FPA DFW Chapter Meeting

The Case for Alternative Investments & an Energy Sector Overview



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Outsourced CIO

Retirement Plan Services

Private Equity - Bank Funds

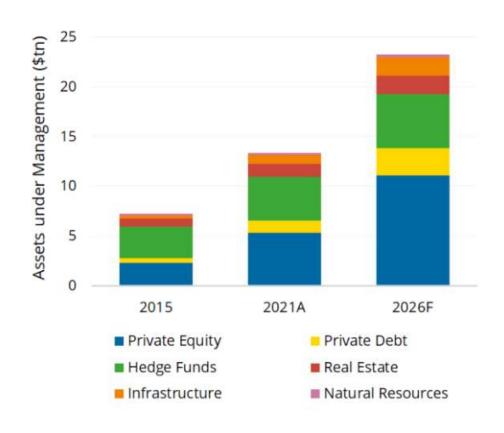


TRENDS IN ALTERNATIVES



Growth In Alternative Investments

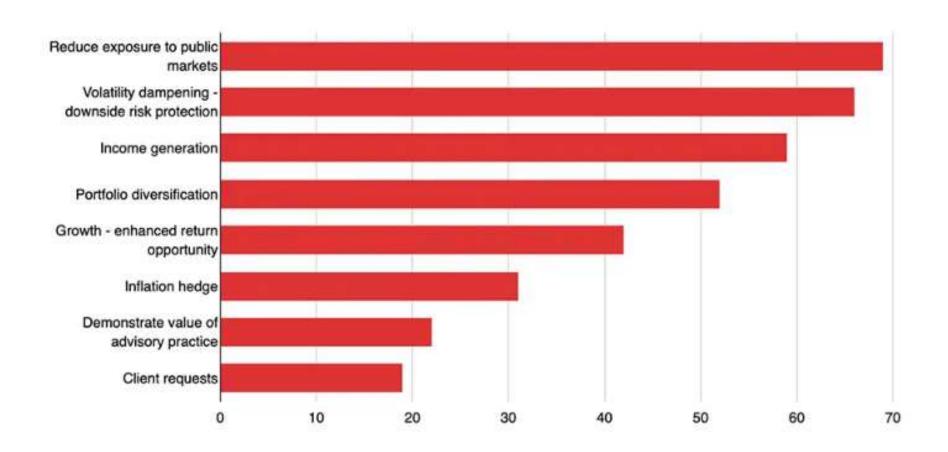
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Source: Cerulli Associates

Advisor Goals For Alternative Investments

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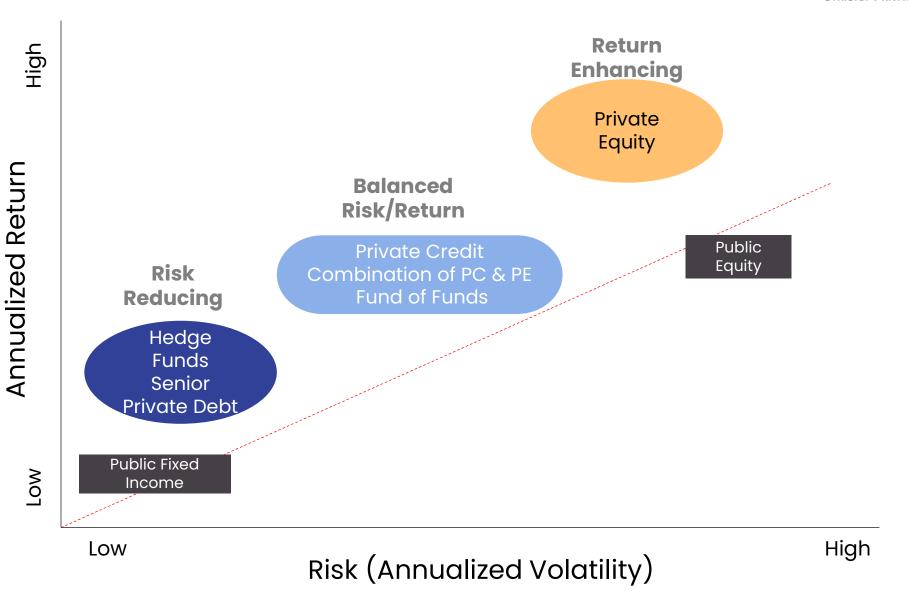
Source: Cerulli Associates

WHY ALTERNATIVE INVESTMENTS



Understanding Role Of Alternative Assets In A Portfolio

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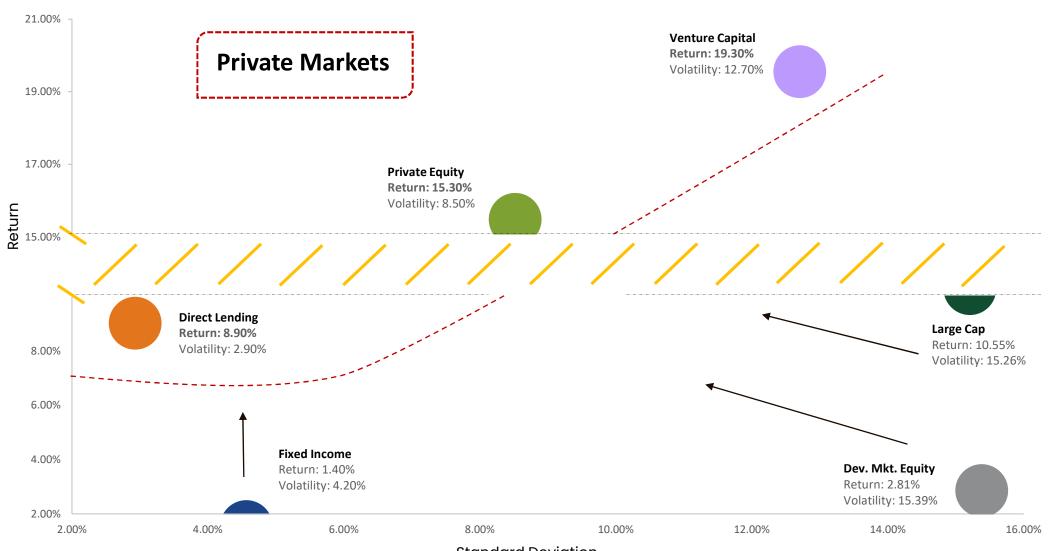


Source: Mercer. Expected returns, volatility and correlations based on Mercer's capital markets assumption 2021. Does not reflect returns on actual investments.

Historically - Enhanced Returns & Reduced Volatility Utilizing Private Market Investments



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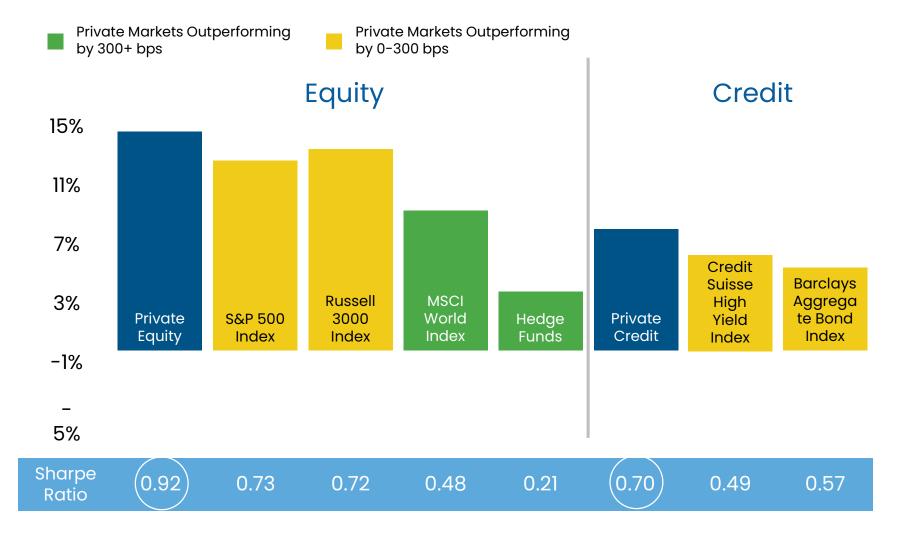


Private Markets Value Add-risk Adjusted Performance

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10-Year Asset Class Risk-Adjusted Performance

Annualized Time-Weighted Return as of 9/30/2020



BENEFITS OF PRIVATE EQUITY



Understanding Role Of Private Equity In A Portfolio

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Alpha Potential

Use of active managers with strong track records



Specialized Manager Competence

Private equity managers seek to bring additional skill, focus, and management competence, enhancing portfolio value



Large and Growing Opportunity Set

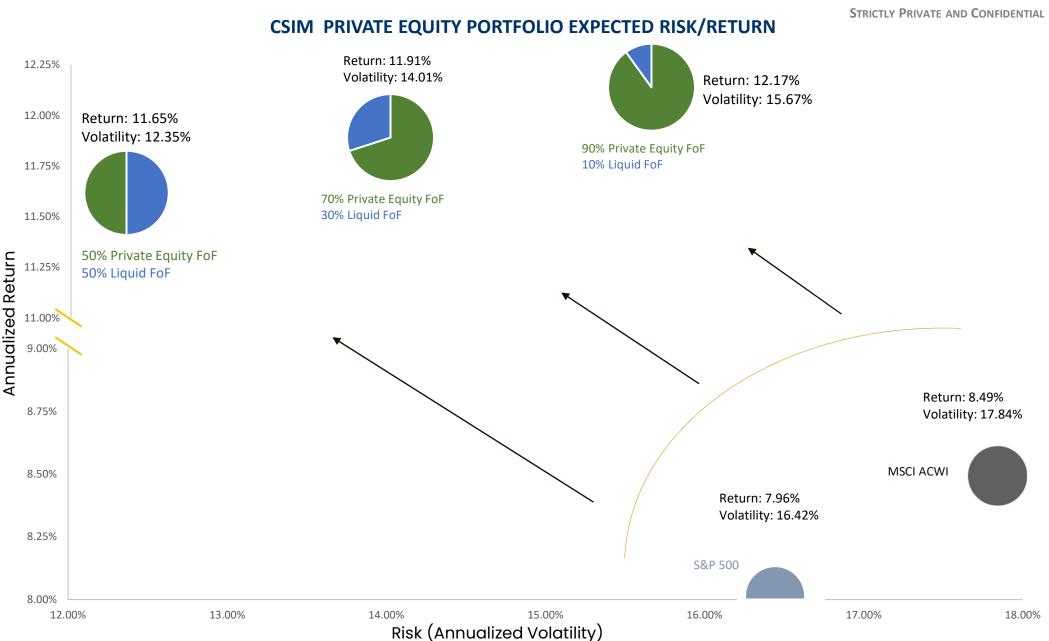
Private equity represents a growing portion of the total market investment opportunity available to investors



Longer Term Investment Horizon

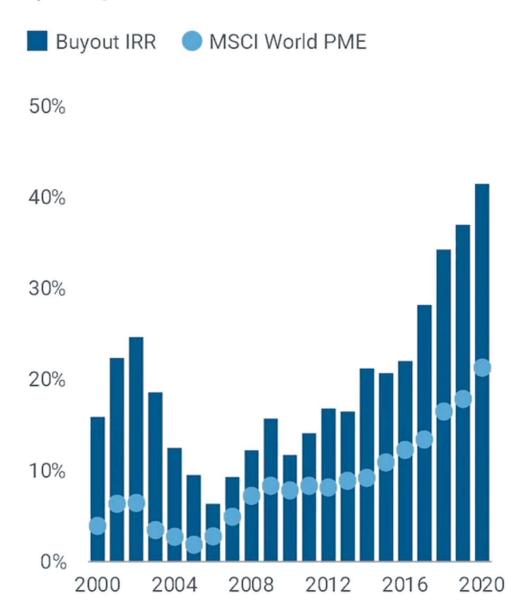
Patient investors can potentially capitalize on the illiquidity premium available to those who provide long-term capital

Private Equity Provides Enhanced Return Potential And Diversification



Private Equity Pooled Returns Outperformed Public Markets - By Vintage Year

By Vintage Year Strictly Private and Confidential



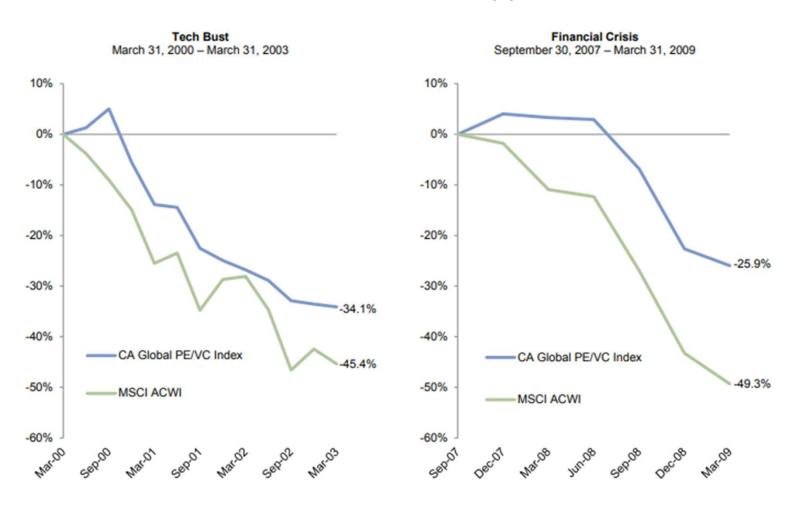
"These are pooled average Buyout returns, not even the top quartile, and yet they have outperformed PME in every single one of the last 20 vintage years by an average of more than 1,000 bps."

-Jackie Rantanen Head of Product Solutions & Co-Head of Impact Investments, Hamilton Lane

Private Equity Has Demonstrated Downside Benefits

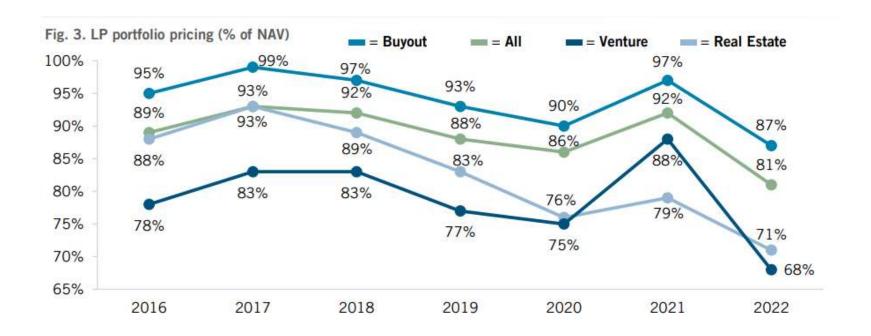
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Cumulative Performance (%)



Opportunity Set

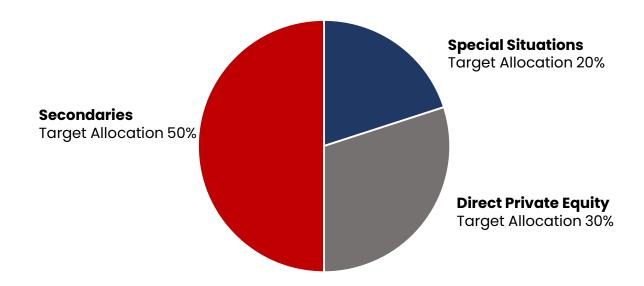
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Portfolio Construction Example

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PRIVATE EQUITY PORTFOLIO



Source: CSIM

BENEFITS OF PRIVATE CREDIT



Understanding Role Of Private Credit In A Portfolio

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Attractive Absolute Returns

Historically strong performance in various economic environments and is largely uncorrelated with traditional asset classes



Specialized Manager Competence

Private credit managers may bring additional skill, focus, and management competence, seeking to achieve consistent return and downside protection



Large and Growing Opportunity Set

Private credit represents a growing portion of the total market investment opportunity available to investors



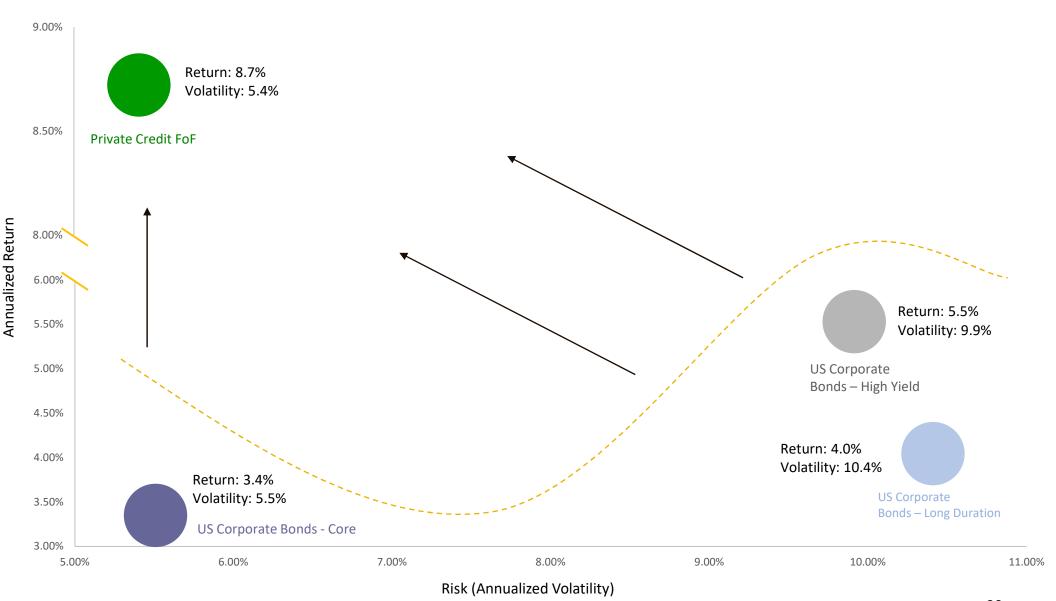
Current Income

Returns predominately based on contractual coupon and revenue

Private Credit Provides Enhanced Return Potential And Diversification

CSIM PRIVATE CREDIT PORTFOLIO EXPECTED RISK/RETURN

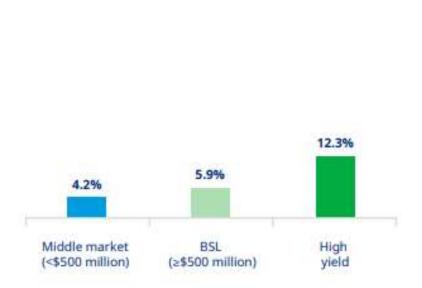
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Private Credit Has Lower Defaults/Higher Recoveries

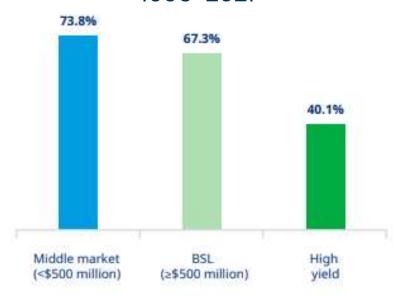
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Source: S&P LCD & CreditPro (1995–2020), as of Q3 2020. The S&P LCD cumulative default rate has a one-year lag since it assumes a loan will not default within one year of origination.

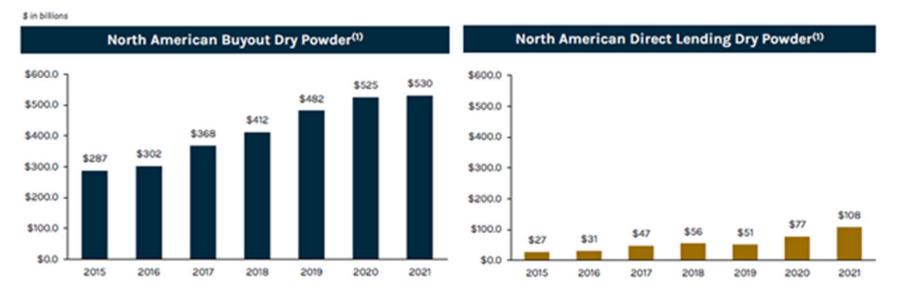
Average Annual Recovery Rate 1995-2021



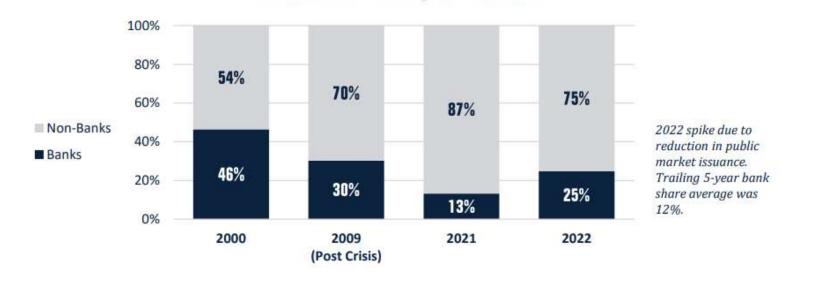
Source: S&P CreditPro (1995–2021). Middle market loans defined as those <\$500 million in size.

Opportunity Set

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Bank Share of Leveraged Loan Market²

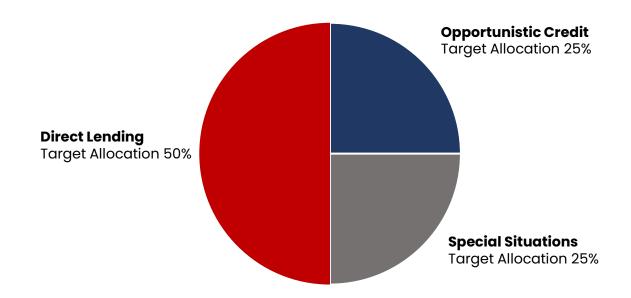


Source: Ares, HPS

Portfolio Construction Example

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PRIVATE CREDIT PORTFOLIO



Source: CSIM

IMPLEMENTATION AND DILIGENCE



Challenges In Alternative Investments

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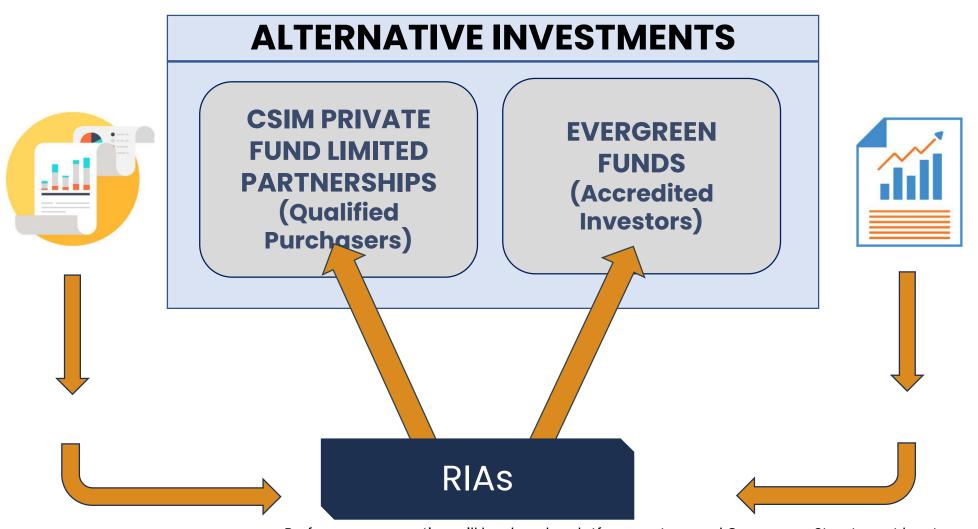
What are the barriers to entry?

- Access
- Expensive
- Complex
- Illiquid
- Lack of education
- Backoffice Integration

Vehicles For Alternative Strategy Implementation

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COMMERCE STREET PRIVATE MARKETS STRUCTURE ALLOCATION DEPENDENT ON CLIENT CIRCUMSTANCES



- Performance reporting will be done by platform partner and Commerce Street on at least a quarterly basis for the individual fund vehicles.
- Fund updates can be linked to your underlying custodian (i.e. Schwab, Fidelity, ORION, etc.)

Why Private Equity Fund Of Funds

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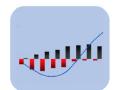
Concentrated, yet Diversified Private Equity Portfolio
Investments diversified across 4 to 8 funds, highly rated by CSIM



Transparent, Sharing of Manager NamesTransparency minimizes blind pool risk



Low Minimum Commitments, Broad Theme Exposure
Low \$250k minimum vs. \$3-5 M for direct; Investments in Themes
where managers have skill and experience



Use of semi-liquid PE and secondaries funds can help accelerate return of cash, minimizing typical down returns in first years of a

fund

Soften the J-Curve

Why Private Credit Fund Of Funds

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Superior Expected Return/Risk Profile vs. Public Fixed Income Higher returns historically, lower volatility, typically higher yield



Diversified Structure –Return Seeking, Risk AwareShorter duration vs. public fixed income, lower loss experience, higher recovery



Low Minimum Commitment, Broad Theme Exposure Low \$250k minimum vs. \$3-5M for direct investment, typical investments higher in capital structure than public securities



Structure provides diversification from public fixed income Enhances return potential for overall fixed income portfolio

Heat Map Analysis - Portfolio Construction

Q4 2020 Heat Map	Return : 30%	Risk 30%	Dislocation / Opportunity	Liquidity 10%	Overall
Weight:			30%		
Asset Class / Strategy					
Opportunistic	2.0	4.0	2.0	6.0	3.0
Private real estate – Debt	3.0	3.0	3.0	5.0	3.2
Structured credit	5.0	3.0	3.0	3.0	3.6
Distressed debt	2.0	5.0	3.0	6.0	3.6
Private equity – secondaries	2.0	5.0	3.0	6.0	3.6
Multi-Strategy Hedge Funds	5.0	3.0	3.0	4.0	3.7
Private debt - MML	4.0	4.0	3.0	5.0	3.8
Private real estate – value-added/opportunistic	3.0	5.0	3.0	6.0	3.9
Infrastructure – value add/opportunistic	2.0	5.0	4.0	6.0	3.9
Liquid alternatives	7.0	1.0	5.0	1.0	4.0
Private Equity - Primaries	2.0	5.0	4.0	7.0	4.0
Short duration bonds	7.0	1.0	6.0	1.0	4.3
Non-U.S. Equity	5.0	5.0	4.0	1.0	4.3
Real estate securities	4.0	6.0	4.0	1.0	4.3
Private real estate - Core	5.0	4.0	4.0	4.0	4.3
Pvt. debt – mezzanine	2.0	6.0	5.0	5.0	4.4
High-yield debt	6.0	4.0	4.0	2.0	4.4
Infrastructure - Core	4.0	4.0	5.0	5.0	4.4
Core bonds	7.0	2.0	6.0	1.0	4.6
Global macro	5.0	5.0	4.0	4.0	4.6
Defensive Equity	6.0	4.0	6.0	1.0	4.9
Extended duration bonds	6.0	5.0	6.0	1.0	5.2
U.S. Equity	6.0	5.0	6.0	1.0	5.2

	Differential			
Q3 Prior	Positive =			
Score	Improvemen			
3.6	0.6			
3.8	0.6			
3.3	-0.3			
3.8	0.2			
4.2	0.6			
4.0	0.8			
4.6	0.8			
4.4	0.5			
4.0	0.1			
4.1	0.1			
4.6	0.6			
4.6	0.3			
4.3	0.0			
4.3	0.0			
4.7	0.4			
4.0	-0.5			
4.2	-0.2			
4.4	0.0			
4.1	-0.5			
4.5	-0.1			
4.5	-0.5			
5.1	-0.1			
5.0	-0.2			

Q4 2020 Ex Liquidity Weight:	Overall
Asset Class / Strategy	
Opportunistic	2.7
Private real estate – Debt	3.0
Distressed debt	3.3
Private equity – secondaries	3.3
Private real estate - value-added/opportunistic	3.3
Multi-Strategy Hedge Funds	4.0
Private debt - MML	3.3
Private Equity - Primaries	3.3
Short duration bonds	4.0
Structured credit	3.7
Liquid alternatives	4.0
Infrastructure – value add/opportunistic	3.7
Infrastructure - Core	4.3
Pvt. debt – mezzanine	4.3
Private real estate - Core	4.3
Real estate securities	4.7
Non-U.S. Equity	4.7
High-yield debt	4.7
Core bonds	4.3
Defensive Equity	5.0
Global macro	4.7
Extended duration bonds	5.7
U.S. Equity	5.7

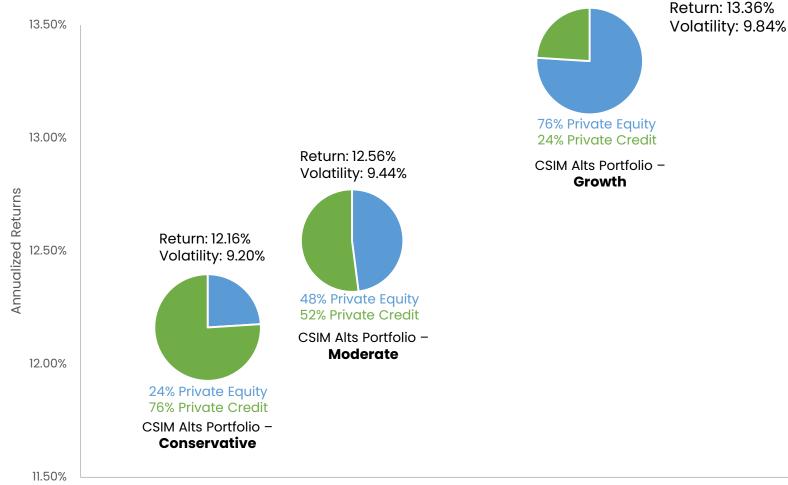
Scales:	F			
1	15%+	<3%	Very High	Daily Liquid
2	12%-15%	3-5%	High and Pervasive	Monthly Liquid
3	10-12%	5%-7%	High but Not Pervasive	Semi-Liquid - Yield
4	8-10%	7-10%	Medium, but Not Pervasive	Semi-Liquid - No yield
5	6-8%	10-15%	Perpetual but Modest	Illiquid - Yield Oriented
				Illiquid - Short Duration/
6	4%-6%	15-20%	Slight; Easily Evaporated	Yield and Long Duration
7	4% or less	20%+	None	Illiquid - Long Duration



Alternative Investment Portfolio Allocation Examples

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 Can construct the alternative asset allocation into different portfolios based on client objectives and preferences, typically determined by the Advisor



9.50%

9.00%

10.00%

Annualized Volatility

Diligence Process Example

- Utilize stringent quantitative and qualitative due diligence on a diverse range of investment strategies
- Multiple risk factors should be taken into consideration when constructing private market portfolios

Due Diligence

Portfolio Management

- Firm Overview
 - Investment Team
 - Investment Philosophy
 - > Investment Process
 - Portfolio Construction
- Terms
- Performance
- Opportunity Set

Back Office

- Discuss valuation and verification techniques
- Review cash management policies
- Examine technological requirements and infrastructure

Risk Management

Investment Risk

- Manager Leverage
- Manager Skill
- Risk Decomposition
- · Tail and Drawdown Risk
- Liquidity Risk

Business Risk

- Reviewing systems in place to mitigate losses attributable to business issues:
- Firm Suitability
- Risk Management
- Infrastructure
- Governance
- Legal Review

Operational Risk

- Assess vendors
- Evaluate valuation process
- Assess operations support and policies/procedures
- · Evaluate back-office systems
- Review of audited financial statements

Ongoing Monitoring

Monthly Updates

 Contact with manager if performance is outside expectations

Quarterly Conference Call

- Qualitative and quantitative information request
- Formal call with investment team
- One-page invest, summary report

Annual Review

- Review qualitative and quantitative data
- Formal review including audited financial statements
- Attend annual meetings



ENERGY SECTOR OVERVIEW AND OPPORTUNITIES



Energy Sector Overview and Opportunities

Conventional Energy - Oil & Gas

Renewable Energy - Wind & Solar

Hydrogen & Fuel Cells

Carbon (CO2) Capture and Storage

Electric Vehicles, Batteries, Charging Infra.

Battery metals and minerals

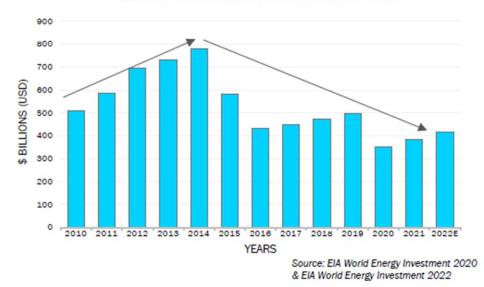


Oil & Gas

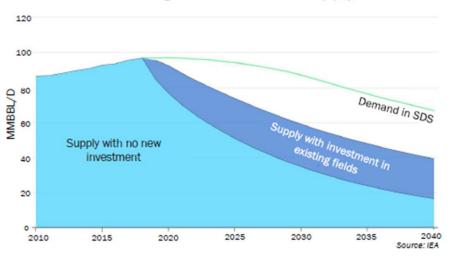
Oil & Gas industry historical backdrop

- World is decapitalizing fossil fuels faster than it can stop using them
- Capital flows severely curtailed, down 50% from the peak in 2014 to 2022
- Drastic drop in capital availability since 2014 driven by poor investor returns, ESG mandates, banking regulatory pressure and long-term demand concern (EV's, renewables eroding demand)

Under Investment in Oil and Gas



Resulting in Insufficient Supply⁴



4SDS: "Sustainable Development Scenario" broadly aligns with the Paris Climate Agreement and assumes a surge in clean energy utilization



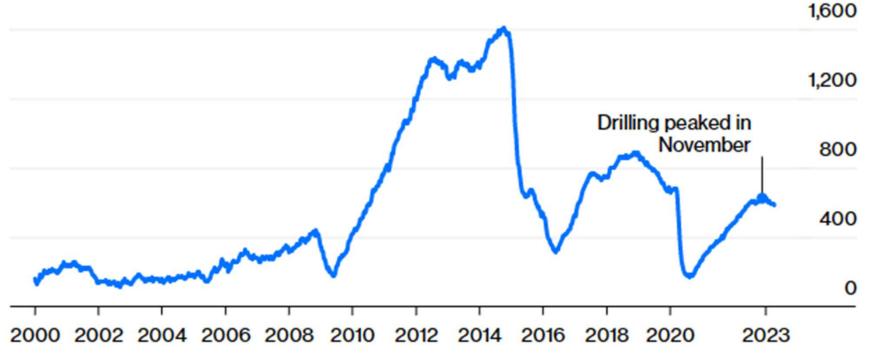
Oil & Gas

Drilling activity has slowed due to capital constraints

Drill, Baby — But a Bit Slower

The US oil industry has seen three large waves of drilling over the last 20 years

Number of oil rigs in operation in the US



Source: Baker Hughes



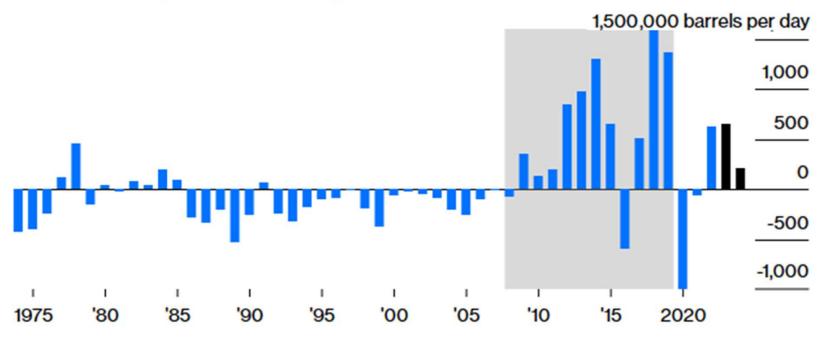
Oil & Gas

Production still increasing, but definitely slowing

The American Oil Boom

The annual increase in US crude output production has slowed down and the federal government anticipates a further moderation in 2023 and 2024

Period of strong US shale crude oil growth



Source: Bloomberg analysis of EIA data

Note: Crude only, excluding natural gas liquids, biofuels and processing gains.



Oil & Gas

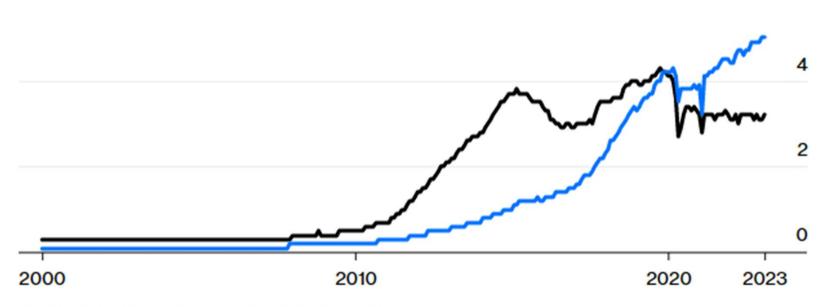
Outside of the Permian Basin, growth has plateaued

Not Everyone Is Growing

While oil output in the Permian shale basin continues to grow, other shale regions in America have already seen their peak production

Permian shale basin
Other US shale basins

6 million barrels per day



Source: Bloomberg Opinion analysis of EIA data

Note: Other US shale basins include Bakken, Eagle Ford, Niobrara-Codell, Mississippian, Austin Chalk, Woodford and other minor areas.

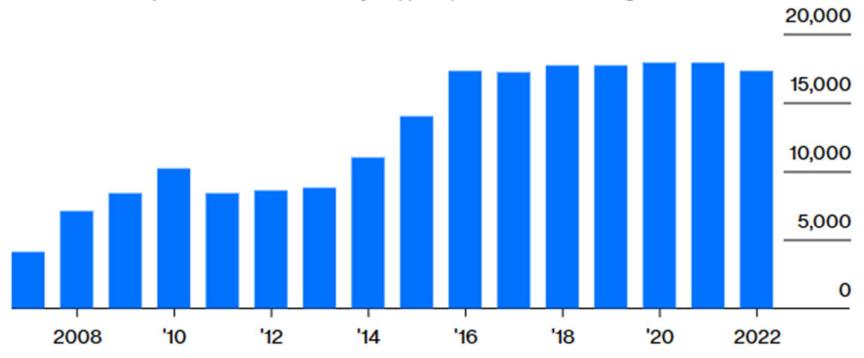


Oil & Gas

Peak Productivity

After years of strong productivity gains, the Permian wells aren't pumping more any more

■ Barrels of oil produced over the first year, per 1,000 feet lateral length



Source: Rystad

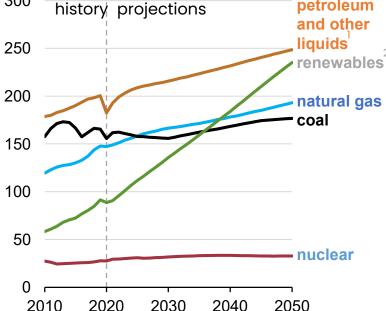


Energy Transition

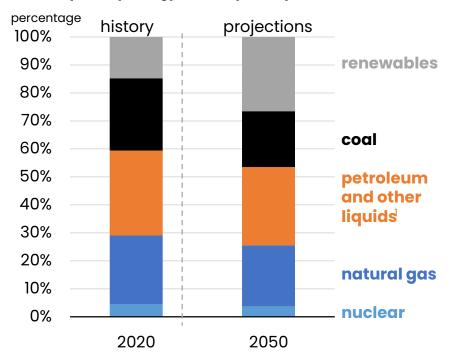
Liquid fuels remain the largest source of primary energy in the Reference case, but renewables use grows to nearly the same level

quadrillion British thermal units 300 history projections petroleum and other

Primary energy consumption by energy source, world



Share of primary energy consumption by source, world



Source: EIA, IEO2021 Release, CSIS October 6, 2021

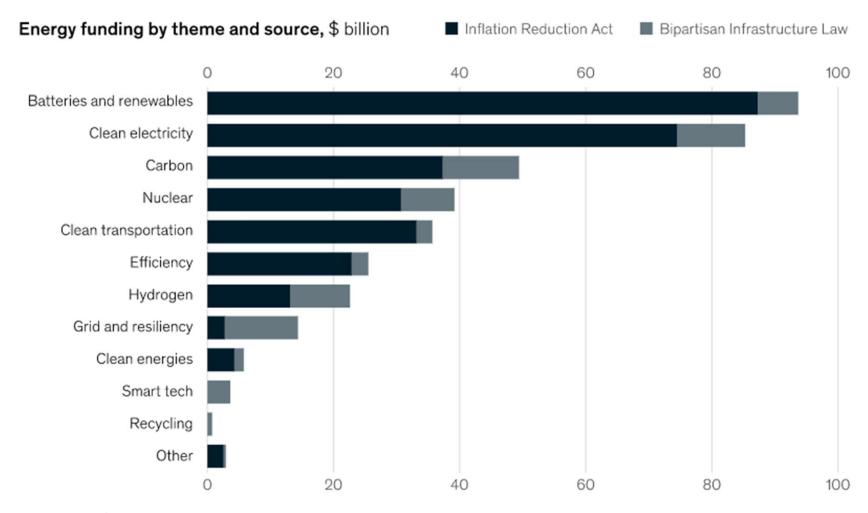


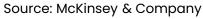
¹ Includes biofuels

² Electricity generation from renewable sources is converted to Btu at a rate of 8,124 Btu/kWh

Energy Transition – Where The Money Is Being Spent

Energy funding from the Bipartisan Infrastructure Law and the Inflation Reduction Act spans major funding themes, totaling \$370 billion.







Solar & Other Tax Credits

Significant federal funding for climate efforts. The IRA directs nearly \$400 billion in federal funding to clean energy, with the goal of substantially lowering the nation's carbon emissions by the end of this decade. The funds will be delivered through a mix of tax incentives, grants, and loan guarantees. Clean electricity and transmission command the biggest slice, followed by clean transportation, including electric vehicle incentives.

Consumer incentives

\$43 billion in IRA tax credits aimed at lowering emissions by making EVs, rooftop solar panels, geothermal heating, and home batteries more affordable.

- Starting in 2023, qualifying EVs will be eligible for a tax credit of up to \$7,500 for new and \$4,000 for used vehicles
- Qualifying home improvements will be eligible for a tax credit of up to 30 percent of the total cost, capped at \$1,200 per year. For heat pumps, the credit is capped at \$2,000 per year.
- \$30 per MWh for new zero carbon electricity generation
- \$3 per kilogram of production of clean hydrogen

Source: McKinsey & Company



Hydrogen & Fuel Cells

Hydrogen has become a buzz word lately, as more early-stage developers emerge, and the government continues to encourage investment, research and development of new technologies and infrastructure to support hydrogen as another alternative fuel and energy source. Currently hydrogen production is relatively expensive compared to conventional energy sources. But the holy grail of hydrogen generation with renewable energy is a promising and potentially reachable goal over the next several years.

- Hydrogen can be produced from diverse domestic resources for use in multiple sectors, or for export.
- Hydrogen has the highest energy content by weight of all known fuels—3X higher than gasoline—and is a critical feedstock for the entire chemicals industry, including liquid fuels.
- Hydrogen and fuel cells can enable zero or near zero emissions in transportation, stationary or remote power, and portable power applications.
- Hydrogen can be used as a "responsive load" on the grid to enable grid stability and gigawatt-hour energy storage, and increase utilization of power generators, including nuclear, coal, natural gas, and renewables.
- Hydrogen can enable innovations in domestic industries, such as transportation (e.g., in vehicles, aviation, and marine applications) and iron making.



CO2 - Capture & Storage

Before the IRA, the 45Q tax credit allocated \$50/tonne of CO_2 captured and stored, which significantly undervalued the costs of capture, transport, and storage for the industrial sector. By increasing the 45Q tax credit to \$85/tonne, the IRA has created a new market for these industries: one where they can differentiate their products based on how little CO_2 is released during the production process. Furthermore, by significantly increasing the credit value for direct air capture (DAC), the IRA has also given these industries the opportunity to differentiate their products based on the removal of historical or legacy emissions for which they are responsible.

What are the 45Q enhancements in the Inflation Reduction Act?

The major changes to 45Q are:

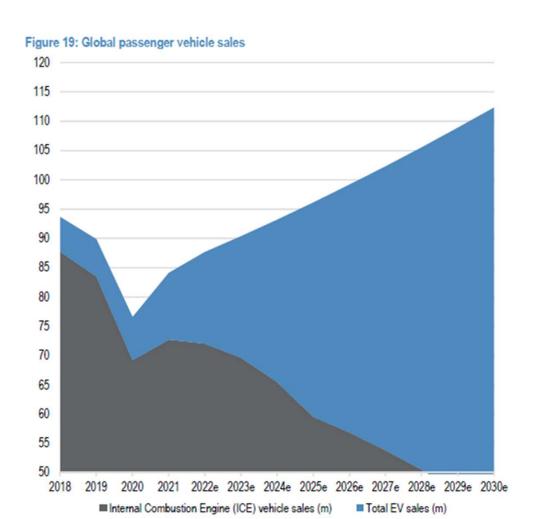
- •Raising the credit values to \$85 and \$180 for both point source and direct air capture respectively
- Providing a direct pay and transferability option for developers who claim the credit
- •Extending the commence construction window for projects to 2033
- Broadening the definition of qualified facilities by reducing capture thresholds

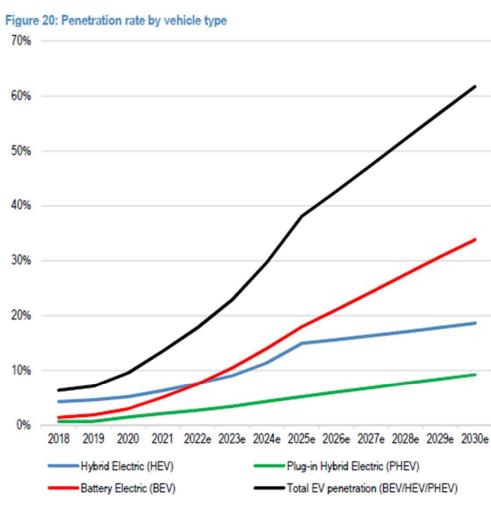


Electric Vehicles

Demand – global vehicle sales & EV penetration

Source: Company data, J.P. Morgan estimates.





Source: Company data, J.P. Morgan estimates.

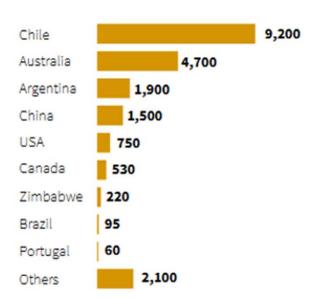
Lithium Market

Lithium is just one of several key metals/minerals required for batteries.

Massive investment will be needed to increase production of these materials in order to meet future demand.

LITHIUM MINE RESERVES

According to the USGS, the ore reserves by country in millions of metric tons



Source: Bloomberg, Wall Street Journal

LITHIUM DEPOSITS

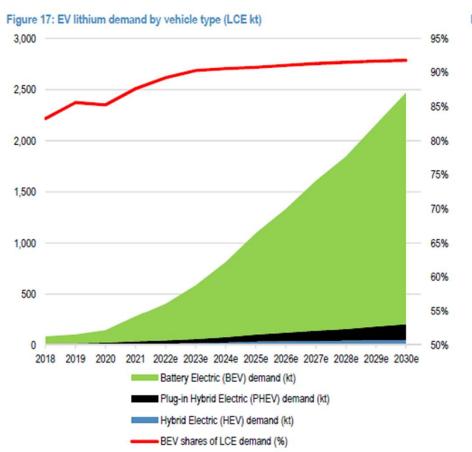
According to the British Geological Survey, there are 21 locations extracting lithium around the world, shown below are the deposits and mines as of June 2021.

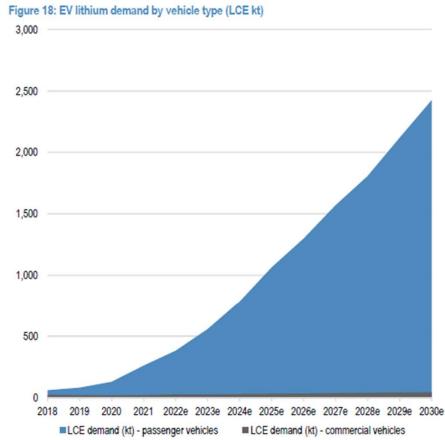


45

Electric Vehicles

Demand – global lithium consumption





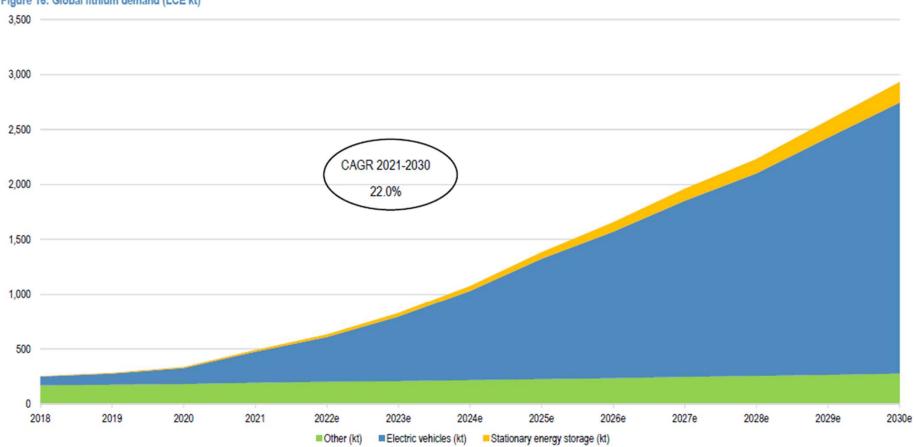
Source: Company data, J.P. Morgan estimates.

Source: Company data, J.P. Morgan estimates.

Batteries Materials

Demand – global lithium consumption

Figure 16: Global lithium demand (LCE kt)



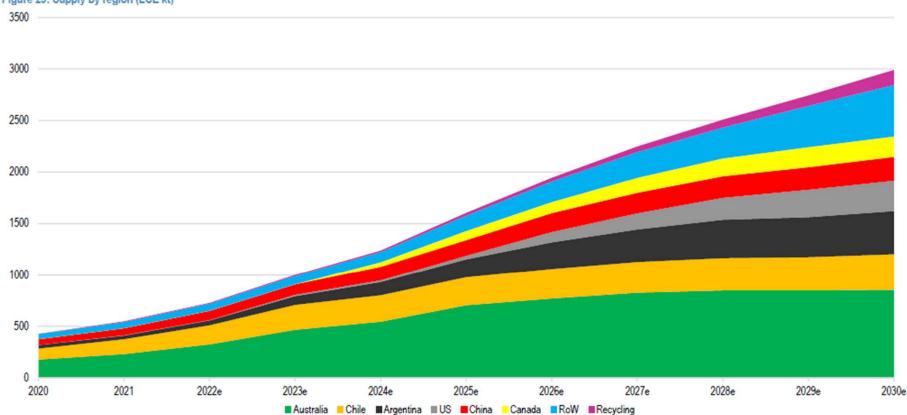
Source: Company data, Benchmark Minerals, J.P. Morgan estimates.



Battery Materials

Supply - primary supply by region



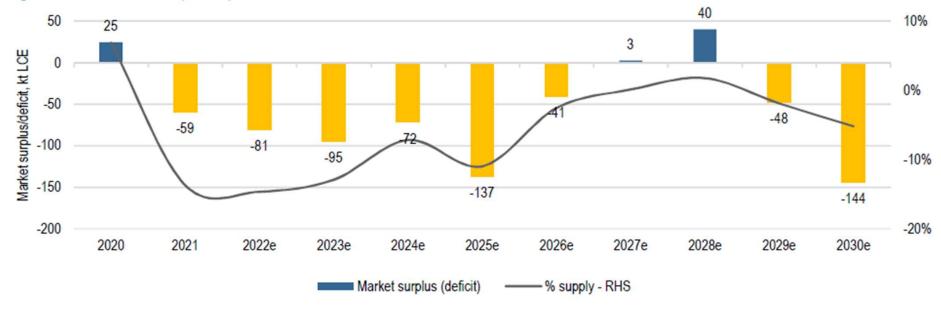


Source: Benchmark Minerals, J.P. Morgan estimates.



Lithium Market Outlook

Figure 12: Market balance (LCE kt)



Source: Company data, J.P. Morgan estimates.

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