

ADVANCING THE LARGE, HIGH-GRADE DASA URANIUM DEPOSIT IN THE REPUBLIC OF NIGER

Stephen G. Roman, President & CEO December, 2020





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Figures as of November 11, 2020. All monetary amounts are in U.S. dollars, unless otherwise stated.

## Global Atomic has a unique business model for success:



PROVIDING STABLE CASH-FLOW WHILE WE BRING URANIUM TO MARKET

PROFITABLE ZINC RECYCLING IS FUELLING OUR LOW-CARBON FUTURE



### **URANIUM**



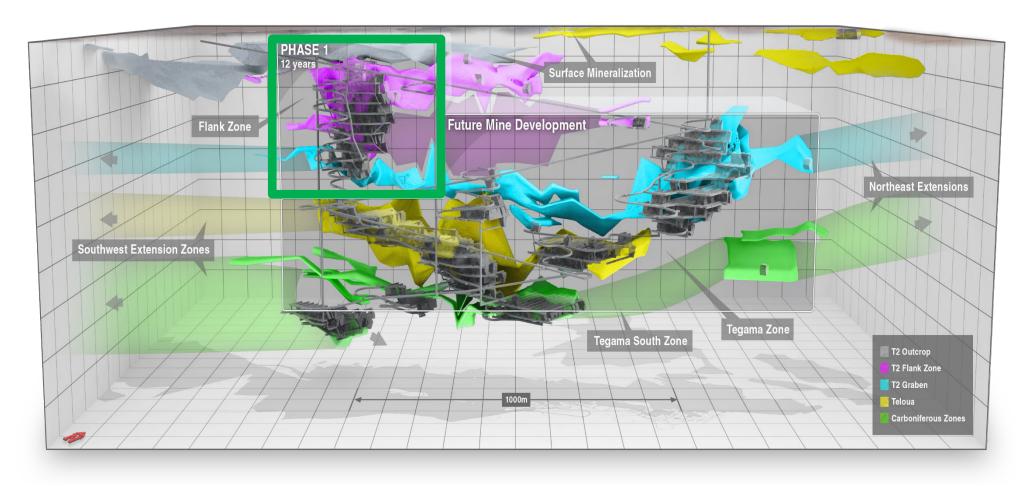
GLOBALATOMIC Dasa Uranium, Republic of Niger

Stand alone, high grade, high margin, underground operation, in Phase 1 plan

### FUELLING A LOW-CARBON FUTURE OF CLEAN ENERGY



## The Dasa Project is high grade and long life:



Dasa Project schematic long-section and hypothetical underground infrastructure



Dasa is an impressive project as per the May 2020 PEA (Preliminary Economic Assessment) using a uranium price of \$35/lb

→ 44 Mlbs U<sub>3</sub>O<sub>8</sub>

**Compelling project economics after-tax** 

→ \$210.7M
NPV<sub>8</sub>

→ 26.6%





# The Dasa Project has strong base case economics @ \$35/Ib that improve significantly using higher uranium prices

Economic sensitivity with varying uranium prices*								
Uranium price (perpound)	\$25/lb	\$30/lb	\$35/lb	\$40/lb	\$45/lb	\$50/lb		
Before-tax NPV @ 8%	\$41 M	\$139 M	\$260 M	\$365 M	\$485 M	\$601 M		
After-tax NPV @ 8%	\$34 M	\$113 M	\$211 M	\$294 M	\$391 M	\$485 M		
After-tax IRR	11.5%	18.5%	26.6%	32.6%	39.7%	46.3%		

<sup>•</sup> The schedule for all uranium price sensitivities used the base case model.

Economic sensitivity with varying discount rates using base-case uranium price \$35/lb						
Discount rate (%)	5%	8%	10%	12%		
Before-tax NPV	\$341 M	\$260 M	\$215 M	\$177 M		
After-tax NPV	\$279 M	\$211 M	\$173 M	\$141 M		



### Global Atomic has already met significant milestones

#### 2020 Published new PEA for Phase I 2018 The Environmental Discovered Impact Statement the highwas completed grade Flank and filed in Niger 2017 7one Hydrogeology and Signed MOU Published geotechnical with Orano initial PEA studies completed Mining for 2011 & 2012 Submitted to Niger **Direct Shipping** Raised funding the Mining Permit ore to nearby for exploration **Application** mills & discovery Global Atomic **Fuels** 2010 Corporation Discovered the merged with Dasa deposit Silvermet Inc. to form public 2007 entity Global Signed Mining **Atomic** Agreements Corporation Began exploration



# There are significant catalysts ahead in each of the next four years

2022

mill

 Develop mine and construct

#### 2023

 Commission plant and ramp up mining

#### 2024

Commercial Production

#### 2021

- Arrange off-take agreements
- Complete Bankable

#### Q12021

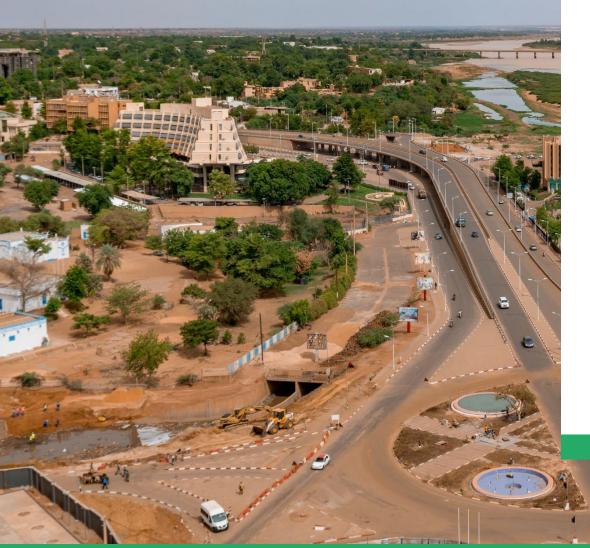
- Receive Mining Permit
- **Final Pilot** Plant report

- Feasibility Study
- Arrange project financing

PHASE 2

#### THE DASA PROJECT IS COMPELLING

# Niger is an ideal jurisdiction to mine uranium



# 5th largest global uranium producer

- 50 years of uranium mining
- Established markets for uranium including France & U.S.
- Excellent infrastructure, including paved roads, power and water
- Excess milling capacity if needed
- Trained workforce available in region from depleted mines
- Track record of short permitting timelines as uranium is a key export



# Since the Company became active in Niger in 2005, the Company has focused its support of the people of Niger with:

- Food during periods of drought
- Medical supplies
- Infrastructure projects such as water wells
- Environment
- Education and training
- Procurement of goods and services on a local, regional and national basis



The Company's ESG policies and practices will continue to be developed and expanded under the guidance of the Equator Principles and the IFC Performance Standards

## Cash flow from zinc recycling underpins uranium development

### **URANIUM**



### **ZINC RECOVERY**



Processing Electric
Arc Furnace Dust to
produce zinc oxide

PROVIDING STABLE CASH-FLOW WHILE WE BRING URANIUM TO MARKET

#### ZINC RECYCLING

Zinc from BST helps fund the Dasa Project.

Joint venture with **BEFESA** (51%), a market leader in zinc recovery

Processing Electric Arc Furnace Dust ("EAFD")
 containing 25% to 30% zinc sourced from local steel mills

Produces a 70% zinc oxide concentrate,
 which is sold to smelters

 Recovering high grade zinc & removing toxic elements

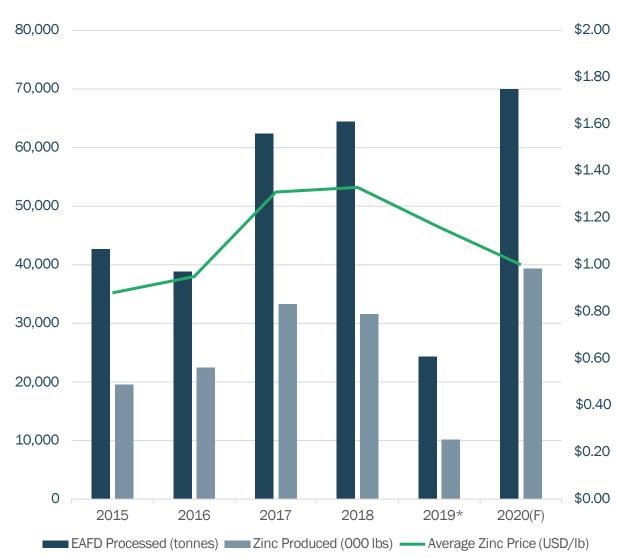




# The plant expansion and modernization completed in 2019 means no major capital needed for the zinc business

- Capacity to process 110,000 tonnes EAFD p.a., up from 65,000 tonnes previously
- Payback of expansion capital expected in 2 years @\$0.85/lb, faster as zinc price rises
- Dividend flow from Turkish JV will resume following repayment of the non-recourse, modernization debt

Note: The plant was shut down most of 2019 for the expansion and modernization project.





## Tight shareholder structure, dilution protected by cash flow

C\$127 M\*

C\$0.84\*

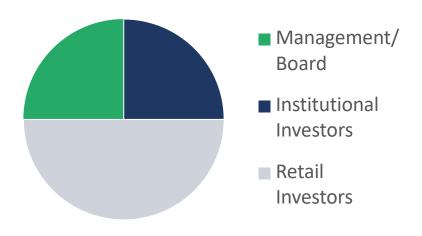
151.8 M

**Market Capitalization** 

**TSX Share Price** 

**Shares Issued** 

#### **Shareholding composition (approx.)**



Share Capital	Average Exercise Price	Shares (M)
Shares Outstanding		151.8
Warrants Outstanding	C\$0.84	2.9
Options Outstanding	C\$0.335	14.0
Fully Diluted		168.7

30-day VWAP High\*

C\$0.76

52-week Low\*

C\$0.26

\* As of December 4, 2020 15



# Experienced team of mine development and uranium veterans

- Stephen G. Roman
   Founder, Chairman, President and CEO
- Rein Lehari, CPA
   Chief Financial Officer
- George Flach, P.Geo
   Vice Chairman, VP Exploration
- Ron Halas, P.Eng Chief Operating Officer
- Tim Campbell
   Vice President and Corporate Secretary
- Bob Tait, F.CIRI
   Vice President, Investor Relations
- Peter Wollenberg, BSc, MSc, PhD
   Director of Exploration and Resource Development
- Fergus Kerr, BSc, P Eng, ARSM Mining Consultant

- Paul Cronin
   Non-executive Director
- Richard Faucher
   Non-executive Director
- Derek Rance
   Non-executive Director
- Asier Zarraonandia Ayo Non-executive Director
- Trace Arlaud
   Non-executive Director

























## This is the optimum time to invest in uranium.

SUPPLY: -30% since 2015

DEMAND: +40%
by 2020

Uranium supply is constrained.

 3 top-ten mines forecast to close before 2030 (Rossing, Cominak, Ranger)

 Covid-19 related suspensions at Cigar Lake, Kazatomprom & Namibian operations

 Long lead-time for mine approval, development or re-start



- 50 nuclear reactors under construction in 15 countries
- Demand increasing to 25% of installed capacity by 2040
- Producers buying in spot market to meet supply contract obligations

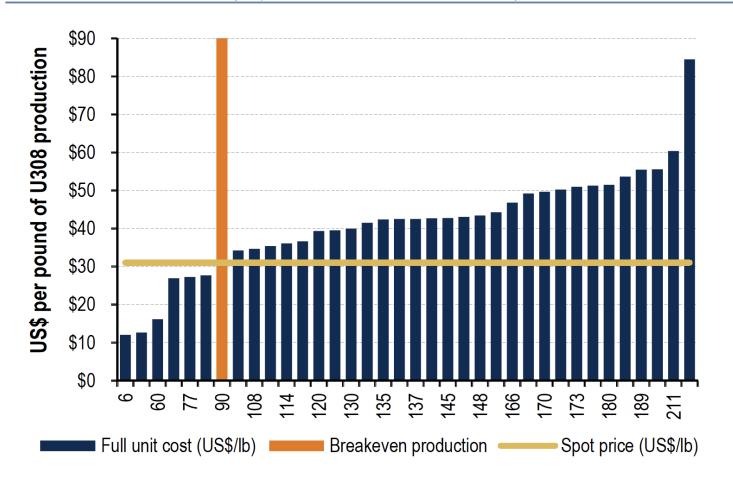
SMRs will make a significant impact, not yet factored into demand forecasts





### 80% of new projects need uranium price > current spot to breakeven

Full cost curve of advanced projects. X-axis: Cumulative U308 production (Mlbs)



Source: UxC consulting, BofA Global Research estimates; Full unit cost of production = 2019 dollars

The Dasa Project Total Operating Cash Costs and AISC are estimated at \$16.72/lb and \$18.39/lb respectively in the May 2020 Preliminary Economic Assessment.



## **Investment Case**

**Uranium is a worthy investment** 

A Unique model of two complementary businesses

Our Dasa Project is compelling

ESG is an integral component of Global Atomic's culture

Cash flow from Zinc recycling underpins project development

**Excellent corporate structure** 





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