



ACN 009 253 187

**AUSTRALIAN SECURITIES EXCHANGE ANNOUNCEMENT**

**1 JULY 2016**

**EDEN ENERGY LTD – INVESTOR PRESENTATION**

Please see attached ASX Announcement by Eden Energy Ltd (ASX: EDE) for further details.

**Background**

Tasman through its wholly owned subsidiary, Noble Energy Pty Ltd, holds 493,198,298 fully paid shares in Eden (representing 42.37% of the total issued capital of Eden) and 101,356,779 EDEO options representing 45.81% of the issued EDEO options. This equates to 1.3 EDE shares and 0.27 EDEO options held for every Tasman share issued.

Based on the last traded prices on the ASX of EDE (\$0.23) and EDEO (\$0.205) on 30/6/16, this investment had a market value of \$134 million, which is equivalent to 35.4 cents for every currently issued TAS share.

A handwritten signature in black ink, appearing to read 'Greg Solomon', is displayed on a light yellow rectangular background.

Greg Solomon

Executive Chairman



# Investor Presentation

1 July 2016

Greg Solomon

# Disclaimer



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## FORWARD LOOKING STATEMENTS

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# Disclaimer- Continued

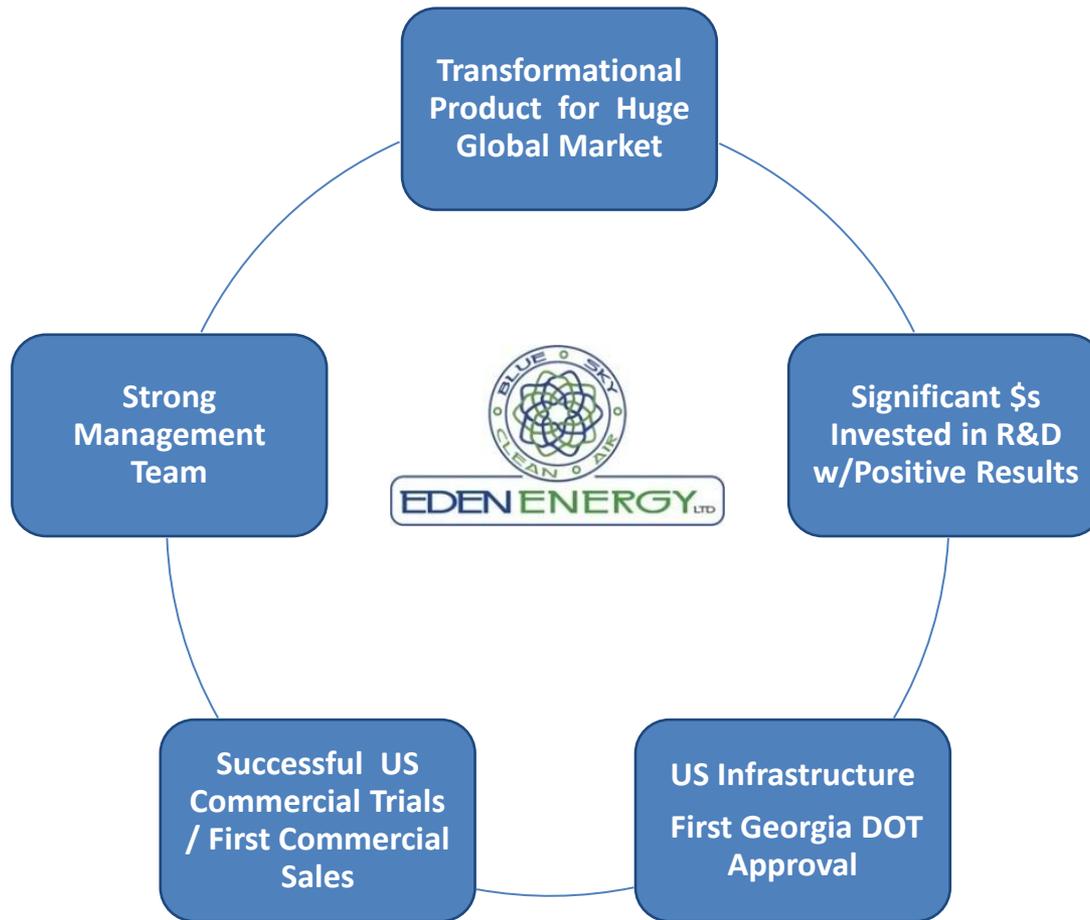
**Forward-looking statements include, but are not limited to, the following:**

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.

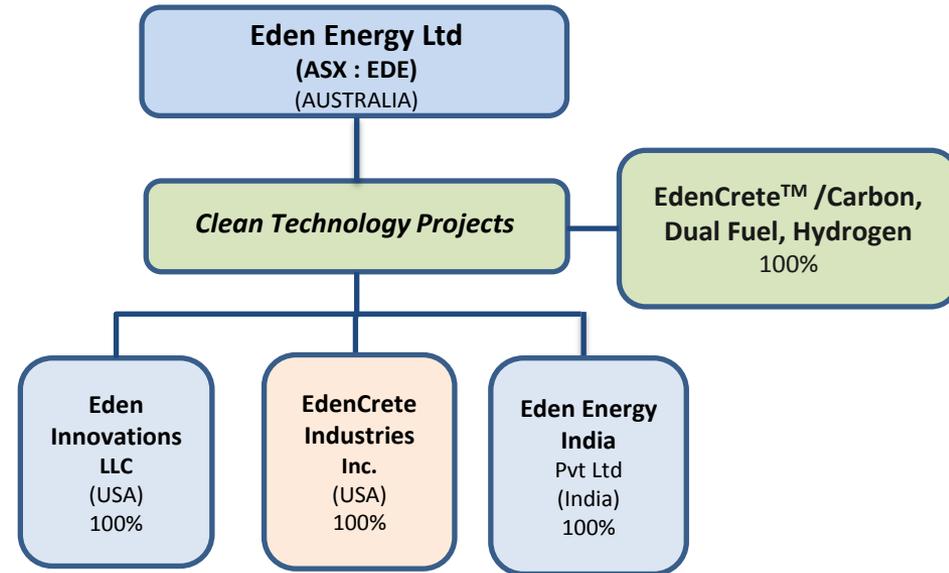
**This presentation has been prepared as a summary only and does not contain all information relating to Eden's assets and liabilities, financial position and performance, profits and losses and prospects: it should be read in conjunction with all of the publicly available information in relation to Eden which has been released to the Australian Securities Exchange (ASX Code: EDE).**

# Investment Highlights



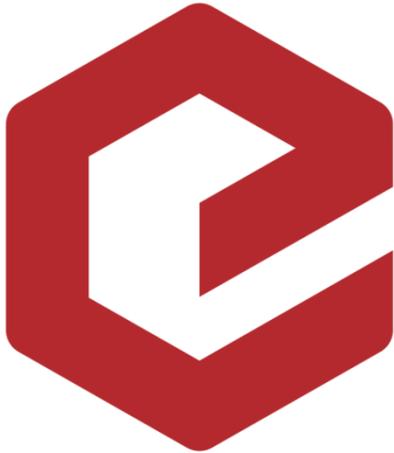
# Company Overview

<b>Issuer:</b>	Eden Energy Limited
<b>Exchange / Symbol:</b>	ASX: EDE
<b>Stock Price<sup>(2)</sup>:</b>	A\$0.23
<b>Market Cap<sup>(2)</sup>:</b>	A\$267 million (EDE only)
<b>LTM EBITDA<sup>(1)</sup>:</b>	A\$(2.5) million
<b>LTM Net Loss<sup>(1)</sup>:</b>	A\$(6.3) million
<b>Cash<sup>(2)</sup>:</b>	≈A\$11 million
<b>Debt:</b>	A\$0.0 million



- 1) As of December 31, 2015- Unaudited
- 2) As of 30 June 2016

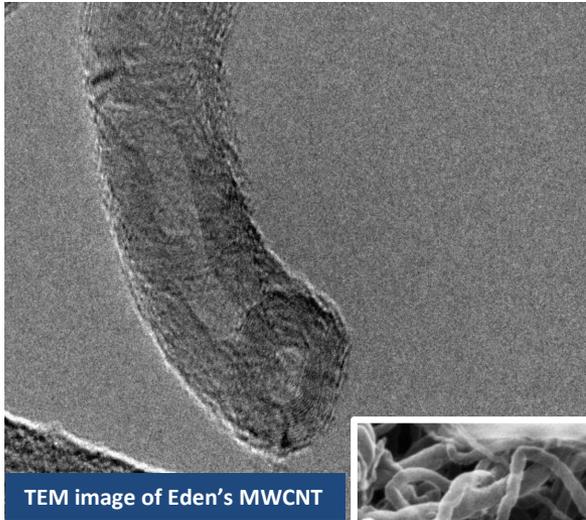
## EdenCrete™



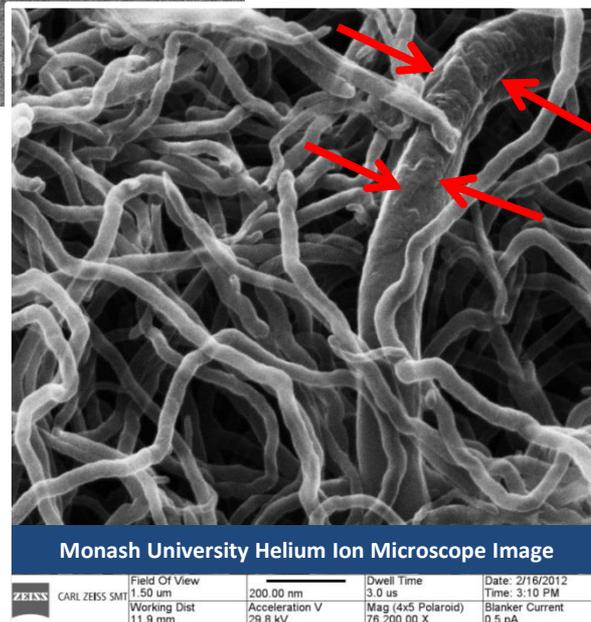
[www.edencrete.com](http://www.edencrete.com)

- **EdenCrete™ is a revolutionary concrete admixture using carbon nanotubes (CNT)**
- **EdenCrete™ outperforms other admixtures by optimizing strength and other characteristics**
- **Permits the use of less concrete and/or steel reinforcement for the same structural integrity**
- **Translates directly into cost savings (material & labor)**
- **Both lab and field testing have shown dramatic results**

# Carbon Nanotubes (CNT)



- **Tensile strength** 200-300x steel
- **Weight** ~17% of weight of steel
- **Strengthens concrete, plastics**
- **Produces more durable concrete**



**Build-up of dense, hydrated cement on surface of CNT (see image)**

- **CNT provide:**
  - Nucleation points for cement hydration
  - Ultra-strong nano-scale fibre reinforcement
- **CNT facilitate denser, tougher and stronger cement**

# Benefits of EdenCrete™



## EdenCrete™ builds strength with excellent workability

Products	Increases Compressive Strength	Increases Split-Tensile Strength	Increases Flexural Strength	Reduces Shrinkage	Reduces Permeability	Increases Abrasion Resistance	Drawback
<b>EdenCrete™</b>	●	●	●	●	●	●	None
Fibers (PP, PVA, Acrylok)		●	●	●			Reduced workability, difficult to handle
Shrinkage Reducers				●			Strength reduction, expensive, reduces workability
Steel Reinforcement	●			●			Vulnerability to corrosion, and weight
Surface Hardener					●	●	Compatibility issues (alkali-silica)
Silica Fume, Fly Ash	●				●	●	Expensive, increased water, hard to handle
Steel Fibers	●						Reduced workability, difficult to handle

# CNT in Concrete Applications

## Global Applications

- **Increased Abrasion Resistance**
  - Road & bridge surfaces, pavements, floors
  
- **Lower Permeability/ Lower Shrinkage**
  - Roads, bridges, runways (esp. freeze/ thaw and salt conditions)
  - Coastal and marine applications
  - Dams, spillways, sewer/water pipelines
  
- **Increased Compressive and Tensile Strength**
  - High rise buildings, bridges, retaining walls, pre-fabricated

## Pour In The Strength In These Key Areas



Abrasion



Flexural



Shrinkage



Permeability



Tensile



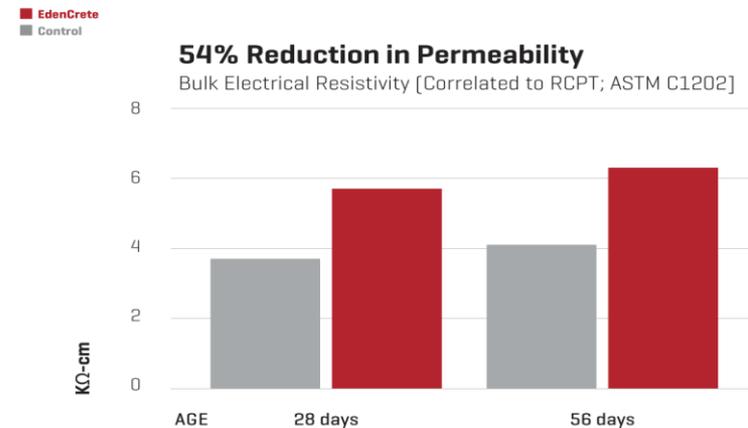
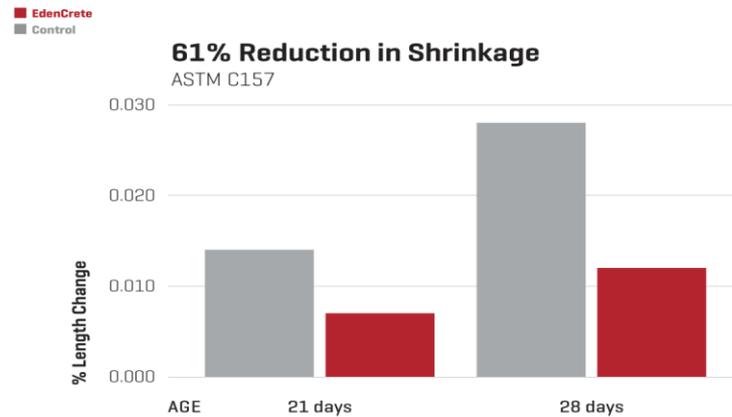
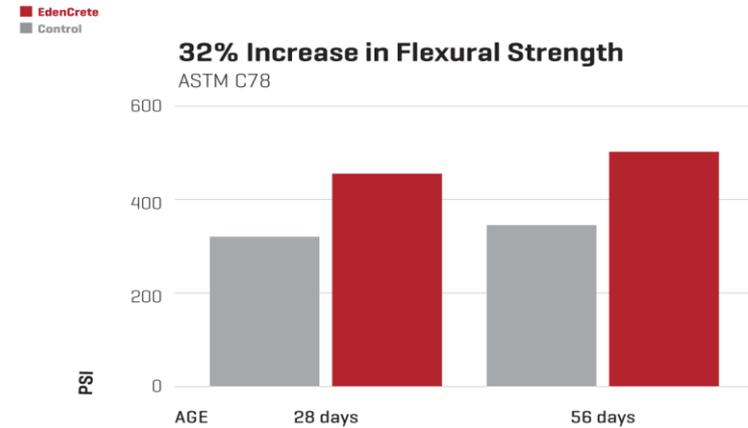
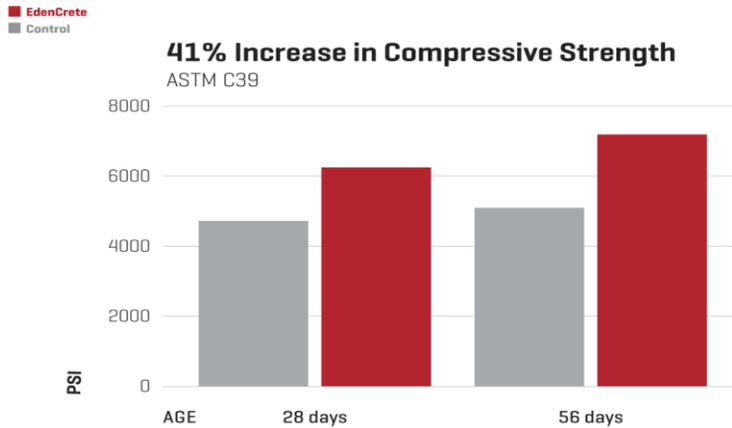
Compressive



Staining



## U.S. and Australian Concrete Trials – 2015-16

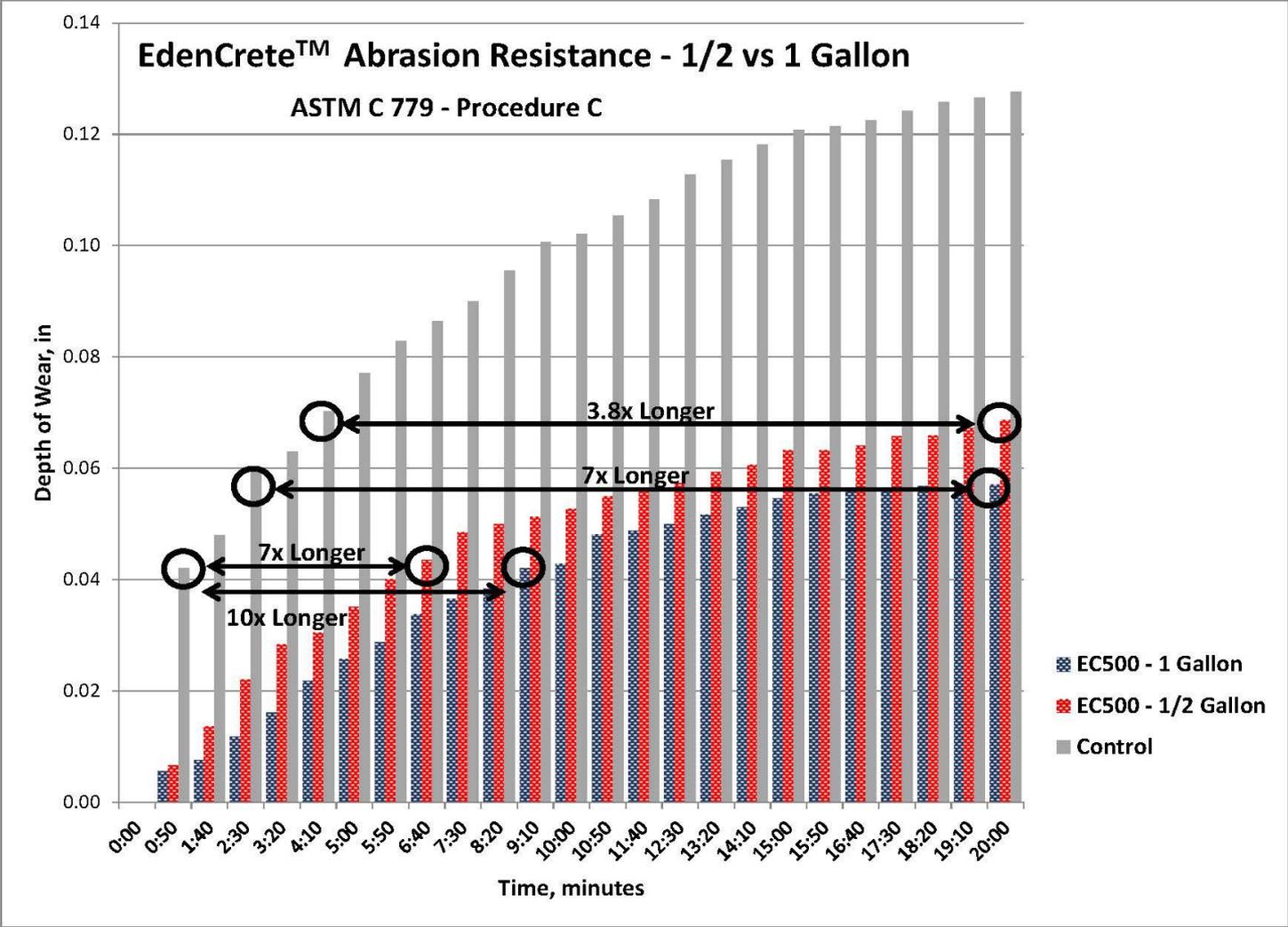


# ASTM C494 “S” - Results to 180 Days

EdenCrete™								
ASTM C494 Results								
(Reported by Intelligent Concrete LLC)								
Test	% Increase of EdenCrete (4gal/yd. <sup>3</sup> ) over Reference							
	Age (Days)							
	1	3	7	28	56	90	180	365
Compressive Strength (ASTM C39)	25%	35%	39%	41%	41%	39%	38%	12/1/16
Flexural Strength (ASTM C78)		25%	19%	32%	Complete			
Split-tensile Strength (ASTM C496)				29%	22%	Complete		
Abrasion Resistance (ASTM C779 Proc C)					56%	59%	Complete	
Length Change (ASTM C157; Shrinkage)	61% reduction; Complete							
Time of Set (ASTM C403)	Reduced: Initial Set 3 min, Final Set 4 min; Complete							
Freeze/Thaw Resistance (ASTM C666)	Reference=88.0, EdenCrete=96.4. 9.5% enhancement; Complete							

- Testing by Intelligent Concrete LLC. Intelligent Concrete is entitled to receive royalties on sales of EdenCrete™

# EdenCrete™ – Abrasion Resistance Performance Improvement vs Dose



# GDOT I-20 Field Trial – August 2015

Picture from August 2015 GDOT I-20 Field Test



## % Improvement with EdenCrete™<sup>(1)</sup>

- Compressive Strength - 45.8% at 56 days
- Abrasion Resistance - 56% at 56 days (20 Minute Trial)

## Outcomes

- GDOT Approval To Use in 24hr Mix / B Class Concrete
- 2nd Field Trial, Class A Concrete Q2/Q3 2016

## EdenCrete™ - Cost/Benefit Analysis<sup>(2)</sup>

- EdenCrete™ current price is \$25 per gallon
- Cost per yard determined by application rate<sup>(2)</sup>
- Anticipated Extra Cost ≈ 3%-20%<sup>(2,3)</sup>
- Anticipated Increased Service Life >100%
- Anticipated IRR ≈ 50%

Georgia Department of Transportation (GDOT)

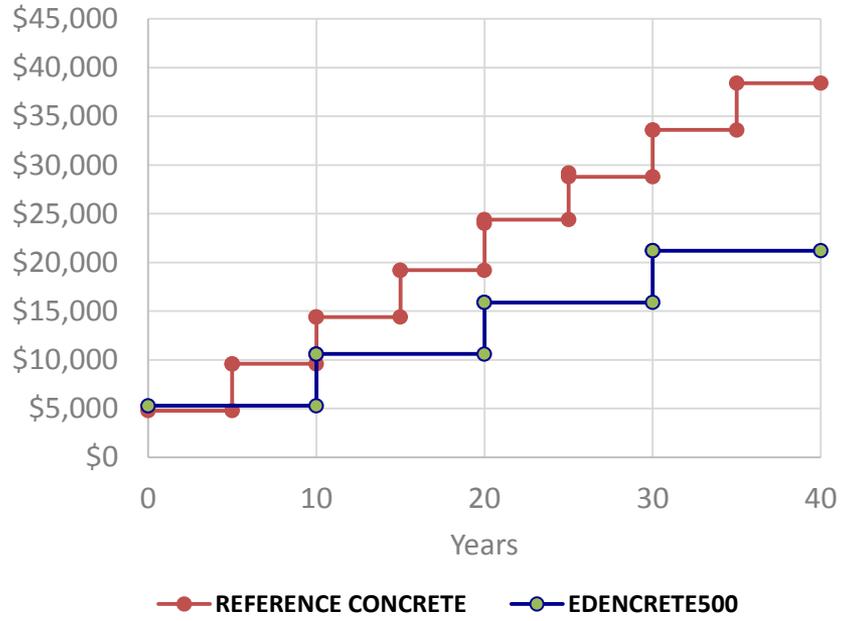
(1) 90 Days - 4 gallons

(2) Application Rate will vary for different targeted applications

(3) Based on total GDOT costs per yd<sup>3</sup>

# GDOT I-20 Cumulative Cost Analysis

## Anticipated Cumulative Cost Comparison



- Using EdenCrete™ for 25 years, 60% more repairs can be achieved on the same budget<sup>(1)</sup>

(1) Based on GDOT actual costs for I-20 Field Trial

## Cost Benefit Analysis

- Projected Extra Cost For GDOT
  - Based on total GDOT costs per yd<sup>3</sup> ≈ 3% - 20% (depending on dosage rate)
  - Dosage Rate will vary for different targeted applications
- Anticipated Increased Service Life >100%
- Anticipated IRR < 50%

# EdenCrete™ — First Commercial Project

## Ultra High Wear and Abrasion Resistance Application



Control Trial Slab after 6 months  
Significant cracks and evidence of wear



EdenCrete™ Trial Slab after 6 months  
No cracks or evidence of wear



Typical ultra high load / abrasive application at test site

### 6 month field trial - no cracking or visible wear - results in commercial order:

- 50% thinner than new ultra high strength slab
- Only EdenCrete™ (no steel mesh or rebar)
- No significant sub-base preparations
- At least a comparable 5-year service life
- Total cost saving of approximately 45%

# EdenCrete™ - First Infra-structure Project

## First Commercial Infrastructure Contract for EdenCrete™



**MARTA Brady Mobility Facility – Trial Concrete Slab  
Heavy Duty Wear/ High Abrasion Application**

**EdenCrete™ Trial Slab**

### Georgia- New State of Art MARTA Bus Garage

- Very heavy duty wear/abrasion from 200 buses
- EdenCrete™ used in  $\approx 160$  yds<sup>3</sup> (17 truckloads)
- MARTA - annual maintenance budget is US\$400m/planned US\$2 billion expansion of light rail system



# US Marketing Update- Initial Targets

## US Infrastructure (Highways /Bridges/MRT)

## Other Applications: Pre-Cast & Ready Mix Concrete, Coastal and Marine

### Interstate Highways (73,000kms\*)

- Use ≈48mt of cement p.a. (≈ 40% of US cement)\*
- ≈\$40 billion p.a. preservation/maintenance bill\*\*

### Georgia Infrastructure

- 14,700 bridges - 2,600 Structurally Deficient/ Functionally Obsolete \*\*\*
- GDOT \$1.1bn annual budget-planned-76 lane miles trucks- \$2.06bn
- MARTA-\$400m pa repairs- planned-US\$2.6bn expansion
- Fixing America's Surface Transportation Act 2015- US\$225.2 bn highway investment over 5 years

\* Source: U.S. Geological Survey Fact Sheet 2006-3127

\*\* Source: FHWA Highway Statistics 2013

\*\*\* Source: U.S. Department of Transportation - DOT Fact Sheets Highlight Grim State of U.S. Roads and Bridges (July 9, 2015)

## US Infrastructure

- **1<sup>st</sup> GDOT Field Trial** completed on I-20 Interstate Highway- August 2015
- **GDOT approval** for use in 24-hour repair mix/ B Class mix
- **GDOT specifications** for B Class being prepared
- **2<sup>nd</sup> GDOT Field Trial** approved - Class A Mix- new construction- Q3 2016
- **1<sup>st</sup> MARTA contract**- Brady Mobility Facility- May 2016

## Marketing/ Sales / Ongoing trials

- **Ready Mix Concrete** trials/sales
- **Pre-Cast/ Fabricated Concrete** trials/ sales
- **Sales Team** being assembled
- **Marketing Study** underway

# US Production Scale-Up

## Estimated Costs / Timetables / Outputs

Location	Est. Cost US \$	Estimated Output p.a.	Estimated Value <sup>(2)</sup> US \$ p.a.	Start Date	Date To Compete	Anticipated Source of Funds
<b>Colorado Stage 1</b>	Funding completed	108,000 galls p.a.	\$2.7m	Q1 2016	Q2 2016	Equity (completed)
<b>Colorado Stage 2</b>	≈\$3.5m	≈2.4m galls p.a.	\$50m-\$62m	Q2 2016	Q1 2017	Equity (completed)
<b>Georgia Stage 1a<sup>(1,3)</sup></b>	≈\$37m	12.5m galls p.a.	\$312.5m	Q4 2017/ Q1 2018	Q1/Q2 2019	Equity/ Cashflow/ Incentives/ Debt
<b>Georgia Stage 1b<sup>(1,3)</sup></b>	≈\$35m	50m galls p.a. (including Georgia Stage 1a output)	\$1.25 billion	2019/2020	2020-2022	Cashflow
<b>Georgia Stage 2<sup>(1,3)</sup></b>	≈\$60m	100m galls pa (including Georgia Stages 1a/1b output)	\$2.5 billion	2020 / 2021	2022-2023	Cashflow

(1) Land in Georgia is sufficient for expansion up to 10 stages (i.e. 500m galls. p.a. output).

(2) Based on Current Selling Price of EdenCrete™ - US\$25/ gallon- assumes all targeted production can be achieved and sold.

(3) Eden proposes to establish its large scale global production plant in Augusta, Georgia. The State of Georgia and the Augusta Economic Development Authority have agreed to provide a combined US\$24.7 million worth of financial incentives, including an IRB-financed grant of 112 acres of suitable industrial land worth approximately \$2.8 million, construction commitments aggregating approx. \$4.2 million and the balance being largely by way of abatement of future taxes and levies. Eden proposes to supply from Georgia, EdenCrete™ to the entire North American market and also export it to the rest of the world through the Port of Savannah.

## UQ/ Eden- ARC Linkage Research Project Highly Encouraging Preliminary Results with CNT in Nylon 6

- **Excellent combination of high modulus (stiffness) and outstanding ductility.**
- **Superior ductility /comparable tensile strength** vs super-tough commercial Nylons.
- **Higher tensile strength** vs comparable Nylon materials with similar ductility.
- **Excellent dispersion of CNT.**
- **Visual clarity and transparency** – potentially suitable for a super-tough-film grade.
- **Relatively low-cost processing method.**
- **Possible suitable future markets - automotive and packaging markets.**



**ASX: EDE**

**Greg Solomon**

**Executive Chairman**

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