GA-Courtenay Special Situations Fund

The GA-Courtenay Special Situations Fund has been built to deliver enhanced returns using a specialised approach to investing in dominant growth businesses, alongside deploying a positive-carry hedging structure

A message from the fund manager, Adrian Courtenay

Dear Investor,

Welcome to the GA-Courtenay Special Situations Fund.

Our approach targets advantaged investment outcomes by focusing on monopolistic business models with high barriers to entry that dominate industries with enduring growth tailwinds and, in the most compelling cases, are deeply mispriced due to esoteric circumstances. Barriers to entry—technological, regulatory, scale-based, or network-driven—are a critical determinant of long-term investment outcomes. They underpin excess returns on capital while reducing the risk of over-reliance on forecast precision in environments otherwise characterised by emerging or persistent competitive threats.

Portfolio holdings differ not by selection philosophy but by maturity. Some monopolies are long established; others are earlier in their lifecycle, where durable moats exist but are only identifiable through rigorous, first-principles research. By holding equities across the maturity spectrum, the fund combines portfolio balance with long-term compounding while remaining anchored to a consistent underlying investment logic.

Leverage is applied not to speculate on sectors, narratives, or timing, but to amplify exposure to durability itself. By restricting the long book to businesses where competitive erosion is structurally constrained, the fund seeks exceptional long-term outcomes without the fragility typically associated with high-return strategies. Systemic market dislocations—such as liquidity shocks or regime breaks—are addressed separately through an always-on, positive-carry hedge, protecting the path to compounding through periods of elevated volatility.

In April 2025, *The Hedge Fund Journal* recognised GA-Courtenay Special Situations as the best-performing event-driven UCITS hedge fund over the trailing five-year period. That record, however, also encompasses a full platform transition following the withdrawal of financing and derivative arrangements in 2023, which were only re-established from the second half of 2025. This period tested—and ultimately reinforced—the fund's infrastructure, counterparties, and risk disciplines.

Today, the strategy again operates with its full toolkit deployed within a specialised and resilient framework, positioning the fund to deliver peer-group-leading outcomes.

My objective is to anchor the strategy in a depth of framework and analytical rigour that goes beyond conventional practice. When each investment is treated as a first-principles inquiry, capital can be allocated more intelligently. Over time, my vision is that the fund can become a constructive force in global markets, reducing capital misallocation and helping high-quality businesses scale their most productive trajectories.

Best regards,





Adrian Courtenay, Managing Director and Head of Special Situations Strategy

Fund background

- ➤ Founded and seeded by fund manager Adrian Courtenay in October 2019 at Odey Asset Management
- > 2019-2021 the fund performed at the top percentile within UCITS hedge funds, AUM rose to \$110m
- Following Odey disruption in 2023, fund transferred to GreenAsh Partners
- Financing and derivative protection agreements lost 2023mid 2025; in the interim period the fund largely focused on merger arbitrage in line with absolute return mandate
- > Fund has emerged stronger with enhanced systems and fully restored prime broker financing and derivative protection agreements from mid-2025, again positioning the fund to target peer group leading returns
- ➤ Annualised net return since inception 12.0%
- > Strong risk metrics: low equity correlation R² of 0.10, strong Sortino ratio, defensive in market stress
- > Current AUM \$25m, positioned for growth
- GA-Courtenay is a daily dealing Irish domiciled UCITS fund with GBP, EUR, CHF and USD share classes
- > Administrator: US Bank
- > Auditor: Deloitte
- > Custodian: European Deposit Bank

Fund strategy

- > Research-intensive, deep dive approach to stock selection
- ➤ The fund targets exceptional businesses, including both esoteric special situations and enduring compounders
- ➤ Concentrated positioning (within UCITS limits)
- > Long equity book modestly leveraged
- ➤ Market risk is significantly reduced by permanent maintenance of S&P500 put options holding
- ➤ Hedge structure designed to achieve positive carry incorporating merger arbitrage yield funding S&P500 put option protection
- > The outcome: the fund amplifies our unitholders' exposure to dominant growth corporate trajectories concurrently with the maintenance of strong defences against market risk over time delivering highly advantageous absolute returns.

Manager background

> More than 20 years of hedge fund experience, including Special Situations Group at D. E. Shaw & Co, with strategy refined through multiple market cycles

Fund manager bio

Fund manager bio

2023 – present: Green Ash Partners, GA-Courtenay Special Situations Fund

2016 – 2023: Odey Asset Management (Special Situations Fund launches 2019)

2014 – 2016: D.E. Shaw & Co, Vice President, Special Situations Group

2000 – 2012: Tisbury Capital, Fortelus Capital (both special situations hedge funds)

1998 – 2000: Oxford University (Scholar, 1st class MA, Oriel College)



Key strengths

- Wide-ranging experience in situation assessment and relationship building across global developed markets
- · Advanced search and history proprietary systems accelerate situation discovery, analysis and risk management
- Extensive due diligence competency through deep dive research
- Demonstrated ability to accrete situation economics by activist engagement

Net performance since inception

Since inception the GA-Courtenay Special Situations (USD I class) has returned 12.0% net annualised at low correlation to the market at large

GA-COURTENAY SPECIAL SITUATIONS FUND (USD I) PERIOD NET RETURNS

Price at 12-Dec-25 Month to date Year to date Annualised since inception (%) \$200.61 6.0% 6.1% 12.0%

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2025	0.5	-1.6	-0.2	0.9	6.5	2.4	-3.5	-1.7	-0.2	0.1	-2.6	6.0	6.1
2024	1.5	1.5	0.7	-2.6	1.6	2.2	0.6	-0.7	0.1	0.6	-0.6	0.2	5.0
2023	7.6	-3.2	-5.4	0.6	-6.6	-4.1	1.0	-2.5	-2.4	-2.0	23.2	3.0	6.4
2022	-1.2	2.0	2.3	-3.1	-6.7	-6.1	1.5	7.7	1.0	-9.0	-0.2	-0.5	-12.8
2021	7.7	4.2	-3.2	-0.3	0.5	-4.7	-1.9	2.5	3.0	17.6	-2.1	1.6	24.4
2020	8.4	-2.5	-13.2	6.1	8.7	20.5	5.6	-5.1	5.7	-4.0	-2.7	13.2	42.8
2019										0.6	4.0	4.4	9.1

Note: Inception 17-Oct-2019; Performance figures are for share class USD I = the fund's base currency.

From July 2023 to June 2025 the fund's financing agreements and derivative protection were withdrawn following disruption to its prior house Odey Asset Management. During this period, the product was operated at low leverage and with a higher focus on yield creation through merger arbitrage in order to ensure consistent adherence to its absolute return mandate. From July 2025 all financing agreements and derivative protection were re-gained.

Source: GA-Courtenay USD I class. Fund performance statistics are updated daily on www.greenash-partners-courtenay.com Performance is presented net of 0.75% management fee and 20% performance fee

Fund positioning

Equity holdings	Value \$m	% of NAV	Fund statistics	% of NAV	Hedge economics annualised carry		% of NAV
Echostar (core asset: SpaceX equity)	2.29	9.3%	Equity special situations, long gross exposure	134.7%	Annualised net hedge yield estimate % (A	+ B)	8.2%
Filtronic plc	2.21	9.0%	S&P500 put option protection (delta)	-31.2%			
General Electric Company	1.85	7.5%	Fund net long at current option deltas	103.4%	1.S&P500 put option component		
Tesla, Inc.	1.64	6.7%				Value \$m	% of NAV
Kraken Robotics Inc.	1.55	6.3%	S&P500 put option strike, % below current index level (%)	-12.1%	S&P500 put option protection (delta)	-7.67	-31.2%
Visa Inc.	1.19	4.8%	At strike, nominal value of S&P500 puts as % of fund NAV	216.3%	Annualised cost of put option decay (to exp	oiry) (A)	-3.8%
Aena S.M.E., S.A.	1.14	4.7%					
Safran SA	1.13	4.6%			2. Merger arbitrage component		
Formula One Group	1.13	4.6%					% of NAV
Microsoft Corporation	1.13	4.6%			Annualised yield all merger arbitrages, disc	losed terms	20.6%
Ferrovial SE	1.12	4.6%			Budgeted impact of deal breaks		-1.9%
Mastercard Incorporated	1.12	4.6%			Cost of fund leverage		-6.6%
Airbus SE	1.10	4.5%			Annualised yield of all merger arbitrages, b	reak adj (B)	12.0%
NovaGold Resources Inc.	1.08	4.4%			Total gross exposure of merger arbitrage bo	ook	61.7%
Fanuc Corporation	1.08	4.4%					
Apple Inc.	1.05	4.3%			Largest merger arbitrage holdings	Value \$m	% of NAV
ASML Holding N.V.	1.05	4.3%			Frontier Communications Parent, Inc.	1.12	4.5%
American Express Company	1.05	4.3%			Kenvue Inc.	1.08	4.4%
Amazon.com, Inc.	1.03	4.2%			Loncor Gold Inc.	1.07	4.4%
Spotify Technology S.A.	1.00	4.1%			Warner Bros. Discovery, Inc.	1.06	4.3%
SoftBank Group Corp.	1.00	4.1%			Northern Superior Resources Inc.	1.01	4.1%
Moody's Corporation	0.98	4.0%			JTC PLC	1.00	4.1%
Brookfield Corporation	0.96	3.9%			Norfolk Southern Corporation	0.97	3.9%
Taiwan Semiconductor Manufacturing Compa	0.95	3.9%			Just Group plc	0.93	3.8%
Clean Harbors, Inc.	0.92	3.7%			ProAssurance Corporation	0.82	3.3%
Canadian Pacific Kansas City Limited	0.88	3.6%	Special Opportunities	% of NAV	Insignia Financial Ltd.	0.81	3.3%
ImmunityBio, Inc.	0.62	2.5%	Pershing Square SPARC Holdings, warrants	0.00%	InterRent Real Estate Investment Trust	0.78	3.2%
Lindt & Sprüngli AG	0.55	2.3%	(SSF owns 387,285 SPAR warrants; each warrant contains		Alexander & Baldwin, Inc.	0.72	2.9%
Fraport AG	0.25	1.0%	a call on two stock units upon merger announcement)		Dowlais Group plc	0.71	2.9%

The GA-Courtenay fund architecture has been progressively optimised to deliver a series of differentiated structural advantages

Optimisation vector

Strong defence without long-term performance drag

Returns amplification through safely deployed leverage for equity investments

A stock selection approach targeting enhanced accuracy in long-term investment outcomes

GA-Courtenay architecture

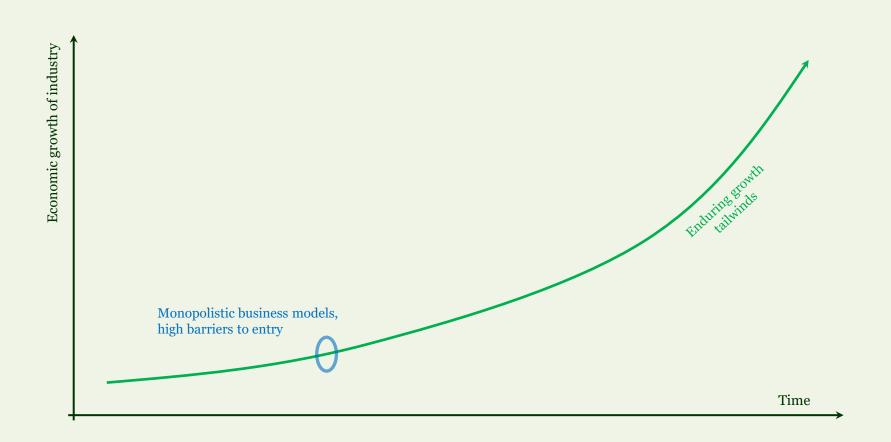
The fund deploys a permanent holding of S&P500 put options, strongly protecting against market dislocation risks; put option expenses are paid for using merger arbitrage yield, removing the otherwise long-term performance drag.

Our strong defences allow an equity leverage advantage over long-only funds. This allows the fund to amplify returns, with tracking error between equity book and hedge closely monitored and extensively modelled through history.

Our amplification empowers a highly disciplined stock selection approach focused on accuracy of outcome rather than amplitude of outcome (i.e. by otherwise targeting higher risk situations). Fund holdings centre on monopolistic businesses, with high barriers to entry tested through time, and enduring growth tailwinds.

A focus on monopolistic business models, high barriers to entry, enduring growth tailwinds, often in esoteric circumstances

Business value as discounted cashflow: key uplift variables are – initial cash yield, consistent cash returning to shareholders, duration period of cash returns, growth in cash returns over time



Whether exceptional business leaders create value in private or public markets, we target the public market pathways to own it

Company Space / in-orbit econom	<u>Founder/CEO</u>	<u>Founded</u>	<u>Business model</u>	<u>Fund holdings</u>	
SPACEX	Elon Musk	2002	Dominates reusable rocketry and low-cost high-cadence orbital launch with unmatched execution speed	FCHOSTAR. filtronic Intervation in RT technology	SpaceX is deeply discounted through EchoStar (cash > market cap, SpaceX equity implied at zero) Direct investment through Filtronic equity; monopolist in high-power E-band SSPAs — the fulcrum technology for SpaceX Starlink backhaul
Robotics					
TESLA	Elon Musk	2003	The car as a robotic platform for at-scale autonomy while developing humanoid robots that can translate AI into the physical economy	TESLA	Direct investment through Tesla equity
& ANDURIL	Palmer Luckey	2017	Reinventing defence with autonomous systems, rapid iteration, and software- centric architectures	KRAKEN ROBOTICS	Investment through Kraken Robotics equity, a monopolistic supplier of deep-sea batteries and sensors to Anduril
amazon	Jeff Bezos	1994	Amazon is building the world's most advanced commercial automation ecosystem, running the world's largest deployed fleet of mobile and articulated warehouse robots	amazon	Direct investment through Amazon equity
AI computing					
 ⑤ OpenAI	Sam Altman	2015	Leading the frontier of AI and driving a global transformation in software, productivity, and autonomous systems at unprecedented velocity	SoftBank	SoftBank, trading at a more than 40% discount to NAV, deep value exposure to both OpenAI and ARM Holdings

Drug discovery







2014

Pursuing a unified immunotherapy platform targeting cancer and infectious diseases; driven by a founder with a history of breakthroughs



Direct investment through ImmunityBio equity

Development stage gold mining





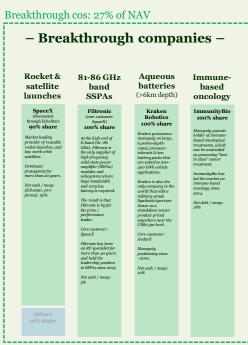
1997

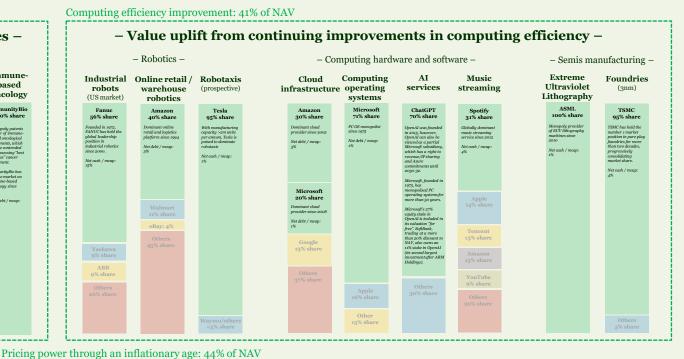
Controls one of the world's largest undeveloped gold deposits; a rare blend of visionary contrarianism and long-cycle resource expertise



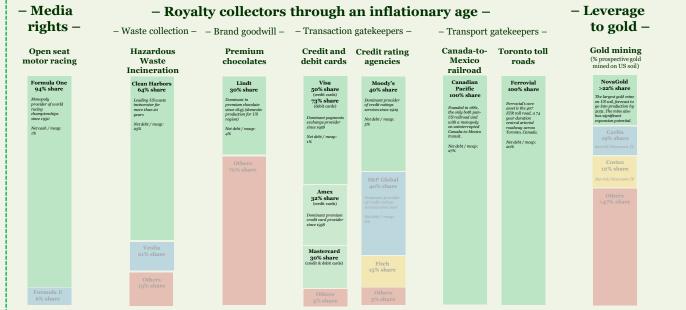
Direct investment through NovaGold equity

Growth tailwinds underpin compounding across the fund's equity holdings





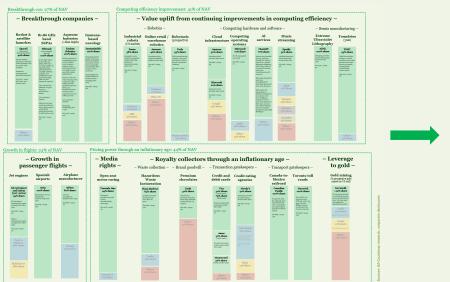




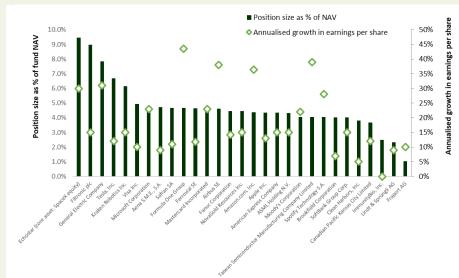
Sources: GA-Courtenay research, corporate disclosures

Position size weighted average earnings per share growth of fund equity holdings exceeds 19% annualised

With growth tailwinds underpinning compounding across the fund's equity holdings..



..the outcome is that the fund's equity holdings are reporting earnings per share growth exceeding 19% annualised

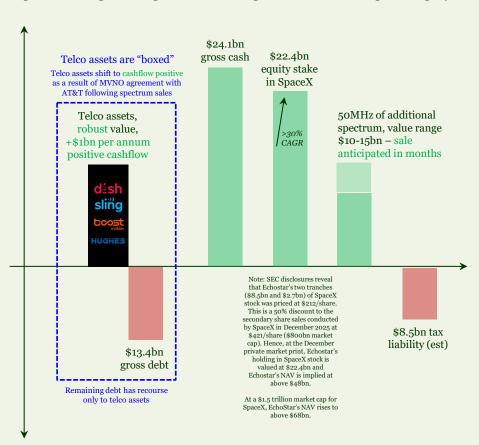


Case study: Echostar restructuring implies SpaceX at a deep discount

As SpaceX reduces the cost of reaching orbit by more than 10x, Starlink satellites possess a tailwind to dominate broadband and mobile bandwidth

Following restructuring, Echostar's net asset value is implied at above \$48bn based on SpaceX secondary share sales in December

Post-restructuring \$23bn sale of spectrum to AT&T, \$19bn sale of spectrum to SpaceX (a portion of which paid to Echostar in SpaceX equity)



In December, Elon Musk confirmed SpaceX will conduct share sales valuing SpaceX at \$800bn and is considering a 2026 IPO valuation of up to \$1.5 trillion

BARRON'S

SpaceX Is Worth \$800 Billion, Report Says. This Is Only the Beginning.

By Al Root Follow
Dec 13, 2025, 12:32 pm EST

Key Points

- SpaceX's valuation reached approximately \$800 billion in a secondary share sale, with shares priced at \$421, up from \$212 in July.

 Bloomberg reported.
- Starlink, SpaceX's broadband service, is a major value driver with over 8 million customers, an increase from 5 million a year ago.
- An IPO for SpaceX is anticipated in 2026, potentially valuing the company at up to \$1.5 trillion.

SpaceX could be a feast for investors in

Friday, Bloomberg reported ☑ that SpaceX had set a secondary share sale, which valued the startup at about \$800 billion, citing a company memo. The price in the secondary offering was \$421 a share. the renort said, us from a July price of about \$212 from a private market.

SpaceX didn't immediately respond to Barron's request for comment.

The \$800 billion figure would put SpaceX's valuation above that of OpenAI, as well as that of TikTok's parent ByteDance.

SpaceX is the dominant provider of space launch services, accounting for more than half of global orbital launches. Most of its value, however, is tied up in its profitable space-based broadband service Starlink, which currently has more than 8 million customers. up from about 5 million a vear aso.

Beyond Starlink, investors are excited about the potential for artificial intelligence data centers in space after CEO <u>Elon Musk</u> recently tweeted about the idea. The data centers could be solar-powered and offer a lower-cost way to develop AI applications. SpaceX possesses launch capacity and the ability to scale the facilities rapidly via satellite manufacturing, Musk himself brings AI expertise from overseeing his startup, XAI.

AI data centers in space would also offer a way to link xAI, which owns the social media platform X, and the Musk-led Teals. Tesla is putting AI into machines, including robotaxis, and eventually will place the technology in humanoid robots. Musk's xAI is developing AI asents, such as Grok, that compete with OpenAI's ChaIGPT.

Wedbush analyst Dan Ives believes Musk's companies will eventually invest in one another. One way that could happen is a SpaceX IPO, which is now expected in 2026—thanks to another Musk tweet—at a valuation of up to \$1.5 trillion. That number would make it one of the largest IPOs is history.

Before that happens, Echostar remains one of the best ways to get exposure to SpaceX stock, regardless of IPO timing. The satellite communications company has amassed about \$11.1 billion in SpaceX stock by selling Musk's rocket company wireless spectrum. That's some 52 million shares at the July price, which are now worth some \$22 billion.

Through Friday trading, Echostar stock has gained about 44%, adding \$9.5 billion in market value since initial reports about an \$800 billion valuation broke about a week ago. That is short of the \$11.1 billion value gain, and it looks as if Echostar stock hasn't reacted to the potential of a \$1.5 trillion IPO valuation.

However, values between Echostar stock and SpaceX don't have to line up one-to-one. There are factors to consider, among them tax efficiency, and investors holding Echostar have exposure to SpaceX, which is different from owning SpaceX. Still, tracking the value of Echostar is a good way to understand what the market is think about one of the most valuable and widely-followed private companies in the world.

An \$800 billion valuation for SpaceX would increase Musk's wealth by roughly \$160 billion. He owns about 40% of the company, although the exact details aren't publicly

SpaceX disclosures imply that current regulatory permissions for 144 Starship launches pa are likely to be increased *by an order of magnitude* over time

Starship has received regulatory clearances for 144 launches per annum, however, this implies a far lower utilisation rate at SpaceX Starbase Texas (12-13 launches per pad) than at SpaceX Kennedy Space Centre (44 per pad) or SpaceX Cape Canaveral (38 per pad), indicative of room to increase

SpaceX Kennedy Space Centre LC-39A:

1 x Starship launch pad
Regulatory clearance: 44 Starship launches pa

→ 44 launches per pad per annum

SpaceX Cape Canaveral SLC-37: 2 x Starship launch pads Regulatory clearance: 76 Starship launches pa → 38 launches per pad per annum SpaceX Starbase Texas (image shows expansion plan to two pads): 2 x Starship launch pads
Current regulatory clearance: 25 Starship launches per annum

→ 12-13 launches per pad per annum







- Furthermore, Starship manufacturing capacity implies that Texas launches will significantly exceed current regulatory permissioning at 12-13 pa
- · Additionally this is combined with comments by Elon Musk that the longer-term plan is to build 1,000 Starships per annum

SpaceX Gigabay Florida is the manufacturing plant for LC-39A and SLC-37 Starships (119 launches pa)



<u>However, SpaceX also plans an equivalent capacity Gigabay Texas, implying current 25 Starship launches pa</u> from Texas is significantly below longer-term plan, suggested by Elon Musk at **1,000 Starships pa**

SpaceX Is Building A New \$250 Million Facility In South Texas

According to filings with the Texas Department of Licensing and Regulation (TDLR), the new Gigabay will be a 700,000-square-foot industrial facility designed specifically for advanced manufacturing. The project is slated to begin construction on July 1 and is expected to be complete by late 2026. Dallas-based firm HDR is handling the design, continuing a trend of large-scale developments at the site.

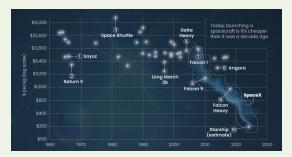
The latest expansion was hinted at earlier this year when Elon Musk shared a bold vision for Starship production: "We're aiming to build about three Starships a day," he reportedly said during a May presentation on X (formerly Twitter). That ambitious pace would mean manufacturing up to 1.000 Starships annually—a critical scale-up required to support Musk's long-term Mars mission strategy.

Sources: SpaceX corporate disclosures and management public statements, space sector public regulatory disclosures, GA-Courtenay research estimates

At 150 Starship launches pa 2026-2030, SpaceX is orientated to reach 95% of satellites launched, 48% of mobile bandwidth, \$3.3 trl revenue by 2040

SpaceX Starlink poised to reach monopoly position of >95% of satellites launched

SpaceX reusable rocketry has reduced the cost of reaching orbit by more than 60x over two decades

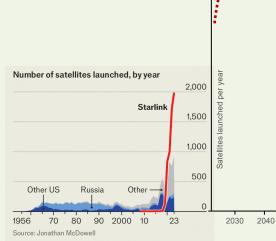


56,600

10,600

SpaceX Starlink annual launches to reach 10k in 2030, and 56.6k by 2040

At 60 Starship V3 satellites per launch, 10k satellites will be launched in 2030 and 56.6k in 2040, handing to SpaceX a close to monopoly position of more than 95% of all satellites launched

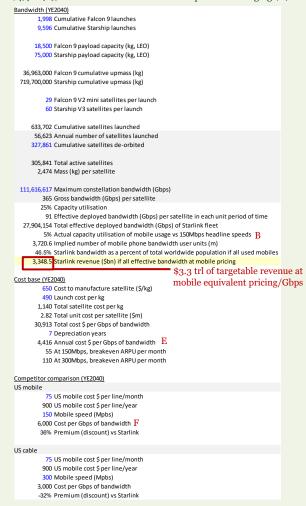


At 90 Gbps effective bandwidth per satellite, SpaceX Starlink is poised to deliver an equivalent of 5% of all mobile bandwidth worldwide by 2030 (A), and 46% by 2040 (B)

SpaceX's low cost to orbit implies Starlink mobile bandwidth as the lowest cost provider in both 2030 and 2040

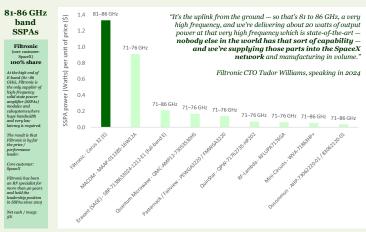
By 2030, SpaceX Starlink cost of 150Gbps mobile bandwidth is implied at \$4,762 (C), versus current terrestrial mobile providers charging \$6,000 (D) Bandwidth (YE2030) 1,073 Cumulative Falcon 9 launches 606 Cumulative Starship launches 18,500 Falcon 9 payload capacity (kg, LEO) 75,000 Starship payload capacity (kg, LEO) 19,850,500 Falcon 9 cumulative upmass (kg) 45,450,000 Starship cumulative upmass (kg) 29 Falcon 9 V2 mini satellites per launch 60 Starship V3 satellites per launch 67,477 Cumulative satellites launched 10,002 Annual number of satellites launched 11,293 Cumulative satellites de-orbited 56,184 Total active satellites 1,162 Mass (kg) per satellite 11,119,880 Maximum constellation bandwidth (Gbps) 198 Gross bandwidth (Gbps) per satellite 49 Effective deployed bandwidth (Gbps) per satellite in each unit period of time 2.779.970 Total effective deployed bandwidth (Gbps) of Starlink fleet 5% Actual capacity utilisation of mobile usage vs 150Mbps headline speeds A 370.7 Implied number of mobile phone bandwidth user units (m) 4.6% Starlink bandwidth as a percent of total worldwide population if all used mobiles 333.6 Starlink revenue (\$bn) if all effective bandwidth at mobile pricing Cost base (YE2030) 650 Cost to manufacture satellite (\$/kg) 769 Launch cost per kg 1,419 Total satellite cost per kg 1.65 Total unit cost per satellite (\$m) 33,332 Total cost \$ per Gbps of bandwidth 7 Depreciation years 4,762 Annual cost \$ per Gbps of bandwidth C 60 At 150Mbps, breakeven ARPU per month 119 At 300Mbps, breakeven ARPU per month Competitor comparison (YE2030) 75 US mobile cost \$ per line/month 900 US mobile cost \$ per line/year 150 Mobile speed (Mpbs) 6,000 Cost per Gbps of bandwidth D 26% Premium (discount) vs Starlink US cable 75 US mobile cost \$ per line/month 900 US mobile cost \$ per line/year 300 Mobile speed (Mpbs) 3.000 Cost per Gbps of bandwidth -37% Premium (discount) vs Starlink

By 2040, SpaceX Starlink cost of 150Gbps mobile bandwidth is implied at \$4,416 (E), versus current terrestrial mobile providers charging \$6,000 (F)



Case study: Filtronic, monopolistic supplier to SpaceX Starlink in solid state power amplifier (SSPAs), also stands to realise meaningful uplift

At the high end of E-band ($81-86~{\rm GHz}$), Filtronic is the only commercially available supplier of SSPAs – and by far the price/performance leader

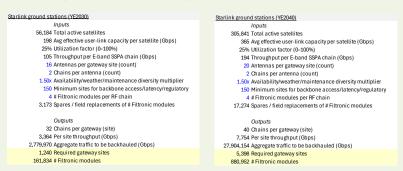


"Everything becomes critical — the packaging, the interconnects, the thermal, the yield — it is the ability to integrate 32 MMICs (Monolithic Microwave Integrated Circuits) repeatably **that others cannot industrialise.**"

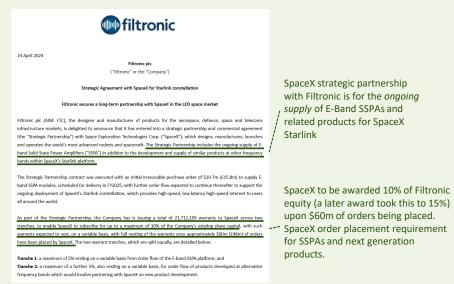
Filtronic CTO Tudor Williams, speaking in 2024

The required volume of Filtronic module orders can be backed out from SpaceX Starlink's capacity build

The model output (illustrative purposes only): Filtronic net income exceeds £40m by 2030, compared to its current market capitalisation of £280m (5x PE)



Confirmatory signalling: SpaceX takes 15% stake in Filtronic as part of as part of a long-term strategic supply and co-development agreement



Forecast uplift scenario: SpaceX IPO to fund "an insane flight rate" for Starship rockets, and Starlink satellites and datacentres, all of which transmit data back to earth via Filtronic's ground station SSPAs



Site visits confirm Filtronic's capacity expansion

From early 2026, Filtronic is more than doubling its footprint at NetPark, Durham following a 75% increase in manufacturing capacity in 2024. The additional facilities are custom-designed, also allowing the company to move up the value chain to higher product ASPs



Case Study: Anduril has begun US manufacturing of underwater autonomous vehicles at up to 200 per year; Kraken Robotics the batteries and sonar supplier



Kraken Robotics possesses monopoly / irreplaceable status in core AUV components: large, 6,000m-depth battery packs, and military-grade Synthetic Aperture Sonar (SAS)

Kraken's path to monopoly on large, 6,000 m-depth-rated, pressure-tolerant Li-ion battery packs that are naturally suited to 200–400 kWh vehicle applications

2004–2015: Dr. Carl Thiede's team at ENITECH develops pressure-neutral subsea drives, electronics and Li-ion batteries under successive German BMBF projects (*Druckneutrale Systeme, Druckneutrale Systeme Tiefsee, SMIS*). ENITECH is quickly recognised as a niche leader in pressure-tolerant batteries and drives.

2016–2017: Kraken Sonar takes a 19.9% stake in ENITECH and gains access to its proprietary silicone-gel encapsulation technologies.

2019–2020: Kraken raises its ownership of ENITECH to 100%. The technology is formalised into the SeaPower module family, creating standardised large building blocks for 200–400 kWh vehicle packs and subsea power banks.

2021: Kraken Robotics commercially launches SeaPower batteries and receives its first order from Dive Technologies in Massachusetts for its underwater autonomous vehicles. Additional customers follow.

2022: Dive Technologies is acquired by Anduril, which accelerates SeaPower battery order volumes from Kraken Robotics.

2023: Public disclosures reveal Anduril's Dive-LD and XLUUVs are equipped with Kraken SeaPower batteries; Anduril's Ghost Shark underwater autonomous vehicle is described as using roughly US\$8m of Kraken components (SeaPower + sensors) per vehicle.

2025: Kraken SeaPower becomes the de facto industry standard for large Extra-Large Uncrewed Underwater Vehicle (XLUUV) batteries; company materials emphasise SeaPower as a 6,000m-rated, platform-agnostic battery.

2025: At the 2025 REPMUS exercise in Portugal, Kraken highlights that multiple UUV platforms from German, Dutch, and other navies are operating with Kraken SeaPower batteries.

Kraken's path to monopoly as the only company in the world selling a military-grade Synthetic Aperture Sonar at anywhere near the US\$0.5m price level

2010–2012: Synthetic Aperture Sonar (SAS) technologies move from NATO to Marport Deep Sea Technologies, then spin out as Kraken Sonar Systems.

2013: Australia's Defence Science and Technology Organisation becomes the first purchaser of Kraken's AquaPix SAS for its autonomous underwater vehicles.

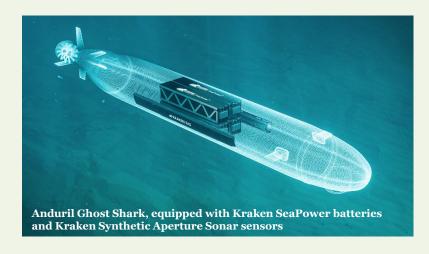
2015: Kraken Robotics acquires robotics technology, IP and staff from Marine Robotics Inc (a Marport subsidiary), uplifting Kraken's capabilities from SAS sensor to additional robotics platform components.

2020–2021: The Danish Royal Navy and Polish Navy select the Kraken Katfish towed sensing vehicle for their seabed mine-hunting operations.

2021: Kraken acquires PanGeo Subsea, a specialist in 3D sub-seabed acoustic imaging.

2023: Public disclosures reveal Anduril's Dive-LD and XLUUVs are equipped with Kraken AquaPix SAS sensors; Anduril's Ghost Shark underwater autonomous vehicle is described as using roughly US\$8m of Kraken components (SeaPower + sensors) per vehicle.

2025: At the 2025 REPMUS exercise in Portugal, Kraken highlights that multiple UUV platforms from German, Dutch, and other navies are operating with Kraken SAS payloads.



Clear signalling by US Navy to prioritise unmanned robotic and autonomous systems, combined with multiple additional regions transitioning to Anduril AUV standard

Chief of US Naval Operations: "Unmanned robotic and autonomous systems - that is where we are moving to as a Navy."

"I don't think I've ever served in a time when I've seen the Navy, Congress, and Office of Secretary of War, everyone's on the same page. There is no daylight between any stakeholder, and I think the American people as well.

AI and unmanned fleets represent a whole new set of competencies. There are specific procurement rates that we that are going to be involved with unmanned robotic and autonomous systems. That is where we are moving to as a Navy.

What we have to do now is make sure we can work with the defense industrial base, the submarine industrial base and the ship building at large to take those monies and convert that into output improvements."

> Admiral Daryl Caudle, Chief of US Naval Operations, speaking in December 2025



"The Navy I want to field is one that can meet our demands globally to protect our sea lines of communication, our commerce, the choke points of the world, to be ready to execute prompt and sustain combat operations and our most stressing operational plans.

It is a Navy that is not only ready but sustainable and has the right mix of high-end combat ships, high-end aircraft and of course unmanned autonomous vehicles that can deliver the actual lethality required to win.

There needs to be a palpable sense of urgency, a desire to be offended if we are one day off the critical path, and not be satisfied with being late."

> Admiral Daryl Caudle, Chief of US Naval Operations, speaking in December 2025

US Navy AUV purchases already in place for Anduril Dive-LD; Anduril Ghost Shark completing active testing phase by US Navy

US Navy receives first Dive-LD drone submarine

Defense tech company Anduril has delivered its first Dive-LD autonomous underwater vehicle (AUV) to the U.S. Navy, the company said Friday.

The Dive-LD was handed over to Unmanned Undersea Vehicle Squadron 1 (UUVRON-1), which is tasked with developing and operating undersea drones for intelligence, surveillance, reconnaissance, and other naval missions.

T □ TechCrunch

Aria Alamalhodaei - 12:12 PM PDT · September 10, 2025

SVP Of Maritime, Shane Arnott, said Ghost Shark can be rapidly "missionized in country," meaning that governments can plug in their own payload modules as needed. Anduril has already produced a U.S. payload that is being tested off the California coast, and it has stood up a 150,000-square-foot factory in Rhode Island to produce Ghost Sharks in the U.S. if a contract materializes.

Anduril highlights contractual path by which US Navy will purchase the larger Ghost Shark AUV

Anduril Pitches Ghost Shark XLUUV to U.S. Navv

BY MALLORY SHELBOURNE SEPTEMBER 10, 2025 7:05 PM **OUSNI News**

Anduril wants the U.S. Navy to take advantage of its rapidly developed autonomous undersea vesse

After winning a \$1.7 billion AUD award this week from the Royal Australian Navy for the Extra Large Autonomous Underwater Vehicle known as Ghost Shark, executives with Anduril are publicly urging

"I am highly confident that in the very near future there will be a contractual path by which the

Noting the troubled history of the Orca Extra-Large Unmanned Undersea Vehicle (XLUUV), Brose said the U.S. Navy has "spent [a] significantly greater amount of money on that program than the Australian government and Anduril have spent developing the ghost shark capability and it's further behind. And we have spent more time in, on and under the water."

'We are more ready to go. We are more ready to deliver at scale and we will do all of that at a lower

Anduril has already built a U.S. payload module made out of American steel and software that is currently undergoing testing off the coast of California should the U.S. decide to pursue Ghost Shark which participated in last year's biennial Rim of the Pacific exercise, Anduril senior vice president fo

Last month, the company opened a facility in Quonset Point, Rhode Island, - where submarine builder General Dynamics Electric Boat also has a facility - to manufacture autonomous systems

Anduril AUVs are also being piloted across European Navies, and in Taiwan

Anduril Expands Across Europe With Next-Gen Anti-Submarine and Infrastructure Defense Solutions

ANAVALNEWS

With successes mounting in the United States, Anduril is moving forward with several underwater domain products the company sees as prime candidates for Europe's diverse maritime environments, from the Arctic to the Mediterranean.

With a growing product line enabling undersea warfare, Anduril believes its maritime domain products fit the needs of sev

The Seabed Sentry design went from napkin sketches to full-scale testing, entirely self-funded, in under one year—something

Air Space, Anduril's products are a family of systems meshed together to provide awareness, intelligence, and strike capability Drake emphasized how the different undersea warfare products work together.

"Seabed Sentry provides a cordon layer, while UUV products like Dive-LD and Dive-XL change the capabilities of navies very quickly to achieve underwater mass. [Anduril's products] have the opportunity to change the game for European navies, and they can provide European navies the opportunity to achieve mass in their Areas of interest through UUVs and Seabed Sentry.'

RICH DRAKE, ANDURIL'S GENERAL MANAGER FOR THE UNITED KINGDOM AND EUROPE

While unable to disclose specific interests across Europe, Drake confirmed that Anduril has pitched Seabed Sentry to the Ro

GEO POLITICS DEFCROS NEWS 20/09/2025

NCSIST Plans to Modify and Produce Anduril Underwater Vehicles for Taiwan

Taiwan to Collaborate with Anduril on Autonomous Underwater Vehicles

Overview of the Initiative

autonomous underwater vehicles (AUVs) in partnership with Anduril Industries, enhancing Taiwan's military capabilities. This collaboration was unveiled at the Taipei Aerospace & Defense Technology Exhibition (TADTE) 2025, held from September 18 to 20.

Strategic Collaboration Goals

A project official indicated that collaborative efforts with Anduril will commence within the forthcoming months, with a particular focus on customizing the AUVs to meet specific requirements of the Republic of China (RoC) military. Key points include:

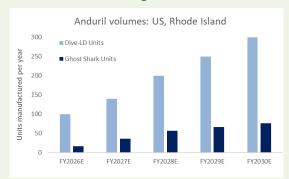
- Customization: Tailored adaptations to align with the operational demands of Taiwan's defense strategy.
- · Implementation Timeline: Agreements for both projects are expected to be formalized by the end of 2025. However, details regarding the financial commitments and the scope of potential deployments

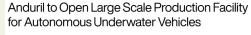
Future Development Plans

NCSIST aims to expedite collaboration with Anduril to ensure that the Dive-LD is specifically adapted for the Taiwanese context by the end of 2025. As stated by a project official:

US and Australian order paths alone position Kraken Robotics to capture revenue and EBITDA growth at multiples of trailing economics, significantly cheapening valuation

Anduril's US autonomous underwater vehicles factory opened in Oct 2025; to produce more than 200 AUVs per annum for the US Navy





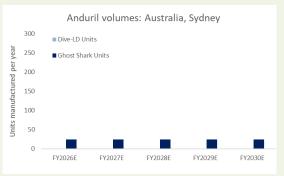


"More than 200 AUVs per year, opening in [late] 2025"
AUVs are transforming maritime deterence by providing an affordable, distributed, and adaptable undersea capability that complements the US and allied submarine fleet. Developing, manufacturing, and fielding these systems at scale on an operationally-relevant trimeline will be critical. The 100,000-150,000 square floot production facility will enable Andruit to immediately increase production capacity for ISD, but-1 Darmity-All Vist more than

family of autonomous underwater vehicles (ALIVs) at Quonset Point, Fihode Island. By investing in a scaled production facility ahead of need, Anduril will be able to stay ahead of customer demand and deliver on order

Anduril's Australian autonomous underwater vehicles factory also opened in Oct 2025; to produce "dozens" of AUVs Ghost Sharks per annum for the Australian Navy

with unprecedented speed





Anduril's production volume trajectory implies a rapidly accelerating revenue path for Kraken Robotics

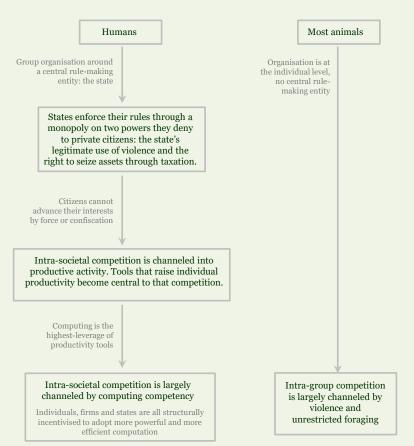
- from guided C\$130m revenue in 2025, Kraken is positioned to grow revenues to C\$1bn by 2027, C\$2bn by 2030
- at its historic 25% EBITDA margins, Kraken's EBITDA reaches C\$250m by 2027 and C\$500m by 2030
- compares to Kraken current C\$1.6bn Enterprise Value

Anduril volumes per manufacturing facility	FY2026E	FY2027E	FY2028E	FY2029E	FY2030E
Andum volumes per mandiacturing facility					
United States: Rhode Island					
Dive-LD Units	100	140	200	250	300
Ghost Shark Units	16	36	56	66	76
Total factory units	116	176	256	316	376
Australia: Sydney					
Dive-LD Units	0	0	0	0	0
Ghost Shark Units	24	24	24	24	24
Total factory units	24	24	24	24	24
Kraken Robotics revenue breakdown					
Anduril large autonomous platforms					
Dive-LD Units	100	140	200	250	300
Dive-LD ASP (C\$m)	1.86	1.67	1.67	1.67	1.67
Dive-LD Revenue (C\$m)	186.1	234.4	334.9	418.6	502.4
Ghost Shark Units	40	60	80	90	100
Ghost Shark ASP (C\$m)	10.68	9.61	9.61	9.61	9.61
Ghost Shark Revenue (C\$m)	427.3	576.8	769.1	865.2	961.3
Subtotal	613.3	811.2	1,104.0	1,283.8	1,463.7
Anduril distributed / mass-deployable systems					
Seabed Sentry Units	125	250	375	450	500
Seabed Sentry ASP (C\$m)	0.20	0.20	0.20	0.20	0.20
Seabed Sentry Revenue (C\$m)	25.0	50.0	75.0	90.0	100.0
Copperhead Units	000	750	4.000	1.200	1.350
Copperhead ASP (C\$m)	300 0.10	750 0.10	1,000 0.14	0.13	0.13
Copperhead Revenue (C\$m)	30.0	75.0	140.0	156.0	175.5
Coppeniead Revenue (Can)	30.0	75.0	140.0	150.0	175.5
Subtotal	55.0	125.0	215.0	246.0	275.5
Non-Anduril Revenue (including service revenue)	90.0	117.0	140.4	161.5	177.6
,g		30.0%	20.0%	15.0%	10.0%
Total Washing Dahadian anggana	750.0	4.050.0	4.450.1	4.004.0	4.040.0
Total Kraken Robotics revenue	758.3	1,053.2	1,459.4	1,691.3	1,916.8

Tailwind breakdown: an enduring increase in computing performance

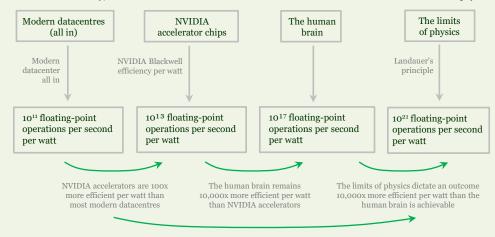
Computing efficiency/Watt remains $10^6 \times$ short of the human brain, and a further $10^4 \times$ short of the limits of physics

<u>Incentive</u>: the nature of human societies results in the enduring incentive for individual productivity through ongoing improvement computing efficiency



Achievability: computing efficiency is pushing at a 'open door'

To understand what is actually happening, the necessary recognition is that the research programs delivering computing efficiency improvement are pushing against an "open door" tailwind of long-term enhancement; Datacenter efficiency/Watt remains 10⁶× short of the human brain, and a further 10⁴× short of the limits of physics.



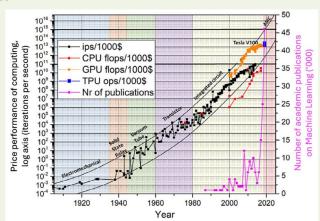
Research into improvements in computing efficiency is pushing at a 'open door' capable of delivering up to a 10,000,000,000x improvement in floating-point operations per watt

<u>Outcome</u>: a sustained future tailwind in increasing computing performance has deterministic qualities

The implication is that the trailing attributes of increasing computing performance per watt are extrapolatable.

The base-case assumption is that this trailing tailwind still has orders of magnitude of headroom ahead of it: even if human-brain-level efficiency is reached, the limits set by physics remain a further 104× away.

As long as economic and political incentives continue to favour higher intra-group productivity, we should expect this gap to be progressively closed over coming decades.



Case study: Fanuc, global market leader in industrial robotics, is extremely well positioned within the ongoing shift of AI technologies to the factory floor

Fanuc's capacity expansion is indicative of an internal budget plan for volumes 83% higher than current robot production



Indicated manufacturing capacity growth is to volumes 83% higher than current robot production

Fanuc management, January 2022: "the evaluation of achieving a **production capacity of 16,500 units per month**, without new constructions, is ongoing"

FANL

FANUC CORPORATION Q&A Summary of the Telephone Conference on Financial Results for the Third Quarter ended December 31, 2021 (January 26, 2022)

- Q: ROBOTs are being manufactured both in FANUC Headquarters and Tsukuba. What are your plans for enhancing production capacity in these sites, as well as in the Mibu area?
- A: The monthly production capacity of ROBOTs is 11,000 units, and it seems that manufacturing at full capacity is on the horizon. By using free space within the company and improving efficiency, prospects are clear for increasing the monthly production volume to approximately 14,000 units. Also, the evaluation of achieving a production capacity of 16,000 units per month, without new constructions, is ongost.

Still, as the robot market is expected to expand dramatically, such enhancements are seen as being limited, and will cover demands only for the next few years. Building a new ROBOT factory in Tsukuba is contemplated as the next step. If demands increase even further, there is a possibility to consider using Mibu as an option for additional production. Fanuc 2024 annual report: "Fanuc has succeeded in increasing the number of units that can be produced by 50%... this has resulted in a production capacity of more than 15,000 units per month."

Increasing the Capacities of the Tsukuba ROBOT Factories

The Tsukuba Robot Factory #1 began operation in August 2018 and has significantly increased its production capacity in order to meet storag demands for robots. FAMUL has succeeded in increasing the number of units that can be produced by approximately 50% compared to what was initially planned, by making a series of revisions in the manufacturing process. This has resulted in a production capacity of more than 15,000 robots per month when combined with the production in the Headquarters Factories. At Tsukuba Robot Factory #1, the automated warehouse and transport lines have been expanded, assembly

All Sububa Robot Factory 91, the automated warehouse and transport lines have been expanded, assembly ceeds automated by robots have been est up, and the Collaborative robot CRX has been introduced to the ceeds automated by robots have been set up, and the Collaborative robot CRX has been introduced to the required. To ensure high reliability, assembled robots undergo rigorous testing, including continuous operation tests at a test size. By analyzing data on quality collected from the past, the operating conditions for the continuous operation tests have been revised, which has enabled the operating time to be shortened. This sa significantly reduced test test duri me and has improved the turnover rate. In recent years, demand has been rapidly growing for robots with high payabots, such as those for transfering battery units of electric vehicles. The production capacity of the H-1000AA and fix-2000AB.

Thouse with payobase seclessing fevor, the an November 2022, the finished products warehouse was expanded. Prior to this, robots to be shapped overseas were transported by truck to a logistic company near the port, where export packaging and warning of small robots can be handled inhouse, and truck transport has been replaced by transport of containers by trailers which has improved loading efficiency. The reduction in the number of trucks helps to promote carbon neutrality and solve the "2024 driver problem" where there will be a shortage of truck driver. The "Isukuba ROBOT Factories will continue to improve their supply capacities by increasing efficiency, and will stably supply the high qualify thools that customers desire.





Fanuc is extremely well positioned with respect to the ongoing shift of AI technologies to robotics

The AI era is poised to significantly lift demand for Fanuc robotics:

- * Task set expansion: foundation model vision, force sensing, and policy learning is today empowering robots to tackle variant-rich, previously "unautomatable" steps (i.e. kitting, bin-picking, inspection, machine tending with irregular parts). More tasks achievable → more robots demanded.
- * Friction collapse in robot deployment: digital twin simulations and prompt engineered natural language programming shrink engineering hours and changeover times. Lower integration cost shortens payback periods → more robotics projects clear investment hurdle rates.
- * **Uptime optimisation**: predictive maintenance (e.g. servo, robot health) and tighter motion control raises robot availability x performance x quality of output, raising economics of robot deployment and incentivising additional orders.
- * Political and demographic incentives: onshoring incentive programs, labour scarcity, quality/traceability mandates raise the need for automation exactly where Fanuc is dominant US industry.
- * Winner-takes-all tailwinds: As AI pushes autonomy to the edge, factories will value widely supported platforms. Fanue's market dominant platform and service network is positioned to become the only "safe option".

Founded in 1972, Fanuc has held the global leadership position in industrial robotics since 2000, maintaining a stable US market share exceeding 50%



Case study: autonomous vehicles, poised to deliver windfall profitability to Tesla, will also significantly increase volumes through urban toll roads

Autonomous vehicles are poised to deliver windfall profitability to Tesla

Tesla's self-driving robotaxis, achieving lowest cost provider dominant status by operating without LiDAR, have moved beyond proof of concept to deployment

As at November 2025, Tesla Robotaxis are deployed in two states, actively testing in a further six states, and Tesla has made job postings for testing in an additional seven states





Modelling Tesla AVs to charge \$0.50 per mile, 100k miles per year per AV, and an eventual market opportunity of 138m AVs worldwide, indicates a \$7 trillion per annum revenue opportunity

Service revenue per year

Self-driving cars

6,880 \$bn AV TAM worldwide (service revenue/year)

0.050 \$m revenue per AV/year 138 m TAM for AVs worldwide

0.50 \$ per mile charged by AVs (service revenue) 289,278 passenger km/year for each AV

16.1 human car service multiplier per AV

1,250 m vehicles worldwide in 2025

77% utilisation uplift

160,710 autonomous car km/year

- 1.8 average AV occupancy with pooling
- 16 hours/day autonomous car
- 28 km/h average in-service speed

12.000 km per year for non-autonomous cars

1.5 persons average occupancy

18,000 passenger-km/year

Sources: Tesla corporate disclosures, GA-Courtenay research estimates

Ferrovial, long-term toll road assets (average duration to maturity 54 years)

Core asset the 407 ETR toll road is a 74 year concession across central Toronto



- over the last 10 years, toll charge per trip has been increased by 6% per annum
- Toronto population forecast to increase by 46% by 2046
- the population growth is expected mostly along the 407-ETR corridor with the land around it
 having been designated as a provincially significant employment zone resulting in the
 government devoting resources to the area to boost employment
- concession owned until 2098

Growth assets are multiple toll roads within Dallas



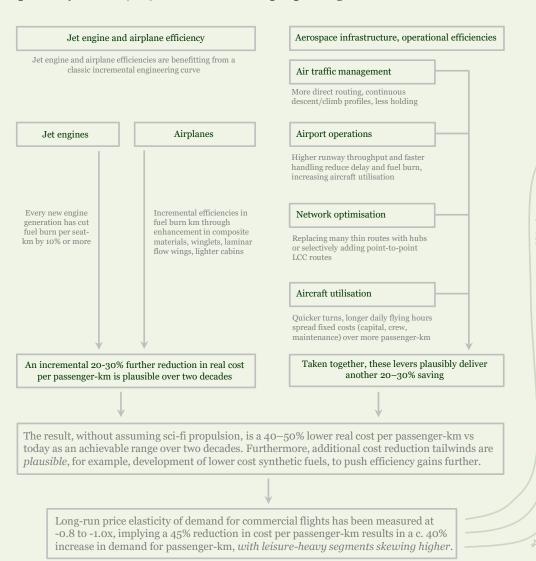
- over the last 10 years, toll charge per trip has been increased by more than 10% per annum
- the Dallas area is ranked no.1 in the US for population growth
- concession owned until 2060-2070

Sources: Ferrovial 2024 investor day, GA-Courtenay research

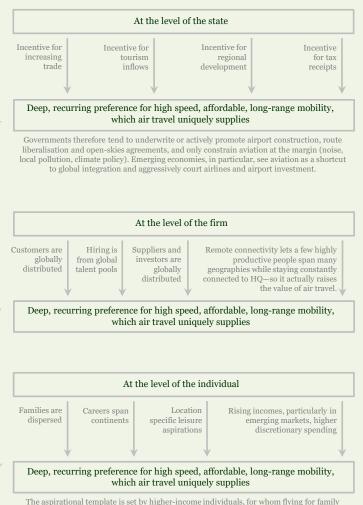
We estimate that in the scenario that autonomous vehicles are used for 64% of US vehicle miles travelled by 2040, this would increase by 38% total automotive urban miles travelled (autonomous frees parking land resulting in urban population increase, autonomous allows higher roadway volume per unit of road due to more precise driving, and autonomous through cheapening the cost of transit results in demand expansion), delivering significant additional long-term tailwind to Ferrovial toll road vehicle volumes

Tailwind breakdown: a demand tailwind in passenger flights through ongoing aerospace efficiency improvements

<u>Achievability</u>: ongoing advances in engines, airframes and operations can plausibly drive a 40–50% lower real cost per passenger-km over two decades



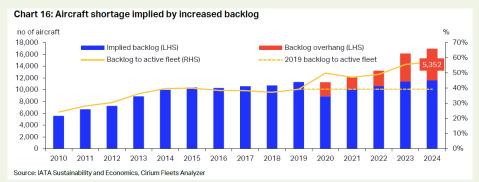
<u>Incentive</u>: across states, firms and individuals, an enduring demand for more commercial flight, with billions of people remaining underserved



visits, professional work and leisure is normal.

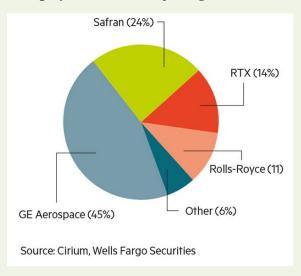
Case study: GE Aerospace, Safran, and Airbus – jet engine and aircraft manufacturers poised to capture significant backlog and servicing tailwinds

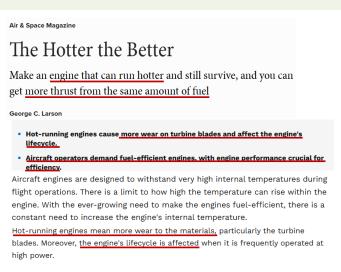
1. Following capacity de-utilisation in the 2020 covid shock, there remains a very significant backlog in demand for new aircraft



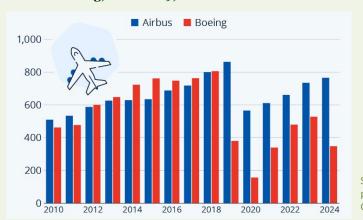
2. Efficiency demands result in jet engine designs that run hotter. More efficient engines cheapen flights, significantly stimulating long-term demand, yet also require increased servicing, bolstering the profitability of jet engine companies such as GE Aerospace, Safran, which derive the majority of their profits from engine servicing

3. Jet engine manufacturers GE Aerospace and Safran hold an effective duopoly on commercial jet engine manufacturing





4. Airbus and Boeing constitute a duopoly on airplane manufacturing; since 2019, Airbus has dominated



Source: Corporate disclosures, public domain articles and GA-Courtenay research

Case study: Aena airport – passenger volumes by commercial flight are implied at a 6.5% CAGR by airport capex plans, well above widely used World Bank estimates

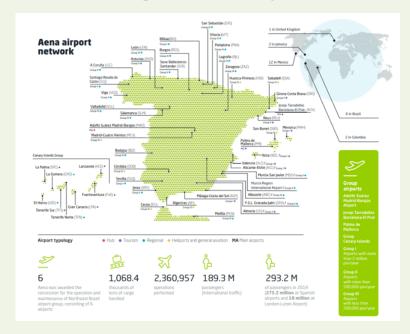
The widely used World Bank estimates for the growth in passenger volumes by commercial flight imply a CAGR of 3.4% to 2030, and 3.2% to 2040

```
Growth (CAGR) in volume of passenger flights
                                                                     Growth (CAGR) in volume of passenger flights
2024-2030
                                                                     2024-2050
             2.87% US, UK, Ger, Fra
                                                                              2.38% US, UK, Ger, Fra
            1.87% United States
                                                                              2.08% United States
             3.39% United Kingdom
                                                                              2.54% United Kingdom
             4.83% Germany
                                                                              3.14% Germany
            9.13% France
                                                                              3.94% France
             6.51% Japan
                                                                              3.15% Japan
             6.33% Brazil
                                                                              4.10% Brazil
            7 79% China
                                                                              4.58% China
            11.81% India
                                                                              7.12% India
                                                                              2.57% World ex US, UK, Gr, Fr, ex China, ex India
             1.60% World ex US, UK, Gr, Fr, ex China, ex India
             3.37% World
                                                                             3.15% World
Passenger volume in commercial flights
                                                                     Passenger volume in commercial flights
2024-2030
                                                                     2024-2050
         3,069,000,000 US, UK, Ger, Fra
                                                                           5,399,000,000 US, UK, Ger, Fra
         1.098.000.000 United States
                                                                           1.680,000,000 United States
                                                                            269,000,000 United Kingdom
          171,000,000 United Kingdom
          146,000,000 Germany
                                                                            246,000,000 Germany
          152,000,000 France
                                                                            246,000,000 France
          146,000,000 Japan
                                                                            224.000.000 Japan
          171,000,000 Brazil
                                                                            336,000,000 Brazil
          1,098,000,000 China
                                                                           2,240,000,000 China
                                                                           1,120,000,000 India
          366,000,000 India
          3.069.000.000 World ex US, UK, Gr. Fr. ex China, ex India
                                                                           5,399,000,000 World ex US, UK, Gr. Fr. ex China, ex India
         6,100,000,000 World
                                                                          11 200 000 000 World
```

However, the actual capacity announcements by the world's top 20 airports can be considered a greater reveal of "insider" estimates, and imply a 6.5% CAGR in passenger volumes by commercial flight to 2030

Airport	Announced expansion to (pax, m)	Timeline	Announced passenger capacity growth CAGR (%) to 203
Total top 20	2,122		6.5%
Atlanta - Hartsfield-Jackson (ATL)	125	2030	2.6%
Dubai International (DXB)	150	2030	10.8%
Dallas/Fort Worth (DFW)	100	2030	3.3%
Tokyo Haneda (HND)	90	2030	0.0%
London Heathrow (LHR)	92	2031	0.4%
Denver International (DEN)	100	2040	1.5%
Istanbul Airport (IST)	150	2027	29.1%
Chicago O'Hare (ORD)	100	2028	7.7%
Delhi - Indira Gandhi Intl (DEL)	125	2030	4.6%
Shanghai Pudong (PVG)	130	2030	10.2%
Los Angeles (LAX)	100	2029	2.7%
Guangzhou Baiyun (CAN)	120	2026	0.0%
Seoul Incheon (ICN)	120	2030	2.5%
Paris Charles de Gaulle (CDG)	80	2030	0.0%
Singapore Changi (SIN)	140	2034	5.0%
Beijing Capital (PEK)	80	2030	-0.5%
Am sterdam Schiphol (AMS)	70	2030	0.0%
Madrid Barajas (MAD)	90	2030	5.2%
New York JFK (JFK)	80	2030	5.9%
Shenzhen Bao'an (SZX)	80	2027	26.5%

Aena, monopoly ownership of all Spanish airports; whilst landing charges are regulated, other charges (duty free rentals, taxi services, land development) remain unregulated



Favourable tailwinds: over the last 10 yrs, flights into Spain have increased at a 6% annualised growth rate; tourism has the highest elasticity of demand to lower cost in per passenger-km, Spain is delivering the highest economic growth in the Eurozone

Spain's economy keeps growing — why is the country doing so well? PUBLISHED SAT, AND 23 2025-200 AM EDT I UPDATED MON, AND 25 2025-7-48 AM EDT

- Spain's gross domestic product surpassed expectations in the second quarter, growing 0.7%, above a forecast of 0.6%.
- Investment and consumption are the main key drivers for this growth, as well as a booming tourism sector.
- "Spain is a great outlier now in terms of growth. It's also a great place to invest,"
 Spain's Finance Minister Carlos Cuerpo told CNBC.

Sources: Aena annual report, GA-Courtenay research, other corporate and public disclosures

Tailwind breakdown: an inflationary tailwind in favour of dominant business models with the ability to raise pricing

Across the West, a combination of rising debt/GDP, and stagnating population growth, raises the probability of currency devaluation

Rising G7 debt as % of GDP raises risk of fiat currency devaluations



Western population growth is stagnating, with many countries exhibiting population decline

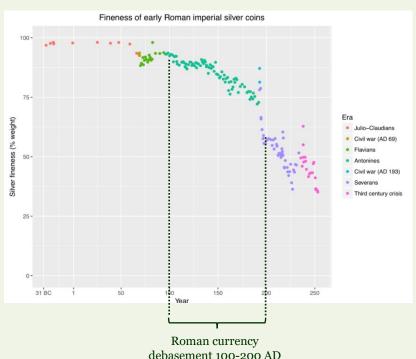
Population growth 2025-2050	Annualised	Gross
US, UK, Germany, France:	+0.20%	+5.4%
US:	+0.38%	+10.4%
UK:	+0.13%	+3.6%
Germany:	-0.22%	-5.5%
France:	-0.15%	-3.9%
Japan:	-0.68%	-16.3%
Brazil:	+0.33%	+8.9%
China:	-0.27%	-6.7%
India:	+0.54%	+15.1%
World ex US, UK, Germany, France, China, India:	+1.01%	+29.9%
World:	+0.68%	+19.3%

Whilst economic growth from AI and robotics may be sufficient to ultimately begin to lower the debt/GDP ratios..

"I came to the conclusion that the only way to get us out of the debt crisis and to prevent America from going bankrupt is AI and robotics. We need to grow the economy at a rate that allows us to pay off our debt."

Elon Musk, speaking in November 2025

.. high debt/GDP regimes over time also recognise they possess no alternative but to engage in currency devaluation, resulting in sustained periods of higher inflation, to lower the real value of their debt



Case study: US railroads to benefit from industry consolidation increasing pricing power through an inflationary age, concurrent with volume uplift

US onshoring of manufacturing is poised to significantly uplift railroad volumes

How Relocating Manufacturing from Asia to North America will Lead to Paradigm Shift in Rail and Logistics

The onshoring/reshoring phenomenon does offer great potential to grow rail business in the short term and strengthen the rail industry as a whole. However, improvements are needed to move forward.

Sep 11, 2024

From Conrait Corporation

Today, onshoring and reshoring continues to grow and flourish because companies believe that by manufacturing closer to customers, they will have better control over production and logistics, experience a shortened delivery timeline, receive significant cost reductions including reduced transportation costs, and other benefits

However, the phenomenon of relocating manufacturing from Asia to North America will lead to a paradigm shift in logistics, and in railroading, in particular. It will cause managers to completely reexamine their transportation strategies, starting from mile zero, and consider some new alternatives such as rail freight for all of its advantages.

In theory, this new phenomenon should provide railroads with a bountiful growth opportunity resulting from their perceived proximity to the onshoring/reshoring ecosystem and its customers, such as heavy equipment, food, chemicals, wood, automobiles and other categories. However, that growth will not necessarily be automatic. The railroad industry will need to evolve in three key areas to maximize this onshoring/reshoring opportunity.



Stretching coast to coast over 140,000 miles of track, the US rail network is set to play a critical part in meeting the growing domestic demand for efficient goods transport.

President Trump's "America First" agenda is prioritising delivering America's economic needs through American industry. Meanwhile, geopolitical and economic uncertainty is causing more companies to onshore their operations in the United States. A KPMG survey, published in 2024, found that 81% of U.S based executives say their companies are bringing back more of their supply chains due to global challenges¹. This research was conducted ahead of the introduction of tariffs which will further amplify

Together, these factors should increase demand on the country's domestic rail networks. This is an opportunity of a scale that the sector hasn't seen in decades, including for the smaller, but critical, components of the network: its short line railroads

According to our own research, the rail freight market in the US has seen nearly continuous growth in volumes over the last 20 years when excluding coal volumes. In addition, it has outpaced the growth in trucking in the US by around 40%. There's room for further expansion as for distances over 550 miles, where rail is typically the most cost-effective option, rail only accounts for about 50% of the freight transportation market

December 2015: BNSF CEO states that if Norfolk Southern receives takeover approach, BNSF "would participate" either with counter offer for Norfolk Southern or with takeover of CSX

Buffett's BNSF Open to Bid for Norfolk to Challenge CP's Offer

December 10, 2015, 11:36 PM GMT Updated on December 11, 2015, 9:40 PM GMT

- Chairman Rose says N. America industry won't stop at one deal
- ► He prefers no consolidation, but would jump in if it begins

BNSF Railway Executive Chairman Matt Rose is open to making a competing offer for Norfolk Southern Corp., the company targeted by Canadian Pacific, and CSX Corp. also would be "very much in play." While BNSF doesn't favor fresh dealmaking, the carrier won't be sidelined if any occurs, Rose said Thursday in a telephone interview.

Putting Canadian Pacific together with Norfolk Southern would leave Jacksonville, Florida-based CSX at a disadvantage, inevitably making that railroad a target as well, Rose said. Canadian Pacific sees \$1.8 billion in merger benefits from a Norfolk Southern deal, which "quite frankly creates an uneven, unstable railroad network with CSX," he said.

"Then you've got two railroads in the west that would be looking at, 'Should one of us jump in with the NS assets or should the other one jump in on the

A BNSF offer for Norfolk, Virginia-based Norfolk Southern would be akin to Union Pacific's efforts to step in during the 1990s to "provide a competitive bid when the Burlington Northern and Santa Fe were merging," Rose said. "If there is consolidation to be had, we would participate as well."

August 2025: Trump fires Surface Transportation board member who opposed prior railroad mergers

Trump fires Democratic member of Surface Transportation Board ahead of huge rail merger decision

Updated 9:53 PM GMT+1, August 28, 2025

merger ever proposed.





President Donald Trump has fired one of two Democratic members of the U.S. Surface Transportation Board to break a 2-2 tie before the body considers the largest railroad

Board member Robert E. Primus said on LinkedIn that he received an email from the White House Wednesday night terminating the position he has held since he was appointed by Trump in his first term. The vacancy would allow Trump to appoint two additional Republicans to the board before its decision on the Union Pacific-Norfolk Southern merger though the Senate would have to confirm them.

Primus was the only board member to oppose Canadian Pacific's acquisition of Kansas City Southern railroad when it was approved two years ago because he was concerned it would hurt competition. He was named Board chairman last year by former President Joe Biden and led the board until Trump, after his election, elevated Board member Patrick Fuchs to Chairman

July 2025: Union Pacific announces takeover of Norfolk Southern

Union Pacific and Norfolk Southern to create \$250bn US rail giant in biggest deal of the year

Combined operator would be the first to carry cargo from the west coast to the eastern

□ 15 ♣

Oliver Barnes in New York

Published JUL 29 2025

US railroad operator Union Pacific has agreed to acquire Norfolk Southern in the biggest deal of the year, which will create a transcontinental rail juggernaut

The largely stock-based tie-up, which would forge the largest railroad operator in the country with more than 50,000 miles of track across 43 states, comes as the industry grapples with weaker freight volumes as well as high fuel and

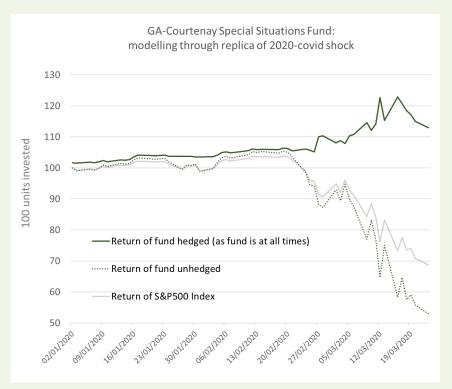
A combination of Union Pacific, which operates west of the Mississippi River, and Norfolk Southern, in the east, would be the first operator in US history capable of carrying goods from the Pacific coast to the Atlantic on its own tracks. It would also help to ease a logjam around the main interchange point

Canadian Pacific - duopoly Canada railroads and a monopoly Canada-to-Mexico railroad

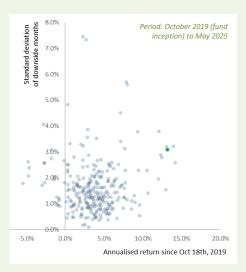


Positive carry protection designed to deliver advantageous risk and de-correlation metrics; SSF targets a downside-aware, strong performance trajectory

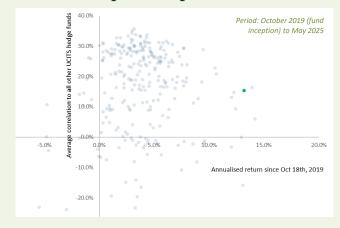
Put option protection designed to insulate fund from market shocks: S&P500 puts purchased sufficient to protect fund against extreme developments (below, modelling through repeat of 2020 covid shock)



Returns relative to risk: on a Sortino Ratio basis (return/down months SD), SSF ranks in the top one third (26th percentile) of all UCITS funds



De-correlation from other funds: below average correlation to other UCITS funds and as such SSF also acts as a powerful portfolio *de-correlator*



Opportunities to partner with GA-Courtenay Special Situations Fund

Product

GA-Courtenay Special Situations Fund:

Opportunity

The GA-Courtenay Special Situations Fund remains a unique product proposition amongst UCITS hedge funds:

- Explicit focus on monopolistic businesses, formidable barriers to entry, long term growth tailwinds
- Ability to safely leverage equity book
- Product downside protection using S&P500 options, allowing product to target double digit percentage returns whilst significantly mitigating impacts from market shock scenarios
- No long-term performance drag from holding S&P500 put options, put option decay cost paid for by merger arbitrage yield
- Builds on Adrian's more than 20 year special situations career experience and more than 6 years in overseeing GA-Courtenay Special Situations Fund

Concentrated segregated accounts

our flagship UCITS hedge fund

GreenAsh Partners is also able to provide concentrated segregated accounts focused on individual or a selection of positions held by GA-Courtenay Special Situations Fund, alongside bespoke hedge structures. Please contact us for further information.

Seeder class opportunity for focused offshore GA-Courtenay Fund

GreenAsh Partners is also in a position to agree selective seeder share class commitments for a prospective, focused offshore GA-Courtenay Special Situations Fund. Please contact us for further information.

The fund's website provides comprehensive additional information

www.greenash-partners-courtenay.com | info@greenash-partners.com

Fund strategy related white papers





Stock specific deep dives

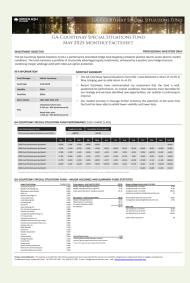




Comprehensive fund document PDFs

DEALING
± GA-Courtenay Special Situations Fund - Dealing Form (US investors)
KEY INVESTOR INFORMATION DOCUMENTS (KIIDS)
± KIID GBP Institutional
± KIID GBP Retail
* KIID EUR Institutional
± KIID EUR Retail
± KIID USD Institutional
* KIID USD Retail
± KIID CHF Institutional
± KIID CHF Retail
PROSPECTUS
± GA-Courterary Special Situations Fund parent entity prospectus (September 2023)
★ GA-Courtenay Special Situations Fund parent entity prospectus supplement relating to sub-fund (October 202)
${\color{red} \pm} GA-Courtenay Special Situations Fund parent entity prospectus addendum change of IM relating to sub-fund (when the contract of the contract o$
EUROPEAN MIFID TEMPLATE (EMT)

Monthly factsheets



Video presentations include quarterly webinars and event presentations



Fund manager interviews

driven UCITS hedge fund over the trailing five-year period.



Links to publically disclosed shareholder activism

O3 Mining investor knocks Agnico offer

Adrian Courtenay
GREEN ASH PARTNERS

#SOHNMC

Erástici. Immerc. The Institutent Miner | Namey 17, 2005 | 1938 per Materias News Jose Commercias Cassala Castl A minority shareholder in O3 Mining (TSXV: OIII) is urging Agnico Eagle Mines (TSX: AEM, NYSE: AEM) to sweeten its all-cash offer for the company, saying the current proposal significantly undervalues the owner of Quebec's Marban Alliance project.

Agnico, the second-largest gold miner by stock market value, agreed to acquire O3 last month for about C\$204 million in a deal that values the company's shares at C\$167 apiece – a 59% premium to 03 Mining's closing price on the day before the bid was disclosed. A special committee of independent O3 directors unanimously recommended that the company accept Agnico's offer, which expires Jan. 23 at 1159 a.m. (EST).

"We are perplexed at what appears to be the deeply discounted valuation of the proposed takeover of O3 Mining and a pricing level which may deliver no material advantage to Agnico Eagle," Adrian Courtenay, fund manager and managing director at London-based GreenAsh Partners, said in a statement Friday.

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