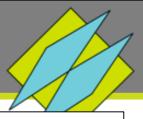
# Sunrise Resources plc

A DIVERSIFIED
MINERAL
EXPLORATION &
DEVELOPMENT
COMPANY

Presentation to:
Mining Maven
West Midlands Investor Evening
25 February 2017



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#### Directors & Officers



Patrick Cheetham Executive Chairman

A geologist with 35 years in exploration management and 30 years as executive director of public traded companies. Currently Executive Chairman Tertiary Minerals plc.



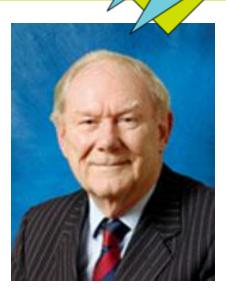
David Swan
Non-Executive Director

Chartered Accountant.
Former Group Leader in
Mining and Resource
Group, Ernst & Young,
Sydney and CFO of
Oriel Resources.
Currently a director of
Central Asia Metals plc.



Roger Murphy Non-Executive Director

CEO, Sula Iron & Gold plc. Former MD Investment Banking, Dundee Securities Europe Ltd. Worked as a geologist for various companies, including Anglovaal Mining and British Petroleum.



Colin Fitch
Company Secretary

Barrister-at-Law & Chartered Secretary. Formerly Corporate Finance Director Kleinwort Benson.

#### Shares & Shareholders

Shares on issue	1,214,710,167			
Share Price (mid. 22 February 2017)	0.14p			
52 Week Low-High Range	0.11p - 0.29p			
Current Market Cap.	£1.70 million			
Warrants				
282,875,000 exercisable at prices from 0.135-1.25 pence				

Notified Interests		%
Tertiary Minerals plc	136,454,787	11.2
Patrick Cheetham	75,776,599	6.2
Damille Investments Limited	56,500,000	4.7
Paul Johnson	52,025,589	4.3
Charles Hall	45,500,000	3.7

SRE	SRES Share Performance				
	Previous 5 years				
2.4					
1.8					
1.2	\ <b>/</b> \.				
0.6	A Markwar man				
0.0	Jan 13 Jan 14 Jan 15 Jan 16 Jan	17			

Directors' Interests		%
Patrick Cheetham	75,776,599	6.2
Roger Murphy	17,302,848	1.4
David Swan	8,710,863	0.7

SRES: 5 year share chart at 23 February 2017 www.iii.co.uk

## Company Strategy & Business Plan



1

#### **Strategic Objectives**

2

To generate cash flow from more advanced projects.

Industrial minerals projects have the greatest potential to achieve an early cash flow as these typically have fewer permitting issues enabling production to advance more quickly than base or precious metal projects.

To add value through mineral discovery by drill testing necessarily more speculative exploration targets.

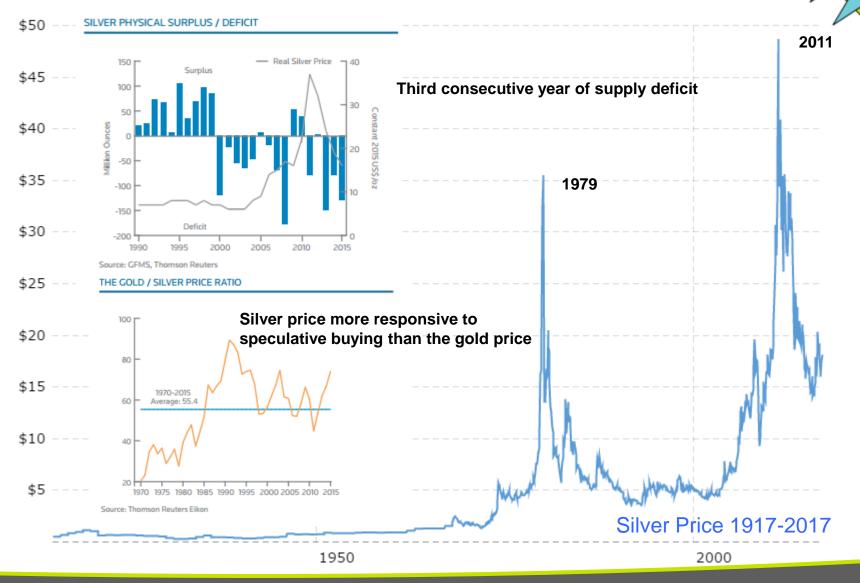
The highest value creation for shareholders in junior mining companies comes from early drilldiscovery of precious, base metal and diamond deposits.

#### **Company Business Plan:**

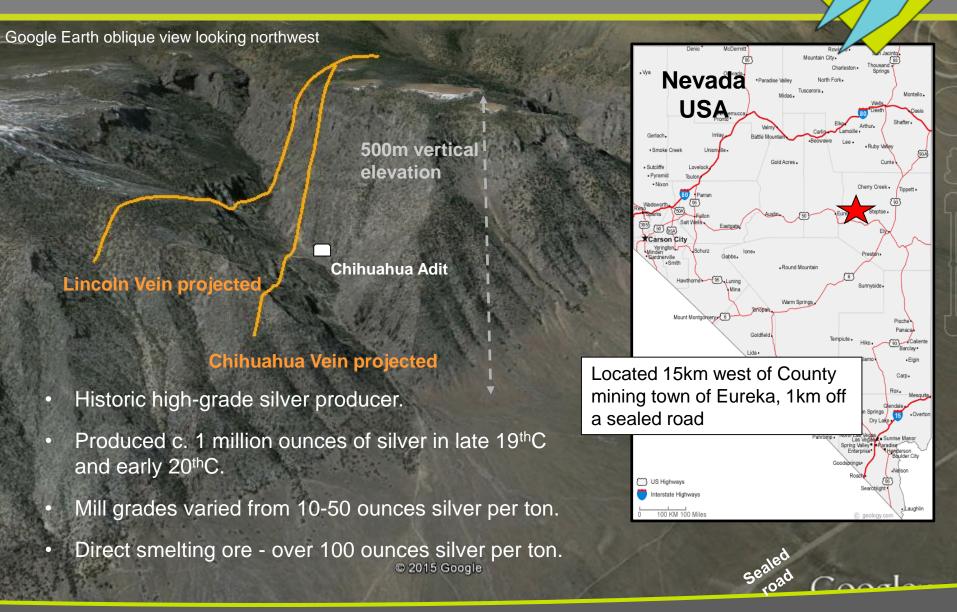
- Acquire 100% of a project through research and by staking or licencing of "open ground" from the relevant authority. This allows the Company to acquire 100% ownership of valuable assets at low cost.
- To run the Company with low overheads and be a low cost explorer.
- To farm-out certain projects to reduce exploration costs.



#### The Silver Market

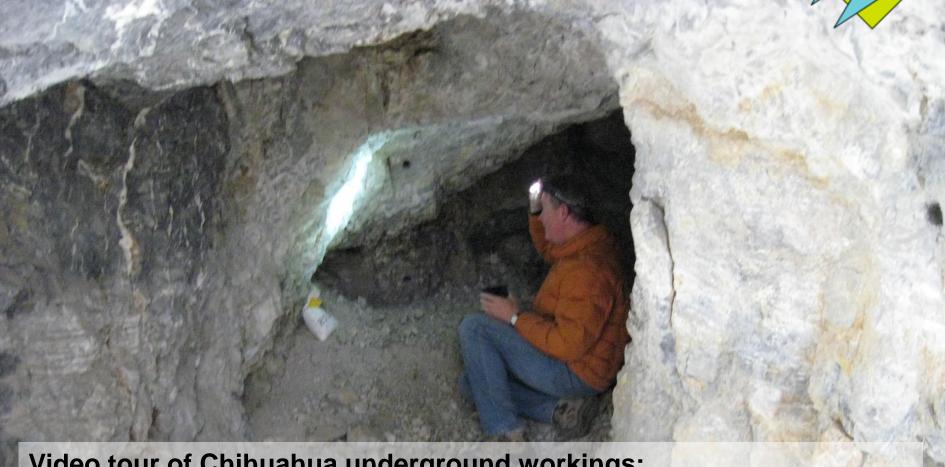


## Bay State Silver Project - Location



### Inside the Bay State Silver Mine





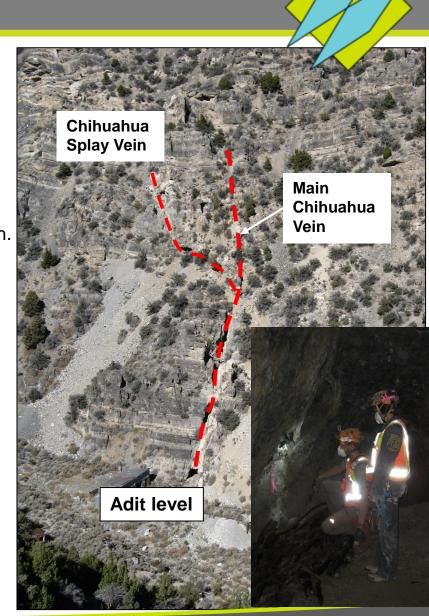
Video tour of Chihuahua underground workings:

http://www.sunriseresourcesplc.com/projects/bay-state-silver-project

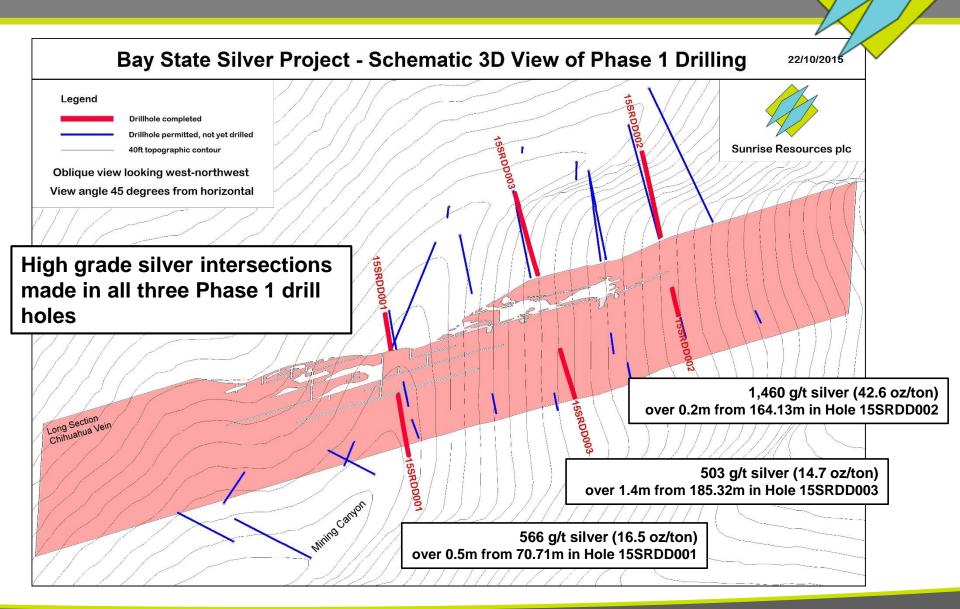
#### Exploration Pre-2016

#### Chihuahua Vein System

- Known strike length of nearly 1km.
- Surface sampling programme:
  - average over 11 ounces/ton silver over 280m strike length.
- Underground sampling programme north along the Chihuahua adit:
  - Bonanza values up to 4kg/tonne silver (0.4% or 117oz/t) within bedded replacement style mineralisation at end of adit over 61cm (2ft).
  - Over 1kg/tonne silver (1,123g/t or 33oz/t) average for 18 samples along 230m strike length to end of adit.
  - Base metals enriched up to 10% combined lead-zinc-copper.
- The vein remains open to the north and south.



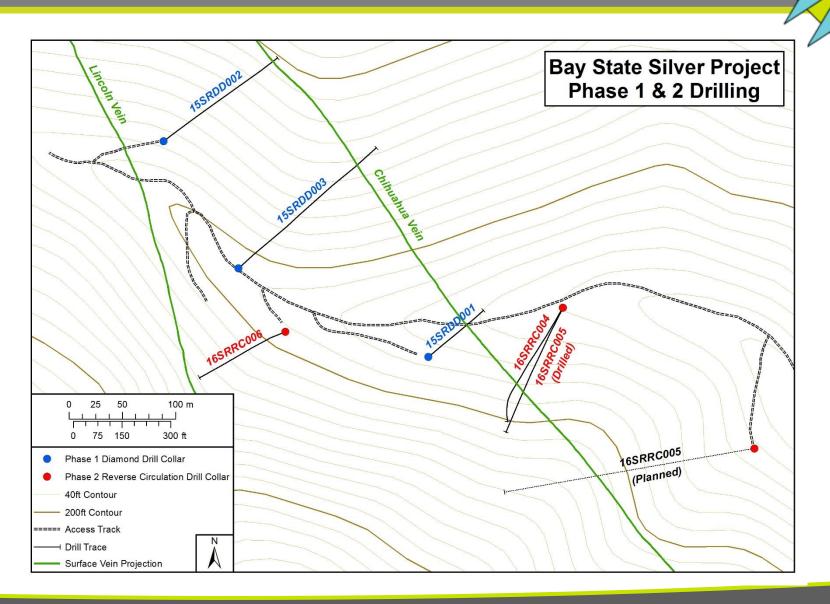
## Phase 1 Drilling (2015)



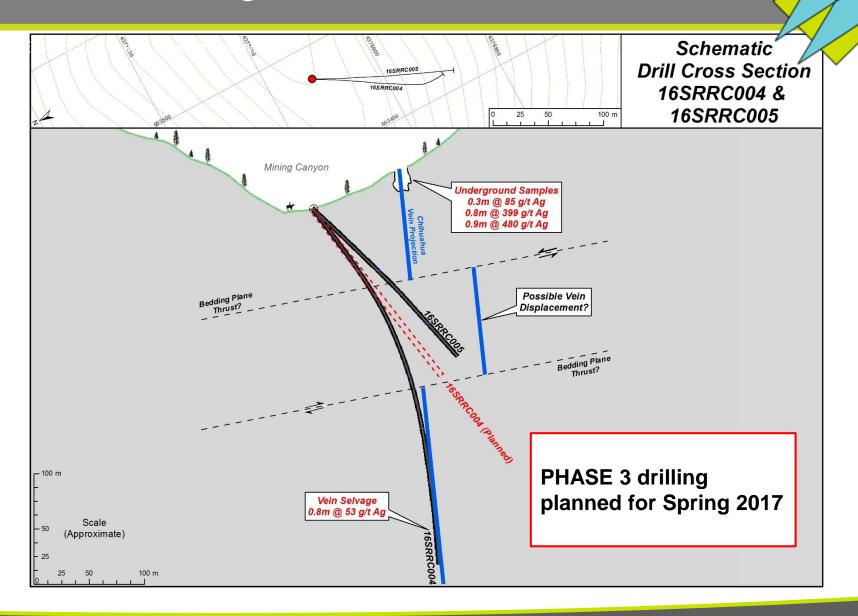
## Bay State Silver Project



#### Phase 1 & 2 Drill Plan



#### Phase 2 Drilling



### Westgold Inc., Nevada

Westgold is a dedicated vehicle formed in 2016 to acquire gold & silver projects in Nevada (& western US).

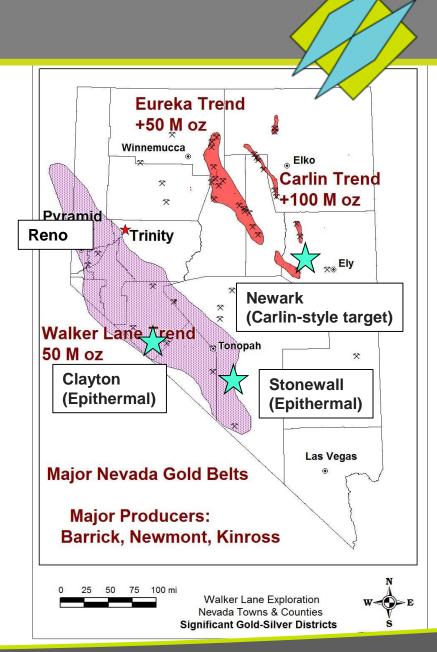
Concept: to take advantage of claim relinquishments made in the mining market downturn.

- Following low cost generator model;
  - sell, lease or JV.
- Dedicated vehicle to allow deal flexibility in financing.
- Staking completed at three projects so far:

Newark (Carlin-style gold target)

Clayton (Epithermal silver-gold)

Stonewall (Epithermal silver-gold)



### Westgold Inc., Newark Project

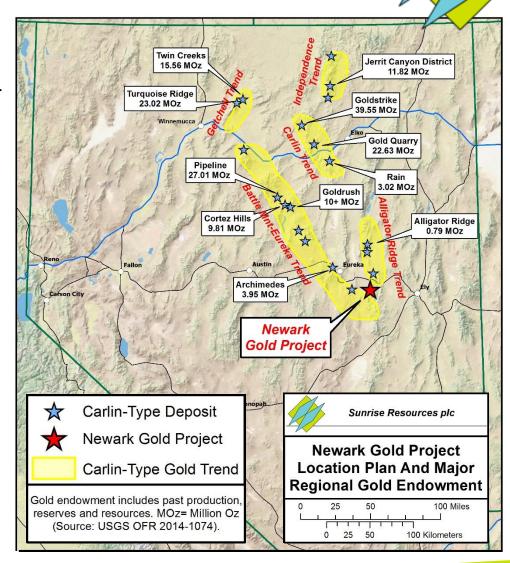
#### **Carlin-style mineralisation:**

Can be both large (e.g. Goldstrike, 39 million ounces gold @ 3.3 g/t) and high-grade (e.g. Barrick's recent Goldrush discovery, 10+ million ounces gold at a grade of 10.2 g/t).

Newark is located at south end of the Battle Mountain-Eureka Trend and Carlin-Bald Mountain-Alligator Ridge mine trends.

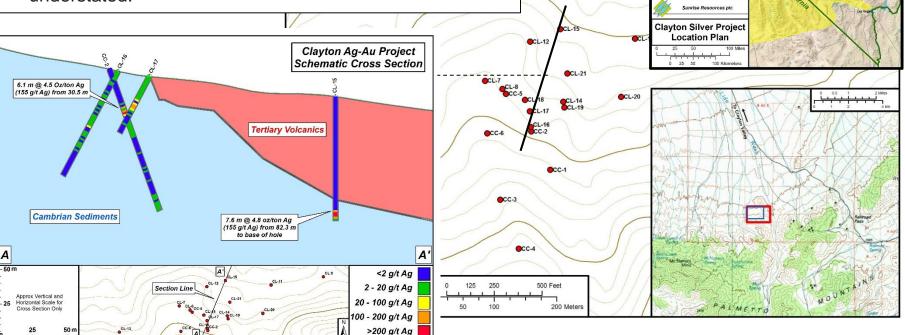
Newark project shows Carlin-style characteristics and analogies to nearby Alligator Ridge, Pan and Illipah Mines:

- Extensive rifting (extensional regime)
- Extensive silicification
- Thick gold-anomalous jasperoids overlying target stratigraphy in Joana Limestone and Pilot Shale
- Geochemical associations barite, etc.



## Westgold Inc., Clayton Project

- Located in Walker Lane porphyry/epithermal belt.
- Gold-silver limestone replacement target.
- Follow up historic drilling by Freeport McMoRan & Coeur.
- Wide spaced drilling results up to 7.6m grading 4.8 oz/ton silver and 0.4g/t gold at end of hole.
- Much of silver lost in the fines in drilling grades may be understated.



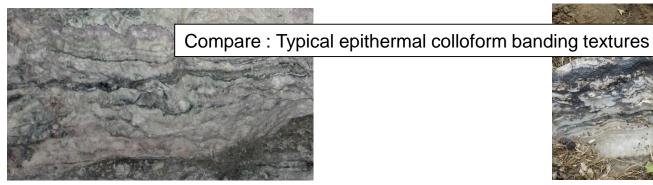
Yerington (Cu-Au)

Silver Project

Aurora (Au)



- Large epithermal vein system up to 30m wide.
- Close to major mined epithermal deposits at Goldfield and Tonopah.
- Anomalous in gold and silver. Targeting bonanza grades in boiling zones below outcrop.



Above: Midas Ken Snyder Mine, Nevada 3.7 million ounces @ grade 1.3 ounces gold/ton



Above: Stonewall Vein Textures



## Sunrise Resources plc

**INDUSTRIAL MINERALS** are the backbone of any economy:

- affordable raw materials for infrastructure development and maintenance
- Affordable raw materials for agriculture
- High value, high performance materials for various industrial & household products

#### **TOTAL VALUE USA:**

US Non-fuel Mineral & Metal Production: \$74.6 billion

US Industrial Minerals Production: \$51.6 billion

US Industrial Minerals Production: \$26.5 billion

(excluding aggregates)

US Metal Mine Production: \$23.0 billion

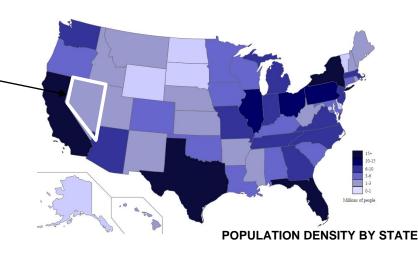
US Gold Production: \$ 8.5 billion

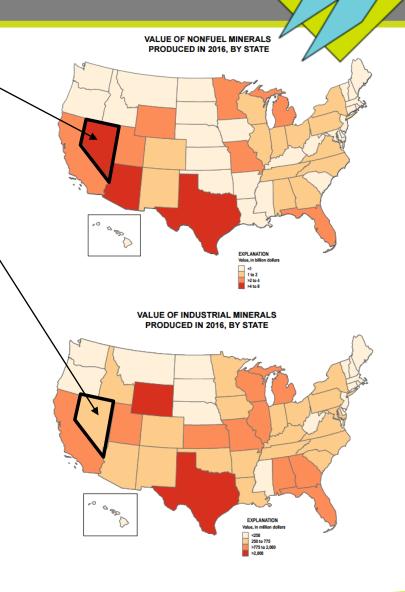


### Our Opportunity in Industrial Minerals

- Nevada is the No.1 Mining State in the USA
- Nevada is only No 19. in the value of industrial minerals production in the USA as developments mainly in metal mining
- Nevada's nearest neighbour, California,
   has the largest population of all the USA

Industrial Minerals should benefit from the Trump Administration's policies on infrastructure development

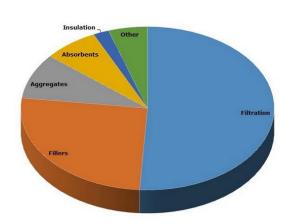




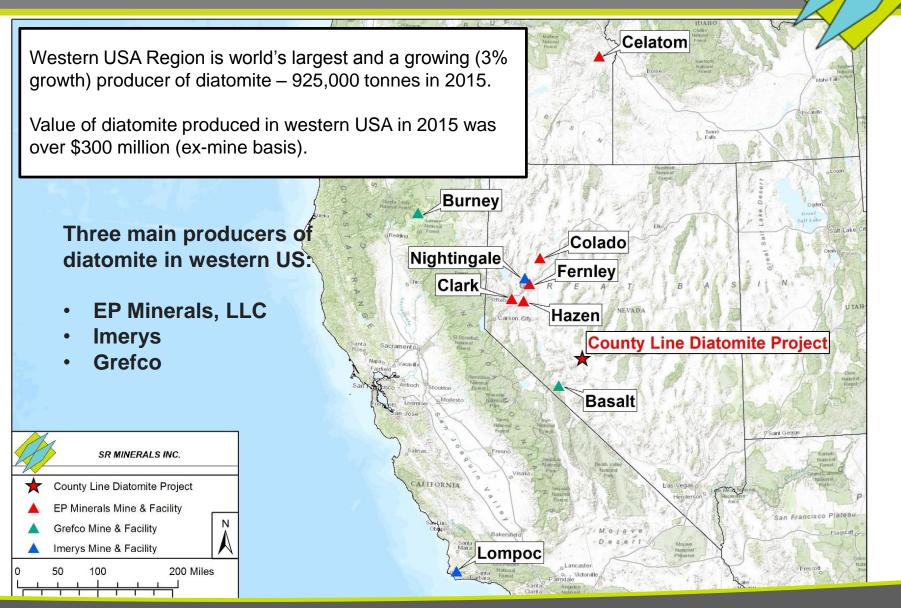
#### Diatomite - What is it? How is it used?



- Lightweight, porous, white, silica-rich rock formed by the accumulation of vast quantities of skeletal material from single-celled aquatic algae.
- It is used in **FILTRATION** of beer, liquor, wine, fats, fruit juices, biofuels and solvents due to high porosity and micro-porous texture used.
- Also used as an INDUSTRIAL FILLER, ABSORBANT, AGRICULTURAL FEED ADDITIVE & SOIL IMPROVER and as a lightweight AGGREGATE in construction.
- The value of diatomite varies widely from just US\$10s of dollars/ton for lightweight aggregate to over US\$1,000/ton for specialist products.
- Flux-calcined filter aids (58% of market): US\$640-880/ton FOB plant (source: Industrial Minerals Magazine).



#### Diatomite Production, Western USA



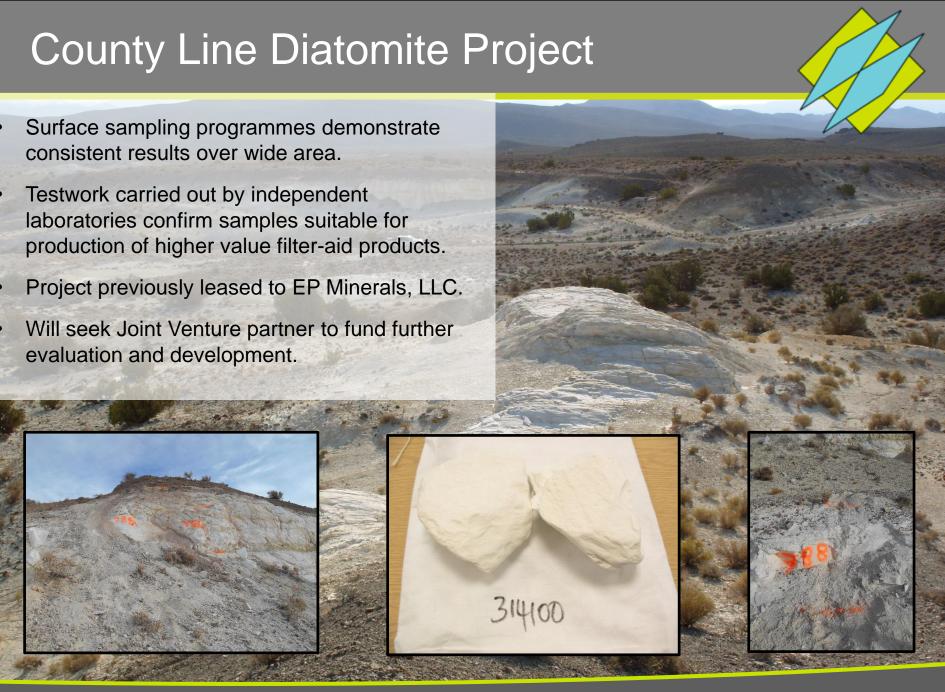
## County Line Diatomite Project

- Project located 200km south east of Reno, Nevada, USA
- 109 claims covering 8sq km
- Claim area underlain by extensive beds of diatomite
- Large resource potential indicated by large aerial extent and thick vertical exposures

Oblique view looking North







Pozzolan - What is it? How is it used?

**Pozzolan** is a silica or silica and aluminium rich material which will, in the presence of moisture, chemically react with lime at ordinary temperatures to form compounds possessing cement-like properties.

#### Pozzolans can be:

- Industrial by-products e.g. coal fired power station fly ash.
- Natural various glassy volcanic materials such as tuff, pumice & perlite.

Pozzolan can be mixed into ordinary Portland cement in the clinker grinding stage to produce Portland pozzolan cement or substituted for Portland cement when making mortars and concrete.

The Romans were the first to use natural pozzolan on a grand scale to construct public buildings, monuments, & infrastructure such as roads and ports, many of which have endured for over 2000 years...

... in contrast, modern concretes using Portland Cement are susceptible to "concrete cancer" (alkali-silica attack).



#### Our Opportunity in Pozzolan

Substitution of cement with Pozzolan is being driven by greenhouse gas legislation and pressures as production of ordinary Portland Cement is responsible for 5% of the global man-made CO<sub>2</sub> emissions.

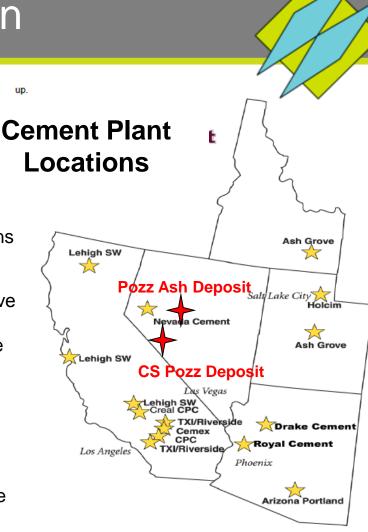
Coal fired power station fly ash is becoming scarcer due to phasing out of coal fired power stations and increasing emissions control.

Natural pozzolans have a growing market as a "green" alternative to Portland cement and fly ash and can improve the quality of cements and concretes by improving strength and acid sulphate resistance.

Pozzolan can typically replace 20-25% of the Portland cement used in concrete and cement mixes.

The Company's two pozzolan projects are centrally located for the major cement plants in the Western USA and adjacent to the most populated state in the USA.

The potential for natural pozzolan is being exploited by Fortune 500 companies like BASF and innovators such as 3M.



#### CS Pozz Deposit, Nevada

The current focus is on the CS Pozz
Deposit where preliminary testing indicates that:

- the CS Deposit sample is a high quality natural pozzolan competitive with commercial deposits in the market today.
- CS Deposit sample in 20% substitution for Portland cement gave a favourably high 28 day "Strength Against Index" value of 97% (compared to 100% Portland cement) with acceptable water demand.

Typically pozzolan cement mixes exceed the strength beyond that of a 28 day cure.

Concept Study awarded to evaluate parameters for commercial production – expected completion end 1<sup>st</sup> Quarter 2017

Variability testing now in progress.



## Ridge (High-Grade) Limestone Project

 18 claims staked to cover large surface area of high purity limestone - 5.4 sq. km outcrop area.

Potential for use in higher-value industrial applications.

 Favourably located adjacent to sealed highway and amenable to open-pit mining.





0 25 50 75 100 mi

Walker Lane Exploration Nevada Towns & Counties Significant Gold-Silver Districts



### Ridge (High-Grade) Limestone Project

- High purity limestones may have a higher value than those used in construction aggregates.
- Used, for example, in the chemical industries, in glass manufacturing, flue gas
  desulphurisation and in various fillers and extenders in the rubber, sealants, plastic and
  paper industries.
- Also used in the manufacture of lime (calcium oxide, CaO) which is used extensively in the mining industry in Nevada.

	Calculated	Calculated	XRF Analysis						
Sample No	CaCO <sub>3</sub>	MgCO <sub>3</sub>	CaO	MgO	sio <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	Al <sub>2</sub> O <sub>3</sub>
	%	%	%	%	%	%	%	%	%
383086	99.06	0.59	55.50	0.28	0.06	0.16	<0.01	<0.01	0.04
810008	99.06	1.26	55.50	0.60	0.29	0.03	<0.01	0.01	0.06
810009	92.99	6.90	52.10	3.30	0.33	0.07	<0.01	0.02	0.09

Next stage is mapping, sampling and testing to define tonnage potential and market applications.

#### The Investment Case



- Clearly defined 2-prong strategy targeting cash flow and value enhancing mineral discoveries.
- Efficient low cost explorer operating in attractive mining jurisdictions in politically stable countries.
- Exciting portfolio of drill ready "discovery-stage" silver and gold projects.
- Three key industrial minerals projects including CS Pozz Project being evaluated for early production.
- Share price near historic lows Market Capitalisation only £1.7 million at mid-price 0.14p (23 February 2015).
- Directors fully invested participated at significant levels in recent placings and taking fees in shares.

www.sunriseresourcesplc.com AIM: SRES