

### **Cautionary Note**

#### **Forward Looking Statement**

This presentation contains forward-looking statements within the meaning of the United States Private Securities Litigation Reform Act of 1995 and forward-looking information within the meaning of applicable Canadian securities laws (together, "forward-looking statements") concerning Alexco's business plans, including but not limited to anticipated results and developments in Alexco's operations in future periods, planned exploration and development of its mineral properties, plans related to its business and other matters that may occur in the future, made as of the date of this presentation. Alexco does not intend, and does not assume any obligation, to update these forward-looking statements, except as required by applicable law.

Forward-looking statements are based on certain assumptions that management believes are reasonable at the time they are made. In making the forward-looking statements included in this presentation, Alexco has applied several material assumptions, including, but not limited to, the assumption that: (1) additional financing may be needed to fund certain contingent payment obligations and will be available on reasonable terms; (2) additional financing needed for the capacity related refund under the Silver Purchase Agreement with Wheaton Precious Metals Corp. ("Wheaton") will be available on reasonable terms; (3) additional financing needed for further exploration and development work on the Corporation's properties will be available on reasonable terms (4) the proposed development of its mineral projects will be viable operationally and economically and proceed as planned; (5) market fundamentals will result in sustained silver, gold, lead and zinc demand and prices, and such prices will be materially consistent with or more favourable than those anticipated in the PEA (as defined below), (6) the actual nature, size and grade of its mineral resources are materially consistent with the resource estimates reported in the supporting technical reports; (7) labor and other industry services will be available to the Corporation at prices consistent with internal estimates; (8) the continuances of existing and, in certain circumstances, proposed tax and royalty regimes; (9) that other parties will continue to meet and satisfy their contractual obligations to the Corporation; and (10) that regulatory approval of any shelf prospectus filings or any other offerings will be obtained in a timely fashion. Forward-looking information contained in this presentation about prospective financial performance, financial position or cash flows is based on assumptions about future events, including economic conditions and proposed courses of action, based on management's assessment of the relevant information currently available. To

The disclosure in this presentation of scientific and technical information regarding exploration projects on Alexco's mineral properties has been reviewed and approved by Alan McOnie, FAusIMM, Vice President, Exploration, while that regarding mine development and operations has been reviewed and approved by Neil Chambers P.Eng., Mine Superintendent, both of whom are Qualified Persons as defined by National Instrument 43-101 - Standards of Disclosure for Mineral Projects.

#### PRELIMINARY ECONOMIC ASSESSMENT CAUTIONARY STATEMENT

The material scientific and technical information in respect of Alexco's Keno Hill Silver District Project in this presentation, unless otherwise indicated, is based upon information contained in the technical report dated March 29, 2017 entitled "Technical Report Preliminary Economic Assessment of the Keno Hill Silver District Project, Yukon Territory, Canada 43-101 Report (the "PEA")." Readers are encouraged to read the PEA, which is available under the Company's profile on SEDAR, for detailed information concerning the Keno Hill Silver District. All disclosure contained in this presentation regarding the resource estimate and economic analysis on the property is fully qualified by the full disclosure contained in the PEA.

Readers are cautioned that mineral resources are not mineral reserves and do not have demonstrated economic viability. The PEA is preliminary in nature. While the consolidated mine production under the PEA is derived primarily from indicated mineral resources, approximately 2% is derived from inferred mineral resources. There is no certainty that the PEA will be realized, and it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves. Although the PEA contemplates an initial development and construction period beginning in the first quarter of 2018, with startup of commercial production in the first quarter of 2019, commencement of development and construction remains dependent on Alexco making a development decision, which would be dependent on a number of factors, including but not limited to expectations regarding market prices for silver, lead, zinc and gold as well as the US-Canadian dollar exchange rate, and the availability of development capital. Additionally, a production decision which is made without a feasibility study of mineral reserves demonstrating economic and technical viability carries additional potential risks which include, but are not limited to, the risk that additional detailed work may be necessary with respect to mine design and mining schedules, metallurgical flow sheets and process plant designs, and the noted inherent risks pertaining to the inclusion of approximately 2% inferred mineral resources in the mine plan.

## **Alexco Fundamentals**

District scale, high grade silver in Yukon

**Short runway to production** 

Rapidly expanding mineral resource + 83M oz g/t Silver Indicated

**Low CAPEX** 

**Competitive AISC** 

**Growing, profitable subsidiary environmental business** 

Leverage



## **Alexco Snapshot**

**Discovery, Development, Production Ready** 

#### **District**

- High Grade District,
- High IRR with Silver, Zinc, Lead
- ProvenExplorationUpside
- Discovery Cost of \$0.55 / oz Ag Indicated

## Bermingham/ Flame & Moth

Bermingham +33.3 M oz Ag (+1.6 million tonnes) Indicated @ 628 g/t

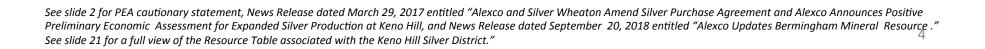
Flame & Moth +26.8 M oz Ag (+1.7 million tonnes) Indicated @ 498 g/t

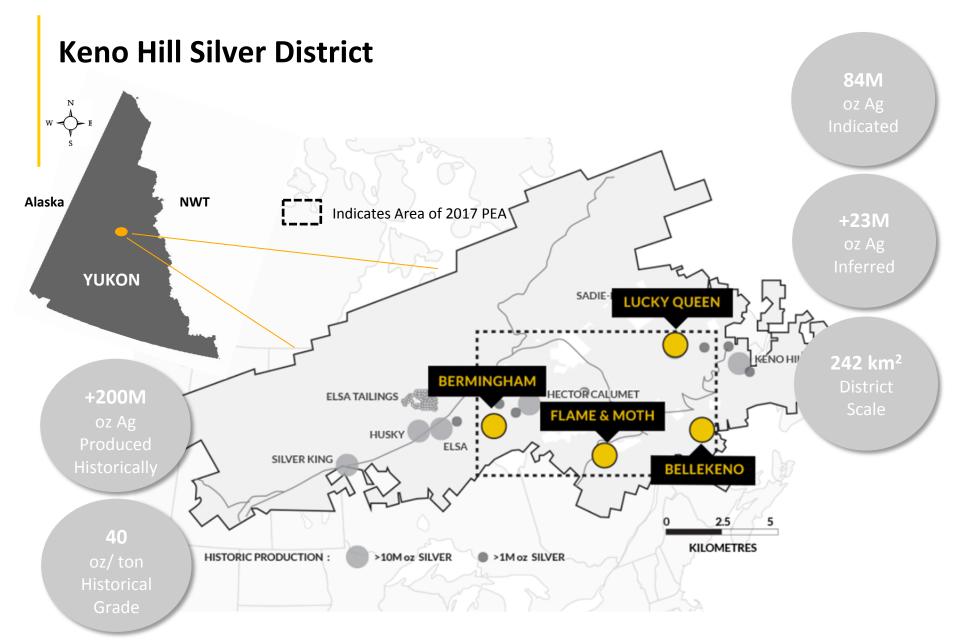
#### Corporate

- **Cash** \$22 M (Q2
- 2018)
- Credit Facility of \$15 M (unused)
- No Debt

#### 2017 PEA

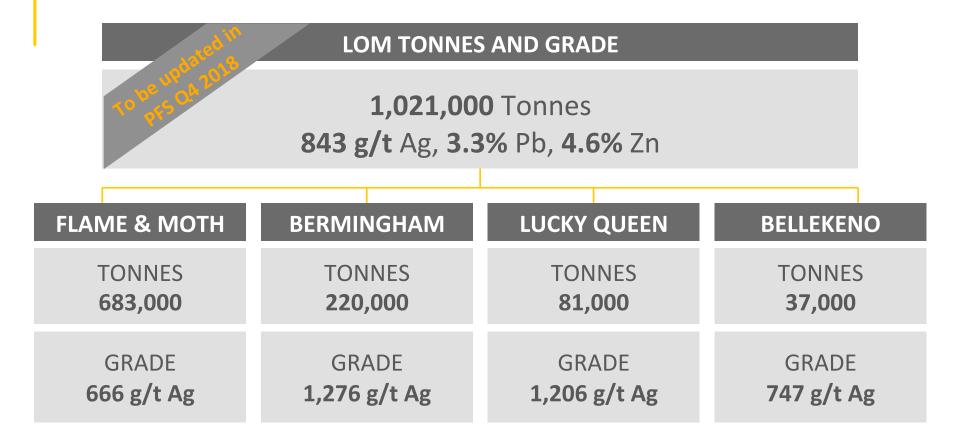
- After Tax IRR 75%
- 2017 PEA Head Grade 843 g/t
- 3.5 M oz / yr with
   a 7 year mine





### **Production Profile**

March 2017 PEA



Please see slide #2 for PEA cautionary statement and News Release dated March 29, 2017 entitled "Alexco and Silver Wheaton Amend Silver Purchase Agreement and Alexco Announces Positive Preliminary Economic Assessment for Expanded Silver Production at Keno Hill."

PEA Average Metal Price and Discount Rate Assumptions: Ag USD/oz \$18.60 initially and \$19.35 long term, Zn USD/lb \$1.07, Pb USD/lb \$0.97, Au USD/oz \$1,300, 5% Discount Rate.



## COMMERCIAL PRODUCTION PROFILE<sup>1</sup> – 400 t/d

Mining Period	Avg. Silver Grade	Avg. Annualized Silver Production	AISC <sup>2</sup>	Other
Years <b>1 - 3</b>	931 g/t Ag	4.1M ozs	\$9.50 <sup>3</sup>	Initial Capex <sup>4</sup> \$27M
Years <b>1 – 8 (LOM)</b>	843 g/t Ag	3.5M ozs	\$10.50 <sup>3</sup>	IRR <b>75</b> %

<sup>1.</sup> Please see slide #2 for PEA cautionary statement and News Release dated March 29, 2017 entitled "Alexco and Silver Wheaton Amend Silver Purchase Agreement and Alexco Announces Positive Preliminary Economic Assessment for Expanded Silver Production at Keno Hill."

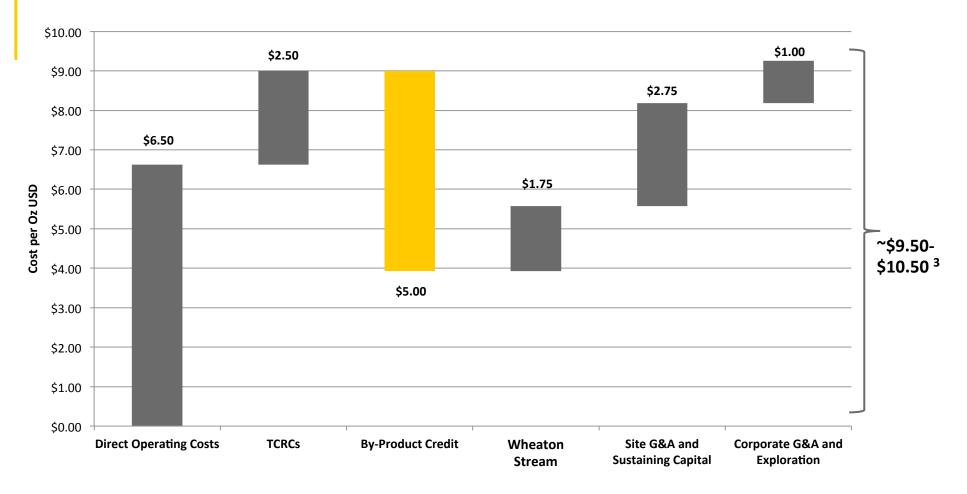
<sup>2.</sup> AISC calculated on a produced (contained) basis net of by-products, as defined by the World Gold Council.

<sup>3.</sup> This AISC estimate is based on current (Sept. 10, 2018) metal price assumptions: Ag USD/oz \$14.22, Zn USD/lb \$1.07, Pb USD/lb \$0.92, USD/CAD \$0.76, TCRC's current benchmark. The March 2017 PEA used the following metal price and discount rate assumptions: Ag USD/oz \$18.60 initially and \$19.35 long term, Zn USD/lb \$1.07, Pb USD/lb \$0.97, Au USD/oz \$1,300, 5% Discount Rate.

<sup>4.</sup> The initial pre-production capex is based on the March 2017 PEA, which includes revenue offsets in year 2. The final pre-production capex will be updated in the planned 2018 pre-feasibility study. Investment toward pre-production capex has begun.

## All-In Sustaining Costs (Current Pricing/Based on 2017 Mine Plan)

Build-Up Production Years 1 – 3 1&2



<sup>1.</sup> Please see slide 2 for PEA cautionary statement and News Release dated March 29, 2017 entitled "Alexco and Silver Wheaton Amend Silver Purchase Agreement and Alexco Announces Positive Preliminary Economic Assessment for Expanded Silver Production at Keno Hill."

<sup>2.</sup> AXR AISC calculated on a produced (contained) basis net of by-products (as defined by the World Gold Council) for years 1-3 of PEA Commercial Production period.

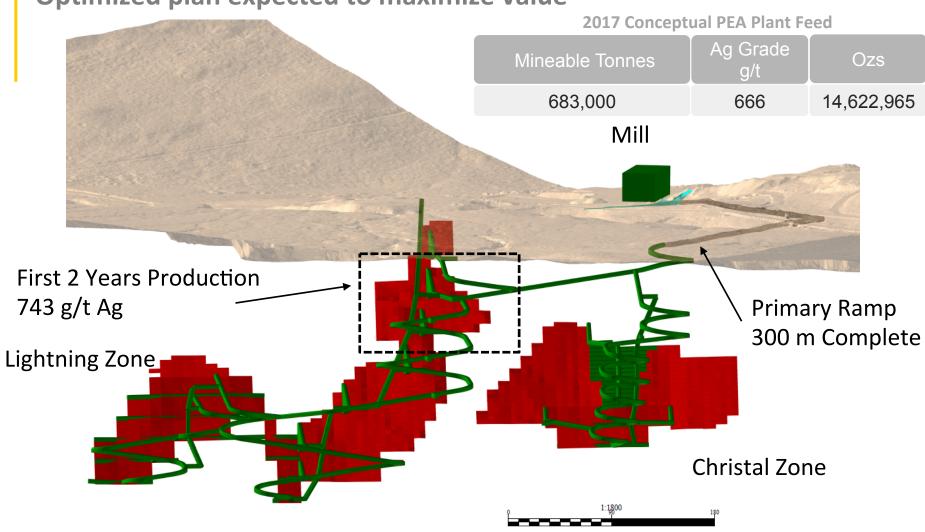
<sup>3.</sup> This AISC estimate is based on current (September 10, 2018) metal price assumptions: Ag USD/oz \$14.22, Zn USD/lb \$1.07, Pb USD/lb \$0.92, USD/CAD \$0.76, TCRC's current benchmark. The March 2017 PEA used the following metal price and discount rate assumptions: Ag USD/oz \$18.60 initially and \$19.35 long term, Zn USD/lb \$1.07, Pb USD/lb \$0.97, Au USD/oz \$1,300, 5% Discount Rate.

# **World Class Lead-Silver Concentrate**

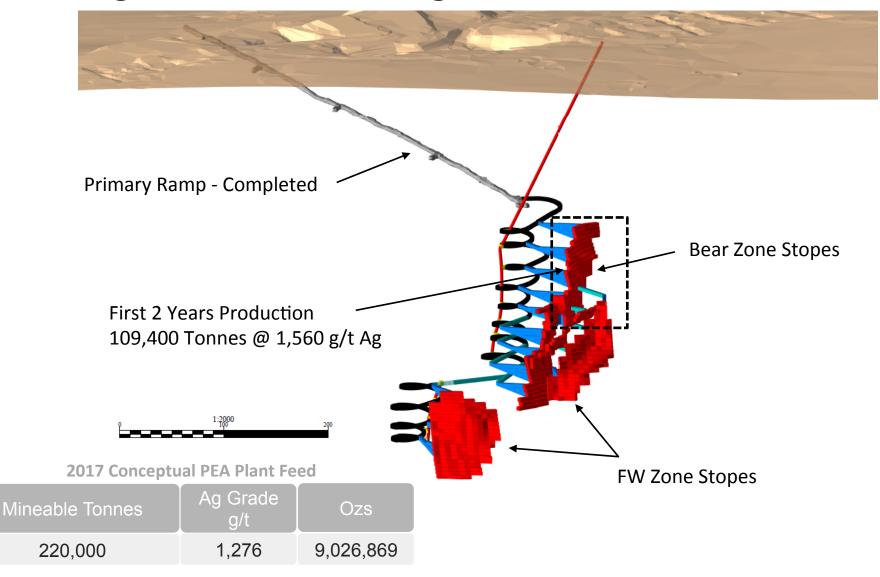


# Flame & Moth Schematic Long Section

Optimized plan expected to maximize value

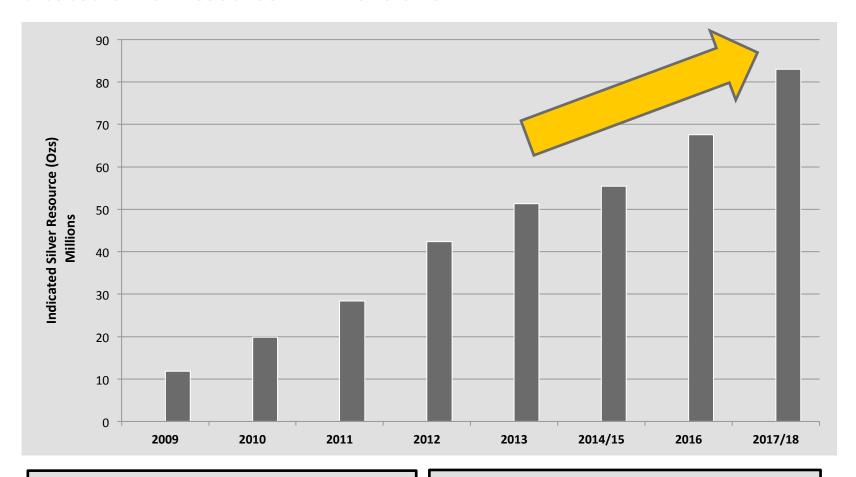


# **Bermingham Schematic Long Section**



## **Exploration Success**

Indicated Silver Resource - Millions of Oz.



2013 – 2018 Discovery Record

+45M oz Indicated (+2.3M tonnes)

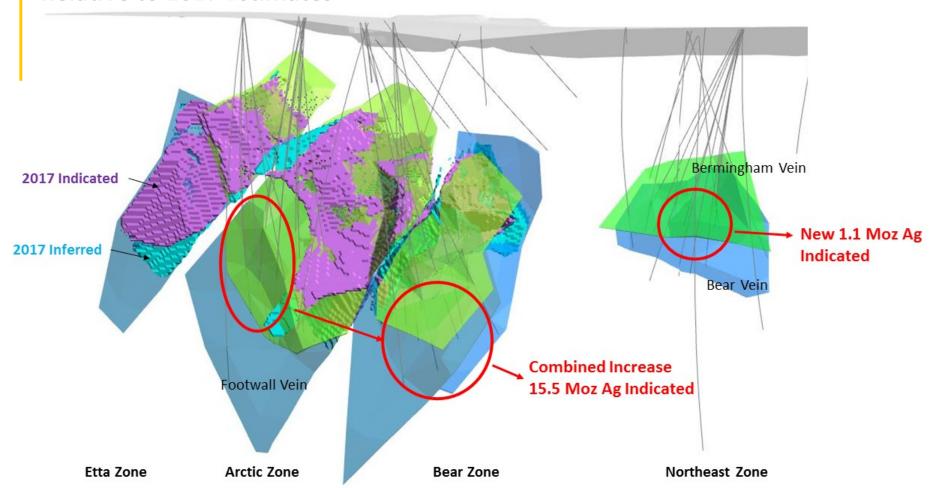
Avg Discovery Cost (2008 – 2018)

~\$0.55/oz Ag

12

## **Bermingham Areas of New Resource Drilling**

**Relative to 2017 Estimates** 

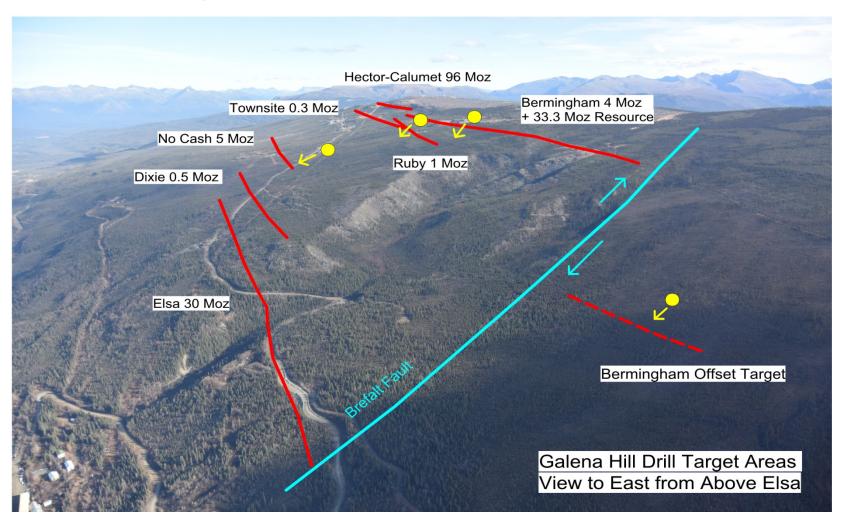


### Bermingham Areas of New Resource Drilling Relative to 2017 Estimate

Oblique Longitudinal looking NW

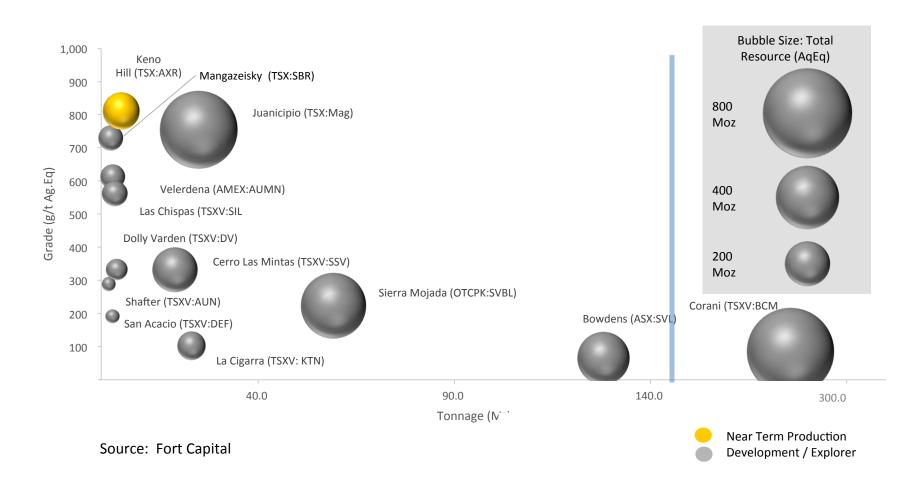
## **2018 Surface Exploration**

14,000m, \$4M Program



## **Silver Landscape Overview**

### Asset Benchmarking – Silver Developers – Total Resource (AgEq)

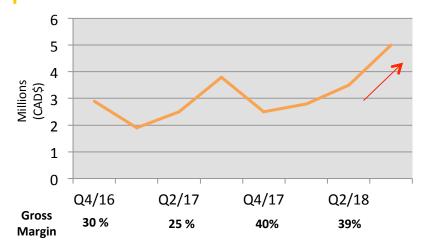


See slide 22 for a full view of the Resource Table associated with the Keno Hill Silver District."

**Alexco Environmental Group (AEG)** 

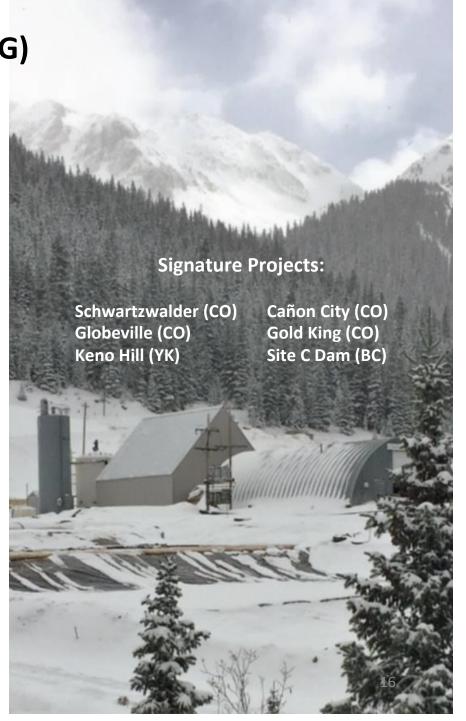
**Profitable & Rapidly Growing** 

# Revenue (In Millions)



#### **Professional environmental services:**

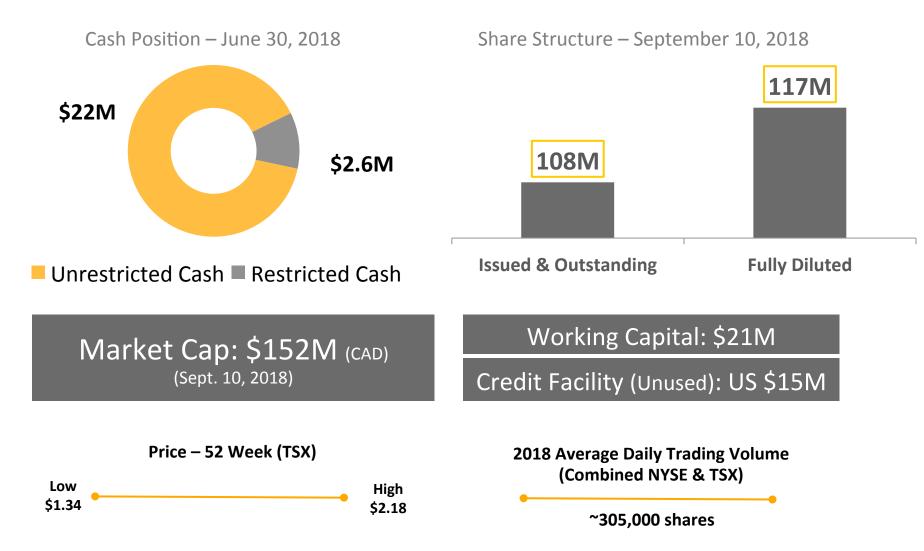
- Design, construction and operation of active and passive innovative water treatment plants
- Soils remediation technologies and strategies
- Mine closure and reclamation
- Environmental and socio-economic assessments
- Regulatory and permitting authorizations
- Site and baseline environmental studies



See Alexco's corresponding financial statements for each quarter reported above at <a href="https://www.alexcoresource.com/investors/financial-statements/">https://www.alexcoresource.com/investors/financial-statements/</a>.

#### **Alexco**

#### **By The Numbers**



### **Alexco 2018 Scorecard**

Bermingham (BM)

Flame & Moth

Other Fla

Objectives	Status
Advanced Exploration Decline	100%
Underground Infill Drilling	100%
Surface Drilling	100%
Permitting	On track for end of Q1/19

ObjectivesStatusDevelopment<br/>Decline50%Permitting100%Surface Exploration<br/>Drilling80%Runway to<br/>Production~ 5 Months<br/>from day of positive<br/>production decision

See slide 21 for a full view of the Resource Table associated with the Keno Hill Silver District.

Current Status

Current	Highlights				
1.6 Million Tonnes	Considerable size increase (92%)				
628 g/t	Grade Stable				
33.4M oz	Indicated (93% increase)				
10.4M oz	Inferred (92% increase)				

Status	Objectives
75%	Mill Refurbishment
100%	Updated BM Resource
October	Pre-Feasibility Study
65%	Access & Underground Development (Overall)

See slide 2 for PEA cautionary statement, news release dated March 29, 2017 entitled "Alexco and Silver Wheaton Amend Silver Purchase Agreement and Alexco Announces Positive Preliminary Economic Assessment for Expanded Silver Production at Keno Hill" and news release dated September 20, 2018 entitled "Alexco Updates Bermingham Mineral Resource."

Bermingham Resource

## **Near Term Objectives**

#### **Pre-feasibility Study**

- New mine plan for Flame & Moth and Bermingham
- New reserve/resource for Flame & Moth and Bermingham
- Metallurgical and smelter metrics
- Updated CAPEX / OPEX

#### Flame and Moth Decline

 Completion of decline at Flame & Moth, 300+ m completed to date

#### **Surface Exploration (2018)**

- Completion of 14,000 m utilizing 3 surface rigs
- 80 % completed to date

#### **Bermingham Permitting**

 YESAA process complete, currently renewing Type A water license (Completion anticipated end of Q1 2019)



Appendix

## **Mineral Resource Table**

#### **Resource Table**

Category	Property	Tonnes	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Contained Ag (oz)
Indicated	Bellekeno Deposit	262,000	585	n/a	3.5%	5.3%	4,927,000
	Lucky Queen Deposit	132,300	1,167	0.2	2.4%	1.6%	4,964,000
	Flame & Moth Deposit	1,679,000	498	0.4	1.9%	5.3%	26,883,000
	Onek	700,200	191	0.6	1.2%	11.9%	4,300,000
	Bermingham	1,651,500	628	0.1	1.6%	1.3%	33,350,300
	Total Indicated – Sub-Surface	4,425,000	523	0.3	1.8%	4.7%	74,424,000
	Elsa Tailings	2,490,000	119	0.1	1.0%	0.7%	9,527,000
	Total Indicated – All Deposits	6,915,000	378	0.2	1.5%	3.3%	83,952,300
Inferred	Bellekeno Deposit	243,000	428	n/a	4.1%	5.1%	3,344,000
	Lucky Queen Deposit	257,900	473	0.1	1.0%	0.8%	3,922,000
	Flame & Moth Deposit	365,200	356	0.3	0.5%	4.3%	4,180,000
	Onek	285,100	118	0.4	1.2%	8.3%	1,082,000
	Bermingham	616,550	526	0.1	1.1%	0.9%	10,438,700
	Total Inferred	1,767,750	404	0.2	1.5%	3.4%	22,966,700

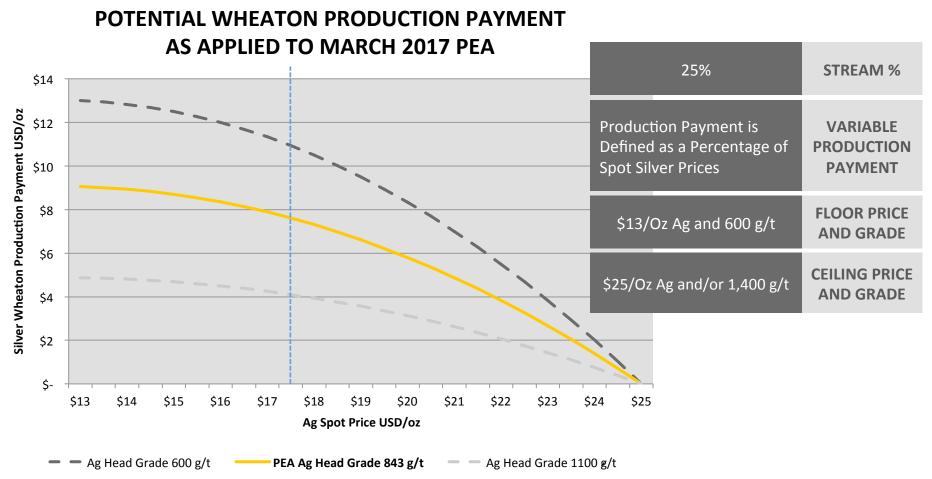
#### **Historical Resource**

Category	Property	Tonnes	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Contained Ag (oz)
Proven, Probable	Silver King						
& Indicated		99,000	1,354	n/a	1.6%	0.1%	4,310,000
Inferred		22,500	1,456	n/a	0.1%	n/a	1,057,000

See slide 2 for PEA cautionary statement, News Release dated March 29, 2017 entitled "Alexco and Silver Wheaton Amend Silver Purchase Agreement and Alexco Announces Positive Preliminary Economic Assessment for Expanded Silver Production at Keno Hill, and News Release dated September XX, 2018 entitled "Alexco."

Historical resources for Silver King were estimated by UKHM, as documented in an internal report entitled "Mineral Resources and Mineable Ore Reserves" dated March 9, 1997. The historical resources were estimated based on a combination of surface and underground drill holes and chip samples taken on the vein and calculated using the polygonal (block) model and the 1997 CIM definitions for resource categories. Verification of the estimate would require new drill holes into a statistically significant number of the historical resource blocks and/or a combination of on-vein sampling. A qualified person has not done sufficient work to classify this estimate of historical resources as current, nor is Alexco treating this historical estimate as a current Mineral Resource.

#### **Keno Hill District Amended Silver Stream**



Please see slide #2 for PEA cautionary statement and News Release dated March 29, 2017 entitled "Alexco and Silver Wheaton Amend Silver Purchase Agreement and Alexco Announces Positive Preliminary Economic Assessment for Expanded Silver Production at Keno Hill."

### **Keno Hill District Amended Silver Stream**

#### **Alexco Total PEA Gross Revenue at Ag Spot Prices (USD)**

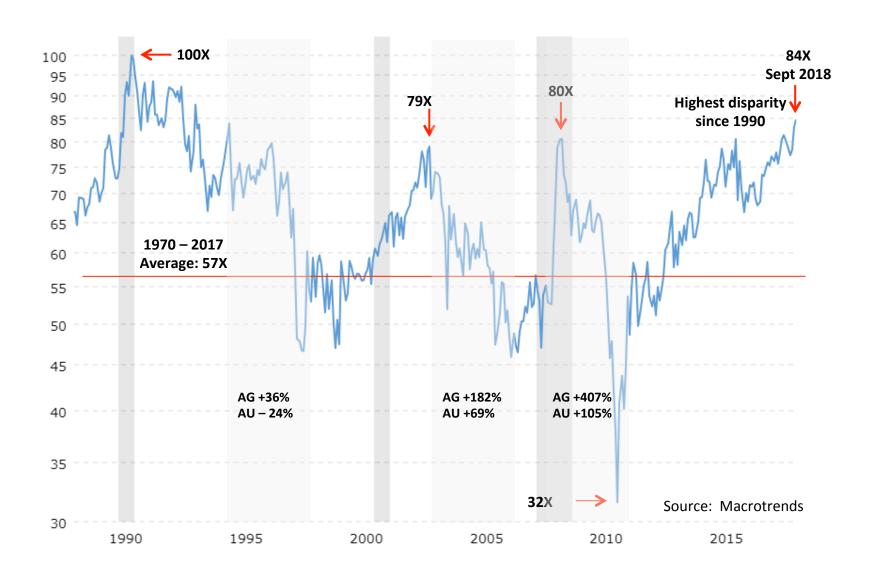


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# **AXR Share Price Leverage to Silver Price**



## **Gold Silver Ratio**



## **Alexco Share Price Performance**

#### **Relative to Peers**



Source: Yahoo Finance

## **Key Management**



Clynton Nauman, Chairman, CEO



Brad Thrall, President



Mike Clark, CFO



Al McOnie VP, Exploration



Gordon Wong, VP, Finance



Linda Broughton VP, Technical Services



Jim Harrington, President, AEG

## **Board of Directors**



Richard Zimmer, P.Eng., MBA



Clynton Nauman, BSc (Hons)



Elaine Sanders, CPA, CA, CPA (Illinois)



Terry Krepiakevich, CPA, CA, ICD.D



Rick Van Nieuwenhuyse, M.SC



Michael Winn



Karen McMaster, BA, LLB, MBA

### **Get in Touch**

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