

eden

Innovations that work.™



Annual General Meeting

24 November 2017

EDE:ASX



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FORWARD LOOKING STATEMENTS

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Statements relating to Eden's future production capacity and sales levels, and business and financial performance; Statements relating to future research and development results and regulatory approvals of Eden's products; Statements relating to Eden's competitive position; and Other statements relating to future developments that you may take into consideration. Actual results of Eden's operations may differ materially from information contained in the forward-looking statements as a result of risk factors some of which include, among other things: global economic stability, continued compliance with government regulations regarding production and use of carbon nanotubes in the U.S. or any other jurisdiction in which Eden conducts its operations; changing legislation or regulatory environments in the U.S. and any other jurisdiction in which Eden conducts its operations; credit risks and product sales affecting Eden's revenue and profitability; exposure to product liability claims; changes and new competitive products in the specialty concrete admixture industry; the level of market acceptance and demand for EdenCrete™; Eden's ability to effectively market all the product it can produce; Eden's ability to manage its growth, including implementing effective controls and procedures and attracting and retaining key management and personnel; changing interpretations of generally accepted accounting principles; the availability of capital resources, including in the form of capital markets financing opportunities; and general economic conditions.

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EdenCrete®- Major Achievements Over Past 12 Months

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1. **GDOT** - added to specifications for slab replacement concrete mix.
 - all state funded repairs from 1 July 2017; ≈22 projects - Est. US\$1m-\$2m p.a.
 - FHWA approval in GDOT federal funded jobs-first job worth <US\$1.2m.
 - Trials underway for use in new concrete roadways.
2. **TxDOT** - Approval/Sales - pre-stressed bridge beams - current est. value <US\$1.4m p.a. and growth is targeted
3. **DOT Approvals** - Approved in 10 States, applications in another 12 States
4. **Colorado** - successful trials with extreme levels of salt/road chemicals.
5. **MARTA** - possible upcoming projects being discussed.
6. **New products** - High concentration / pozzolanic versions
7. **Colorado Production Scale-Up** - Completed

Corporate Objective

To Build a Globally Significant Clean Technology Innovations Company

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Short to Medium Term Strategy

- Significantly increase US sales of EdenCrete® over next two years
- Expand Product Range
 - EdenCrete®
 - EdenCrete® P and EdenCrete® HC release early 2018
 - EdenPlast® under development
- Increase OptiBlend® sales in India and USA
- Consider Dual US Listing at Appropriate Time

EdenCrete® - Major Target Markets

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USA

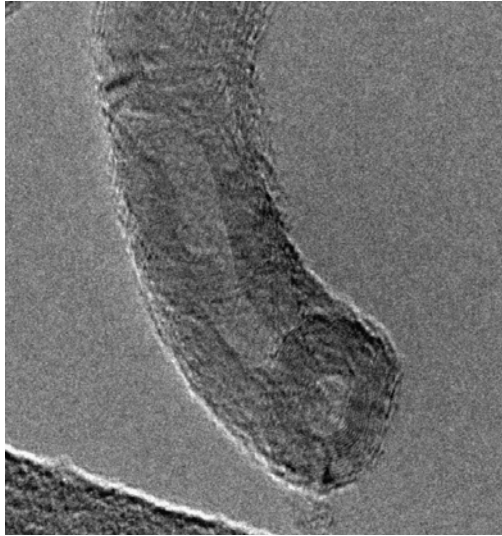
- DOTs across the US - bridges and roads - \approx 40% of US concrete market
- Precast manufacturers - \approx 30% of US concrete market
- Ready-mix suppliers - \approx 30% of US concrete market
- Pozzolanic concrete - \approx 30% of all concrete used

INTERNATIONAL

- North America/ Europe/ Asia/ Oceania

Carbon Nanotubes

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TEM image of Eden's MWCNT

- Tensile Strength: 100-300x steel
- Weight: \approx 17% of steel
- Thermally and electrically highly conductive

Applications

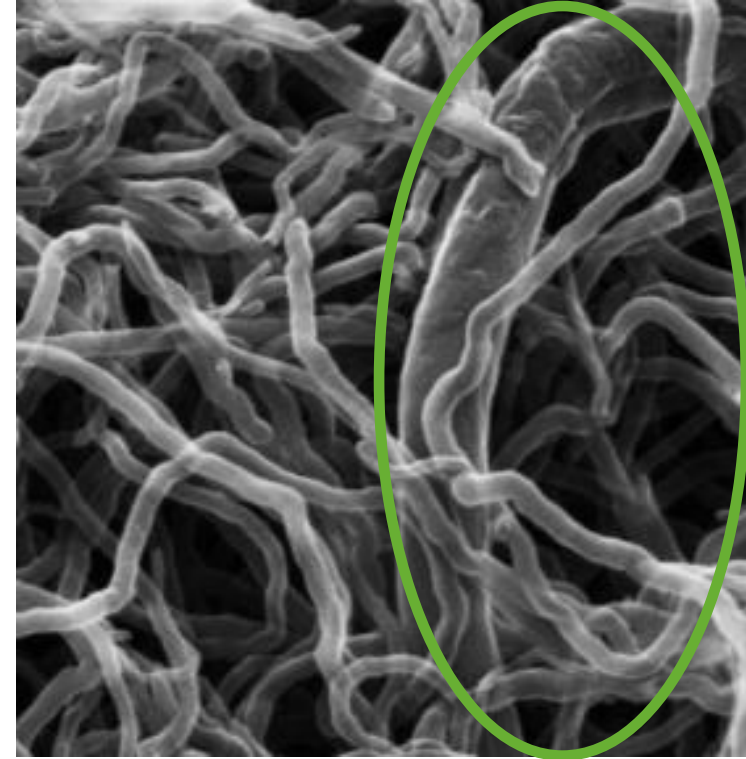
- **Concrete** - improves many key performance characteristics
 - global market estimated at more than \$600BN - \$700 BN p.a.
- **Plastics** - strengthens many plastics and polymers
 - global market estimated at \$350BN p.a.

CNT provide:

- **Nucleation points for dense, cement hydration - builds on surface of CNT**
- **Ultra-strong, nano-scale fibre re-enforcement**

EdenCrete® facilitates: denser, tougher, stronger cement and longer lasting, more durable concrete

- Increases flexural, tensile & compressive strength, abrasion resistance, freeze/thaw resistance
- Reduces shrinkage, permeability and damage from salt and chemicals



CNT in fresh cement paste
Monash University - Helium ion microscope image

EdenCrete® Applications

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Suitable for Concrete made with either
Ordinary Portland Cement or Pozzolanic Cement



Increased Abrasion Resistance

Road & bridge surfaces,
pavements, floors



Reduced Permeability / Shrinkage

Roads, bridges, runways
Coastal/marine applications
Dams, sewer/water pipelines



Increased Flexural, Tensile & Compressive Strength

High rise buildings, bridges,
retaining walls, pre-fabricated

Products	Increases Compressive Strength	Increases Split-Tensile Strength	Increases Flexural Strength	Reduces Shrinkage	Reduces Permeability	Increases Abrasion Resistance	Drawback
EdenCrete™	●	●	●	●	●	●	None
Fibers (PP,PVA,ACRY,LOK)		●	●	●			Reduced workability, difficult to handle
Shrinkage Reducers				●			Strength reduction, expensive, reduces workability, impacts entrained air
Steel Reinforcement	●			●			Expensive, corrosion potential, weight factor, job-site safety
Surface Hardener					●	●	Potential alkali-silica reaction
Silica Fume, Fly Ash	●				●	●	Expensive, increased water, hard to handle, worker/workplace safety
Steel Fibres	●						Reduced workability, difficult to handle, job-site safety

Key Performance Characteristics / Applications

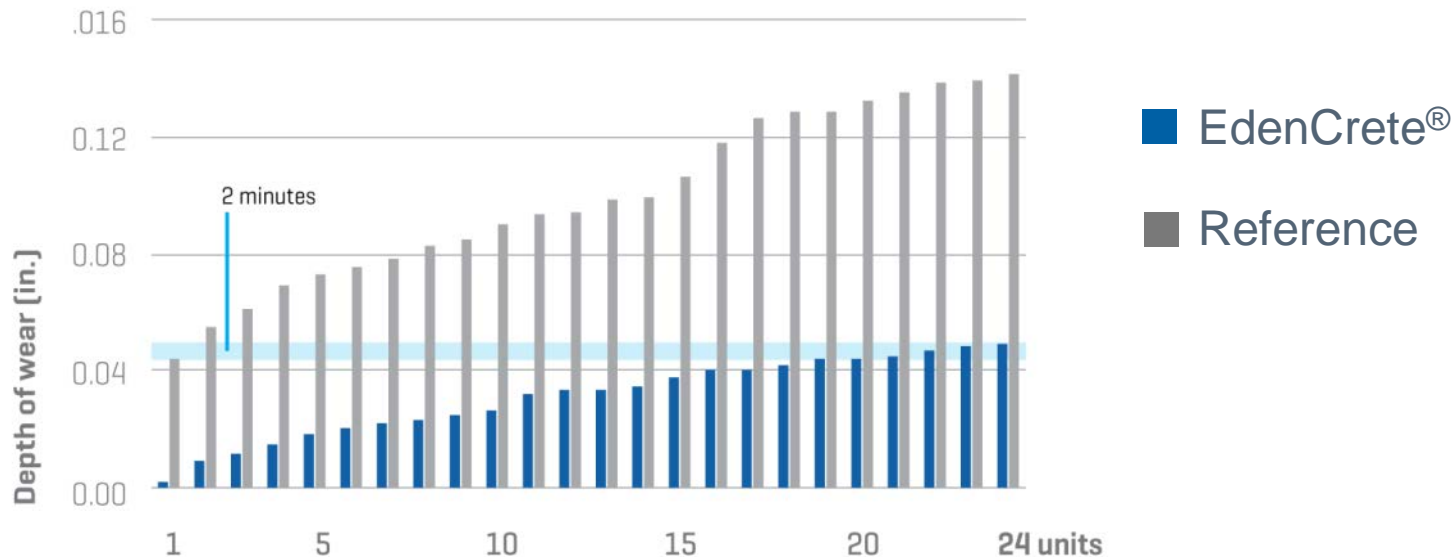
- **Permeability / salt resistance / freeze thaw** - roads, airfields, coastal, marine, dams, sewers
- **Abrasion resistance** - hard-stand areas, warehouse floors, roads, bridges
- **Flexural strength** - beams and slabs, roads and bridges, precast products
- **Early strength** - pozzolanic concrete - EdenCrete® P increases early strength

EdenCrete® - Abrasion Resistance

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59% Increase in Abrasion Resistance

ASTM C779, Proc. C



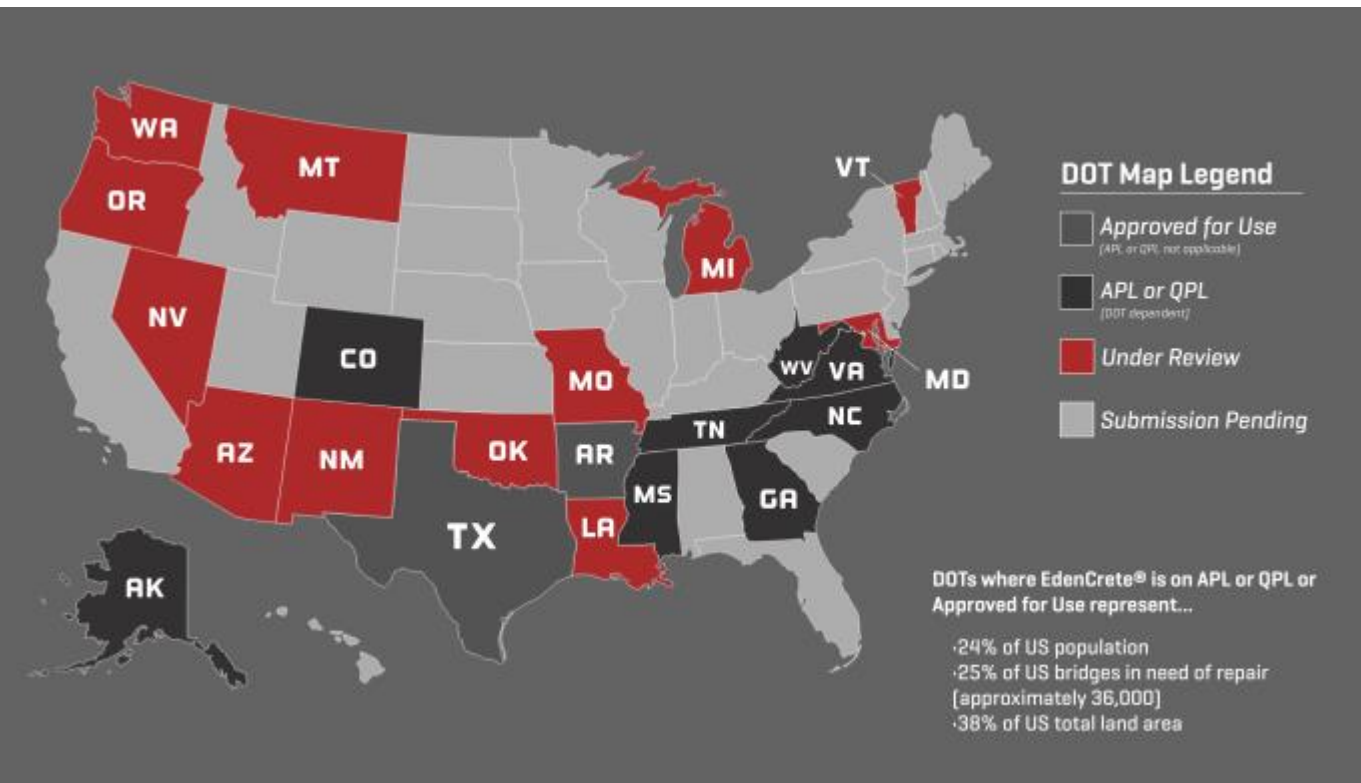
EdenCrete® - MARTA – Permeability Test Results

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Chloride Content (Wt. %)			
Depth (mm)	Control Mix - Not Ponded	Control Mix - Ponded	Penetrated Chloride Values
10 - 20	0.004	0.059	0.055
25 - 35	0.006	0.045	0.039
40 - 50	0.004	0.005	0.001
55 - 65	0.003	0.004	0.001
Depth (mm)	Test Mix - Not Ponded	Test Mix - Ponded	Penetrated Chloride Values
10 - 20	0.006	0.012	0.006
25 - 35	0.004	0.005	0.001
40 - 50	0.004	0.004	0.000
55 - 65	0.003	0.003	0.000

States where EdenCrete® approved by DOTs

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10 States Currently Approved

Alaska, Arkansas, Colorado, Georgia, Mississippi, North Carolina, Tennessee, Texas, Virginia and West Virginia, representing

- 24% of total US population
- 38% of total US land area
- 36,004 bridges structurally deficient/functionally obsolete or 25% of total US bridges in need of repair*

* DOT Fact Sheets Highlight Grim State of US Roads and Bridges – 9 July 2015

Georgia - Infrastructure Marketing and Sales

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GDOT - \$1.1BN p.a. budget

- EdenCrete® - ALL State funded repairs - GDOT budget ≈ \$20 million - 28 lane miles
- FHWA approval Sept 2017 - First GDOT project:
 - I-16- \$10million - 11 lane miles project - est. EdenCrete® budget ≈ \$1.2m
 - Annual GDOT federal repair budget ≈ \$18million - 20 lane miles
- Field trial for new road construction March 2017
- \$11 billion proposed on various infrastructure/PPP projects over 8 years
- 2,600 structurally deficient/ functionally obsolete bridges* - 200 repairs in next 2 years

MARTA - US\$400 million p.a. repairs; US\$2.6 billion expansion - planned

* Source: U.S DOT – DOT Fact Sheet Highlight Grim State of U.S Roads and Bridges (July 9 ,2015)

Texas - Infrastructure Marketing and Sales

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TxDOT

- Budget: ≈ \$28 billion over next two years
- Approval of EdenCrete® for bridge beams in 2 concrete mixes for Valley Pre-stressed Products, a major precast manufacturer
- 3 year bulk supply contract signed with Valley Pre-stressed and US\$300,000 orders received and shipped - possible US\$1.4 million + sales per annum
- Trials underway with other TxDOT approved precast manufacturers

Texas Bridges

- 52,500 bridges - 9,988 structurally deficient/ functionally obsolete*

EdenCrete® Precast Concrete – Mix Design Optimization - Texas

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AIM - Accelerate early strength to:

- Turn forms faster
- Release I-beams sooner
- Meet standards & save cost



Outcome:

- Reduced 930 lbs. to 800lbs total cementitious material (75% cement/ 25% Class F Fly Ash)
- Potential for 8 hrs+ time saving
- Reduced total cost

Colorado - Denver Public Works

Follow-up Trials for De-Icing and Road Chemicals

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- Major follow-up trial to trials in September 2017
- Possible outcomes - widespread use in Denver and possible lead into CDOT (on APL)
- Relevant for many applications in colder climates around the world



CNT in Plastics / Polymers

UQ / Eden - ARC Linkage Research Project

Highly Encouraging Preliminary Results with CNT in Nylon 6

- High modulus (stiffness) / outstanding ductility / excellent dispersion of CNT
- Superior ductility / comparable tensile strength vs super-tough commercial Nylons
- Higher tensile strength vs comparable Nylon materials with similar ductility
- Visual clarity/ transparency - possibly suitable for super-tough-film grade
- Relatively low-cost processing method
- Possible suitable future markets - automotive and packaging markets
- ARC R&D project into possible commercial scale-up underway

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