

CAD-TSXV: HMR  
USA-OTC: HMRFF  
GDR-WKN: 5ZE / A3CYRW

*Homerun  
Resources*

HPQ SILICA SOLUTIONS  
MINING TO MANUFACTURING

BUSINESS PLAN PRESENTATION  
MAY 2024

[WWW.HOMERUNRESOURCES.COM](http://WWW.HOMERUNRESOURCES.COM)



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# OUR VISION & MISSION

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## VISION

Our vision is to be a leading materials company in the high-purity (HPQ) silica energy and industrial verticals.

## MISSION

Our mission is to provide our customers with the highest quality materials, using sustainable and responsible practices, and to continuously improve our offerings through innovation based on customer feedback, while fostering a culture of safety, teamwork, and social and environmental respect.

The logo for Homerun Resources is displayed in a white, cursive script font. It is positioned over a blue rectangular background that features a sunburst effect at the bottom, with rays of light extending upwards. The background of the entire slide is a composite image showing a large industrial facility with multiple levels and conveyor belts in the upper half, and a vast field of solar panels in the lower half, with a bright sun setting or rising behind them, creating a lens flare effect.

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# BUSINESS PLAN ROADMAP

## Phase 1 – HPQ Silica Supply

Homerun has announced multiple agreements to secure a substantial supply of Silica from the Belmonte District in Bahia, Brazil, including our partnership with the Bahian State Government. This exceptionally high-grade raw resource can be efficiently processed to serve the premium end-markets for HPQ Silica. The strategic imperative under Phase 1, was to secure a steady and reliable source of HPQ Silica against a backdrop of increasing global demand in sustainable industrial and green energy applications. The Company will continue in its ongoing plans to control the Belmonte Silica Sand District as well as look for other resources of high-grade silica, globally.

## Phase 3 – Vertical Integration

Homerun is driving toward revenue and at the same time, under Phase 3, executing on engineering and R&D plans to secure competitive advantages in HPQ Silica verticals serving the Energy Transition. Announcements advancing this plan have already been made (see below) and will continue over the entirety of 2024 with deliverables expected in 2025 and beyond.



### OUR GOALS

- Homerun will be a top supplier of HPQ Silica and manufactured HPQ Silica products into the Energy Transition.
- Homerun will create job and training opportunities for the people of Brazil, while respecting the environment and the culture of Brazil.

2023

2024

2025

**May 2024 – Homerun Executes LOI With SI&MEX For Up To 365,000 Tonnes of Solar Glass Per Year**

## Phase 2 – Infrastructure and Revenue

The Silica Sand from the Belmonte District can be sold in its natural form to a select few organizations that have their own upgrade processing operations, but this is a very low margin opportunity. The supply into higher-value end-uses requires at least a minimal amount of processing (wash, size, dry and bag).

Under Phase 2, the focus is on obtaining the required infrastructure through partnership, purchase, lease and capital expenditure for the mining, transportation, storage and processing to HPQ Silica. **Announcements in this area will be forthcoming over the first half of 2024 to facilitate first HPQ Silica revenues in the second half of 2024.**



# HOMERUN RESOURCE PARTNERS



The National Renewable Energy Laboratory (NREL), is focused on creative answers to today's energy challenges. From breakthroughs in fundamental science to new clean technologies to integrated energy systems that power our lives, NREL researchers are transforming the way the nation and the world use energy. NREL is a research division of the US Department of Energy.



Babcock & Wilcox is a leader and innovator in the energy transition, making net-zero ambitions a reality today for a cleaner tomorrow. With our proven clean-energy solutions, we continue to meet the challenges of the ever-changing energy landscape. We have aligned our strategy, culture and day-to-day operations to support these worldwide initiatives.



Companhia Baiana de Pesquisa Mineral (CBPM) is the mineral research and development company of the State of Bahia, Brazil. Its activities are centered on expanding and improving geological knowledge of the Bahian territory, by identifying and researching its mineral resources and promoting their use by attracting private initiatives to this end. Founded on December 18, 1972, CBPM is recognized as one of the most dynamic companies in mineral research in Brazil.



Minerals Development Oman (MDO) was established with a clear strategic vision to unleash the potential of the mining sector by investing directly in or enabling various projects across a range of material commodities and value chains, to generate sustainable returns for its shareholders, Oman and its people.



Halocell Energy is a pioneering company at the forefront of perovskite solar cell technology. Founded with a vision to revolutionize renewable energy, Halocell specializes in the development and commercialization of high-efficiency perovskite solar cells for a sustainable future. With a team of leading experts and innovators in the field, Halocell is dedicated to advancing the performance, stability, and scalability of perovskite solar cells to make them a viable and competitive alternative to traditional silicon-based photovoltaics.



Si&MEx Solutions is a technology, engineering and ESG based company with decades of experience in the Silicon and Photovoltaics Field. With an international footprint, the Company is stepping into Manufacturing with high circularity, the lowest CO2-equivalente footprint, and high automation and digitalization applied to Silicon Photovoltaics Manufacturing.

# MANAGEMENT

## **BRIAN LEENERS – CEO/DIRECTOR**

Brian Leeners received both his B.Comm. and LL.B. degrees from the University of British Columbia in 1992 and since that time has been focused on the management of private and public venture companies. In 2002, he founded Nexvu Capital Corp. which is a venture capital firm focused on developing companies in the Materials and Technology Sectors. Nexvu provides hands-on business development strategy and expertise for start-up and growth phase companies. Since formation in 2002, Nexvu has been directly responsible for raising in excess of US\$100 million for Nexvu founded transactions (not including any public market buy-side volumes).

## **ANTONIO VITOR – COUNTRY MANAGER BRAZIL**

Antonio has vast experience in project management at large corporations, including Transpetro, PwC, Shell, along with 10 years of experience in mining. He was involved in the mining projects Zumbi Mineração Grafite de veio, AMA Gold, Hawking Graphite, 3 S Rare Earths and Copper, Palmeres Rare Earths. He graduated in Business Administration and holds an MBA. He is a Member of IBGC.

## **DR. MAURO CESAR TERENCE - CTO**

Dr. Mauro Cesar Terence - Graduation in Chemistry from Universidade Presbiteriana Mackenzie (1994), Masters in Nuclear Engineering from Universidade de São Paulo (1996), Doctorate in Nuclear Engineering from Universidade de São Paulo (2002). Experienced in Material and Metallurgical Engineering, in the following subjects: Advanced Materials, Nano Materials, Biomaterials, Ceramics, Blends and Polymers.

## **ARMANDO FARHATE – CHIEF OPERATING OFFICER**

Armando Farhate, a Brazilian citizen, has more than 36 years of industry experience, with the last 13 years being in the mining sector. He has occupied C-Level and Upper Management positions in mining companies in Brazil, Canada, Namibia and Botswana and is currently a Director on the Board for three Canadian mining and exploration companies. He brings extensive experience in all areas of this industry segment, with special focus on Operations, Sales & Marketing, Engineering and Mineral Resource Development.

## **NANCY ZHAO - CFO**

Ms. Zhao has over 9 years of experience working with public companies, having served as the CFO for several publicly traded entities, contributing her financial acumen to organizations such as First Hydrogen Corp (TSXV-FHYD), and Neo Battery Materials Ltd (TSXV-NBM). Ms. Zhao is currently a board member of First Hydrogen Corp. Holding the designation of CPA, Ms. Zhao has a comprehensive educational background, including a diploma in Financial Management from British Columbia Institute of Technology, and a bachelor's degree in chemical engineering from Tianjin University of Technology. Ms. Zhao's professional journey encompasses diverse roles, including years of valuable experience as a procurement agent for Sinopec in China.

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**BUSINESS PLAN  
PHASE 1**

**HPQ SILICA  
SUPPLY**



# PHASE 1 – HPQ SILICA SUPPLY

**GOAL:** 100 Million Tonnes of Owned and Permitted  
Raw Silica Sand Resources by End of 2024



SILICA RESOURCES	RESOURCE PERMIT STATUS
CBPM Lease	~100 MM Tonnes - MRE to Permit
Belmonte Option	Exploration concession
Belmonte Concessions	Exploration concessions (4)
SDP (Supply Agreement)	~80 MM Tonnes - Permit
CURRENT NEGOTIATIONS	
Vendor 1 (CBPM Lease)	+100 MM Tonnes - Permit
Vendor 2 (CBPM Lease)	~20 MM Tonnes - In Permit Process
Vendor 3 (CBPM Lease)	~40 MM Tonnes - In Permit Process

(Raw Si Grade ABOVE 99.75)





# VERIFIED HPQ QUALITY

**GOAL:** Thermal Processing Si Grade > 99.99 = US\$500 per Tonne

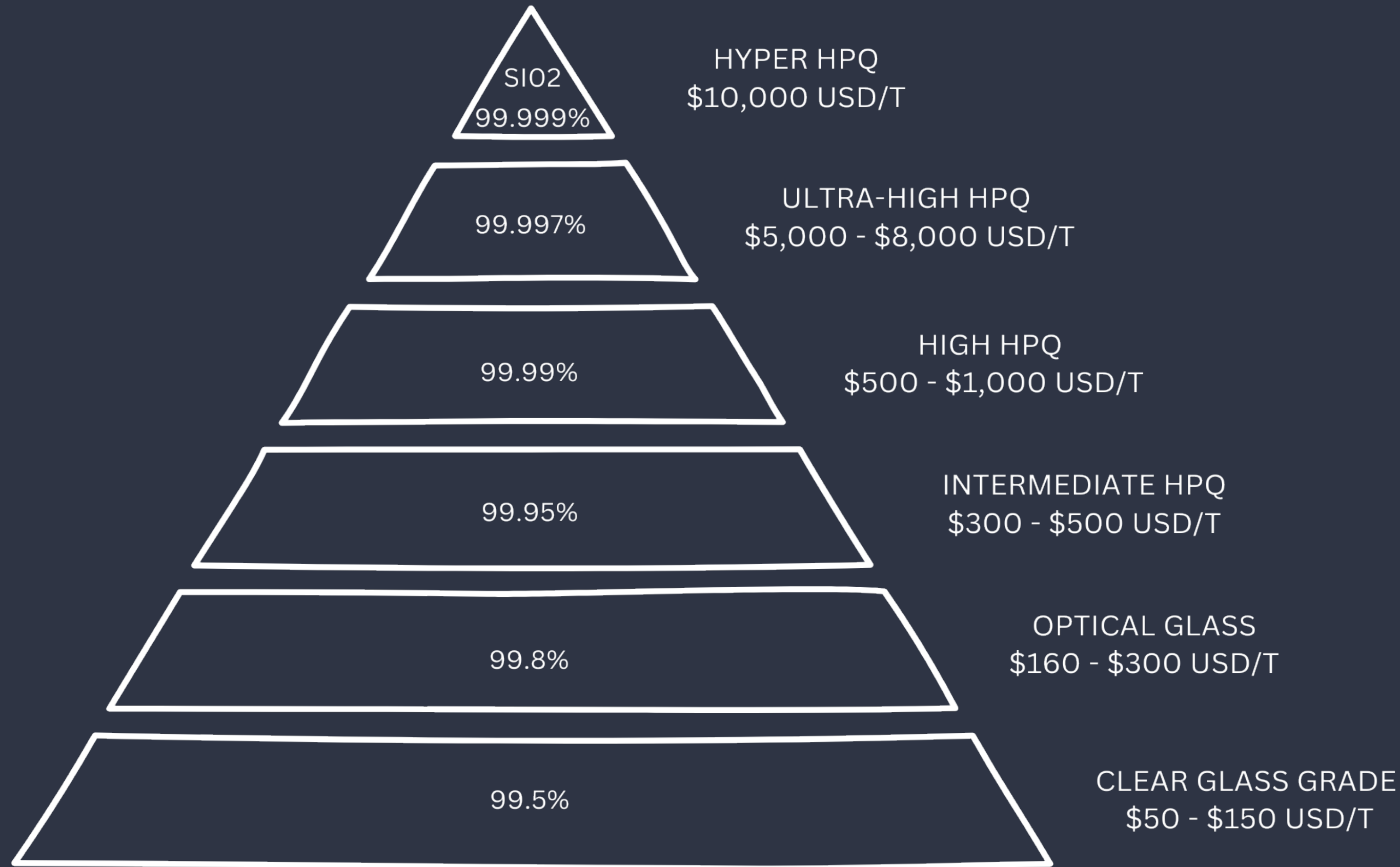


	Al [ppm]	Fe [ppm]	Na [ppm]	K [ppm]	Li [ppm]	Ti [ppm]	Zr [ppm]	Ca [ppm]	Mg [ppm]	Cr [ppm]	Mn [ppm]	Cu [ppm]	Sum [ppm]
<b>Chemical analyses of raw quartz sand</b>													
Raw quartz sand	17.5	5.5	2.7	1.3	0.08	150	5.2	90	33	0.13	0.12	<0.05	306
<b>Physical processing</b>													
Fraction 0.1 - 0.5 mm	10.6	3.3	1.5	0.9	0.12	23.5	8.7	98	35.1	<0.05	<0.05	<0.05	182
After scrubbing	12.4	2.4	1.7	1.3	0.08	21.5	0.59	98	36.1	<0.05	<0.05	<0.05	174
Flotation F1	12.2	1.7	2.2	1.4	0.17	16.4	0.44	97	35.7	<0.05	<0.05	0.12	167
NonMag 3	11.0	1.8	1.6	1.7	0.08	25.8	0.52	94	34.6	0.05	<0.05	<0.05	172
NonMag 4	13.1	1.7	1.6	1.6	0.29	19.4	0.51	91	34.5	0.05	0.08	0.4	164
NonMag 5	11.0	1.6	1.7	1.6	0.10	17.5	0.74	88	33.1	0.05	<0.05	<0.05	155
Flotation F2 of NonMag 5	12.7	1.6	2.1	1.2	0.19	18.8	0.62	85	33.9	<0.05	<0.05	<0.05	156
<b>Chemical processing after scrubbing</b>													
Acid washing AW1 (HF std.)	10.3	1.3	1.7	0.86	<0.1	13.5	0.30	86	34.8	<0.05	<0.05	<0.05	149
Acid washing AW 2 (HCl)	10.4	1.6	1.6	1.1	<0.1	21.3	0.45	89	35.4	<0.05	<0.05	<0.05	161
<b>Typical products</b>													
Optical glass Type I		<1								<0.005	<0.005	<0.005	
Optical glass Type II		<5								<0.1	<0.1	<0.1	

**Standard Physical Processing: Si Grade > 99.985 = US\$225 per Tonne**  
**Extremely low Iron (Fe) Content Suitable For Energy and Technology Applications**



# AVERAGE **USD PRICES** FOR HPQ SILICA GRADES



- HMR Raw (In Ground) Material Grades AVG **+99.75% SiO2**
- Standard Physical Processing Achieves Grade **+99.985% SiO2**
- GOAL (Testing Underway) Thermal Processing Grade of **+99.99% SiO2**
- Pyramid is representation of market size per use case.



The background image shows a large-scale quarry operation. In the foreground and middle ground, there are massive piles of white, crushed limestone or marble. A yellow excavator is visible working on one of the lower slopes of the material. In the background, there are more piles of material and a line of green trees under a clear blue sky with some light clouds.

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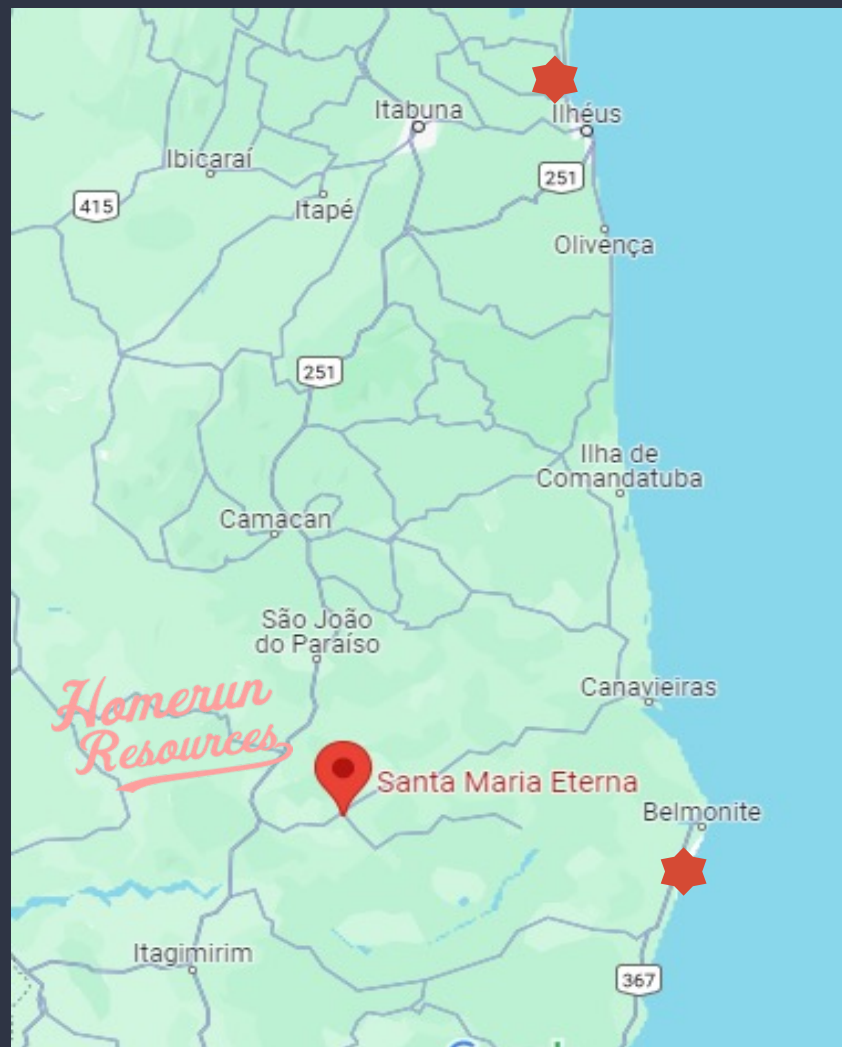
**BUSINESS PLAN  
PHASE 2**

**INFRASTRUCTURE  
& REVENUE**



# PHASE 2 – INFRASTRUCTURE & REVENUE

GOAL: Production of Processed Silica in 2024



- Immediate plan is to move the extracted silica sand from Santa Maria Eterna (the mine) to tide water through Belmonte.
- From Belmonte the silica sand will be transported by large ocean barge to storage at the ports of Ilheus / Aratu.
- Advanced processing will take place at the port of Aratu in Salvador.
- Significant cost reductions with infrastructure in place.



## BELMONTE DISTRICT

- Mine Infrastructure
- Road Infrastructure
- Power Infrastructure
- Nat Gas Infrastructure
- Barge Loading Facility
- Single Barge capacity of 10,000t
- Multi Barge use capabilities

The mine will require extraction, first phase processing, loading facilities and double haul trucks.



# PHASE 2 – INFRASTRUCTURE & REVENUE

GOAL: Production of Processed Silica in 2024

## PORT OF ILHEUS

- Storage Facility
- Loading Facility
- Shipping Facility
- Energy Infrastructure
- Recent Significant Government Funded Port **Upgrades**



PORT OF ILHEUS HAS **IMMEDIATE SHIPPING** CAPACITY



# PHASE 2 – INFRASTRUCTURE & REVENUE

GOAL: Production of Processed Silica in 2024

## PORT OF ARATU

- Storage Facility
- Loading Facility
- Shipping Facility
- Energy Infrastructure
- Advanced/Thermal Processing & Solar Plant in Camacari
- BYD Opening Facility in Camacari where production set to begin early 2025





# PHASE 2 – INFRASTRUCTURE & REVENUE

GOAL: Production of Processed Silica in 2024



## FACILITY / EQUIPMENT

### PRE CASH-FLOW

Mine Extraction  
Mine Processing  
Mine Transport

Service Partnership  
Wash, General Sort, Dry, Bag  
Service Partnership

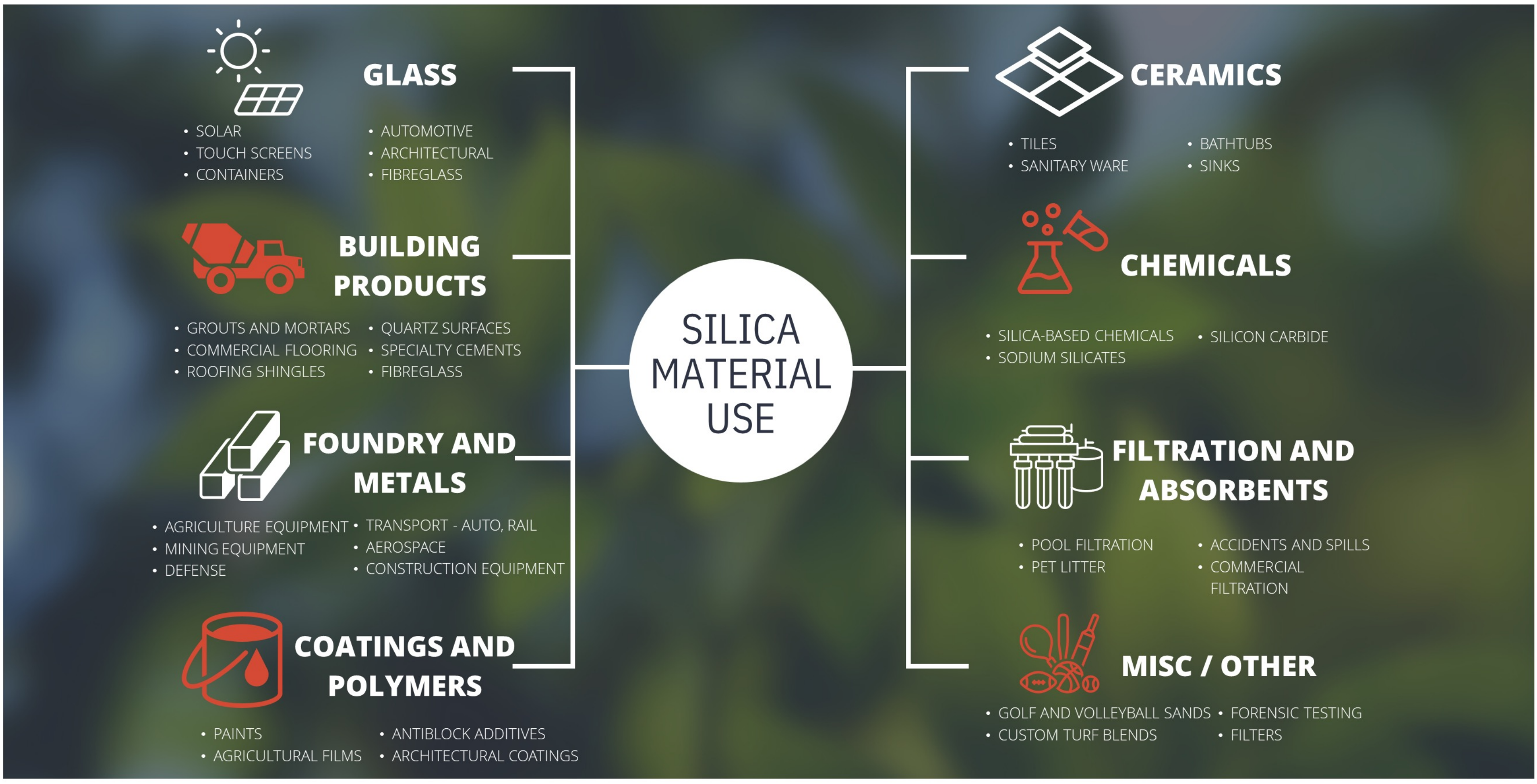
### POST CASH-FLOW

Stage 2 – Physical Processing	Belmonte
Stage 3 – Advanced Processing	Aratu

NREL – plan for distributed silica processing  
via the NREL Enduring Energy Storage System



# HPQ SILICA **MARKETS**





# HPQ SILICA **MARKETS**



“Our entire society is built on sand. Sand is the primary substance used in the construction of roads, bridges, highspeed trains and even land regeneration projects. Sand, gravel and rock crushed together are melted down to make the glass used in every window, computer screen and smart phone. Even the production of silicon chips uses sand.”

“Yet, the world is facing a shortage...”  
CNBC - 2021



BELMONTE SILICA SAND DISTRICT (BAHIA, BRAZIL)





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**BUSINESS PLAN  
PHASE 3**

**VERTICAL  
INTEGRATION**



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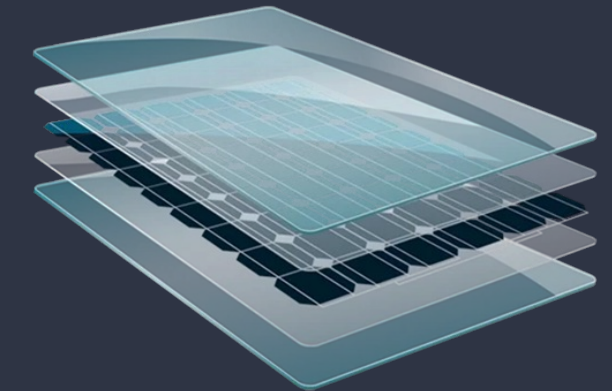
## Silica: The Essential Material for the Energy Transition

POWERING SOLAR, BATTERY,  
GLASS, AND SILICON INDUSTRIES



# SOLAR GLASS – **FIRST IN THE AMERICAS**

SOLAR GLASS PLANT PLANNING - 2024



Basic Engineering for a Solar Glass Plant  
Scalable to 1000 t/day in Bahia, Brazil

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# PHASE 3 – **VERTICAL INTEGRATION**

**HOMERUN SIGNS LOI FOR UP TO 365,000 TONNES OF SOLAR GLASS PER YEAR**



- The primary focus of the partnership is for Homerun to provide up to 365.000 tonnes per year of solar glass supply, under agreed specifications and commercial terms.
- The Parties will jointly develop plans for a High Purity Solar Crucible Manufacturing plant for Ingot and Wafer manufacturing in the Silica to Solar Supply Chain.
- Plan is to produce up to 5GW in annual production (circa 10 to 12 million Solar Modules including bi-facial glass-on-glass) in Camacari, Bahia, Brazil starting in 2024.
- With 113,147 MW of solar capacity in the pre-construction phase, Brazil ranks second to China (241,744 MW) in solar pre-construction globally

**Technical Collaboration and the Commercial Supply of Glass from Homerun to the Solar Manufacturing facility in Camacari, Bahia, Brazil.**

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# SOLAR INNOVATION – PEROVSKITE PV

## RESEARCH & DEVELOPMENT

**INTERNAL R&D (HOMERUN CTO - DR. TERENCE MAURO +)**

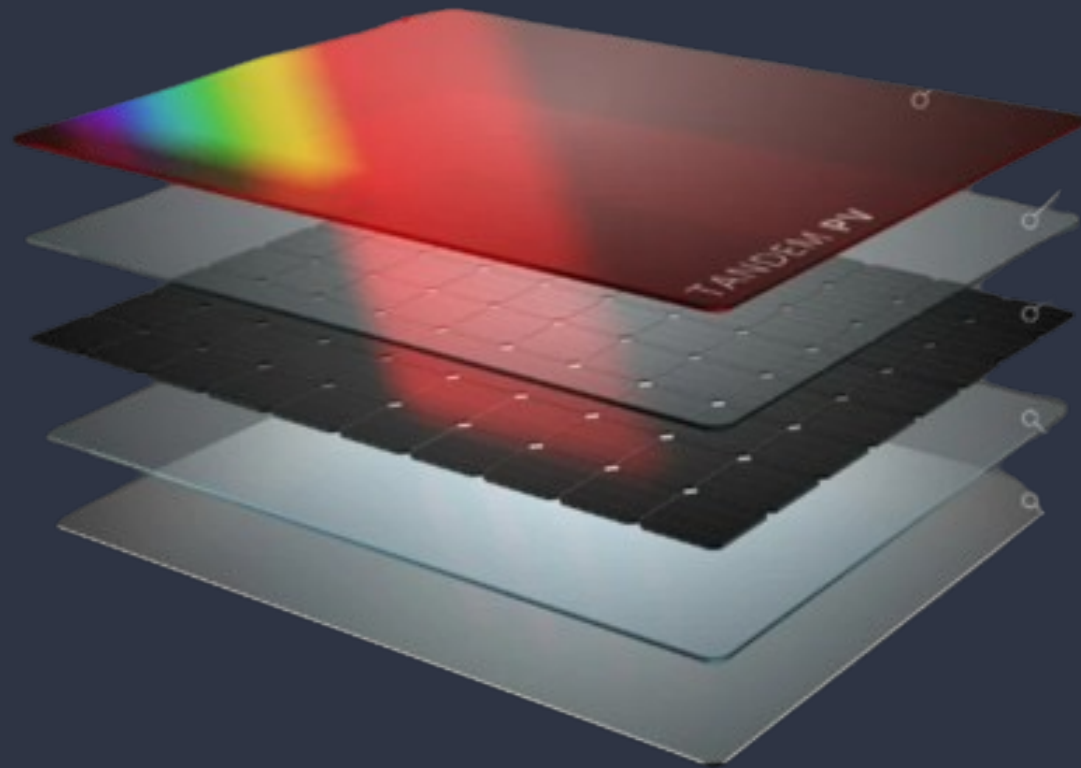
DEVELOP AND INTEGRATE WORLDCLASS PEROVSKITE SOLAR IP FOR BRAZIL

**NREL (USA DEPT OF ENERGY)**

ACCESS TO THE DEEPEST PEROVSKITE SOLAR IP PORTFOLIO IN THE WORLD (NREL PROVIDED THE CORE IP THAT CHINA DEVELOPED INTO A DOMINANT GLOBAL SOLAR POSITION)

**HALOCELL ENERGY**

INTEGRATE COMMERCIAL-READY PEROVSKITE SOLAR AND SOLAR GLASS SOLUTIONS



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# BATTERY INNOVATION – **ANODES**

## RESEARCH & DEVELOPMENT

**INTERNAL R&D (HOMERUN CTO - DR. TERENCE MAURO +)**

DEVELOPMENT OF BATTERY ANODE POWDERS (SILICON & HYBRID GRAPHITE ANODES)

**BAHIA GRAPHITE CORPORATION**

CO- DEVELOPMENT OF BATTERY ANODE POWDERS (HYBRID GRAPHITE ANODES)

**NREL (USA DEPT OF ENERGY)**

METALLURGY & PROCESSING SILICA TO SILICON BATTERY ANODES

**UNIVERSITY OF CALIFORNIA – DAVIS – MATERIALS LAB**

NEW ELECTROTHERMAL TECHNIQUES FOR PROCESSING SILICA TO SILICON



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# BATTERY INNOVATION – ENERGY STORAGE

COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT WITH  
U.S. DEPARTMENT OF ENERGY'S NATIONAL RENEWABLE ENERGY LABORATORY

**NREL (USA DEPT OF ENERGY)**

UPGRADE PROCESSING OF SILICA WITHIN THE NREL ENDURING ENERGY STORAGE SYSTEM

The National Renewable Energy Laboratory (NREL) is in the late stages of prototype testing a new thermal energy storage technology that uses silica sand as a storage medium. Economic Long-Duration Electricity Storage by Using Low-Cost Thermal Energy Storage and High-Efficiency Power Cycle (ENDURING) is a reliable, cost-effective, and scalable solution that can be sited **ANYWHERE!**

The Parties will analyze the economic benefits of using Homerun's silica sand for energy storage, including energy arbitrage from energy storage and grid service, processing of the silica sand by using low-cost electricity in the energy storage, and generating income from the processed silica after its use for energy storage.

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U.S. DEPARTMENT OF  
**ENERGY**



# SHARE STRUCTURE

As of May 13, 2023

Exchange	TSXV	
Common shares	52,624,825	
Stock options - amount & avg price	9,700,000	\$ 0.37
Warrants - amount and avg price	7,756,300	\$ 0.34
Fully Diluted	70,081,125	
FD Market Cap	\$ 45,552,731	\$ 0.65
FD Insider Ownership %	20%	

Note: Ongoing CAPEX Finance discussions with Investment, Private and Development Banks in Canada and Brazil.



# CONTACT US FOR MORE INFORMATION



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## Our Website

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## Business Development

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**Thank You**

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