

Dear Friends and Investors,

The core portfolio for Massif Capital was up 15.8% net of fees during the fourth quarter of 2020. During the fiscal year-end 2020, the portfolio returned 50.1% net of fees.

PORTFOLIO ATTRIBUTION¹

The fourth quarter was the strongest quarter of the year and the strongest quarter since the firm's inception. Our long book contributed 18%, while the short book fell 1.5%. Our materials exposure and its heavy concentration in mining businesses continues to lead the advance.

Vestas Wind Systems was our largest stand-alone contributor, yielding a 3.4% gain for the portfolio. Our two copper positions, Ivanhoe Mining and Turquoise Hill, produced a combined 5% gain for the portfolio. Altius Minerals, our lone metal streaming and royalty company, showed some renewed life, contributing roughly 3% to the portfolio's gains.² Except for Equinox Gold (a 1% drag on the portfolio's quarterly returns), not a single long position was down during the fourth quarter. We do not expect such consistent gains to occur frequently.

Selling covered calls on Lithium America (LAC) contributed roughly 0.75% to the portfolio's quarterly return. The covered calls we sold were laddered and had increasing strike prices at points at which we would have trimmed the position for portfolio management purposes. The volatility of Lithium America's equity made the calls a remunerative opportunity. We believe LAC may have a long way to go before it is appropriately valued, but we will continue to use covered calls to trim the position size should the opportunity present itself.

GROWTH MARKETS MEET TANGIBLE ASSETS

Over the last decade, there has been a growing body of analysis examining the rise of intangible investments and how accounting standards have made the job of ascribing value to intangible heavy businesses (and investments) more difficult.³ For a company that invests heavily in intangible assets, the recording of capital spent on investment has migrated from the balance sheet to the income statement-making reported earnings and book value less descriptive of economic value.

Despite this trend, we are beginning to see significant capital flow into real asset businesses (where the primary investment and value creation is derived from tangible rather than intangible resources). In the last 24 months, roughly 51 SPACs have either gone

public or been announced that are capital-intensive businesses focusing on the energy transition. These companies have IPOed for a combined ~\$15 billion. Today, the combined market capitalization stands at ~\$84 billion. The share-price of those firms has grown an average of over 200%.

Capital flowing to SPAC's certainly does not represent all money flowing to real asset businesses, but the trend provides a decent proxy for the current sentiment. A sentiment supported by think tanks and companies the world over. The Rocky Mountain Institute, an energy-focused think tank, expects \$40 trillion to flow into new low carbon assets before 2050.4 The critical link between all these investments, though, is that the companies involved are all either growing fast (some of them are young and growing fast), turning over their balance sheets quickly, investing heavily in next-generation processes and technology, or adjusting business models that in some cases (for example steel, bulk chemicals, cement, etc.) have not changed in more than fifty years. The world of capital-intensive tangible asset businesses, long considered boring compared to the exciting tech world, is fast becoming a driver of economic change.

Given the impetus and interest in financing solutions to combat climate change, paired with technologies in the energy, transportation, materials, and utility industries that appear on the cusp of large-scale commercial adoption, we feel comfortable stating that:

- 1. We have not seen this level of future growth in capital intensive industries for decades.
- 2. Investors searching for high growth opportunities have not had capital intensive businesses in their hopper of growth opportunities over roughly the same time horizon.

This has profound implications and raises important questions. Namely, how do you value high growth capital intensive tangible asset businesses?

Like the dilemma faced by value investors who have had to wrestle with the growth of intangible assets over the last twenty years, this new dilemma requires that investors' analytical approach be flexible enough to understand the crucial drivers of value in changing industries. A failure to adjust means there is a blind spot developing in the market. Typical surveyors of tangible asset businesses are not accustomed to the growth trajectories they might experience, and investors familiar with growth models are not usually, in our experience, acquainted with capital intensive industries.

If we accept this proposition, there are two implications:

First, we need to dissociate "tangible asset businesses" from "mature businesses." Most investors today have little investing experience before 1965. Innovation since 1965 (technological or otherwise) has, as aptly put by Peter Thiel, been in the form of bits rather than atoms. We associate growth with software companies and capital-light business models. Real asset businesses can grow, but often at or below some GDP (or sector-specific) growth rate. Valuation techniques often rely heavily on steady-state terminal value assumptions. Today, many capital-intensive businesses are becoming growth companies, if for no other reason than the end markets they serve are still nascent themselves⁵ and/or are rapidly changing. Thus, it is difficult to describe the characteristics of a mature business in such a market. How we value capital intensive

companies when we have no prior experience with new end-market characteristics is a question to answer.

Second, growth capital investors must refamiliarize themselves with evaluating balance sheets. If strategic resources of the market's next wave of growth companies and disrupted industries are tangible assets, understanding a company's prospects for creating value will be found on the balance sheet.

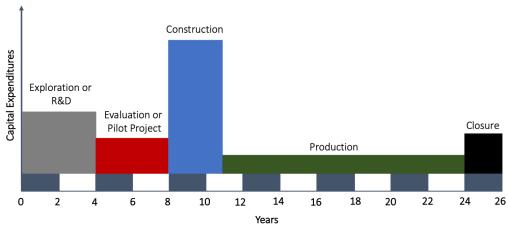
We believe project-focused companies offer a legitimate proxy for how to ascribe value to capital intensive growth businesses to chart a path forward. An important point made by Miller and Modigliani in their seminal paper 60 years ago⁶ was that the value of a company could be thought of in two parts: the first, a steady-state which assumes a firm can sustain its current profitability into the future; and second, the present value of growth opportunities which is a function of the magnitude of investments, return on investment and the period of time that investment opportunities are available.

Single project mining firms, the best and most descriptive example of a project company, almost exclusively derive their value from the second variable in Miller and Modigliani's formulation. They are mostly companies with no terminal value. For many, management does not even conceive of a permanent steady-state and does not assume the firm can sustain profits into the future beyond a single project. These firms are growth companies, with little possibility of a terminal value or consistent risk expectations on future cash flows.

These attributes are not unique to project companies but occur far more frequently than in mature, stable operating businesses. Johnson and Johnson rarely has an event that causes a fundamental change to the operating business's risk or an event resulting in investors questioning its likely long life to come. Project companies are different because asset development can fundamentally change the risk profile of investment from one year to the next, and because those projects have an end.

From a minority shareholder perspective, the risk of development uncertainty decreases as management shepherds a mining project through development and production. We can reflect that change by reducing the discount rate applied to future cash flows. A stylized life cycle of a mine or any significant capital-intensive property, plant and equipment (steel mill, oil refinery, wind turbine, electric vehicle charging network, utility-scale battery station, hydrogen electrolyzer, etc.) is as follows:

Stylized Project Life Cycle



At the early exploration stage, the risks are at a maximum, as is the optionality. A land package could hold a world-class asset that is easy to mine, it could have a mediocre asset that is difficult to mine, or there could be nothing of interest. Speculative investment opportunities exist, but this is the venture capital stage of project development. Many of the SPACs currently coming to market are of this nature: the risk is high, the timeline to development uncertain, and payoff cloudy. R&D at incumbent capital-intensive firms, such as attempts at developing hydrogen-powered steel furnaces or cement clinkers with carbon capture, are also at this stage. There is potential energy, but no evidence of a catalyst and measurement of that energy is difficult. As the project advances, the risks that future cash flows are never earned decreases. Lithium America (LAC)⁸, a junior lithium miner with two development assets, is illustrative of this dynamic.

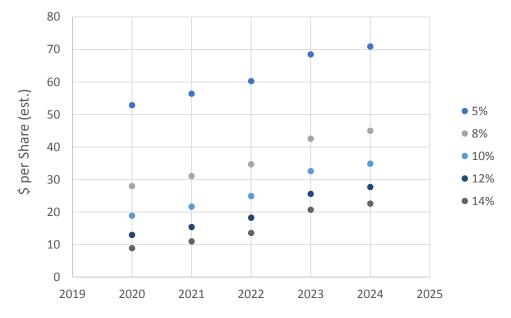
We first evaluated LAC in April of 2019 and invested in February 2020. At the time of our investment, a discounted cash flow analysis of the firm's projects produced a \$6.5 valuation versus the share price of roughly \$2.8. Today, a year later, we think LAC is worth \$18 per share. What changed over the last 12 months such that we revised our estimate up by 170+%?

- 1. The risk associated with project development, and;
- 2. Time to production

LAC's South American brine operation secured sufficient funding to bring the project to commercial production (financial de-risking). Their North American clay project received critical environmental permits and made substantial progress on the firm's processing technology to turn lithium-sulfur into lithium salts (operational de-risking). These developments allowed us to lower the discount rate used on future cash flows to reflect where LAC sits in their development cycle. LAC is also one year closer to production, which means cash flows are accretive to the firm sooner.

Estimated LAC Share Price

By Year and Discount Rate



The chart above shows the dynamic between time to production and the risk of production today.

This risk reduction quality of project companies is not unique to the world of tangible assets but is undoubtedly underappreciated. It is one reason why early-stage natural resources projects remain some of the more interesting reoccurring opportunities in public markets. The wasting nature of the assets means there is a continuous pipeline of new firms and opportunities to assess. Capital-lite growth businesses can be evaluated similarly (dynamically adjusting the risk and time to cash flow realization). There are some important differences between tangible and intangible asset growth companies, namely around pricing models and resulting earnings power.

In either scenario, a shared thread among most growing businesses is elevated volatility. Perhaps obvious, but again, consider the valuation ramifications. Discounted cash flow analysis treats volatility as risk, and value is subtracted from the business. Option analysis treats volatility as an opportunity and rewards the potential asymmetry. Growth investors frequently think in terms of options, traditional value more in terms of cashflows. Tangible asset businesses, which are historically the value investor's domain, now need to be evaluated with greater attention being paid to both aspects of the companies future, with investors' judgment determining where the majority of the weight lies in the final intrinsic value calculation.

We want to poise an open question: how comfortable are you valuing a capital-intensive, pre-revenue R&D operation, selling a compelling product into a market that does not yet exist (hydrogen producer, electric vehicle charging company) or an incumbent that fundamentally changed their business model without changing their product (green aluminum, or steel, a coal-burning utility that is now a fast-growing renewable utility)?

A second commonality between growth companies and project companies is the uncertainty about terminal value assumptions.

In a way, project companies can be simpler to evaluate as you can exclude the terminal value from the analysis and focus on the period in which the firm plans to invest, extract, and monetize its resource. Growth companies that intend to remain a going-concern business do not have as neat of an end-date to point to. However, the practice of bifurcating the value of a growth phase vs. a mature phase can be beneficial (and is how Miller and Modigliani laid out their taxonomy of value). It is incomplete to suggest that a project company's value is merely the value of their current endeavor. The management team may very well expand via acquisition or geological discovery if the business is a miner. However, like a growth company feeding into nascent end-markets, determining the value of that 'could be' is exceptionally challenging.

More broadly, the invisibility of a terminal value (or a mature state) impacts time horizon expectations. For an investor, this becomes particularly important at the portfolio level. When considering a return calculation, the time element is one of three variables: the value you buy, the price you pay for that value, and the time it takes for that value to be realized. Focusing on two of those variables (the value you buy and the price you pay) without due consideration for the third is a mistake, albeit a common one.

Indeed, one could attribute the froth in current clean-tech SPAC valuations to a distortion in the perception of time. Too many valuations are based on theoretical market sizes (just considering theoretical future value) rather than on a balanced view of all three variables. The result is that the necessary growth rates to achieve the value suggested by

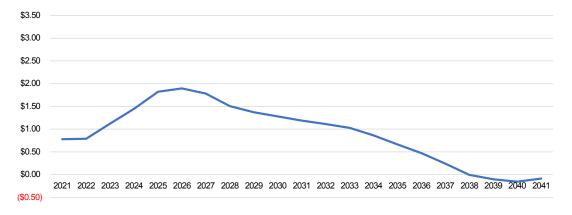
market prices neglect to consider the physical nature of most of the products sold by SPACs. Real asset businesses do not grow property, plant, and equipment or produce goods at the speed of software firms, nor can they be valued in the same way. Large quantities of capital chasing returns are being invested in businesses with limited near-term economic prospects. Near-term prospects in the world of real assets or tangible asset-heavy businesses is five to ten years, which is likely not what the market means when it thinks near term.

An excellent example of the importance of time when evaluating a project with no terminal value is the single asset mining firm Lucara Diamonds. A business focused on monetizing a single balance sheet item and has a life cycle that runs from development to harvesting and the asset's eventual closure. A project company has a point of maximum theoretical value, after which the value declines. This feature of project companies is even more pernicious when the company is a natural resources business with a depleting asset. It also means that the best opportunity to buy is rarely at the outset, from a risk-adjusted perspective, and the best time to sell is rarely before operations start.

Lucara is a long-term holding which we have recently reduced in size, in part, because of these factors. Lucara owns the Karowe Diamond mine in Botswana. The mine currently has enough developed reserves to operate through the end of 2025 (roughly) and a plan to extend the mine's life underground, adding approximately 10 to 15 years to the mine's life at a cost of roughly \$514 million. The firm's peak fundamental value⁹ is in 2026, the year in which major CapEx expenses for the underground mine are in the past, costs that reduced the firm's FCF in the period between the present and 2026, reducing its per-share value and production growth is ahead of the firm.

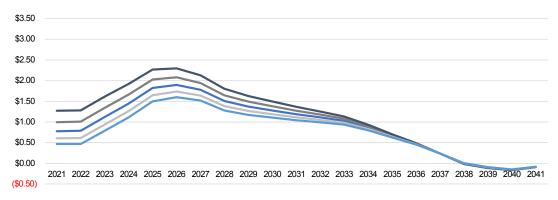
The rough fundamental valuation on a per-share basis of the firm as we advance through time thus looks like this:





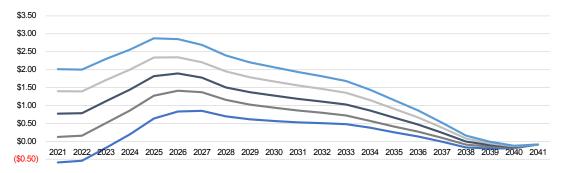
Many assumptions go into this chart, the most significant being production volumes, diamond pricing, financing structure, and discount rates (a risk estimate). The following chart shows how the value on a per-share basis changes with a varying discount rate assumptions:





Varying financing structure assumptions (in essence, how much equity vs. how much debt is used in the financing of the build-out of the underground), or any of the other inputs, produces similar charts. For example, the following chart depicts the fundamental value at a 10% discount and multiple diamond prices:

Per Share Value of Discounted Cashflows of Karowe Mine at Multiple Diamond Prices



The critical observation is that the shape of the fundamental valuation curve moves up and down along the Y-axis but does not change, which is to say the fundamental peak value is achieved in 2026, with assumptions defining the absolute peak but not the structure. After 2026, investors benefit only from a known set of fundamental shifts if they purchased the embedded value at a reasonable market price relative to the variables driving fundamental value or because of non-fundamental factors, perhaps market sentiment around the narrative of the company—for example, a story around a sudden growth in natural diamond demand by millennials.

From a portfolio management perspective, the critical takeaway is per share prices above the fundamental value-line post-2026 are increasingly driven by narrative, not project economics. In the run-up to 2026, though, there are non-commodity price catalysts that impact fundamental value. In short, buying real asset businesses well means buying them at the right time. Anything else is likely to be a purchase with narrative drivers but no fundamental corporate drivers. Furthermore, this creates a timeline for ownership. We know that if we buy the stock today, we have until 2026 to own it before experiencing a fundamentally driven deterioration in the underlying asset's value. The timeline is essential for evaluating hurdle rates: assuming the market fails to recognize this asset's fundamental value until 2026, do I meet my hurdle rate for inclusion in the portfolio. Do I have other opportunities that are superior?

We are enthusiastic and encouraged by the seismic undercurrents in the energy, industrial, and basic material landscape. Growth and innovation are desperately needed for these industries, and our base case is that it is coming. We encourage investors to have an open mind when valuing these businesses.

PORTFOLIO REVIEW

Our two copper positions, Ivanhoe Mining and Turquoise Hill, significantly outperformed expectations with a 210% and 150% return respectively in 2020. Ivanhoe's Kamoa Kakula mine will begin production within six months of this letter, ahead of the scheduled start date. Nevertheless, the advance in the stock price seems overdone. We would typically expect a pullback between now and when the mine turns on, but the demand for copper and the apparent strength in its current price may keep the stock elevated through the start of production. At present, the price is nearing our intrinsic value estimate, and we will likely look to harvest some gains in the position this year.

Turquoise Hill remains a challenging company to evaluate and a problematic company to manage within our portfolio. The company holds rights to a world-class asset, but one with very different characteristics than Ivanhoe's Kamoa Kakula. Kamoa is a flat, low depth, high-grade block of copper ore that is relatively easy to mine. Turquoise Hill's OT mine is a deep underground mine with good grades and high tonnage, but it is very challenging to monetize. The planned extraction method, block cave mining, is still a relatively new approach to mining an asset in the grand scheme of things. The scale of the OT mine exacerbates the challenge. Management challenges compound technical risks. Rio-Tinto (the mine operator and developer via a 51% stake in Turquoise Hill) and Turquoise Hill seem to always be at odds with each other, and both parties seem to always be at odds with the Mongolian Government.

Although we have spent significant time underwriting the technical, managerial, and political risks associated with the investment, we are continuously surprised by how frequently issues occur for this company. With that in mind, we constructed a collar on the position during the fourth quarter, selling call options for January 2022 at a \$20 strike and using the proceeds to buy January 2022 puts on the position at a \$7 strike. This will allow us to confidently hold the position in the near term, knowing we have locked in a gain of at least 50% from our purchase price while still allowing for significant potential price appreciation from the current \$12 price.

We are very pleased with our position in Kazatomprom to-date. Our contention for two years is that uranium remains a depressed metal trading at, or below, the incentive price of production and will soon be in short supply. This setup is well known to investors. The price of uranium is still relatively dormant, and investors who have piled into uranium producers with a thesis predicated on a rising price have either had to deal with stagnant positions or experienced modest gains or losses. Kazatomprom has been different and offered us an opportunity to circumvent the challenges and risks of building a thesis solely on the commodity price. It is the lowest-cost producer in the industry, it holds roughly 25% of the market, and the firm pays a dividend.

While many uranium opportunities are either pre-production mines that do not have a spade in the ground or regularly challenged producers like Cameco, Kazatomprom is a

well-run business. The asymmetric return potential of a pre-production junior in an environment where uranium prices double is probably not in the cards for Kazatom-prom. However, the firm has paid us 8% a year in dividends to wait for a future pop in uranium prices while also appreciating roughly 35% since our initial purchase in 2019.

It is likely unsurprising for most market watchers that our growing exposure to renewable energy also performed well last year. Polaris Infrastructure, RWE and AES all yielded high single or double-digit returns throughout the year, and standout Vestas appreciated north of 140%.

Wind power remains our largest single renewable exposure, and offshore wind, via both RWE and Equinor, the fastest growing renewable exposure we have. We are confident this trend will continue; we are in the early innings of wind development off the European continent's shores and have not even really started the development of offshore in North America and Asia. We also have growing exposure to renewable development in South American emerging markets via Polaris Infrastructure and AES.

Our short book remains a source of disappointment and a challenge. We entered the February/March period with our largest short book since inception. We monetized several positions during the COVID-induced market dive. As noted in our third quarter letter, we converted a significant portion of our remaining short book to options positions to retain exposure to the thesis while taking risk off the table. In hindsight, this has proved to be a good decision as all three companies have rallied well in excess of 200% relative to our initial entry price.

We continue to hunt for shorts but remain uncomfortable with the market backdrop. Short selling remains an important tool in our toolbox and one we would prefer not to be without. Still, our ability to utilize it profitably in the current market is limited. High capital flows and low cost of equity financing create a challenging environment for shorting. Many of these businesses have an increasing portion of the equity ownership dominated by price-insensitive holders. The price-insensitive holders may be a passive investment vehicle or large insider ownership, but the effect is the same, the firm's available float is reduced. The resulting inelasticity in the market makes stock prices very sensitive to capital flows. For much of 2020, we felt like we were walking down train tracks with a train coming at us a 60 mph; stepping off the tracks seemed the best approach to risk management, fighting the train appeared an imprudent endeavor.

As always, we appreciate the trust and confidence you have shown in Massif Capital by investing with us. We hope that you and your families stay healthy over the coming months. Should you have any questions or concerns, please don't hesitate to reach out.

Best Regards,

WILL THOMSON

CHIP RUSSELL

FOOTNOTES

¹Attribution of the core portfolio, gross of fees. Results in individual managed accounts will vary.

²Altius Minerals is pioneering the royalty and streaming business model for renewable energy development. A complete report on the business can be accessed <u>here</u>.

³Lev, Gu. "The End of Accounting". Wiley Finance Series. 2016; Mauboussin, Callahan. "One Job". Counterpoint Global Insights. Morgan Stanley. 2020. Damodaran. "The Dark Side of Valuation". Pearson Education Inc., 2010.

⁴Seven Challenges for Energy Transformation, Rocky Mountain Institute, 2019

⁵Electric car charging infrastructure, green hydrogen, floating offshore wind, etc.

⁶Merton H. Miller and Franco Modigliani, "Dividend Policy, Growth, and the Valuation of Shares," *Journal of Business*, Vol. 34, No. 4, October 1961, 411-433.

⁷Uncertainty can be viewed as either a risk or an opportunity. We elaborate on this in our LAC report referenced below, but it lends credence to the notion of employing option analysis to natural resource projects to quantify such optionality.

⁸For those interested in the details of our Lithium America Thesis, please see our recently released research report here.

⁹The value derived solely from the firm's fundamentals and strategy, with no attribution given for sentiment or variation attributable to macro-economic variables.

¹⁰Jiang, Vayanos, Zheng. "Tracking Biased Weights: Asset Pricing Implications of Value-Weighted Indexing". December 2020. Mike Green at Logica Capital speaks widely and intelligently on this subject, at length, across a variety of online mediums for those interested in a discourse on this subject.

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