

INTENTIONALITY | RESEARCH | INNOVATION | LONG-TERMISM

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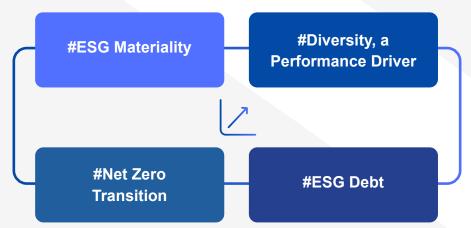
Topic Thought Leadership

2021 came and went as fast as 2020.

The spotlight was on the accelerating climate crisis and the societal issues amplified by the global health crisis, including racial injustice and health inequity. In addition, to those crises, the world is also facing an unprecedented supply chain disruption that is being felt at all levels.

Environmental, Social, and Governance (ESG) investing gathered even more momentum in 2021, driven by regulation, market demand, and investor

mandates. Pressure is also being applied on firms and organizations by their various stakeholders, including employees, clients, suppliers, and communities which they operate within. As a result, companies have been expanding their sustainability efforts from the goal-setting mode and literal policies to actual practices including education at the board and senior leadership levels and willingness to link executive compensation with ESG performance.



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We reiterate our firm belief that sustainability adds value to companies' profitability in the long run. In fact, shareholder primacy must no longer be opposed to stakeholder capitalism. Indeed, shareholder primacy, as defined by the Milton Friedman school of economic thought, is a shareholder-centric form of corporate governance that focuses on maximizing shareholder value, while stakeholder capitalism is a system in which

corporations are oriented to serve the interests of all their stakeholders. We believe that within a long-termism framework, stakeholder capitalism serves well shareholder primacy; shareholder primacy needs stakeholder capitalism.

Absent of that realization, value created at the expense of the non-investor stakeholders may only be short-lived.

Looking at the financial markets, there was no dull moment in a year marked by the emergence of meme stocks¹, a record number of IPOs, the SPACs² roller-coaster, heightened volatility, increased investor activism, and two known dominant variants of the Covid-19 virus sweeping the globe. In 2021, U.S. and developed market equities kept roaring, nearly

doubling their 2020 performance amid an intensive vaccine campaign and a globally renewed optimism for a full reopening of the economies.

Real estate, crude oil, and commodities had a comeback year after a depressed 2020, contrasting with precious metals and U.S. fixed income which vastly underperformed.

Asset Class	2021 Returns (%)
Crude Oil	57.07%
U.S. Real Estate	41.20%
Commodities	37.05%
U.S. Stocks	28.71%
U.S. Small Stocks	14.78%
Europe, Australia and Far East Stocks	11.86%
U.S. Dollar Index	6.37%
U.S. Corporate	-1.04%
U.S. Treasuries	-1.11%
Emerging Markets Stocks	-2.47%
Gold	-3.64%
Silver	-11.72%

Source: Bloomberg³.

The asset management industry saw large inflows, continuing a trend started in the second half of 2020, with a \$1.1 trillion⁴ net inflows for US mutual funds and exchange-traded-funds (ETFs). Once again, ETFs gained market share on traditional mutual funds.

1 A meme stock is a stock that gains popularity among retail investors through social media. The popularity of meme stocks is generally based on internet memes shared among traders, on platforms such as Reddit's r/wallstreetbets. Investors in such stocks are often young and inexperienced investors. GameStop and AMC were popular memes stocks in 2021

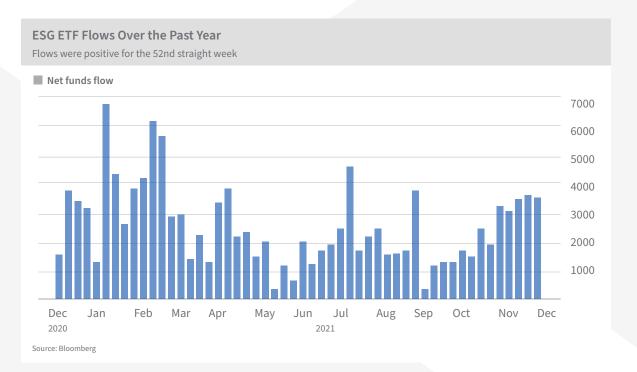
2 A Special Purpose Acquisition Company (SPAC) is a shell corporation listed on a stock exchange with the purpose of acquiring a private company, thus making it public without going through the traditional initial public offering process.

3 Data as of December 31, 2021. Past performance is not indicative of future results. The source for each asset class is set forth in descending order: WTI U.S. Oil, Dow Jones Real Estate Index, S&P GSCI, S&P 500, Russell 2000, MSCI EAFE, DXY, Bloomberg US Corporate Bonds Index, iShares US Treasury Bond ETF, MSCI EM, XAUUSD, XAGUSD. See more information in Appendix.

4 Source: Morningstar, as of November 2021.

Investment products considering ESG in some capacity kept growing with an estimated \$120 billion⁵ of net inflows for US ESG-focused ETFs, in line with the \$135 billion⁶ net inflows seen in 2020. The pandemic, the resilience of those investments throughout the health crisis, and the climate-driven government policies and investments helped to

accelerate the trend. ESG became mainstream and is moving from a "nice-to-have" feature to a "must-have" attribute. It is estimated today that 1 out of every 3 dollars is invested in ESG. We expect this upward trend to persist in 2022 and in the years to come.



Our four ESG trends to watch in 2021 were the renewed focus on the climate risk, human capital (No S without G in the land of ESG), the advent of materiality, and the immense opportunity presented by the ESG debt. Not only did we see those topics become a priority for investors, but we also have the conviction that more clarity, specification, and investment tools are in store for 2022. Here are the four trends to watch in 2022.

5 Source: Bloomberg, as of November 2021.

6 Source: Bloomberg, as of November 2021.

1. The Net Zero transition - Practices over pledges.

Net Zero, generally referring to net zero carbon emissions, was potentially one of the most uttered, written, and researched two-words in 2021 in the ESG realm. Climate change was finally recognized by most as a clear and present danger for our planet and its people, mainly because of its physical manifestations, including extreme temperatures, sea-level rise, and increasingly frequent, intense natural disasters. The ensuing rational question is how to slow down and reverse the global warming causing it.

The scientific community commonly agrees that carbon emissions are a big source of global warming, and as a result, governments and firms around the world understand that reducing carbon emissions will help limit temperature rises to 1.5 °C /2 °C above pre-industrial levels. We witnessed an avalanche of pledges from governments, states, and firms promising to reduce their net carbon emission to zero by 2035 for the fastest and by 2050 for the majority. According to the latest McKinsey Net Zero Transition Report⁷, more than 70 countries accounting for more than 80 percent of global CO₂ emissions and about 90 percent of global GDP have committed to net-zero, as have more than 5,000 companies. The November 2021 COP26 Climate

Summit in Glasgow has disappointingly proved a coordinated and cohesive resolution to be difficult; meaning businesses and investors will need to drive the agenda as they grasp the reality and the urgency of the transition.

The path to a low carbon economy is one that presents risks and opportunities. Various levers and tools are currently being utilized, including legislation and policies enacted, notably in Europe, to compel companies to move toward a low carbon economy. Notably, calls for the creation of more stringent clean energy standards, the carbon tax, and the cap-and-trade approach. The carbon tax is a policy that attempts to quantify the cost of carbon emissions with a fee imposed on the burning of carbon-based fuels (coal, oil, gas). Cap-and-trade is the system for controlling carbon emissions and other forms of atmospheric pollution through government established limits on the amount of pollution a given business or other organization may produce. However, this system allows firms to trade in unused emissions. The most known cap-andtrade system is the Emission Trading Scheme (ETS), where emitters of greenhouse gases (GHG) can trade emission units to meet their emission targets.

Carbon Markets Four Different Policy Approaches Aviation Carbon Exchange (ACE) Tradable Cap-and-Trade **NASDAQ European Commodities** Performance (C&T) **European Energy Exchange (EEX)** Standards (TPS Western Climate Initiative (WCI, US/Canada) The Regional Greenhouse Gas Initiative (RGGI, US) Negative Technology-Neutral Emissions **Carbon Taxes** Clean Energy Technologies (NETs) Standards (TCES) BECCS(1) AFOLU⁽²⁾ 1 Bioenergy with Carbon Capture and Storage. 2 Afforestation and land use; Agriculture, Forestry and Other Land Use Air Capture © 2022 V-Square Quantitative Management LLC.

7 McKinsey & Company Report - Report - The net-zero transition. What it would cost, what it could bring.

From an investment perspective, granting that a combination of incentive-based policies, market mechanisms, and technology innovations are the minimum interventions required to attempt to mitigate the global average temperature rise, the major risks faced by client portfolios are companies not adapting quickly to the transition and being left with obsolete operations, stranded assets, and increased liabilities. This will directly affect their balance sheets by reducing shareholders' equity, as Shareholders' Equity = Assets – Liabilities, per the Balance Sheet Equation.

A soaring carbon price on proliferating carbon markets, high-tech innovation such as carbon

removal and sequestration, climate-friendly legislative bills, and sizable spending by governments in low-emission infrastructures around the world, all provide massive opportunities for companies that will need to adapt, innovate, and provide transition-related services and products which will inevitably be in high demand. Therefore, in 2022 we expect more investment products to focus on the transition to net zero, more probingly looking at the actual practices and the opportunity trajectory rather than merely settling for pledges and policies. Furthermore, it helps that data availability is everincreasing as well as coverage of key metrics such as Scope 1, 2, and 3 emissions⁸.

2. Leadership diversity – Unlock the value as a corporate performance driver.

In our 2021 letter, we stressed the fact that there could not be an **S** without a **G**. Of the three letters E, S, and G, the S for Social is now being acknowledged as a critical piece of the sustainability effort. The S is directly linked to human capital, which we believe is the most important input of any organization. Too often have we counted on an organizations' goodwill to address social issues; now steps are being taken by governing and regulatory bodies to create incentives, and de facto make the S a part of good corporate governance. The two years (and counting) of the Covid-19 pandemic shined a bright light on social inequalities and exposed the cost of ignoring them or of not treating the workforce well.

This past summer, the Security and Exchange Commission (SEC) approved the Nasdaq Board Diversity Rules requiring Nasdaq-listed companies to disclose board composition demographics and for most to have a minimum of two self-identified diverse directors by 2023. Other organizations, governmental or non-governmental entities such as the UK Financial Conduct Authority (FCA) and the Singapore Exchange are following with similar proposed requirements.

8 Greenhouse gas emissions are classified into three groups or 'Scopes' by the most widely used international accounting tool, the Greenhouse Gas (GHG) Protocol. Scope 1 covers direct emissions from the generation of purchased electricity, steam, heating, and cooling consumed by the reporting company. Scope 3 includes all other indirect emissions that occur in a company's value chain, i.e., everything beyond its direct operations and electricity use, including supply-chain operations and end-product usage by customers.

Sustainable Investing Reimagined.

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Total Women

% Change from 2015-2020

% Point Change from 2015-2020

Representation of Corporate Pipeline by Gender and Race

Women

21%

+22%

+3.7pp

Men

% of employees by level at the start of 2020

	Entry Level	Manager	SR. Manager/ Director	VP	SVP	C-Suite
White Men	35%	44%	51%	57%	59%	66%
	33 /6	11 /0	3170	31 /0	33 /6	0076
Men of Color	18%	18%	15%	13%	13%	12%
	18%	18%	15%	13%	13%	12%
White Women	29%	26%	25%	24%	23%	19%
Women of Color	18%	12%	9%	6%	5%	3%
women or coto	1070	1270	0 70	070	0 70	0 70

29%

+4%

+1.2pp

33%

+5%

+1.5pp

38%

+3%

+1.2pp

Source: Women in the Workplace 2020, Lean In and McKinsey, 2020.

49%

+5%

+2.1pp

We firmly believe that true diversity, equity, and inclusion (DE&I) within organizations is vital for a healthy culture and subsequently to attract, retain, and develop talents. While firms did implement recruitment policies accounting for diversity and we see a reasonably good representation at entry-level roles, the proportions of women and minorities inexorably dwindle away as they move upward the corporate ladder.

Academic research finds that an effective way to implement DE&I is to start at the top, at the leadership level. Scholars call this the *trickle-down* effect as "it takes effort to put together a high-functioning, diverse team. This effort is rewarded with the ability to attract and retain top talent, improved business strategy and more. Emerging leaders and top performers want to see themselves reflected at the top. End users are best served by having their point of view represented by someone at the table" ⁹.

Implementing diversity is hard work and must be done well to reap the benefits. We published a paper last year on the topic that drew a parallel with diversification in portfolio management and in corporate strategy. Companies diversify their outputs to gain a strategic edge, why not the inputs? Human capital is a key capital and input, so why overlook the value of diversifying it? Scores of studies demonstrate the value of diversity, and we must remember that beyond the bottom line, it creates value by expanding the talent pool and enriching its perspectives.

28%

+18%

+4.1pp

Lastly, considering that a lack of diversity and inclusion can also drive poor decision-making, investors are realizing that diversity is not priced because it is not given any value. We expect investors to gain the ability to unlock the diversity value through products which select and invest in companies that are proficiently leading on that front.

9 Source : Forbes Council Coaches, 14 Important Benefits Of A More Diverse Leadership Team.

3. ESG materiality – Bridge the reporting/investing gap.

As ESG demand grows, so does the data offering, evidenced by the explosion of data. We count more than 140 different ESG data providers, compounded with the fact that each of them offers dozens of ratings, scores, hundreds of metrics, with some utilizing big data and artificial intelligence (AI) technologies. For instance, Goldman Sachs counts 18 million cumulative ESG datapoints available for 558 metrics for their latest company coverage in their GS Sustain report. Moreover, the larger consulting firms and accounting Big Four firms all added a sustainability-focused proposition to their services. Traditional credit rating agencies also joined the chorus with various ESG data and ratings service offerings.

Unfortunately, most ESG data still relates to vague policies and, short of more standardization, the ESG confusion will only keep growing. In addition to the well-documented flaws of calculated scores including reliability, coverage, comparability, lack of transparency, methodology biases, investors must beware of *greenwashing* and *greenwishing*. Likely more dangerous than *greenwashing*, *greenwishing* is the overblown optimism that one's sustainability efforts are more impactful, intentional, and closer to achieving the necessary change than they really are. *Greenwishing* is mostly guided by honest intentions, though it gives a false sense of achievement.

ESG Ratings Comparison: Correlations

	MCSI	S&P	Sustainalytics	CDP	ISS	Bloomberg
MCSI		35.7%	35.1%	16.3%	33.0%	37.4%
S&P	35.7%		64.5%	35.0%	13.9%	74.4%
Sustainalytics	35.1%	64.5%		29.3%	21.7%	58.4%
CDP	16.3%	35.0%	29.3%		7.0%	44.1%
ISS	33.0%	13.9%	21.7%	7.0%		21.3%
Bloomberg	37.4%	74.4%	58.4%	44.1%	21.3%	

Courtesy of BDO USA, LLP

Source: CFA Institute $\,$ - ESG Ratings : Navigating Through the Haze, August 2021

Pressure is mounting for fund managers to prove their truthfulness to investors about their ESG-labeled products. For illustration, the SEC and BaFin, the German regulator, initiated a probe this past summer into allegations of ESG misstatements by the Deutsche Bank AG's DWS Group's assetmanagement arm. In Europe, the EU taxonomy sets a general framework for a unified EU classification system, while the Sustainable Finance Disclosure Regulation (SFDR) requires that fund managers

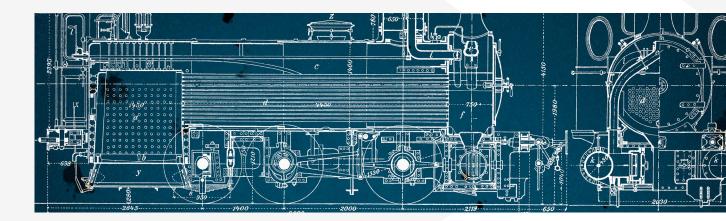
evaluate and disclose their financial products' ESG features between two groupings: Article 8 "light green" funds defined as those that actively promote environmental or social characteristics, and Article 9 "dark green" funds that have sustainable investment as their main objective.

A good way to avoid many of the objections to the various ratings is to not solely rely on them. One must instead go one or two layers deeper and focus on the raw data behind the scores. In last year's V-Square ESG Trends to Watch, we predicted that materiality would prevail. Since it is not possible to incorporate all ESG metrics in portfolios, we must at minimum identify and incorporate the metrics that research finds to have an impact on valuations and financial risk and as a result, may provide a financial benefit for portfolios. Concurrently, investors are ever more calling for reliable, transparent, and comparable reporting by companies on climate and other ESG matters.

As expected by most, 2021 was a turning point in ESG data harmonization, driven by regulation and consolidation of reporting standards. The Sustainability Accounting Standards Board (SASB10) completed their merger with the International Integrated Reporting Council (IIRC) in June 2021 to become a unified organization, the Value Reporting Foundation, which simplifies the corporate reporting landscape and system. The market vision remains to move toward a more standardized, consistent, and comprehensive corporate reporting system as they keep working with other ESG standard-setters

like CDP (formerly the Carbon Disclosure Project), CDSB (Climate Disclosure Standard Board), and GRI (Global Reporting Initiative). In a similar move, this past November, the IFRS Foundation announced the creation of its new International Sustainability Standards Board (ISSB) that will develop a comprehensive global baseline of high-quality sustainability disclosure standards to meet investors' informational needs.

Asset owners are increasingly adopting the materiality map of SASB as a framework for reporting, primarily because SASB has developed a suite of industry-specific standards focused on ESG issues that have a financial impact. The idea stems from the simple realization that every sub-industry has its own set of ESG issues that matters. Asset owners' main challenge is then to reconcile the more commonly used investment GICS® sectors11 with the SASB industry nomenclature. None of the broad investment solutions currently available are intentionally constructed with an alignment with the SASB framework. Investment products bridging the SASB/GICS gap should be in high demand by investors who are already committed users of the SASB materiality framework.



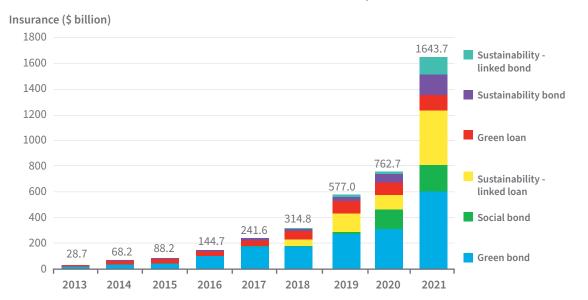
- 10 SASB was founded as a non-profit organization with the mission of establishing industry-specific disclosure standards across ESG topics to facilitate communication between companies and investors about financially material, decision-useful information.
- 11 The Global Industry Classification Standard (GICS®) In 1999, MSCI and S&P Dow Jones Indices developed the Global Industry Classification Standard (GICS), seeking to offer an efficient investment tool to capture the breadth, depth, and evolution of industry sectors. GICS is a four-tiered, hierarchical industry classification system: 11 sectors, 24 industry groups, 69 industries, and 158 sub-industries. Companies are classified quantitatively and qualitatively. Each company is assigned a single GICS classification at the Sub-Industry level according to its principal business activity.

4. ESG Debt - The opportunity goes beyond the touted \$11 trillion.

Last year we said that "ESG debt is well on its way for a third trillion in 2021, and it is poised to balloon to \$11 trillion by 2025". The actual numbers are stunningly higher as sustainable debt surpassed the \$4 trillion mark of total issuance for environmental, social and governance purposes, according to

BloombergNEF (BNEF) in 2021. For perspective, it took 12 years to accumulate the first trillion of dollars in 2018, two years to reach the second trillion, and then 14 months to add another \$2 trillion, with \$1.6 trillion accumulated in 2021 alone.

Annual sustainable debt issuance, 2013-2021



Source: BloombergNEF, Bloomberg L.P.

The growth of ESG debt issuance is propelled by the pledges to transition to a low carbon economy and by the need to tackle the social issues magnified by the global Covid-19 pandemic. The surge in issuances has primarily been driven by green bonds, defined as fixed-income securities in which the proceeds will be exclusively and formally applied to projects or activities that promote climate or other environmental sustainability purposes through their use of proceeds. Green bonds represented 45 percent of the \$4 trillion of sustainable debt issued through 2021¹². Moreover, demand for social and sustainability bonds are also remarkably catching up with green bonds given an unanticipated, rapid development; they represented approximately a quarter of the sustainability debt issued in 2021.

Social and sustainability bonds aim to finance social and community-based projects in full or combined with green objectives, often targeting vulnerable populations.

The sustainable debt universe also includes green loans, sustainability-linked bonds, and sustainability-linked loans that follow the use-of-proceeds requirements or guidelines set by the International Capital Market Association (ICMA) and the Loan Market Association (LMA). As the challenges of labeling inconsistencies and *greenwashing* are also present for fixed-income securities, regulators and governing bodies around the world are diligently looking to ease investors' concerns by working to define a framework of disclosures, monitoring, and auditing of the sustainability-related statements.

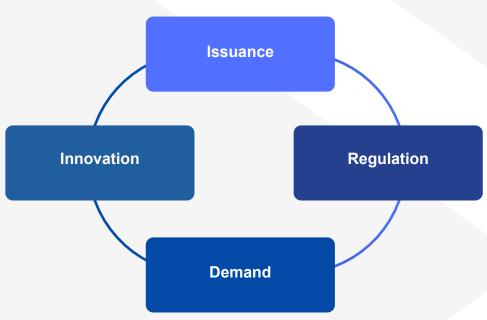
12 Source: BloombergNEF

Though growing investor demand is driving the ESG debt market expansion, ESG debt currently represents a tiny fraction of the larger debt market. Debt markets are not immune to the increasing demand for ESG products; issuers are quickly realizing that aligning their offering with investor demand unlocks access to new pools of financing and favorable pricing.

We see no slowing down of the explosion of ESG debt in 2022. We even expect a growing involvement of corporates in a field historically dominated by sovereigns, government agencies and supranationals. Reflecting on the developments of the past 12 months, we added a fourth brick, Regulation, to the Demand-Innovation-Issuance virtuous circle we introduced last year.

We understand that the circle can only remain virtuous if, while demand does fuel innovation and issuance growth, regulation e.g., legislative mandates and rules, matches pace to continuously seek to certify the integrity of the products.

As we look forward through 2022, we are thrilled to see the industry recognize the opportunities ahead and take on the many complex challenges that come. As investors and stewards of our clients' capital, we strongly believe that the trends outlined above will improve our ability and skillfulness to incorporate ESG factors into client portfolios.



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Appendix - Asset class description

XAGUSD Silver Spot price quoted as US Dollars per Troy Ounce.

XAUUSD Gold Spot price is quoted as US Dollars per Troy Ounce.

Russell 2000 The Russell 2000 Index is comprised of the smallest 2000 companies in the Russell 3000

Index, representing approximately 8% of the Russell 3000 total market capitalization.

S&P 500 The S&P 500° is widely regarded as the best single gauge of large-cap U.S. equities and

serves as the foundation for a wide range of investment products. The index includes 500 leading companies and captures approximately 80% coverage of available market

capitalization.

MSCI EM The MSCI EM (Emerging Markets) Index is a free-float weighted equity index that

captures large and mid-cap representation across Emerging Markets (EM) countries. The index covers approximately 85% of the free float-adjusted market capitalization

in each country.

Bloomberg Corporate Bonds

Index

The Bloomberg US Corporate Bond Index measures the investment grade, fixed-rate, taxable corporate bond market. It includes USD denominated securities publicly issued by

US and non-US industrial, utility, and financial issuers.

MSCI EAFE The MSCI EAFE Index is a free-float weighted equity index. The index was developed with

a base value of 100 as of December 31, 1969. The MSCI EAFE region covers DM countries in

Europe, Australasia, Israel, and the Far East.

iShares US Treasury Bond ETF iShares US Treasury Bond is an exchange-traded fund incorporated in the USA. The ETF

seeks investment results that correspond generally to the price and yield performance,

before fees and expenses, of the ICE U.S. Treasury Core Bond Index.

S&P GSCI The S&P GSCI® is widely recognized as a leading measure of general price movements

and inflation in the world economy. It provides investors with a reliable and publicly

available benchmark for investment performance in the commodity markets.

DXY The U.S. Dollar Index (USDX) indicates the general int'l value of the USD. The USDX does

this by averaging the exchange rates between the USD and major world currencies.

Dow Jones Real Estate Index Dow Jones EQUITY REIT Total Return Index. This index is comprised of REITs that directly

own all or part of the properties in their portfolios. Dividend payouts have been added to

the price changes. The index is quoted in USD.

WTI U.S. Oil Bloomberg's spot crude oil price indications use benchmark WTI crude at Cushing,

Oklahoma; and other U.S. crude oil grades trade on a price spread differential to WTI,

Cushing.

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We would be pleased to discuss our solutions, products, and capabilities with you. Contact us to learn more about V-Square MAP, and more specifically, about how to set up an investment portfolio aligned with desired investment objectives.

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