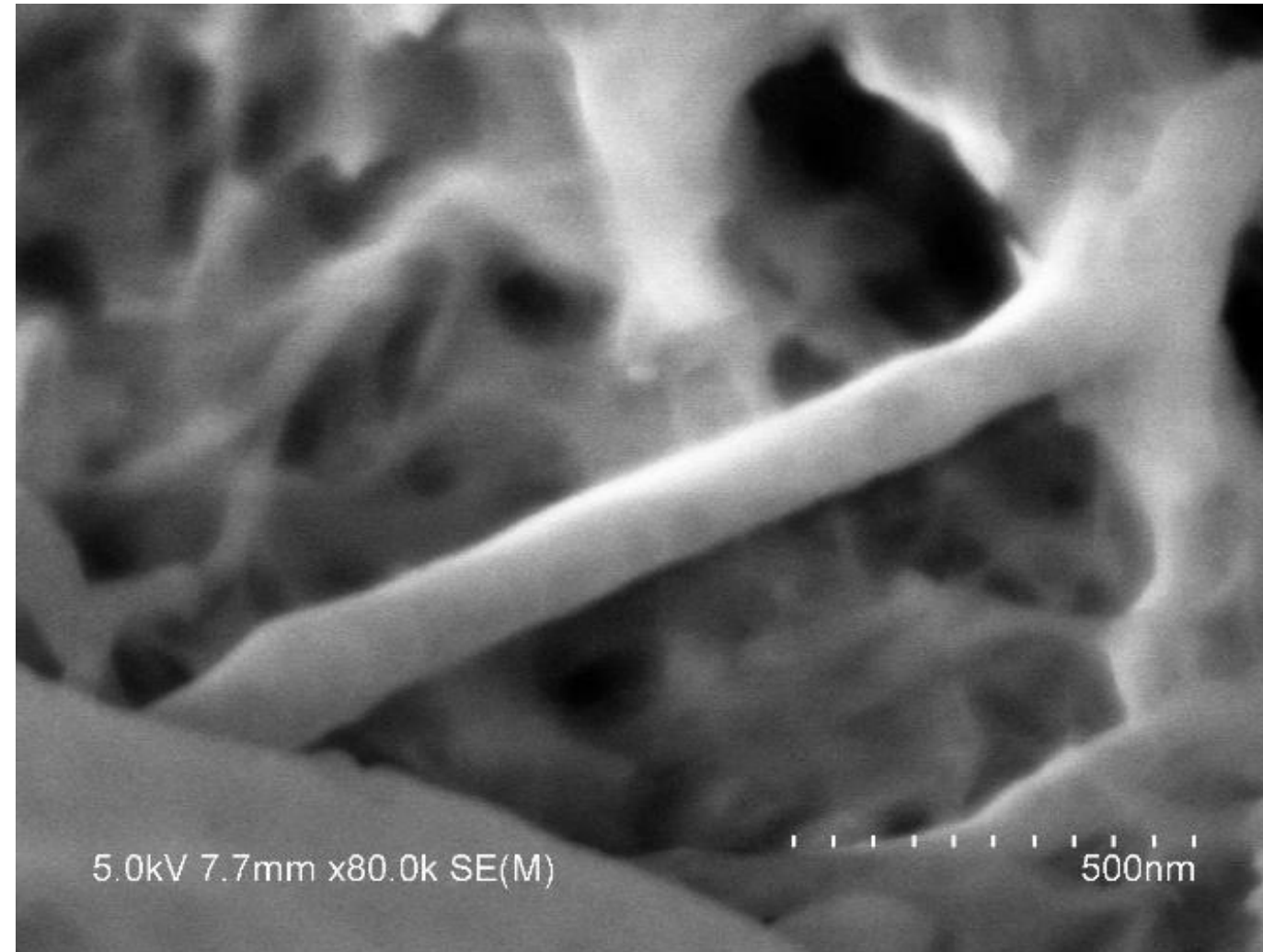
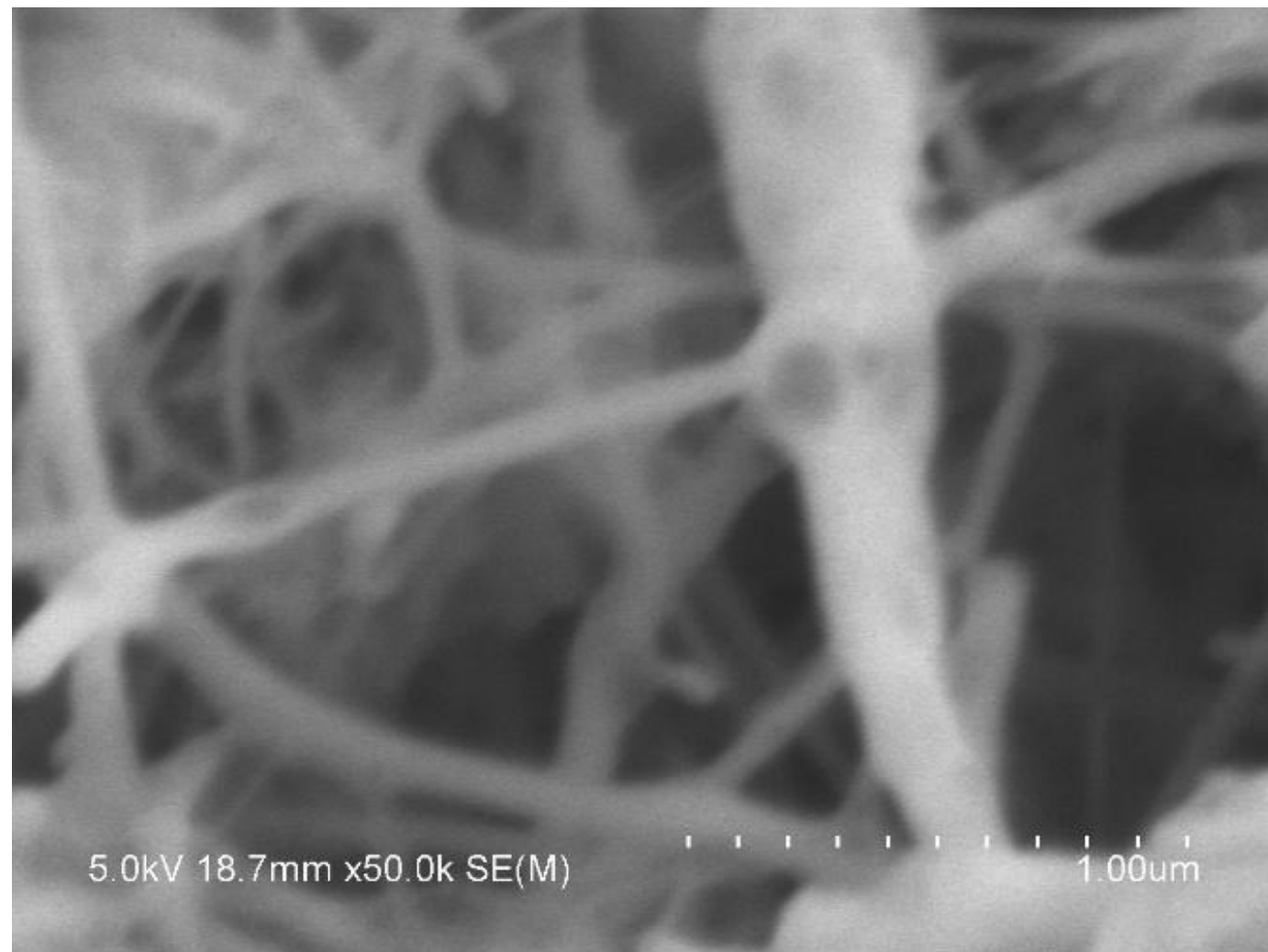
Agglomeration problem with dry CNT addition
- loss of effectiveness. Not EdenCrete!



How EdenCrete works: Dispersed CNT



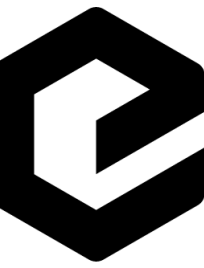
TOUGHER
STRONGER
CONCRETE




Perfect integration:

No agglomeration! All tubes are effective in creating a scaffold structure for C-S-H crystal formation.

Suspension and Dispersion: EdenCrete



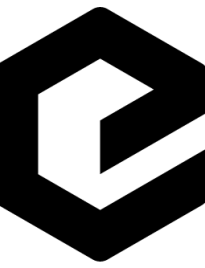
TOUGHER
STRONGER
CONCRETE

A good dispersion of CNT secures shelf life of 12+ months

A good dispersion allows us to sell our EdenCretes all around the world



Eden Innovations trials and sales:



**TOUGHER
STRONGER
CONCRETE**

Canada:

Cost-efficient strength,
facilitating increased
FA use, freeze-thaw

USA:

Durability, strength,
abrasion, permeability,
pumpability, shotcrete,
OPC replacement
Increased FA use
EMP shielding
etc.

Ecuador:

Strength, CO₂ reduction

France:

UHPC 140 MPa
CO₂ reduction
Electromagnetic shielding
Carbonation reduction

Greece:

Early strength shotcrete

Israel:

Critical infrastructure
UHPC for seismic and
blast protection
Shielding, shotcrete

India:

Cost reduction
OPC replacement
Increased FA use
CRRI highways

Japan:

EdenPlast

Indonesia:

Cost reduction
PPP project durability

New Zealand:

Freeze-thaw resistance,
durability, cost-efficient
strength

Australia:

Marine, durability

EdenCrete: Vale Pass Paving Project **2 years** Reference vs EdenCrete vs Silica fume



EdenCrete: Vale Pass Paving Project **2 years** Reference vs EdenCrete vs Silica fume



Reference September 5, 2023



EdenCrete September 5, 2023



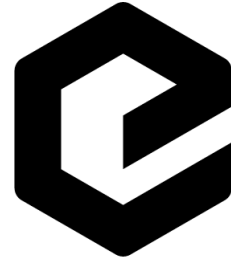
Silica fume September 5, 2023

EdenCrete: Vale Pass Paving Project **5 years** Reference vs EdenCrete vs Silica fume

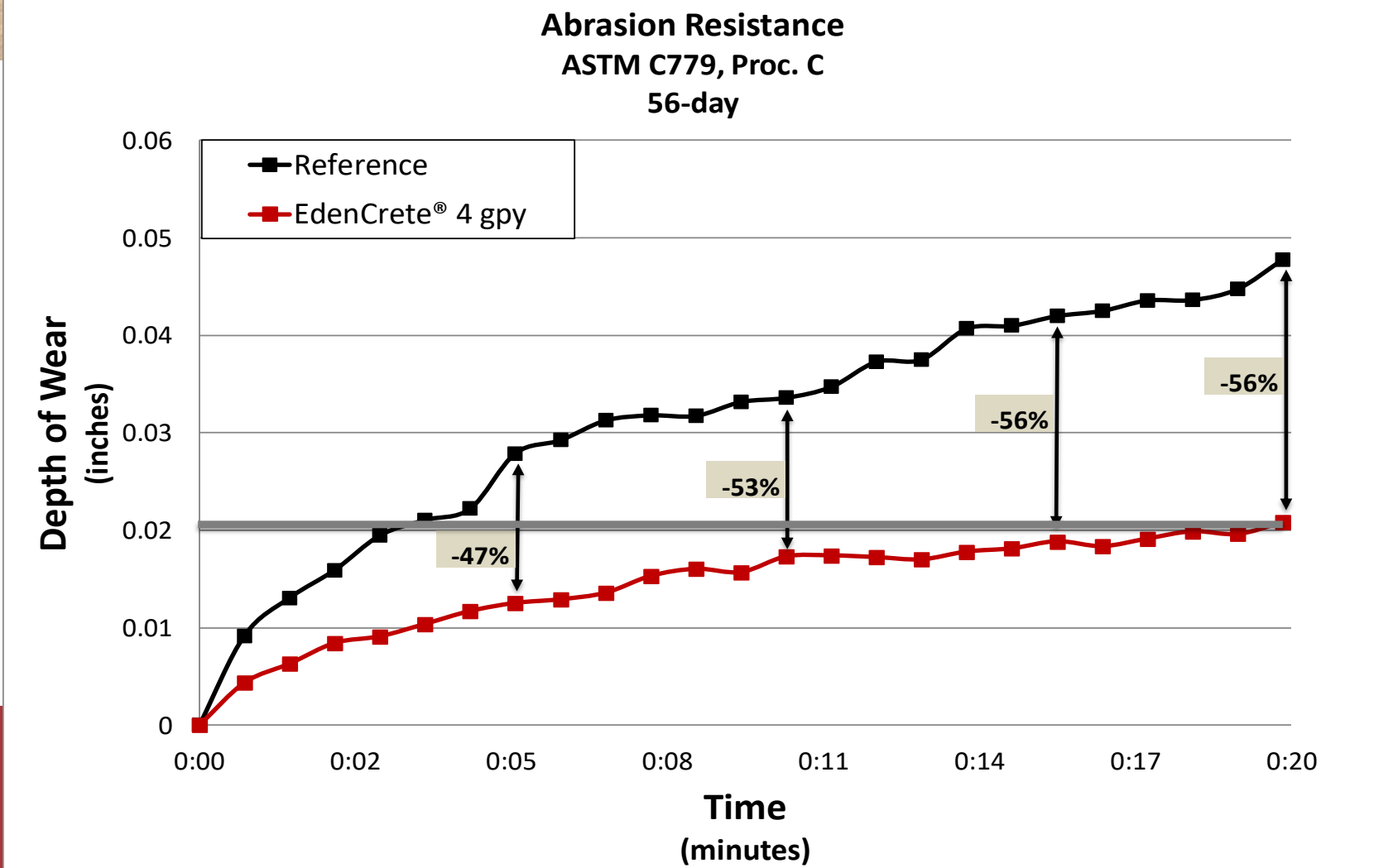


EdenCrete real-world projects:

Georgia Department of Transportation – I-20 Trial October 2015



TOUGHER
STRONGER
CONCRETE



Abrasion Resistance - ASTM C779, Proc. C

4.2.3 Procedure C—The ball-bearing machine operates by high-contact stresses, impact, and sliding friction from steel balls. Plots the depth of abrasion wear vs time. **25 pounds of pressure, 1000 rpm**

EdenCrete real-world projects:

Georgia Department of Transportation – I-20 Trial October 2015



January 23, 2017

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA SPECIAL PROVISION

Section 504—Twenty-Four Hour Accelerated Strength Concrete

In Section 504.1.03.B2, add a note under “minimum cement cwt/cu yd”:

Note 1: When this Section 504 is used in conjunction with Section 452 (Full Depth Slab Replacement), the Contractor shall utilize EdenCrete Carbon Concrete Additive to reduce the cement factor by 15 % as per the allowances of ASTM type “S” admixtures. There shall be two mix designs prepared; one with a 2 gallon/CY dosage and one with a 4 gallon/CY dosage. Each mix design shall also be submitted to and approved by the Engineer prior to use on the project. The mix designs shall consistently achieve the minimum compressive strength (2,500 psi) at 24 hours.

The 4 gallon/CY dosage is reserved for use at the Engineer’s discretion.



EdenCrete: Making US concrete strong again!

DEN Airport

Highway, CO

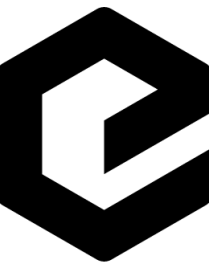
Vail Pass
SUMMIT
ELEV 10,662 FT

High-rise Denver

Port of Savannah

TX precast beam

Stormwater Drainage: Abrasion, Cracking, & De-icer Chemical Resistance



TOUGHER
STRONGER
CONCRETE



May 2015

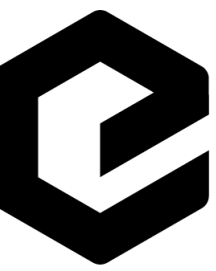


August 2017

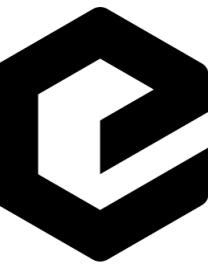
Targeted concrete properties:

- 1) Resistance to freeze-thaw, abrasion, and de-icer chemicals
- 2) Resistance to cracking
- 3) Extended durability

Stormwater Drainage: **4 years** Abrasion, Cracking, and De-icer Chemical Resistance



Durability is surprisingly hard to sell:



TOUGHER
STRONGER
CONCRETE

Stormwater drain: **7 years**

Challenges:

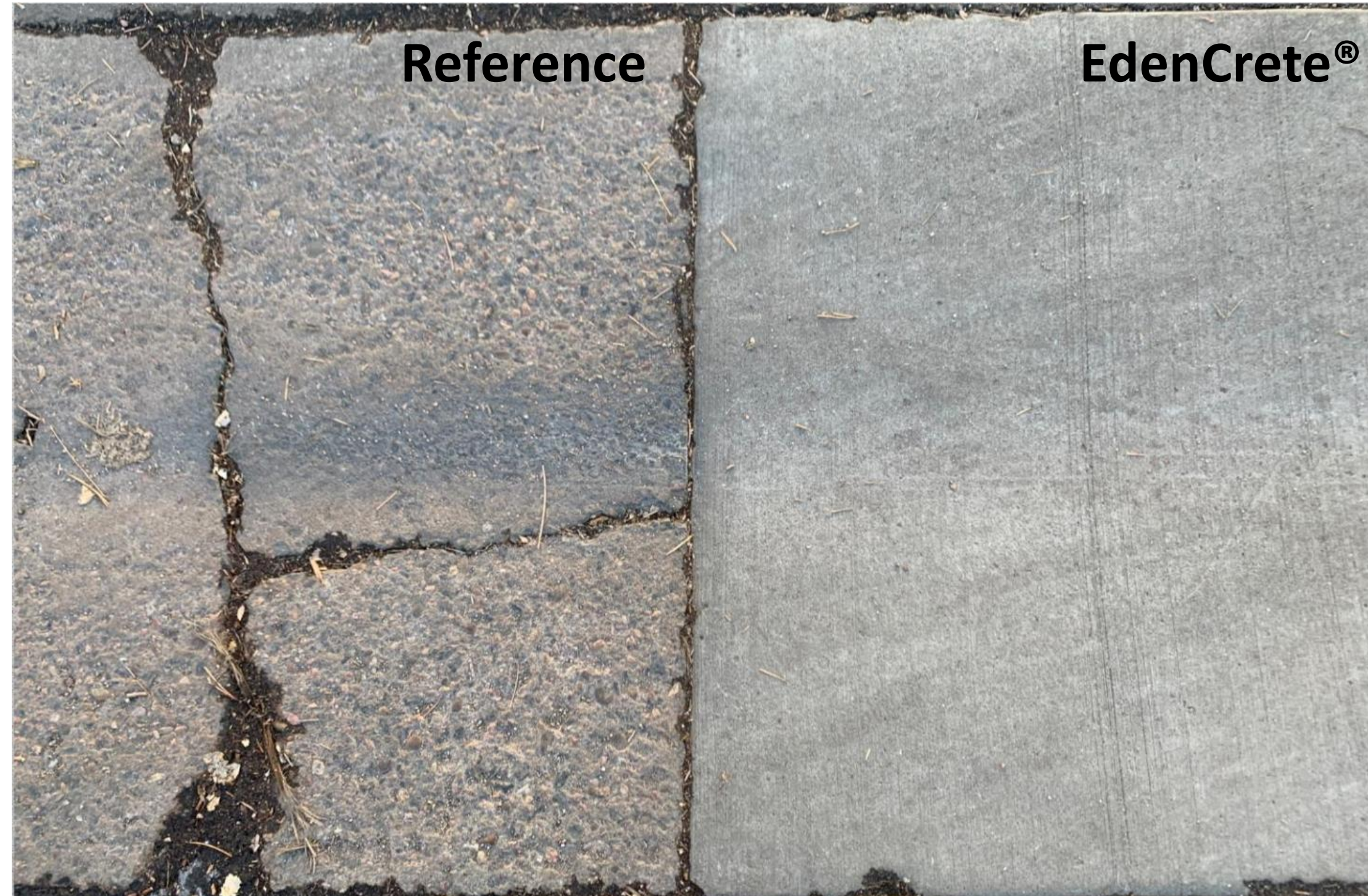
Durability is hard and slow to sell
Owner – Contractor – RMC
Concrete evaluated on strength and slump
Projects win on cost
Difficult to specify durability

Eden's approach:

Keep selling durability, but need to diversify
Target the wish from RMC plants
... and let RMC sell concrete

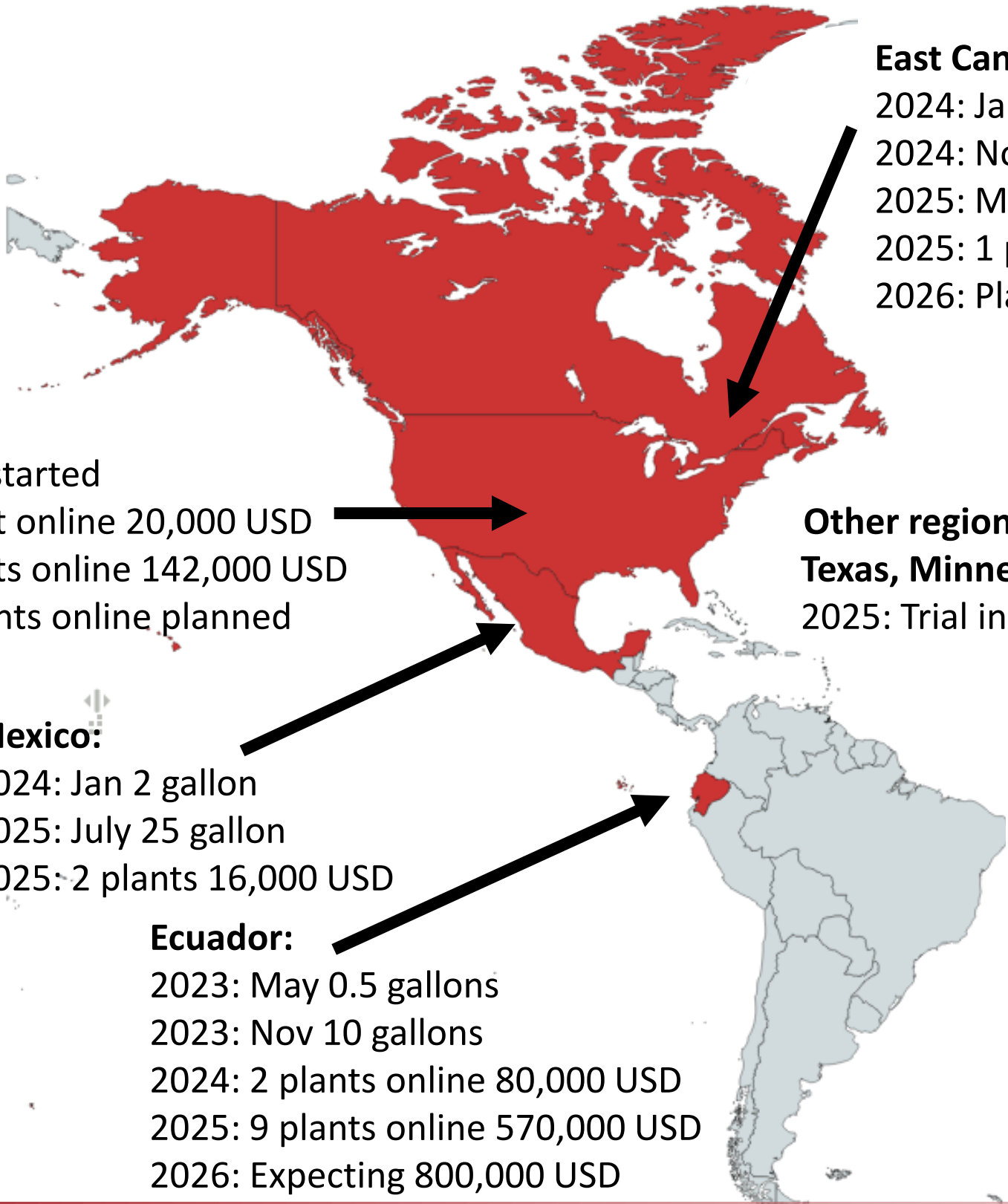
EdenCrete Pz and EdenCrete Pz7

2 new products developed
CNT based 'strength enhancers'
Gives cost efficient strength
EdenCrete Pz7 'beating the cost of powder'



Rollout of EdenCrete Pz7:

Business case: EdenCrete Pz7 to sell itself – Large US RMC groups



East Canada:
2024: Jan 0.5 gallons
2024: Nov 10 gallons
2025: Mar 6,400 USD
2025: 1 plant online 16,000 USD
2026: Plan for 5 plants online

Other regional offices:
Texas, Minnesota, Massachusetts:
2025: Trial in progress

Colorado:
2023: Trials started
2024: 1 plant online 20,000 USD
2025: 5 plants online 142,000 USD
2026: 10 plants online planned

Mexico:
2024: Jan 2 gallon
2025: July 25 gallon
2025: 2 plants 16,000 USD

Ecuador:
2023: May 0.5 gallons
2023: Nov 10 gallons
2024: 2 plants online 80,000 USD
2025: 9 plants online 570,000 USD
2026: Expecting 800,000 USD



EdenCrete Pz7:
Cost-efficient strength sells itself!
Cost reduction from cement reduction and replacement
Self-generated growth inside large RMC group
Significantly reduces the sales cycle



Group #1: Exponential sales growth
2023: 0 plants, 0 USD
2024: 3 plants, 100,000 USD
2025: 17 plants, 750,000 USD
Group #1 has ca. 300 RMC plants in USA and Canada



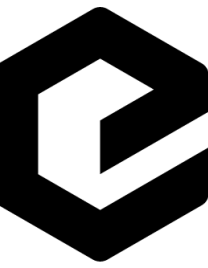
Group #2:
2024: 0 plants, 20 gallons
2025: 1 plant, 25,000 USD
2026: 2 plants, 2 more requested
Group #2 has ca. 800 RMC plants in the USA



Working with #3, #4, #5, ...

Roll out of EdenCrete Pz7: International

Business case: EdenCrete Pz7 to sell itself abroad



TOUGHER
STRONGER
CONCRETE

EdenCrete Pz7 in standard concrete

Pz7 typically adds 10 to 40% extra strength
Gives mix design freedom
Threshold of use depends on powder cost
Low-strength mixes at low powder cost: Difficult
Medium-strength mixes and higher: Easy

EdenCrete Pz7 in UHPC

Pz7 typically adds 5% to 25% extra strength in UHPC
Any strength gain is ALWAYS cost-efficient!
Boosting performance of existing mix designs
Or greatly reducing cost of equivalent performance
 $1.15^3 \approx 1.5$ and $1.25^3 \approx 2.0$

EdenShield – protecting critical infrastructure

Initiating collaboration with Israel university on Seismic and blast protection of UHPC with EdenCrete Pz7

France:

UHPC 20,000 psi
CO₂ reduction
Electromagnetic shielding,
Carbonation reduction

India:

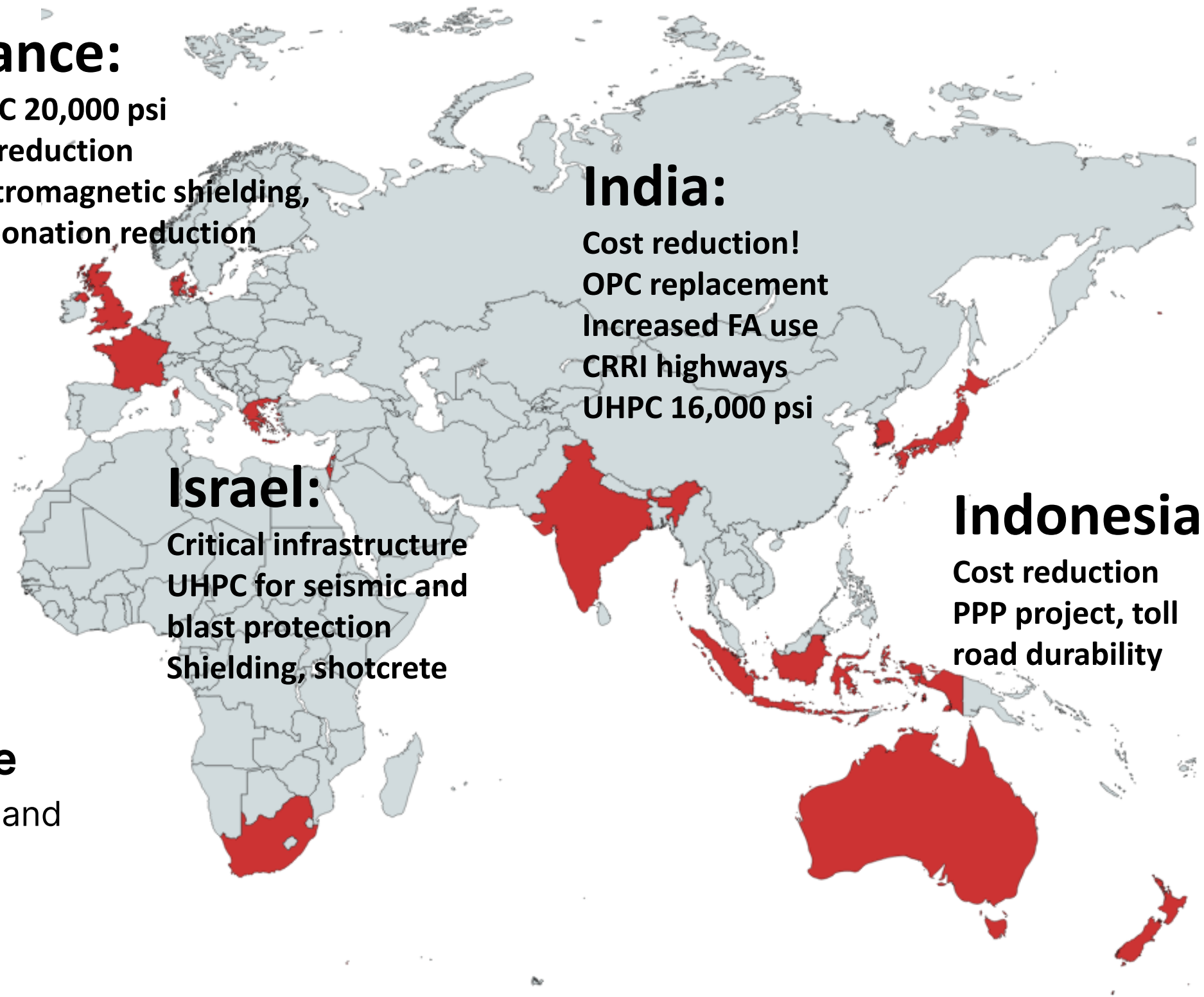
Cost reduction!
OPC replacement
Increased FA use
CRR I highways
UHPC 16,000 psi

Israel:

Critical infrastructure
UHPC for seismic and
blast protection
Shielding, shotcrete

Indonesia:

Cost reduction
PPP project, toll
road durability



Value of Strength Next level!

EdenCrete Pz7 in standard concrete

Pz7 typically add 10% to 40% extra strength

Gives mix design freedom

Threshold of use depends on powder cost

Low strength mixes at low powder cost: Difficult

Medium strength mixes and higher: Easy

EdenCrete Pz7 in UHPC

Pz7 typically add 5% to 25% extra strength in UHPC

Any strength gain is ALWAYS cost-efficient!

Boosting performance of existing mix designs

Or greatly reduce cost of equivalent performance

$1.15^3 \approx 1.5$ and $1.25^3 \approx 2.0$

EdenShield – protecting critical infrastructure

Initiating collaboration with Israel university on Seismic and blast protection of UHPC with EdenCrete Pz7

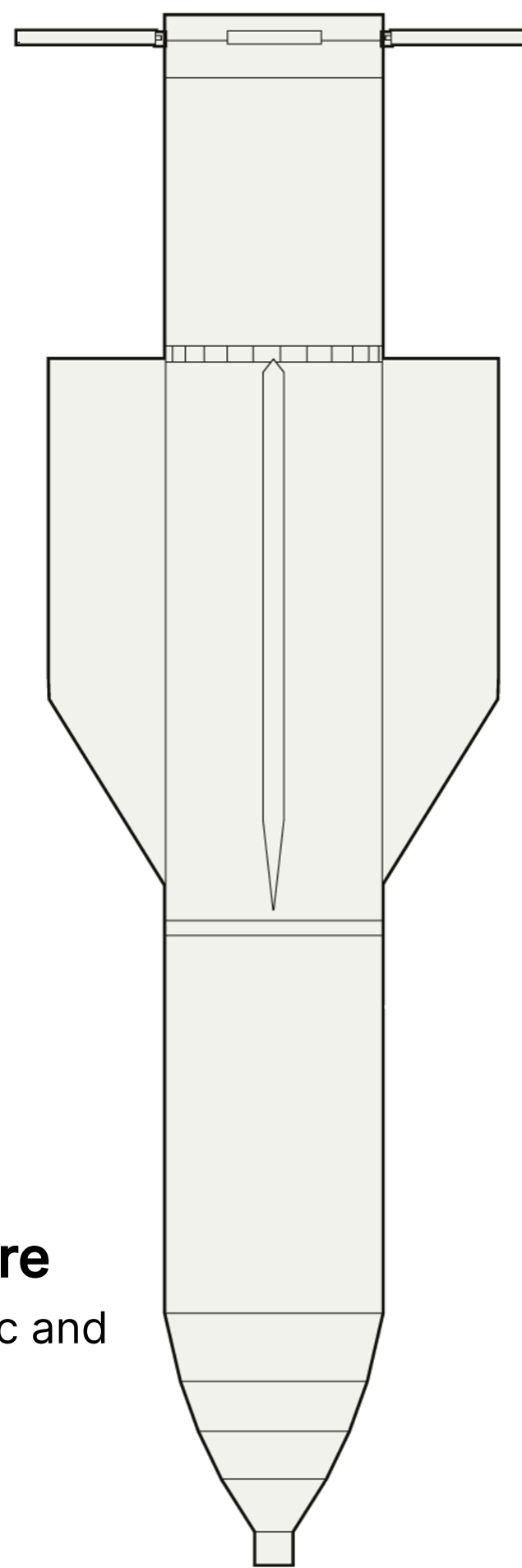


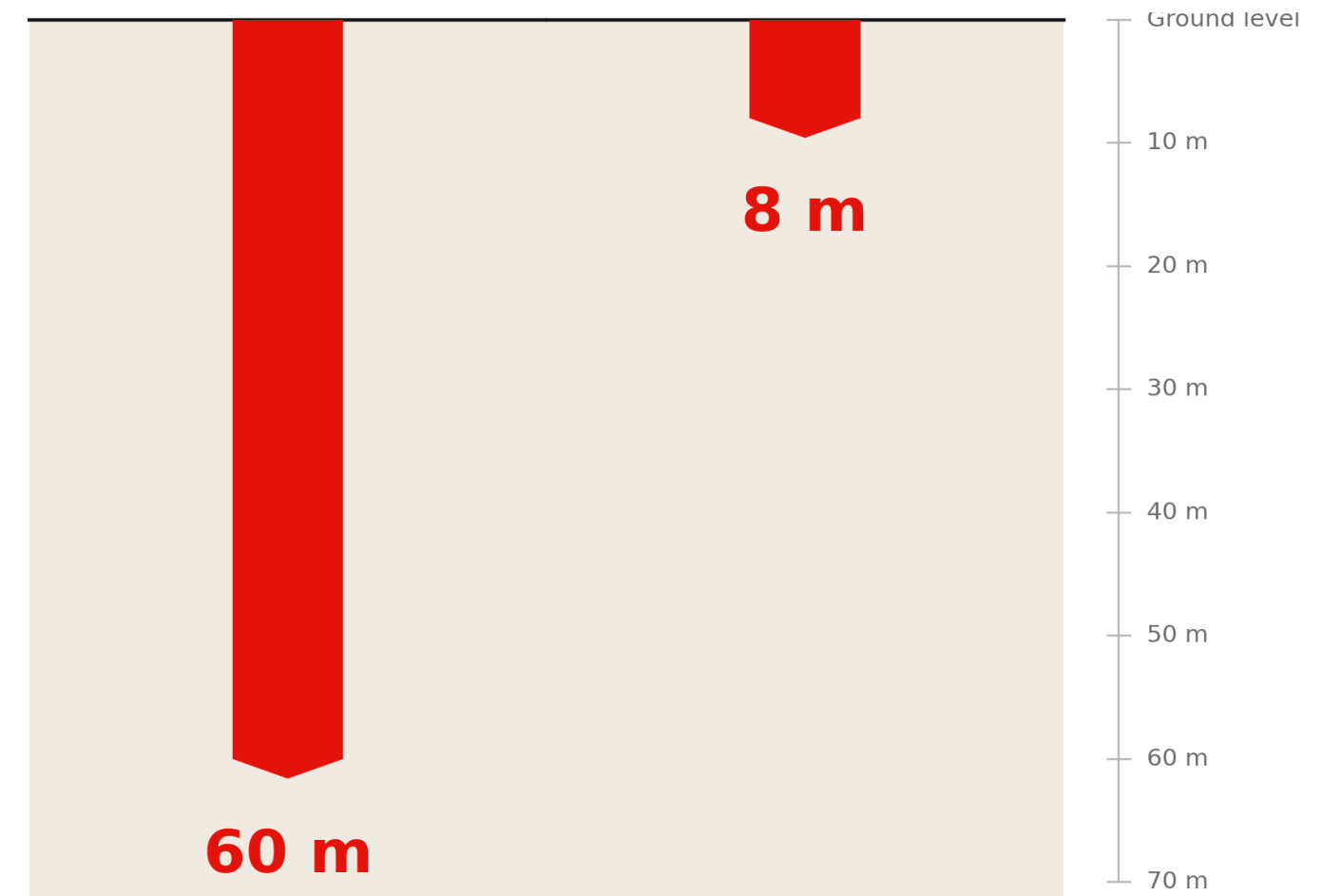
Photo: U.S. Department of Defense / Defense Threat Reduction Agency, public domain.

Busted by stronger concrete?

Estimated GBU-57 MOP penetration depth, by concrete compressive strength

5,000 psi

10,000 psi



Penetration figures: GBU-57A/B MOP, single-bomb best-case estimate.

Source: Dolzikova & Bronk, RUSI Commentary, March 2025; as reported by The Economist (June 2025)

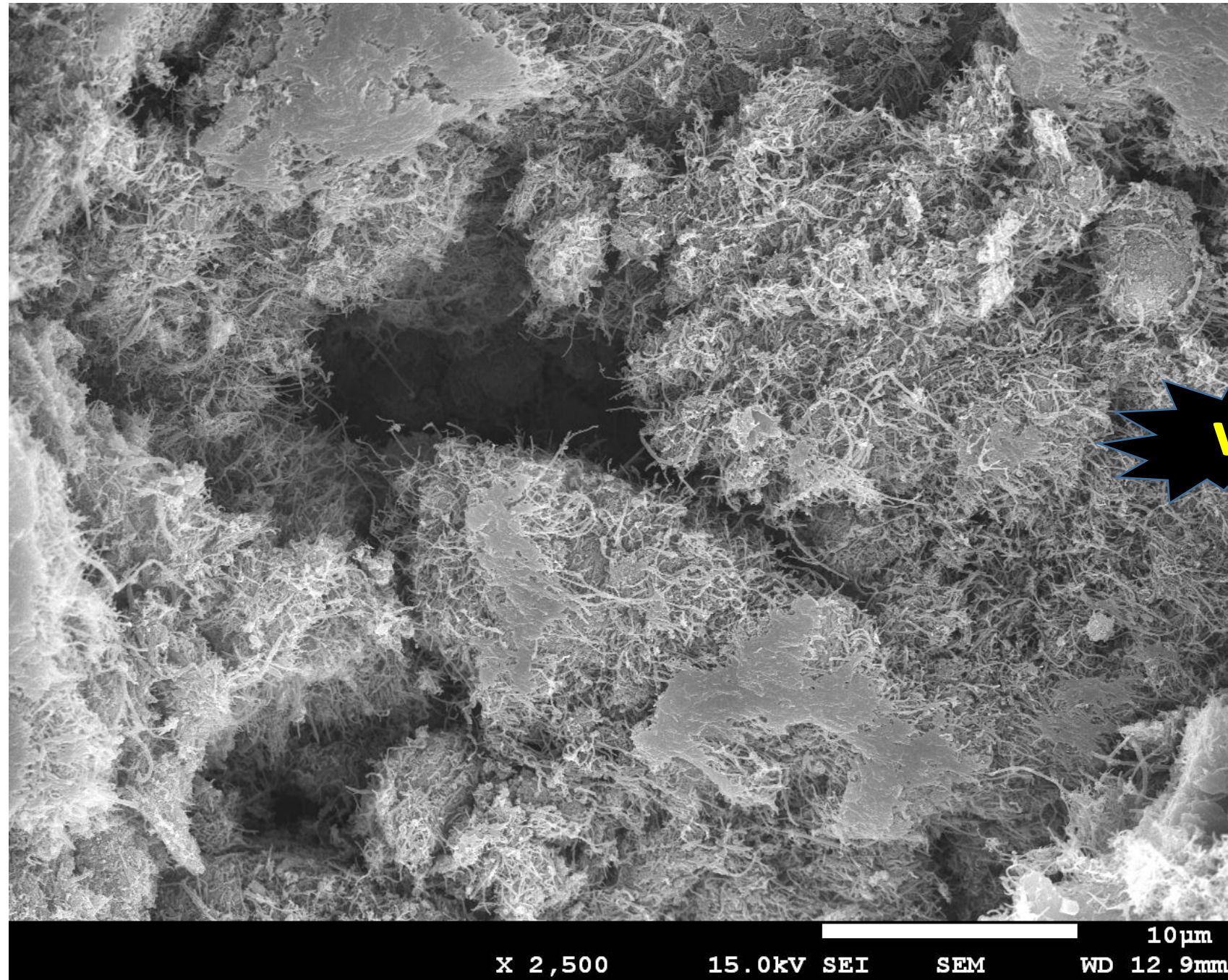
EdenPlast: 0.1 to 40% CNT

Final product: CNT content of 0.1% to 5%(+) Masterbatch: Up to 40%



EdenPlast Masterbatch: 20 wt% CNT + 80 wt% PP

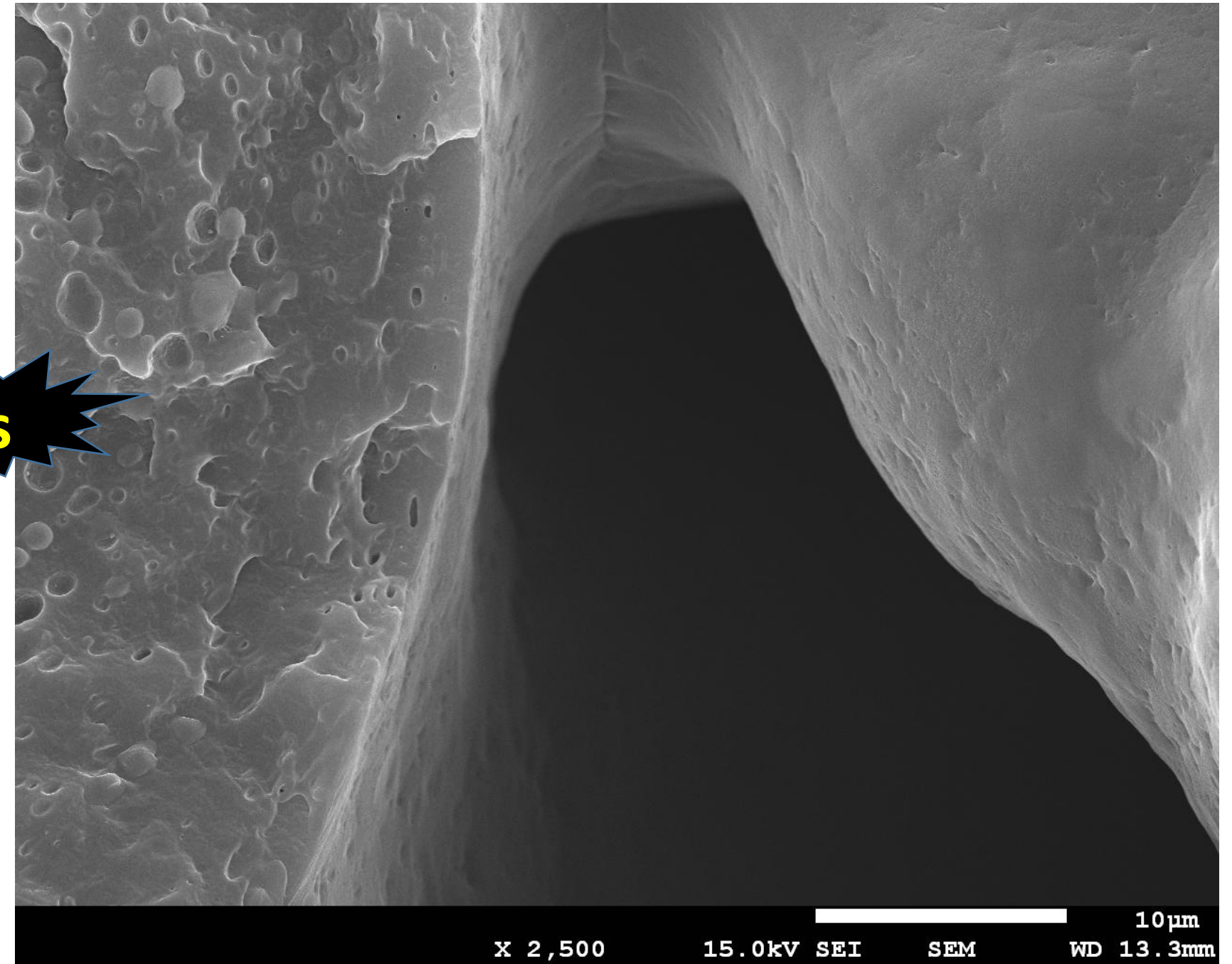
Conventional melt mixing vs EdenPlast CNT integration



Non-EdenPlast conventional melt mixing

Localized presence of non-dispersed, agglomerated CNTs

VS



EdenPlast 20 wt% CNT masterbatch

Highly consolidated composite usable for further melt dilution

EdenPlast: 0.1 to 40% CNT

Final product: CNT content of 0.1% to 5%(+) Masterbatch: Up to 40%



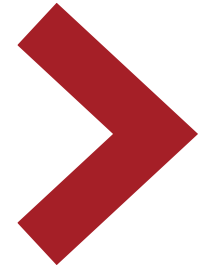
EdenPlast: CNT enriched polymers

Patented process

All steps scalable

Uses Eden's own CNT

Cost efficient – Even for stiffness and strength



Properties

Stronger – Tensile typically +20%

Stiffer – Modulus typically +50%

Electrical and Thermal conductance

Highly increased UV-stability

Greatly improved recyclability

Possible radio wave and EMP protection

Possible “cloaking” – CNT are “perfect” black!



Commercialization

Eden selling a license and CNT

Eden to produce masterbatches, up to 40% CNT

Eden to produce high value polymer products





Remember Eden Innovations was a gas company:



Adding Dual Fuel capability to diesel generators

Substitute 50% to 70% of diesel usage with natural gas
Superior backup power flexibility
Can extend emergency backup power by 2.5 to 3.0 times
Can be installed on new and existing generators
Typically fast ROI from fuel savings



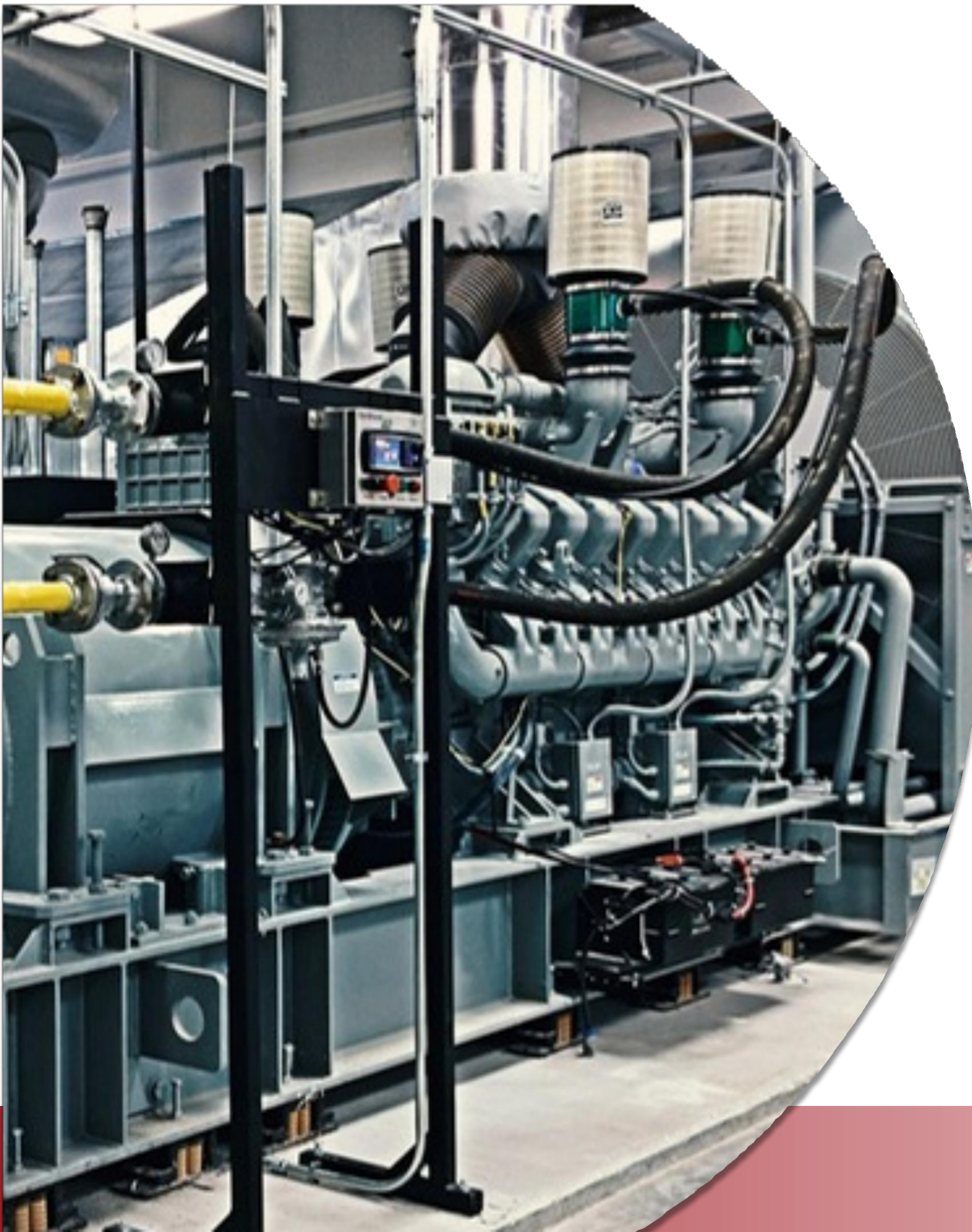
Eden's inhouse technology

Designed, build, and custom-fitted by Eden
800 kits sold over the last 17 years
Continue to develop and improve
Fits almost all known diesel generator sizes and brands
Emission reduction: Reduces NO_x CO₂ and PM



OptiBlend under EdenShield

Protect critical infrastructure from power outages
Secure emergency power for critical operation:
Hospitals, data centers, and other critical electricity needs





Remember Eden Innovations was a gas company:

Adding Dual Fuel capability to diesel generators

Substitute 50% to 70% of diesel usage with natural gas
Superior backup power flexibility
Can extend emergency backup power by 2.5 to 3.0 times
Can be installed on new and existing generators
Typically fast ROI from fuel savings

Eden's inhouse technology

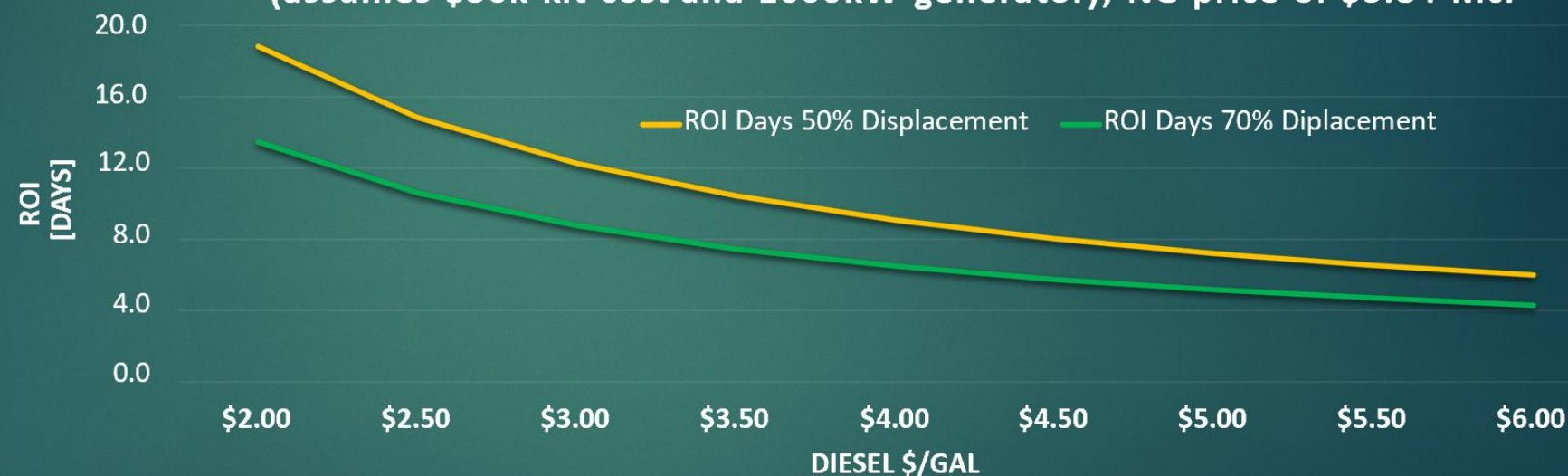
Designed, build, and custom-fitted by Eden
800 kits sold over the last 17 years
Continue to develop and improve
Fits almost all known diesel generator sizes and brands
Emission reduction: Reduces NO_x CO₂ and PM

OptiBlend under EdenShield

Protect critical infrastructure from power outages
Secure emergency power for critical operation:
Hospitals, data centers, and other critical electricity needs



ROI Days (24-hr run/day) versus Diesel Gallon Cost
(assumes \$30k kit cost and 1000kW generator); NG price of \$3.84 Mcf



EdenShield by Eden Innovations

Advanced Materials and Energy Technologies for defense and critical infrastructure

Background

- Built on 40+ years of hydrogen and gas systems innovation
- 11 yrs commercializing CNTs & delivering proprietary CNT products
- 18 yrs delivering commercialized energy technologies
- Approximately \$20 million invested in IP
- EdenShield® business division launched 2026 to target military, defense & infrastructure



CNT-based technologies & products

EdenCrete®

CNT-enriched liquid concrete admixture products

- Ultra High-Performance concrete
- Strength ↑ (less material req'd)
- Durability ↑ (longer asset life)
- Thermal conductance
- Electromagnetic shielding
- Blast protection

EdenPlast®

CNT-enriched plastics & polymers

- Increased strength
- Electromagnetic shielding
- Radar absorbing properties (RAM)
- Increased heat dissipation
- Electrical and Thermal conductance

CNT-enriched paints & coatings

- Electromagnetic pulse & radio-wave shielding
- Radar absorbing materials (RAM)
- Highly increased UV-stability
- Electrical and Thermal conductance

Energy Solutions

OptiBlend®

Dual-fuel retrofit technology for existing diesel engines

- Superior fuel flexibility
- **Protect critical infrastructure from power outages**
- Extend emergency power run time by 2.5 to 3.0 time longer

EdenShield by Eden Innovations

Advanced Materials and Energy Technologies for defense and critical infrastructure

Application and initial targets:

- EdenCrete Products:
- Ports, Airports, Data centers, shelters, Safe rooms, and where needs are
- OptiBlend:
- Hospitals, Data centers, military bases, critical infrastructure
- EdenShield® business division launched 2026 to target military, defense & infrastructure



CNT-based technologies & products

EdenCrete®

CNT-enriched liquid concrete admixture products

- Ultra High-Performance concrete
- Strength ↑ (less material req'd)
- Durability ↑ (longer asset life)
- Thermal conductance
- Electromagnetic shielding
- Blast protection

EdenPlast®

CNT-enriched plastics & polymers

- Increased strength
- Electromagnetic shielding
- Radar absorbing properties (RAM)
- Increased heat dissipation
- Electrical and Thermal conductance

CNT-enriched paints & coatings

- Electromagnetic pulse & radio-wave shielding
- Radar absorbing materials (RAM)
- Highly increased UV-stability
- Electrical and Thermal conductance

Energy Solutions

OptiBlend®

Dual-fuel retrofit technology for existing diesel engines

- Superior fuel flexibility
- **Protect critical infrastructure from power outages**
- Extend emergency power run time by 2.5 to 3.0 time longer

EdenShield

Eden Innovations

Advanced Materials and Energy Systems for Defense & Critical Infrastructure

Thank you

Allan Godsk Larsen M.Sc., Ph.D.
Chief Scientist, Managing Director
Eden Innovations Ltd
aglarsen@edeninnovations.com
www.edeninnovations.com

This presentation was approved for release by the Directors of
Eden Innovations Ltd

