INVESTOR PRESENTATION

DECEMBER 6, 2021

FORWARD LOOKING STATEMENTS

This presentation includes "forward-looking statements" within the meaning of the federal securities laws - that is, statements about the future, not about past events. Forward-looking statements give our current expectations and projections relating to our financial condition, results of operations, plans, objectives, future performance and business. These statements may include words such as "anticipate," "estimate," "expect," "project," "plan," "intend," "believe," "may," "will," "should," "could," "can have," "likely" and other words and terms of similar meaning. Forward-looking statements made include any statement that does not directly relate to any historical or current fact and may include, but are not limited to, statements regarding the Company's growth opportunities, strategy, future financial results, forecasts, projections, plans and capital expenditures, technological innovations, and the commercial silica and diatomaceous earth industry. Forward-looking statements are based on our current expectations and assumptions, which may not prove to be accurate. These statements are not guarantees and are subject to risks, uncertainties and changes in circumstances that are difficult to predict. Many factors could cause actual results to differ materially and adversely from these forward-looking statements. Among these factors are global economic conditions; the effect of the COVID-19 pandemic on markets the Company serves, fluctuations in demand for commercial silica, diatomaceous earth, perlite, clay and cellulose; fluctuations in demand for frac sand or the development of either effective alternative proppants or new processes to replace hydraulic fracturing; the entry of competitors into our marketplace; changes in production spending by companies in the oil and gas industry and changes in the level of oil and natural gas exploration and development; general economic, political and business conditions in key regions of the world; pricing pressure; weather and seasonal factors; the cyclical nature of our customers' business; our inability to meet our financial and performance targets and other forecasts or expectations; our substantial indebtedness and pension obligations, including restrictions on our operations imposed by our indebtedness; operational modifications, delays or cancellations; prices for electricity, natural gas and diesel fuel; our ability to maintain our transportation network; changes in government regulations and regulatory requirements, including those related to mining, explosives, chemicals, pharmaceuticals, and oil and gas production; silica-related health issues and corresponding litigation; and other risks and uncertainties detailed in our Forms 10-K, 10-Q, and 8-K filed with or furnished to the U.S. Securities and Exchange Commission. If one or more of these or other risks or uncertainties materialize (or the consequences of such a development changes), or should underlying assumptions prove incorrect, actual outcomes may vary materially from those reflected in our forward-looking statements. The forward-looking statements speak only as of the date hereof, and we disclaim any intention or obligation to update publicly or revise such statements, whether as a result of new information, future events or otherwise.

U.S. SILICA AT A GLANCE

U.S. Silica (NYSE: SLCA) is a diversified global performance materials company and a leading producer of high value minerals and specialty products used in a variety of industrial applications

Core competencies include (surface) mining, processing, logistics and material science with a rich 120+ year history

TWO BUSINESS SEGMENTS:

Industrial & Specialty Products (ISP)

- Products are used in renewable energy, building and construction, as fillers and extenders, for filtration, glassmaking, as absorbents, foundry, and in sports and recreation
  - Serve diversified global base of >10,000 customers
  - Robust pipeline of new products and applications
  - Attractive end-use markets with established growth drivers

Oil & Gas Proppants (O&G)

- Provide proppant and last-mile logistics to the onshore U.S. oil and gas industry
  - Well established industry relationships

24
Active Production Facilities

568M TONS
Reserves

INDUSTRY LEADING
ESG Platform

$1.7B
Enterprise Value[1]

~$1.0B
2021 Revenue[2]

[1] As of market close November 29, 2021
[2] Consensus Estimate

OUR 3 STRATEGIC PRIORITIES

PRIORITIZE FREE CASH FLOW

- Further de-lever and strengthen the balance sheet
- Targeted, returns-driven capital investments
- Continue to reduce and maintain net debt to TTM Adjusted EBITDA leverage between 3-4x by 2024

INDUSTRIAL

GROW $CM 10-15%/YR ON AVERAGE

- Positioned to benefit from clean energy and infrastructure spending
- Key supplier for renewable energy
- Robust, high margin product development pipeline
- Grow base business volume and price at GDP+

OIL & GAS

GENERATE CASH

- Customer spending and completions activity a tailwind in 2022
- Funds ISP growth and strengthens the balance sheet
- Low-cost provider, positioned to increase share with market leading customers

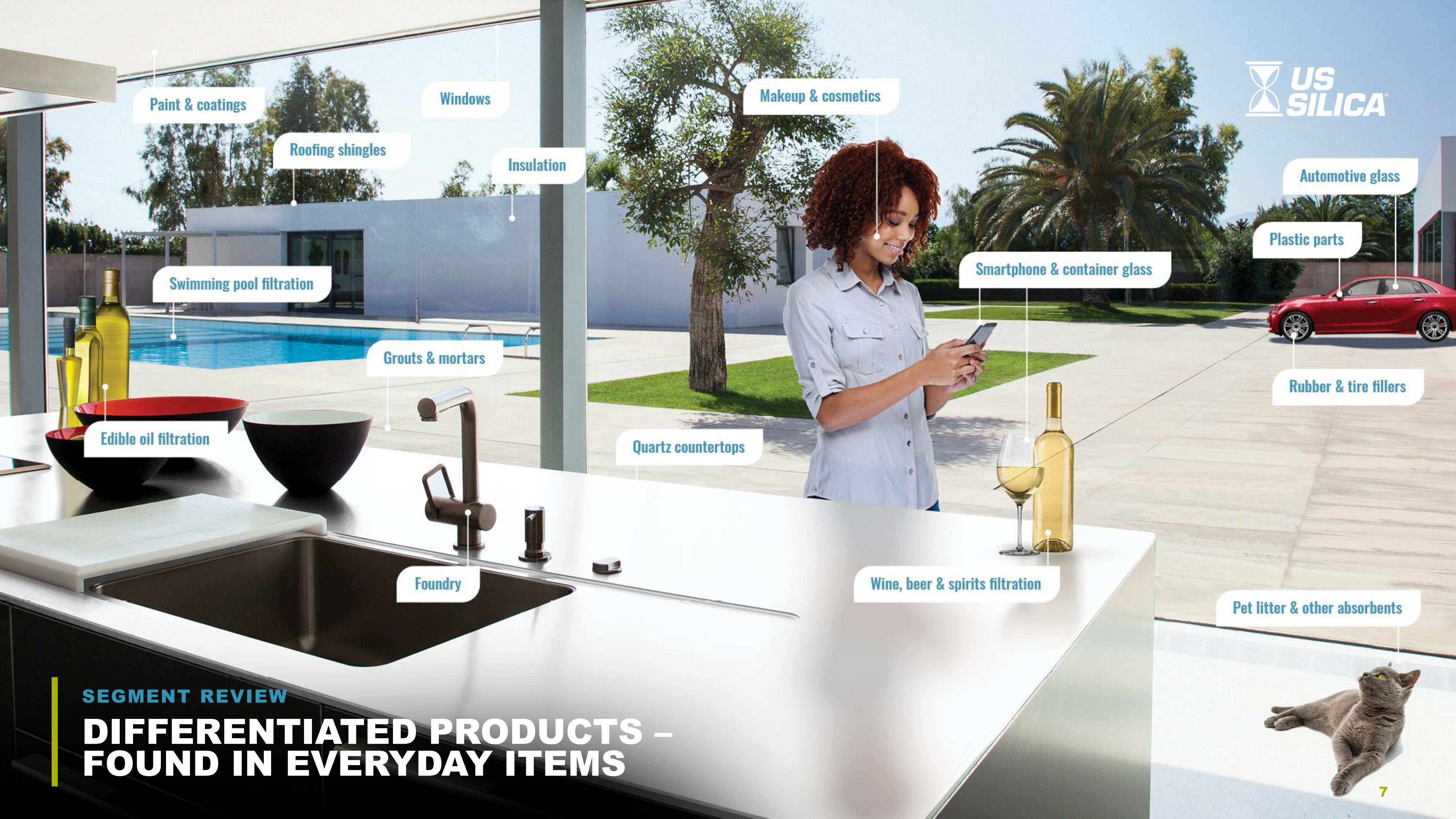
COMPANY OVERVIEW

Q3 2021 HIGHLIGHTS AND UPDATES

- Cash flows generated from operating activities were $75 million
  - Paid off $25 million outstanding revolver balance
  - Leverage below 4.0x on net debt to TTM Adjusted EBITDA basis
- Demand for ISP remained strong with essentially flat sequential volumes and revenues
  - Moved quickly and aggressively to combat supply chain and logistics challenges, overall cost inflation, and higher natural gas prices through price increases and surcharges
  - Announced 4th price increase for ISP products
    - Ranging from 6% to 14% beginning February 2022
- O&G proppant demand moderated slightly as completions slowed and customer mix shifted to more spot sales at lower margins
  - SandBox logistics improved sequentially from increased pricing
  - Outlook for 1H 2022 is expected to be strong as energy company budgets reset and completions activity increases to levels consistent with supportive commodity prices
- Strategic alternatives review for ISP is ongoing with broad range of opportunities under evaluation

1) Net debt calculation as of 9/30/2021

INDUSTRIAL AND SPECIALTY PRODUCTS (ISP)



SEGMENT REVIEW

DIFFERENTIATED PRODUCTS – FOUND IN EVERYDAY ITEMS

STRONG SUSTAINABILITY LINKAGES

Key Supplier for Renewable Energy[1]

- Low-iron silica sands in 15%-20% of newly installed U.S. solar panels
  - Currently used in approximately 50% of U.S. solar glass production
- Provide products used in >80% of U.S. produced fiberglass composite for wind turbine blades

SOLAR ENERGY SOLUTIONS

Our low iron silica is necessary to produce glass that effectively transmits the sun's energy to solar panel cells

WIND POWER ADVANCEMENTS

Our specialty silica is a critical component in fiberglass for wind turbine blades

LOWER AUTO EMISSIONS

Our ground silica is used to produce particulate filters for gasoline and diesel engines

CLEAN-BURNING GREEN DIESEL

Diatomaceous earth and clay are key processing aids in green diesel production

FEEDING THE PLANET

Our bleaching clay adsorbents and filter aids support the most stringent food safety standards

1) Internal market share estimates

COMMERCIALIZED ISP PRODUCTS & NEW ISP PIPELINE[1]

Commercialized

Cool Roof Granules
Reflects 80% of solar heat and reduces energy costs

MARKET GROWTH: 10-15% | GLOBAL TAM: $150M+

EverWhite™ Cristobalite
Key ingredient in high-end quartz countertops for homes

MARKET GROWTH: 5-10% | NORTH AMERICA TAM: $190M+

High Purity Filtration
Using diatomaceous earth to filter blood plasma

MARKET GROWTH: 8-12% | GLOBAL TAM: ~$40M+

Organic Pesticide
Premium product in a resilient retail category

MARKET GROWTH: 8-10% | NORTH AMERICA TAM: $10M+

Lightweight Absorbents
Premium product in a defensive retail category

MARKET GROWTH: ~10% | NORTH AMERICA TAM: $20M+

New Pipeline $200M+ in new products under development

Sustainable Fuel Production
Turning oil waste into the fuel of tomorrow

MARKET GROWTH: ~15% | GLOBAL TAM: $100M

Catalysts
Specialized clay chemistry drives energy production

MARKET GROWTH: 5-7% | GLOBAL TAM: $60M+

New Minerals
Expanding current expertise beyond silica

MARKET GROWTH: 5-10% | NORTH AMERICA TAM: $50M+

Pozzolans
Next generation stronger, more durable concretes

MARKET GROWTH: 7-10% | NORTH AMERICA TAM: $100M+

Reinforcing Fillers
Affordably increasing the strength and durability of polymers

MARKET GROWTH: 6-8% | GLOBAL TAM: $3B+

[1] Internal estimates for 5-year market compound annual growth rate (CAGR) and total addressable market (TAM)

FINANCIAL OVERVIEW

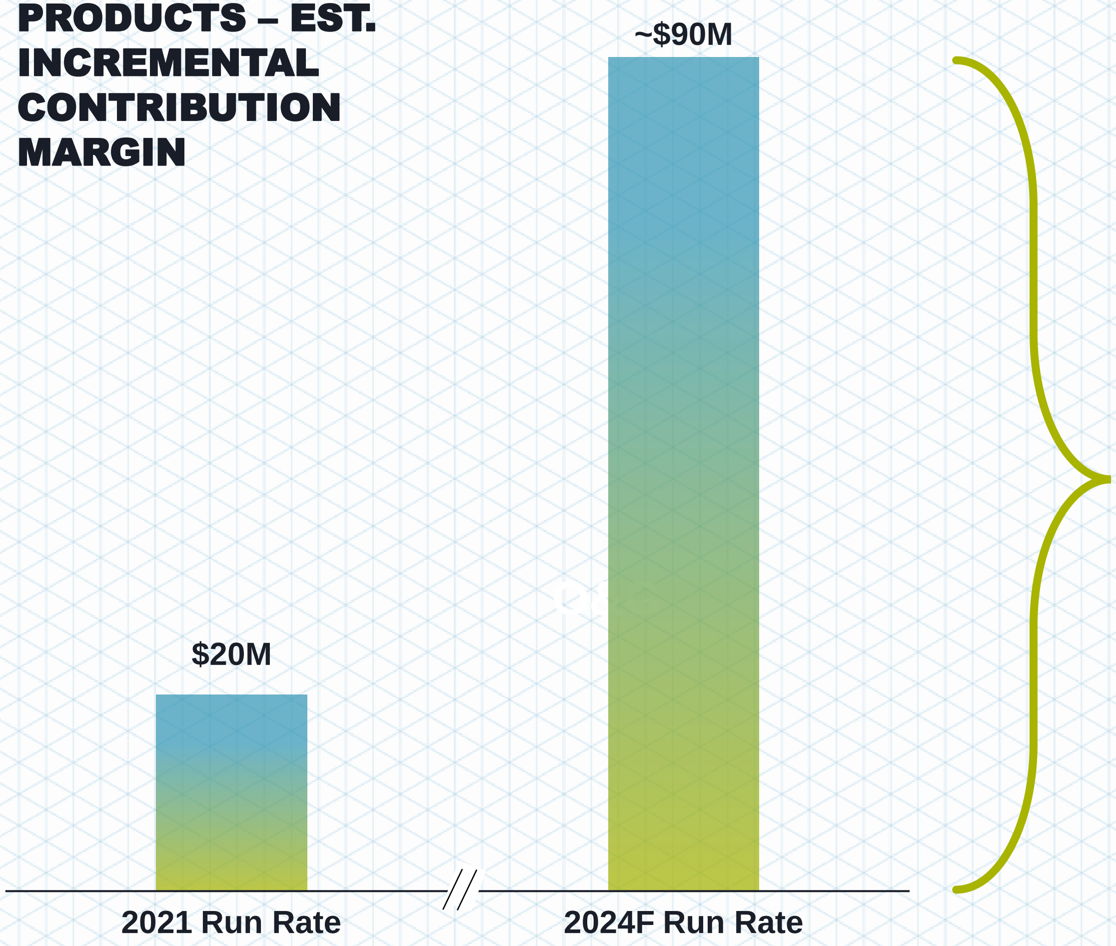
EXPECTED VALUE OF ISP NEW PRODUCT CONTRIBUTIONS

~10-15%
Expected Industrial Segment CAGR (2021-2024)[1]

~30-35%
% of expected Industrial margin generated by new products by 2024

Trajectory could
Double
Industrial Segment By 2026

ISP SEGMENT NEW PRODUCTS – EST. INCREMENTAL CONTRIBUTION MARGIN



KEY END MARKET DRIVERS

INFRASTRUCTURE

[1]Internal estimates for 3-year compound annual growth rate (CAGR)

OIL AND GAS PROPPANTS (O&G)

EFFICIENT, LOW-COST SAND AND LOGISTICS PROVIDER

→ **Strong cash generation through cycles**

→ **Funds ISP growth**

- Strategically positioned with in-basin mine locations
  - Low-cost provider
  - Capacity to address increased Permian activity
  - Minimal maintenance capital required
- Integrated with SandBox's containerized delivery solution
  - Cleaner, safer, reliable and more efficient
- Well established industry relationships

INVESTMENT HIGHLIGHTS

LEADING THE TRANSITION TO A MORE SUSTAINABLE FUTURE

E

- Minimize GHG emissions by reducing fuel and electricity usage at our plants
- Protect air quality and mitigate water use in and around our communities
- Conserve habitats and execute customized reclamation plans

S

- Maintain industry leading Environmental, Health & Safety programs; goals to achieve zero reportable and lost time incidents through comprehensive safety training
- Focused on diversity and inclusion amongst our workforce, the Board, and our supply chain

G

- Innovate sustainable product offerings that promote the transition to clean energy
- Assist customers in reducing their carbon footprint through offerings that increase sustainability propositions

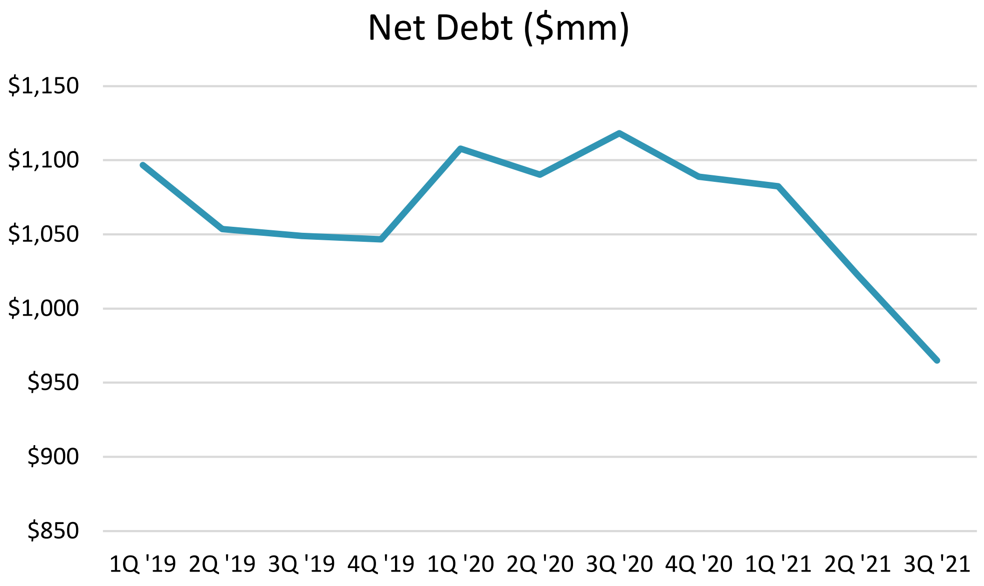
INVESTMENT HIGHLIGHTS

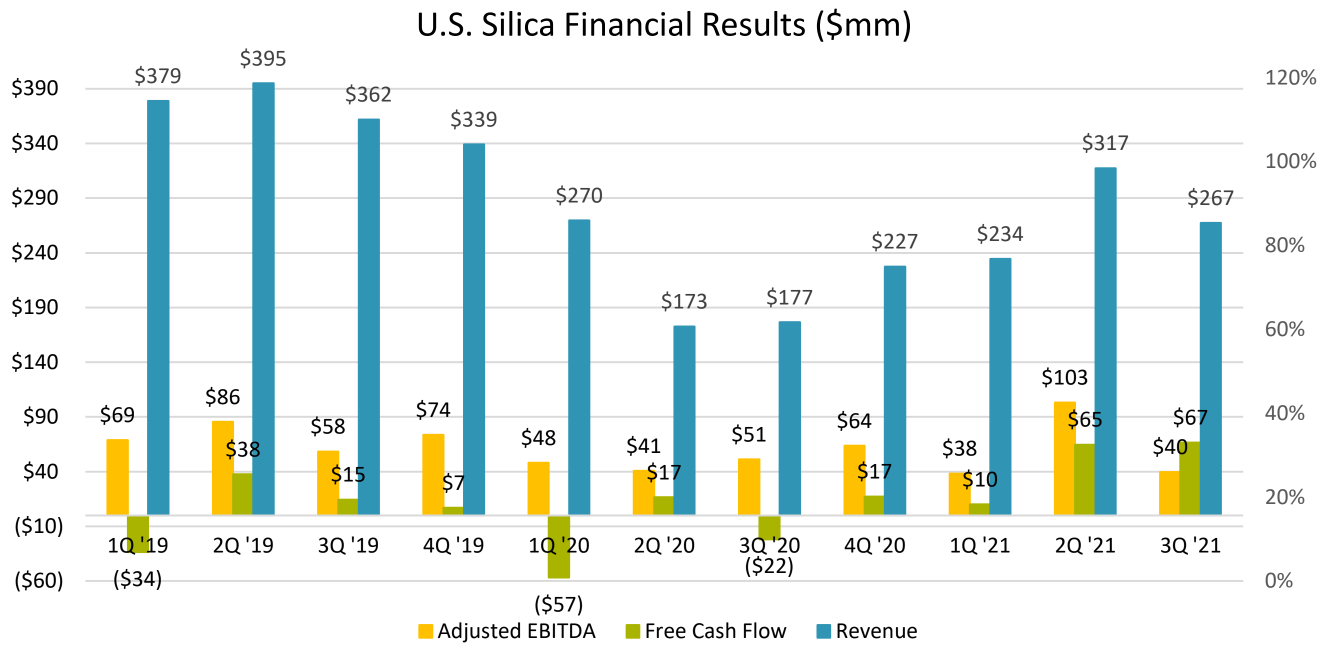
POSITIONED FOR SUSTAINABLE, LONG-TERM GROWTH

- Prioritizing free cash flow:
  - De-lever and strengthen the balance sheet
  - Returns-driven capital investments
  - Further reduce and maintain net leverage between 3-4x
- Grow ISP 10-15% on average through 2024:
  - Robust $200M+ development pipeline of high margin products
  - Products support clean energy transition and infrastructure spending
  - Serve numerous critical and defensive industries
- O&G business generates cash:
  - Supports ISP growth and strengthens the balance sheet
  - Low-cost provider, positioned to increase market share
  - Well established industry relationships

APPENDIX

FOCUSED ON FCF, DE-LEVERAGING AND DISCIPLINED GROWTH





ISP SEGMENT DETAIL

DIVERSE MIX OF END MARKETS

% of 2020 ISP Revenue

Absorbents | 10%

- Automotive
- Accidents & Spills
- Pet Litter

Additives/Fillers/Extenders | 13%

- Animal Feeds
- Cosmetics
- Paper, Plastic & Rubber
- Paint & Coatings

Clays | 9%

- Chemical & Petrochemical
- Edible Oil Processing & Refining
- Animal Feed Additives

Building Products | 14%

- Grouts & Mortars
- Specialty Cements
- Quartz Surfaces
- Roofing Shingles

Pool/Recreation | 7%

- Golf Sand
- Pool Filtration
- Sports Fields

Glass | 19%

- Smartphones & Tablets
- Containers
- Automotive Glass
- Fiberglass

Chemicals | 3%

- Silica-based Chemicals
- Ceramics
- Sodium Silicates
- Silicon Carbide

Filtration | 24%

- Beverages
- Pharmaceutical
- Biofuels
- Edible Oils

Misc./Other | 1%

- Foundry
- Golf Sand
- Pool Filtration
- Forensic Testing

>800 products, critical raw materials for long-term customers

NON-GAAP FINANCIAL PERFORMANCE MEASURES

Segment Contribution Margin

The Company organizes its business into two reportable segments, Oil & Gas Proppants and Industrial & Specialty Products, based on end markets. The reportable segments are consistent with how management views the markets served by the Company and the financial information reviewed by the chief operating decision maker. The Company manages its Oil & Gas Proppants and Industrial & Specialty Products businesses as components of an enterprise for which separate information is available and is evaluated regularly by the chief operating decision maker in deciding how to allocate resources and assess performance. An operating segment's performance is primarily evaluated based on segment contribution margin, which excludes certain corporate costs not associated with the operations of the segment. These corporate costs are separately stated and include costs that are related to functional areas such as operations management, corporate purchasing, accounting, treasury, information technology, legal and human resources. The Company believes that segment contribution margin, as defined above, is an appropriate measure for evaluating the operating performance of its segments. However, this measure should be considered in addition to, not a substitute for, or superior to, income from operations or other measures of financial performance prepared in accordance with generally accepted accounting principles. For a reconciliation of segment contribution margin to its most directly comparable GAAP financial measure, see Note V to our financial statements in our Annual Report on Form 10-K for the fiscal year ended December 31, 2020 (Inline XBRL Viewer (sec.gov)) and Note T to our financial statements in our Quarterly Report on Form 10-Q for the fiscal quarter ended September 30, 2021 (Inline XBRL Viewer (sec.gov)).

Free Cash Flow

Free cash flow represents cash flow from operations less capital expenditure and dividends. Management believes that free cash flow is an important liquidity measure for the company and that it is useful to investors and management as a measure of our ability to generate cash. Once business needs and obligations are met, this cash can be used to reinvest in the company for future growth or to return to shareholders through dividend payments or share repurchases. Free cash flow does not represent the residual cash flow available for discretionary expenditures. Free cash flow is a non-GAAP financial measure that should be considered in addition to, not as substitute for or superior to, cash flow from operations.

NON-GAAP FINANCIAL PERFORMANCE MEASURES

Adjusted EBITDA

Adjusted EBITDA is not a measure of our financial performance or liquidity under GAAP and should not be considered as an alternative to net income as a measure of operating performance, cash flows from operating activities as a measure of liquidity or any other performance measure derived in accordance with GAAP. Additionally, Adjusted EBITDA is not intended to be a measure of free cash flow for management's discretionary use, as it does not consider certain cash requirements such as interest payments, tax payments and debt service requirements. Adjusted EBITDA contains certain other limitations, including the failure to reflect our cash expenditures, cash requirements for working capital needs and cash costs to replace assets being depreciated and amortized, and excludes certain nonrecurring charges that may recur in the future. Management compensates for these limitations by relying primarily on our GAAP results and by using Adjusted EBITDA only as a supplement. Our measure of Adjusted EBITDA is not necessarily comparable to other similarly titled captions of other companies due to potential inconsistencies in the methods of calculation. For a reconciliation of Adjusted EBITDA to its most directly comparable GAAP financial measure, including the trailing twelve month calculation of Adjusted EBITDA, see the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our Quarterly Report on Form 10-Q for the fiscal quarter ended September 30, 2021 (Inline XBRL Viewer (sec.gov)).

Net Debt

Net Debt is calculated by adding together short-term debt and long-term debt and subtracting cash and cash equivalents from the total. Net debt shows how a company's indebtedness has changed over a period as a result of cash flows and other non-cash movements. Net debt allows investors to see how business financing has changed and assess whether an entity that has had a significant increase in cash has, for example, achieved this only by taking on a corresponding increase in debt. Net debt is not a measure of our financial performance or liquidity under GAAP and should not be considered as an alternative to net income as a measure of operating performance, cash flows from operating activities as a measure of liquidity or any other performance measure derived in accordance with GAAP.

($mm)	**1Q '21**	**2Q '21**	**3Q '21**
Cash and cash equivalents	($154.4)	($212.7)	($250.6)
Current portion of long-term debt	$40.2	$38.8	$20.5
Long-term debt	$1,196.6	$1,196.4	$1,195.1
Net debt	$1,082.3	$1,022.6	$965.0