Multiple rare earths and uranium projects in mining-friendly jurisdictions:

- **Alces Lake Project** in Saskatchewan’s Athabasca Basin is the highest-grade critical rare earths - Neodymium (Nd), Praseodymium (Pr), Dysprosium (Dy) and Terbium (Tb) - and gallium prospect in North America, and one of the highest-grade rare earth prospects in the world.

- **PCH Ionic Clay REE Project** located in Goiás State, Brazil. Recent geochemical exploration work carried out to date indicates the potential for REEs and Niobium in lateritic ionic adsorption clays.

- **Sask. Uranium Projects** are found in the Athabasca Basin area and cover a total of 75,314 hectares. They include the Loranger, North Wollaston, Eastside and Otherside properties.

- **Elliot Lake Property** in Ontario’s historic mining camp, with a large NI 43-101 Uranium and Rare Earths resource.

- Experienced management with over 250 years of combined experience.

- Approximately CAD$6.5 million in cash with no debt.

### Alces Lake High-Grade Critical REE Property, Saskatchewan

Some of the highest REE grades reported in the world and exposed at surface; average high-grade portions of the WRCB zones range from 4.209 to 32.17 wt.% total rare earth oxide ("TREO").

Extensive diamond drilling and geophysics surveys planned for **2023 to explore +25 km structural corridor** southeast of WRCB.

Diamond drilling has discovered numerous near-surface and shallow REE zones, less than 15 m from surface; i.e., **hole 21-WRC-014 returned 6.99 m @ 11.70 wt.% TREO including 3.67 m @ 15.81 wt.% TREO.**

In 2022 Appia completed 17,481 metres of diamond drilling reporting **8.98m @ 9.46 wt.% TREO including 0.87 m @ 17.1 wt.% TREO in hole 22-WRC-024 at Wilson Zone and 12.13 m @ 0.33 wt.% TREO including 5.7 m @ 0.55 wt.% TREO from hole 22-WRC-016 at AMP Zone.**

The WRCB discovery zones remain open down plunge and along strike to the SSE and has been extended to approximately 300+ m along strike length.

Low to high-grade REE mineralization discovered intermittently over approximately 27 km² of Alces Lake claims. **Magnet Ridge, Western Anomaly and Oldman add to WRCB area drilling inventory in 2023.**

The mineralized zones have **moderate to high concentrations of critical REEs** - neodymium (Nd), praseodymium (Pr), dysprosium (Dy) and terbium (Tb) - which account for between 23% and 25% of the total REEs.

Bench-scale **monazite processing and metallurgical testing results comparable to other producing rare earth projects.** Preliminary work done at the Saskatchewan Research Council (SRC) achieved flotation concentrate TREO of 48% with 73% TREO recovery. Improvements are expected from future testing.

Appia holds 4 Uranium properties totaling approximately 75,314 hectares in the Athabasca Basin area including the **Loranger, North Wollaston, Eastside and Otherside properties.**

The SRC is currently building a monazite processing facility and will be looking to secure a local feedstock which could be satisfied by Alces Lake.
**PCH Ionic Clay REE Project**

- Definitive Agreement announced June 9, 2023, to acquire a 70% interest in the PCH ionic clay project in Goiás State, Brazil.
- Located approximately 30 km from Iporá, a city of approximately 31,500 population. The region around Iporá has significant mineral exploration and mining activity and well-developed infrastructure.
- Sampling data shows enrichment in rare earth minerals to between 8 m and 20 m depth.
- PCH Project is one of the relatively few ionic clay deposits of this type found outside of China.
- Ionic clays can be mined with low-cost open pit mining techniques and processed using simple technologies.
- Total rare earth assay values from auger drilling in Target 4 show values up to 16,648 ppm (1.66%) with an average of 1,291 ppm.
  - Heavy rare earths (HREEs) show maximum values of 1,624 ppm and average values of 1,291 ppm, primarily as terbium (Tb) and dysprosium (Dy).
  - Light rare earths (LREEs) show maximum values of 14,024 ppm (1.54%) with an average of 1.145 ppm. Neodymium (Nd) and praseodymium (Pr), the main magnetic light rare earths, show respective maximum values of 3,131 ppm (Nd) and 885 ppm (Pr) and average values of 216 ppm (Nd) and 61.7 ppm (Pr).
- The overall HREE/LREE ratio has a maximum of 39.5% and an average value of 16.67%.
- Indications are that the PCH project could rank as a world class ionic clay rare earth project.

**Elliot Lake Uranium and REE Property**

- 100% interest in the Elliot Lake, Ontario, property totaling 13,008 hectares.
- Elliot Lake Property is adjacent to Denison Mines Corp. and Rio Algom Limited past-producing uranium and REE mines.
- Elliot Lake camp produced over 300 M lbs. U3O8 and is the only mining camp in Canada with significant historical commercial rare earth element production (yttrium) which was recovered through bioleaching and conventional milling.
- **NI 43-101 Mineral Resources of** 14,435,000 tons grading 0.554 lbs U3O8/ton and 3.30 lbs TREE/ton for a total of 8.0 M lbs U3O8 and 47.7 M lbs TREE Indicated and 42,447,000 tons grading 0.474 lbs U3O8/ton and 3.14 lbs TREE/ton for a total of 20.1 M lbs U3O8 and 133.2 M lbs. TREE Inferred in the Teasdale Zone plus 30,315,000 tons grading 0.912 lbs. U3O8/ton for a total of 27.6 M lbs U3O8 Inferred in the Banana Lake Zone in the Elliot Lake, ON, historic mining camp.
- Significant potential to increase the size of the current resources as they are largely unconstrained along strike and at depth.
- Metallurgical testing indicates recovery rates of approximately 90% for uranium and most REEs in the 80% to 90% range.

**Officers and Advisors**

Anastasios (Tom) Drivas – CEO & Director  
Stephen Burega - President  
Dr. Irvine R. Annesley, P.Geo. – Vice-President, Exploration  
Frank van de Water, B.Com, CPA, CA – CFO & Director  
Don Hains, P. Geo – Consulting Industrial Minerals Expert  
Gary Delaney, PhD and P. Geo – Consultant and Former Chief Geologist, Saskatchewan Geological Survey (SGS)  
Jack Lifton – Consultant and world leading rare earths expert

**Share Structure (as of June 8, 2023)**

Issued: (Insiders – approx. 27.0%) 130.5 million shares  
Fully Diluted: 143.5 million shares  
52 Week Range: $0.15 - $0.55 CAD  
Share Price: $0.19 CAD  
Market Capitalization: $24.8 million CAD  
Cash on Hand: approx. $6.5 million CAD

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The information contained herein is provided solely for the reader's general knowledge and is not intended to be a comprehensive review of all matters and developments concerning Appia Rare Earths & Uranium Corp. The technical information in this Presentation has been prepared in accordance with the Canadian regulatory requirements set out in National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43-101"). The information was reviewed and approved by Dr. Irvine Annesley, P.Geo, and Don Hains, P. Geo, Appia Rare Earths & Uranium Corp. and a Qualified Persons as defined by NI 43-101 Standards.