

# KALKINE MEDIA MAGAZINE

January 2023



**World Cup 2022,  
a record-setting event**

**Resources outlook for 2023  
and beyond...**

**Five most popular movers  
and shakers of 2022**

# ABOUT KALKINE GROUP

Kalkine Group is a prominent name in the subscription sales & media lines of business. A renowned equity market research, investor relations, and media house firm, Kalkine Group caters to the share markets of Australia, the UK, Canada, the United States, and New Zealand. The company is also eyeing the growing Ireland market.

Kalkine Media provides trending and live news articles about listed companies belonging to diverse sectors and market commentaries. Interestingly, Kalkine Media also operates on the model of Advertiser – a Publisher firm under its B2B umbrella, providing a dedicated platform to the subscribed clients to leverage various offerings like exclusive banners, sponsored article coverages, videos, and podcasts.

Periodic investor-focused events and webinars provide a crucial platform to several listed players/private companies to present their business vision amidst broader industrial landscape and interact with a core audience including Brokers, Fund Managers/ SMSF Investor Managers, Sophisticated Investors, Senior Business Executives, and Retail Investors.

# TEAM KALKINE MEDIA

Team Kalkine Media comprises specialists, including equity, currency, commodity, and economic analysts providing in-depth and unbiased up-to-date analysis. The team of analysts, sector-specific journalists and editors has hands on experience in developing industry breaking and trending equity and economic news. The team strives to work on the vision of establishing a strong foothold, primarily as a reliable media firm.



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# KUNAL SAWHNEY

Founder & CEO



**Kunal Sawhney** is the Founder & CEO at Kalkine Group and is a richly experienced and accomplished financial professional with a wealth of knowledge in the Australian equities market. His knowledge, skillset and vision provided all the perfect ingredients required to start one of the fastest growing equity market research firms across Australia. This was further supported by the aim of channelising energy and enthusiasm towards the stock market into a leading media research firm.



# KALKINE GROUP FOOTPRINT



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# Note From The EDITOR

*It is time to bid farewell to 2022 and welcome the new year as the calendar flips. As I write the editor's note for the January 2023 edition, I can't help but look back and wonder, where did 2022 go? So, in this edition, let us look back at the year gone by and explore new opportunities for the coming year. From the record-setting FIFA World Cup 2022, the biggest crypto lessons, movers and shakers of 2022, to the outlook and opportunities for 2023, we have it all covered. It's time to raise curtains on the January issue!*

*Let us cast a glance at the memorable moments of the FIFA World Cup 2022, from the exploits of Morocco to one of the most exciting title clashes in recent memory, which will forever be etched in the memories of soccer fans. The historic moment saw Lionel Messi lifting the cup in his farewell World Cup match to guide Argentina to its third title triumph.*

*There is still no clarity on how cryptocurrencies will establish their utility beyond speculative trading. Big names like Voyager, FTX, Terra, and Celsius collapsed in 2022, showing the crypto world's vulnerability and the high risks that backers are exposed to. Bitcoin, despite being legal tender in some countries, fell from grace last year,*

*causing deep losses to crypto backers. Bitcoin's example was enough for enthusiasts to prefer due diligence to any impulsive investment decision.*

*Kalkine Media also features its valued clients- Carbonxt (ASX:CG1) and Cynata Therapeutics (ASX:CYP)- in the January issue. In recent times, there has been a sharp rise in demand for technologies that reduce pollutants emitted during industrial processes. Carbonxt (ASX:CG1), a US-focused cleantech company, believes it is at the forefront of this market with existing products and a pipeline of exciting new technologies. In the issue, we also explore how Carbonxt is opening the door to growth. On the other hand, an Australian clinical-stage biotechnology company, Cynata Therapeutics, specialising in cell therapeutics, is developing Cymerus™, a type of therapeutic stem cell platform technology. Let us explore how Cynata Therapeutics' Cymerus™ technology is helping in the fight against serious diseases.*

*In the current age of digital advancement, the education sector largely remains untouched. If you are looking for an e-learning platform that is convenient, accessible, and affordable, you can stop searching. Kal-Edtech+*



*is here to bring you various courses with immense learning value and high applicability in daily life. The January issue gives a quick glance at basic-level courses by Kal-Edtech+ that you can pursue in the new year.*

*There has been a rising awareness about the United Nations Sustainable Development Goals to limit global warming from causing irreversible damage. Keeping the future in mind, here we look at the contribution of various natural resources in meeting the targets, including their demand and supply.*

*Besides grim economic statistics, the year gone by was also full of surprises. It gave us memories which would be etched on Australians' minds for a long time. There were people who, through their outstanding achievements, helped*

*Aussies forget everything negative and feel elated. While the year saw Swiss tennis ace Roger Federer bidding farewell to his illustrious career, it also witnessed Elon Musk hitting the headlines for the changes he introduced to Twitter. In one of the magazine pieces, you will read about the five most dominant personalities of 2022, including Australians, who impacted sports, politics, and the corporate world.*

*We at Kalkine Group wish all our readers a healthy and happy 2023. We are delighted to offer you the Kalkine Media Magazine for another year. We hope 2023 will be a great year for you, your family, and Kalkine Group. Have a rewarding New Year with Kalkine Media!*

*Stay Apprised, Invest Wise!*



*Kiara Khanna*



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In 2022, some of the most dominant personalities, including Australians, impacted sports, politics, and the corporate world and helped Aussies wrap up the year with unforgettable memories.







# 01

## FIFA WORLD CUP 2022, A RECORD-SETTING EVENT



By: Subhanjan Dasgupta

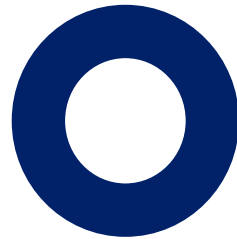






Image source: © Moniatd10 | Megapixl.com

**D**ecember 2022 saw the FIFA World Cup final being played out in front of an enthralled global audience. The event was memorable for several reasons as a number of records were set. From one of the most exciting finals in World

Cup history and Messi finally lifting the cup to Morocco's heroics, the tournament had fans worldwide glued to their screens.

Here, we recapitulate some exciting moments, interesting features, and the records set at the World Cup 2022.

## The group stage

Qatar became the first Arab nation to host a World Cup, which was also the first FIFA event to be hosted in the winter. Saudi Arabia won their first-ever World Cup opening match when they beat eventual champions Argentina.

Lionel Messi became the first Argentinian to score in four World Cups, overtaking Maradona, and the first men's player to make an assist in five World Cups. Messi showed why he is the most sought-after soccer player in the world when he drilled a shot into the bottom left corner of the goal in a match against Mexico.

While Messi was at his best, his

Portuguese counterpart Cristiano Ronaldo proved he was not far behind. Ronaldo became the first men's player to score in five successive World Cups when he scored against Ghana.

However, the goal of the tournament came from Brazilian forward Richarlison. In a match against Serbia, he scored with a spectacular overhead shot.

The group stage witnessed a number of upsets. Other than Saudi Arabia's beating of Argentina, Japan upset Germany and Spain, and Tunisia downed France. Along with them, one of the most memorable upsets was

Ghana's hard-fought victory against South Korea.

There were a number of nail-biting moments, including Son Heung-min's inspired run and through-ball to put Hwang through on goal in South Korea's dramatic last-minute win over Portugal. And who can forget the thrilling encounter of Group E, in which, at one point, both Spain and Germany were on the verge of exit from the tournament.

Finally, Japanese fans' efforts to clean up area near their seats

during Japan's matches drew global attention. They displayed how spectators can show gratitude towards hosts.

## The knockout stage

This was the first knockout stage of any edition of the quadrennial event to feature participants from all the inhabited continents, and it had its fair share of excitement. Morocco sent Spain packing in a Round of 16 match after holding out doggedly through regulation play and extra time and beating the giants on penalty kicks.

Image source: © Freepik.com





It was a precursor to Morocco's best-ever World Cup campaign, where they went on to become the first African team to reach semi-finals, beating favourites like Belgium, Spain, and Portugal along the way.

The Netherlands scored a spectacular goal against the USA, a goal that involved almost all 11 Dutch players in a sweeping move, and which will be remembered in the folklore of the World Cup for a long time. The Dutch would also produce a cliffhanger in their quarter-final face-off against Argentina in what has since come to be known as 'the Battle of Lusail' because of the feisty nature of the last 20 minutes and extra time, and

## Messi vs. Mbappe

The final of World Cup 2022 has been described by many football pundits as the best final ever of a FIFA event. Although the French began timidly and the Argentinians were dogged and calculated, with an inspired Messi pulling the strings, the match came alive in the latter part of the second half when Mbappe seemed determined to drag his team to a second consecutive cup victory, converting a penalty astutely and scoring a sublime volley to bring France level with Argentina at 2-2. Extra-time mirrored regulation time, with Argentina taking the lead. But Mbappe converted another penalty to bring France back. With the final scores levelled, came penalties, which would decide the fate of the winner and keep fans on

the scuffle that the two teams were involved in at the end of the match.

Despite Neymar's superb performance, conjuring an enchanting web of link-up play in the middle of the pitch that led to an extra time lead for Brazil, Livakovic's heroics as a goalie would see Croatia knock Brazil out of the fourth World Cup quarter-final in the last five editions.

Argentina and France both produced convincing displays in their knockout games, with Messi and Mbappe grabbing the headlines with their match-winning displays. And the final would prove to be a Messi vs. Mbappe show.

the edge of their seats. Mbappe and Messi lived up to expectations as they converted their respective penalties; however, French players missed two of theirs, while Argentina converted four to become world champions. Mbappe was in tears, and Messi, the little magician and one of the greatest footballers ever, following in the footsteps of Maradona, had finally managed to guide Argentina to the title triumph after 36 years. It was a sheer coincidence that the last time Argentina laid their hands on the World Cup trophy in 1986, Diego Maradona was the star. Maradona passed away in 2020. But this time Messi filled in the shoes of his idol Maradona to take his nation to a victorious feat.

# 02

## INSIGHTS FROM TWO LEADING COMPANIES

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# IN DEPTH: HOW CARBONXT (ASX:CG1) IS OPENING THE DOOR TO GROWTH



By Manisha



Image source: © VectorMine | Megapixl.com

In recent times, there has been a sharp rise in demand for technologies that reduce pollutants emitted during industrial processes.

Carbonxt (ASX:CG1), a US-focused cleantech company, believes it is at the forefront of this market with existing products and a pipeline of exciting new technologies. The cleantech company develops and markets activated carbon (AC) and powdered AC pellets for application

in wastewater treatment, industrial air purification, and several gas and liquid phase markets.

Of late, there have been multiple instances where entities, governments and water treatment facilities have approached Carbonxt for its product samples, pilots and/or testing to meet current and upcoming regulations. The company highlights that the US currently has no domestic pellet manufacturing capacity.

## Carbonxt elevates its rank as a cleantech player

Carbonxt's reputation has been growing for developing and providing superior environmental solutions and customer service.

Notably, with phenomenal products in its portfolio, the company is catering to the wide estimated\* market of powdered activated carbon and AC pellets (air phase) of US\$250 million and US\$40 million, respectively. Now, it's on the path to delivering and achieving success in the estimated\* addressable market of AC pellets (Liquid Phase) and granular AC worth US\$30 million and US\$500 million, respectively.

Amid this wide opportunity, Carbonxt is operating at near-full capacity at its Arden Hills pellet facility and Black Birch PAC facility.

Moreover, the company understands that the present-day operational facilities need expansion or addition to fulfil the expected demand for its specialised products. In a bid to deliver better and address the growing market, the cleantech company has been putting in persistent efforts for the successful development of its Kentucky Joint Venture (JV) facility.



## Carbonxt expects Kentucky JV facility to be a game-changer

In the second half of 2022, Carbonxt collaborated with Kentucky Carbon Processing, LLC (KCP), to build a new facility in Kentucky with a manufacturing capacity of 20,000 tonnes per annum. As per the agreement, KCP will take care of the new plant's operations, while CG1 will manage activities related to technology and sales.

The manufacturing facility will bring forth an opportunity for Carbonxt to widen the scale and scope of its operations as it will meet the high surface area requirement for higher-quality products.

The ASX-listed company believes that the Kentucky facility will increase production capacity and will bring control over input costs. The new facility will help the company enter into the liquid-phase AC market (water treatment).

With the launch of the Kentucky facility, Carbonxt will be able to enter the GAC market worth US\$400 million\* in North America alone. At present, entering the GAC market is a high priority for the company, which believes that GAC is likely to be the best solution for the clean up of pollutants.

With the US Environmental Protection Agency planning to release new regulations requiring polluting companies to clean up environmental hazards, Carbonxt is expecting wide opportunities in the GAC and ACP markets. Moreover, the company's continued investment in R&D is likely to bring benefits with significant work being expanded on new ACP formulations for domestic and export opportunities.

**\*Please note that the estimated market size is as per the company update released 29 November 2022.**

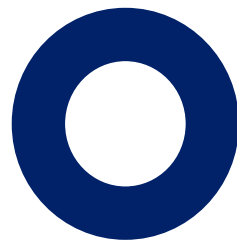


Image source: Company website

# HOW CYNATA THERAPEUTICS' (ASX:CYP) CYMERUS™ TECHNOLOGY IS HELPING IN THE FIGHT AGAINST SERIOUS DISEASES



By Aditi Sarkar



**C**ynata Therapeutics (ASX: CYP), an Australian clinical-stage biotechnology company specialising in cell therapeutics, is developing Cymerus™, the company's proprietary therapeutic stem cell platform technology.

Cynata's Cymerus technology is based on induced pluripotent stem cells (iPSCs) and mesenchymoangioblasts (MCAs), extremely important and adaptable stem cells. MCAs are a precursor to mesenchymal stem (or stromal) cells (MSCs), which are at the forefront of a new generation of treatments being studied for many serious diseases.

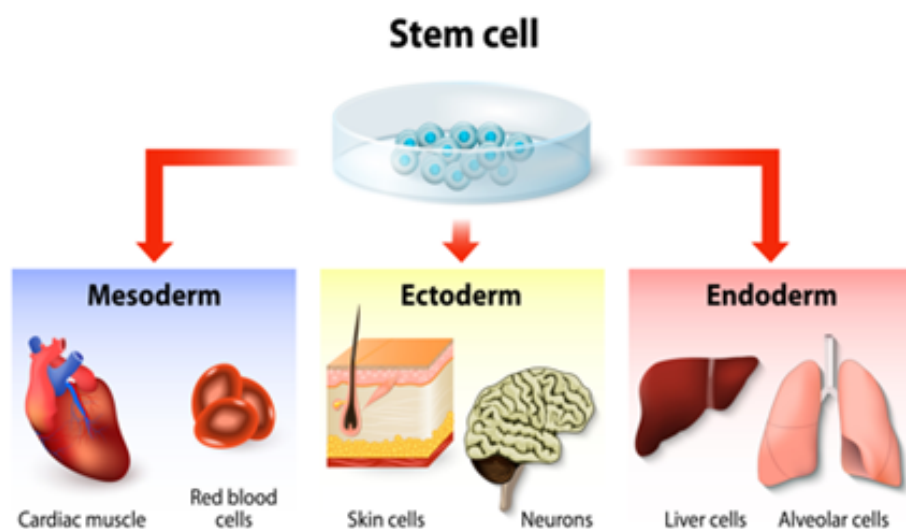
There is growing clinical evidence validating the use of MSCs as a therapeutic modality spanning a wide range of diseases that represent major medical challenges. Further, regulatory bodies in major global markets are becoming more

comfortable with cell therapies. Thus, there is a compelling commercial opportunity for MSC products.

### **Relative advantage of the Cymerus platform**

Cynata leverages the proprietary Cymerus technology to address a critical shortcoming in conventional methods of production of MSCs for therapeutic use. Existing conventional approaches rely on multiple cell donations from multiple donors, a requirement that poses fundamental challenges in achieving consistent and economic production at a commercial scale. This important competitive advantage provides Cynata a wide range of therapeutic and manufacturing possibilities.

**Potency** – Conventional manufacturing technology requires the mandatory expansion of MSCs isolated from donors. It causes a



**Stem cells are specialized cells, capable of renewing themselves through cell division and can differentiate into multi-lineage cells. These cells have the ability of self-renewal, possess varied potency and differentiate into multilineages. Due to clinical applications and biological importance, stem cells have become a prominent subject in modern research era.**

stark reduction in potency while compromising scalability. Conversely, using Cymerus technology, expansion at the iPSC stage ensures fresh, consistent and highly potent MSCs following the final differentiation step.

**Consistency** – Conventional techniques rely on multiple donors and donations. It compromises

product consistency while posing logistical, practical, and regulatory challenges. On the contrary, the Cymerus platform uses the same starting material for every batch.

**Cost** – The cost of treatment is comparatively lower with the Cymerus platform compared to MSCs derived from conventional sources.

## Conventional vs. Cynata's Cymerus MSC manufacturing process

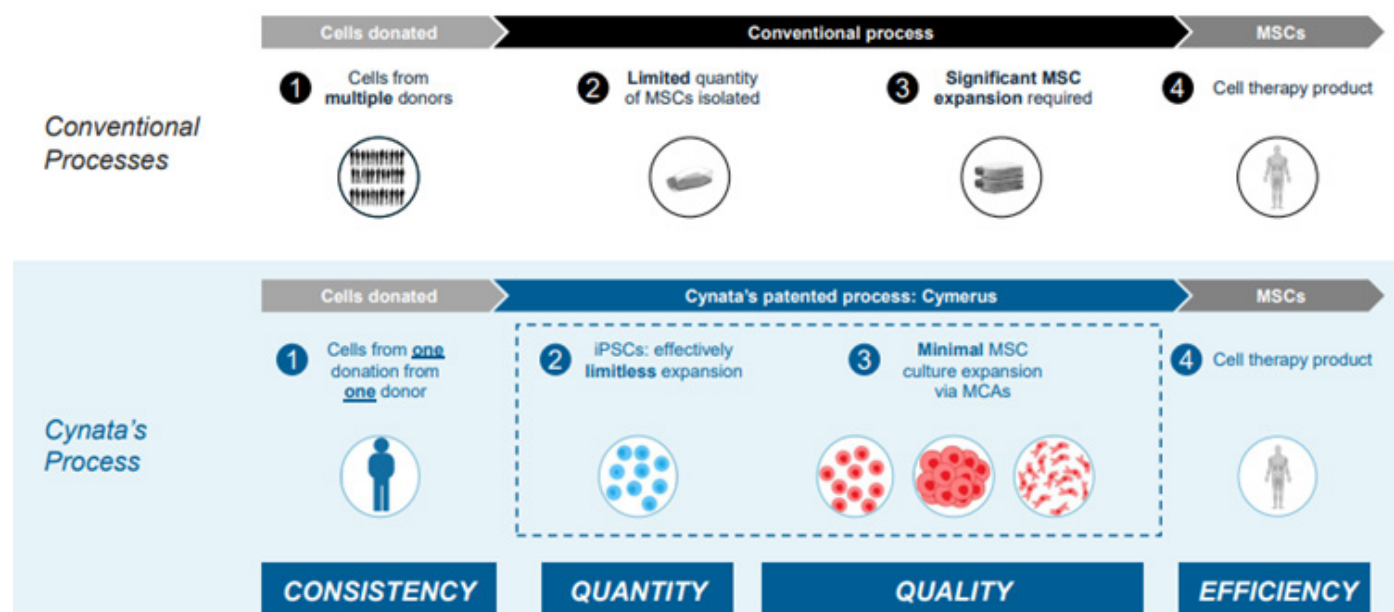


Image source: Company update

## Cynata's product pipeline

Cynata has an advanced and diverse product pipeline with multiple indications at preclinical and clinical stages, with potential market opportunities worth billions of dollars. In its annual report, Cynata reported that the combined market opportunity

of clinical trials underway and in planning stands at ~AU\$38 billion. The target areas at or nearing the clinical trial stage are Osteoarthritis (OA), Diabetic Foot Ulcers (DFU), Graft vs. Host Disease (GvHD), and Renal Transplantation (Renal).



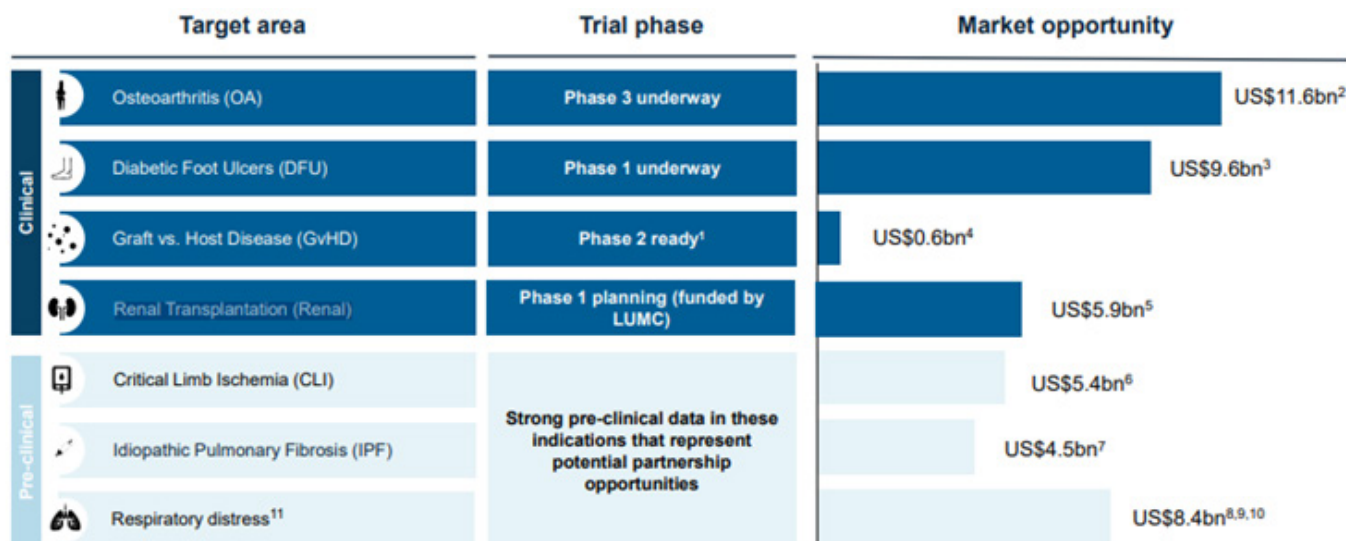
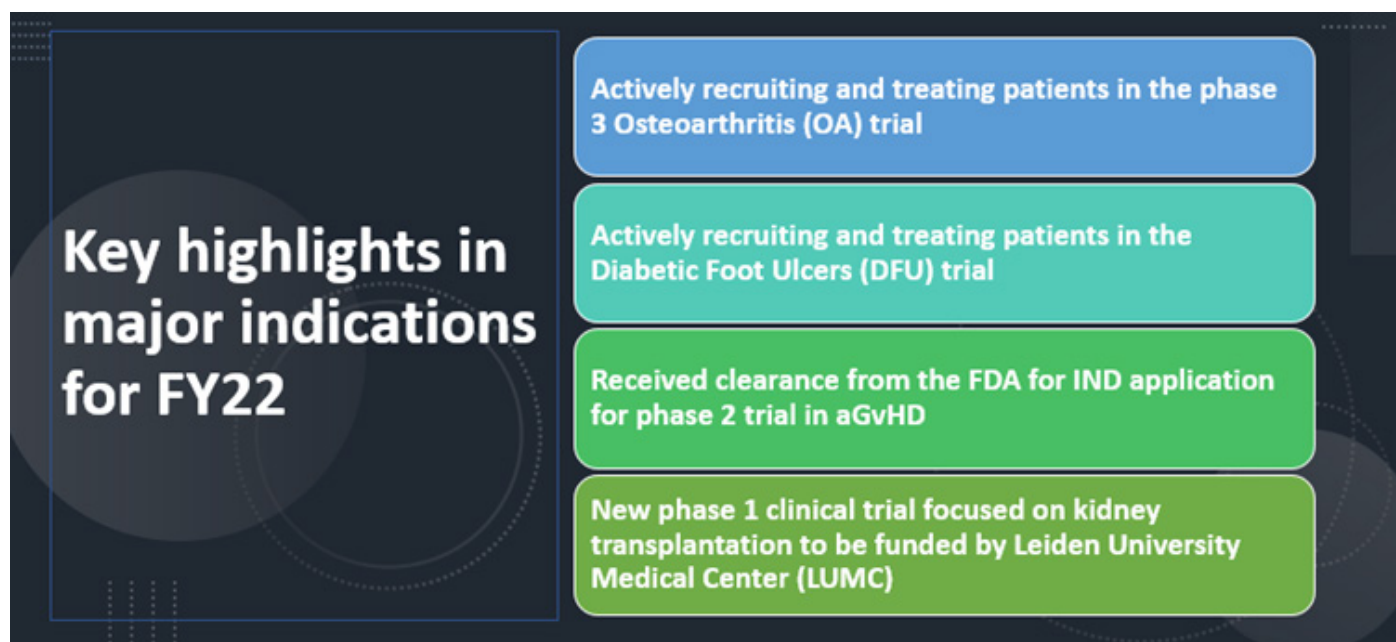


Image source: Company update

## Below are the major highlights from clinical trials in FY22:



Data source: Company update, Image source: © 2023 Krish Capital Pty. Ltd.

# 03

## LESSONS THAT 2022 TAUGHT ABOUT CRYPTOCURRENCIES



By Ankit Sethi





Image source: Pixabay.com

**T**he year 2021 was largely a year to remember for cryptocurrency enthusiasts. Not only Bitcoin, the first such asset to be launched, but even lesser-known assets like Solana (SOL) and Axie Infinity (AXS) gave unexpected returns. SOL and AXS belong to the altcoin category of cryptos, and in the year 2022, both Bitcoin and altcoins booked heavy losses. The plunge in their value was such that the overall market cap of the industry, which touched US\$3 trillion in 2021, fell under US\$1

trillion.

To put things in perspective, it is enough to mention that the market cap of Bitcoin alone was once over US\$1 trillion. With tens of thousands of other assets, including Dogecoin (DOGE) and Ethereum (ETH) suffering losses, the crypto industry dropped below the US\$1 trillion value in 2022. That noted, what are the lessons for the new year? Hereunder are three key takeaways that simply cannot be overlooked in 2023.

## 1. Drop can be too steep to handle

Almost everyone knows that cryptocurrencies are speculative assets, and investment is always exposed to negative returns. But the last year's experience taught even the staunchest crypto backer that the plunge in the value of an investment

can be worse than anticipated. Popular altcoins like Polkadot (DOT), Cardano (ADA), and Shiba Inu (SHIB) lost nearly three-fourths of their value, while losses booked by BTC, ETH, and DOGE were also very high.



Even the global stock market suffered a setback in 2022, but the way cryptos lost their sheen was perhaps unimaginable. It is being said that

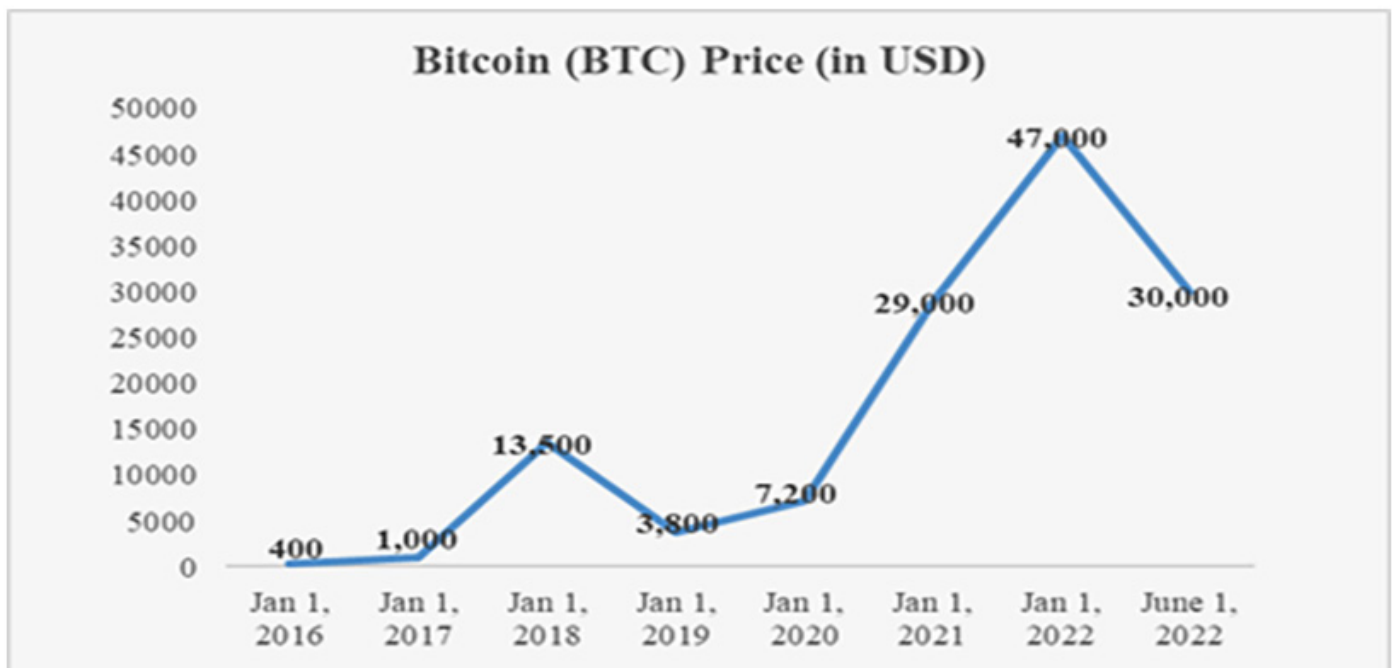
the primary reason behind cryptos' decline in 2022 was apprehensions regarding the real world utility of these assets.

## 2. There is nothing like fixed returns

With the success of blockchain-based digital tokens, many projects promising high returns mushroomed. Surprisingly, these platforms promised to provide fixed returns to depositors who held their crypto assets with them. Platforms like Celsius Network highlighted unbelievably high 'yield rates', but in 2022, crypto enthusiasts learned that high yields and fixed returns are

virtually impossible simply because cryptos are hyper-volatile assets.

The momentum that cryptos gained in 2021 led some to believe promises of high yields, but going forward, any crypto backer would think twice before supporting any such project. The new year could compel more and more backers to perform due diligence to assess the claims of any project.



Data source: CoinMarketCap.com, Image source: © 2023 Krish Capital Pty. Ltd.

## 3. Even formidable names can collapse

There was a string of failures in quick succession in 2022. First, a leading stablecoin project, TerraUSD, shocked the crypto market in May when TerraUSD lost its peg to the US dollar. Bitcoin and many altcoins lost

value in the aftermath. Then, there were bankruptcy filings by the likes of Celsius and Voyager. Eventually, a major exchange, FTX, also filed for bankruptcy. The last year's experience taught enthusiasts that



Image source: © shutterstock

even big projects could crash like a house of cards.

More projects, especially those that might not have enough reserves to back their tokens, are expected to

meet the same fate as Terra in 2023. This can keep people on alert. Even the adoption of Bitcoin as legal tender by a couple of countries could not prevent BTC from losing value.

## Bottom line

Cryptocurrencies are risky, and the year 2022 gave a clear picture of the risks that await any crypto backer. It is, however, not about risks but exceptionally high risks that include losing the entire holding, as we saw

in the case of Terra. The year 2022 showed that big and seemingly formidable platforms like FTX can also collapse. All this shines a light on the importance of due diligence.

***Risk Disclosure: Trading in cryptocurrencies involves high risks including the risk of losing some, or all, of your investment amount, and may not be suitable for all investors. Prices of cryptocurrencies are extremely volatile and may be affected by external factors such as financial, regulatory, or political events. The laws that apply to crypto products (and how a particular crypto product is regulated) may change. Before deciding to trade in financial instrument or cryptocurrencies you should be fully informed of the risks***

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From investing to corporate finance, we have got it all covered. The courses have also been divided into beginner, intermediate and advanced categories to ensure that readers develop the right approach towards their e-learning journey with Kal-Edtech+.



# Basic level courses to get you started in the new year:

## Discover the world of stock market

This course is a perfect choice for investors interested in learning all about stock markets, from the techniques used by skilled investors right down to the functioning of stock markets. The course also highlights the risks and regulations of the stock market and the intricacies of stock price movements.

## Investing through IPO

IPO investing has become one of the most preferred methods to invest in the stock market. However, investors who are still trying to figure out how to begin their investing journey can learn about IPOs through this extensive course.

## Learn the joy of investing

The course has been designed to get readers started on their investing journey. The course covers the basics of putting your money to work and getting the most out of it, keeping the risk and reward setup in mind.

## How to become a successful project manager

A course that has been specifically designed to guide readers on how to execute a well-organised project. It covers essential project management methodologies and the various risks that may present themselves in this process.

## How to plan and prepare for your retirement

Combating retirement finance can be a tricky and highly challenging arena for some individuals. This course aims to impart knowledge on how to build a dependable investment in one's golden days.

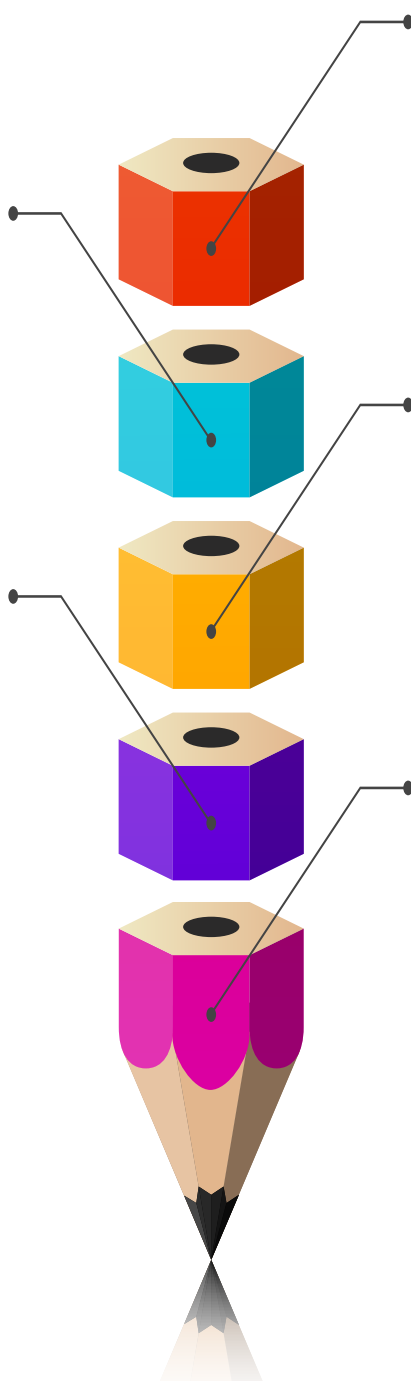


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# 04

## RESOURCES OUTLOOK FOR 2023 AND BEYOND...



By Team Kalkine Media

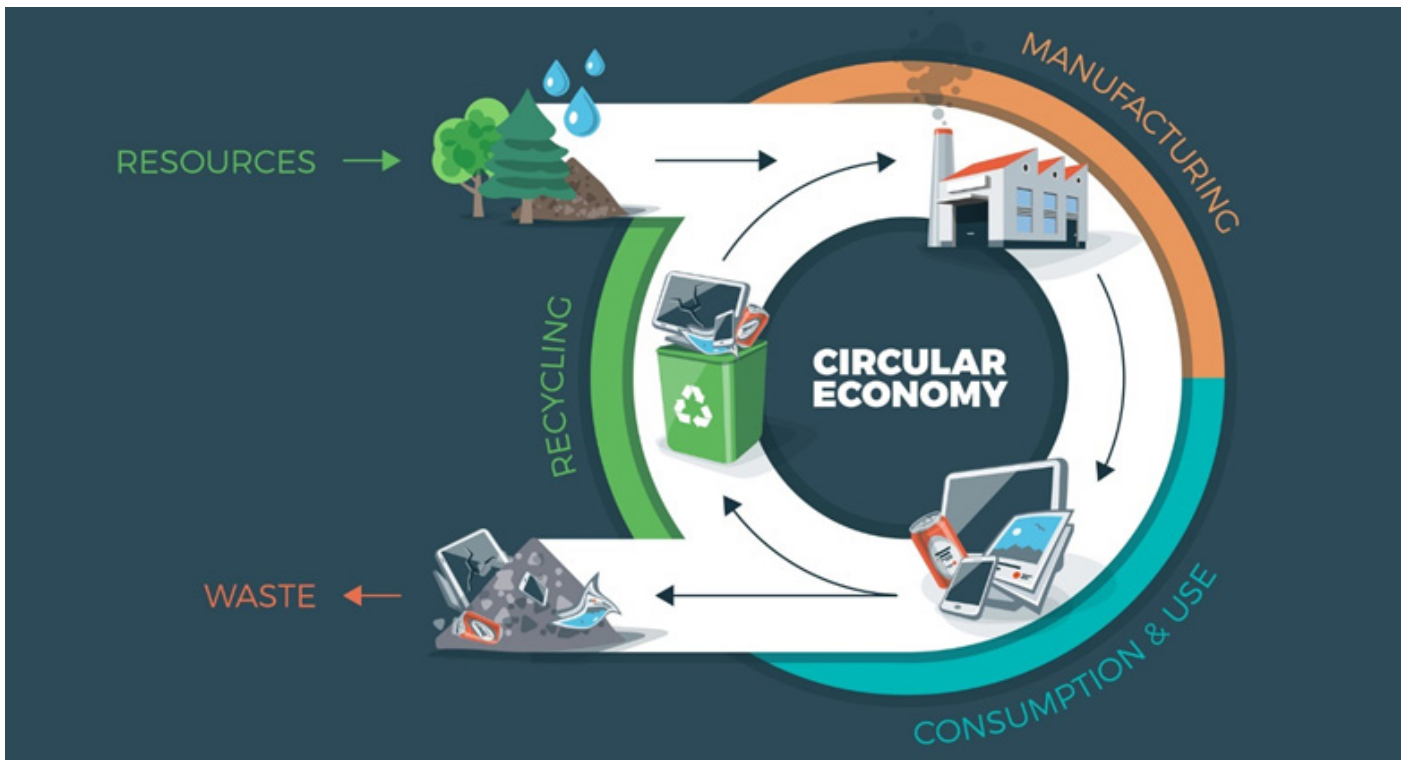


Image source: © Petovarga | Megapixl.com

**T**he world has been utilizing several resources as assets to grow and function efficiently, but the over utilization of resources is gradually derailing the growth by bringing up challenges such as climate change. Recent market trends, economic recovery from COVID-19, Russia-Ukraine war, government policies and geopolitical tensions have impacted the resources as well as their future outlook.

The issue of rising global warming and its aftermath directs the global economy to undergo transition in the resource utilization. The United Nations Sustainable Development Goals provide a framework to limit global warming, but the cooperation from all the member countries is essential.

Let's have a quick glance at the outlook for resources in 2023 and beyond!

## Crude Oil

As per the report of Organization of Petroleum Exporting Countries (OPEC), the world economy for 2023 is predicted to grow by 2.5%. The world oil demand was revised to 2.5 million barrels per day for 2022. But the ongoing political uncertainties, weaker economic activities and zero-COVID-19 policy of China again led to revision in oil demand for the last two quarters of 2022.

For 2023, the global oil demand is expected to be 1.6 million barrels per day as per International Energy Agency (IEA). This is the result of China's weak economic growth, energy crisis in Europe, and strengthening of US dollar. The European Union's ban on imports from Russia reduced the world oil supply. The supply is estimated to be 100.7 million barrels per day in 2023. Diesel markets were impacted even before the Russia's invasion due to the closure of refining capacity since COVID-19. New distillation capacity



of 2.7 million barrels per day is estimated to come online from final quarter of 2022 to the end of 2023.

### Natural Gas

The prices of natural gas have been increasing as the result of falling exports from Russia to Europe. It has disrupted trade and also led to acute fuel shortages in some emerging and developing economies. IEA expects the natural gas markets to remain tight in 2023. The global gas consumption is estimated to grow by 0.4% in 2023 but it is subject to uncertainty. Europe will try to offset the fall in gas supply from Russia by importing liquified natural gas (LNG).

IEA has also provided 10-point plan to reduce reliance on natural gas from Russia. Natural gas demand in North America is also expected to have a slight contraction in 2023 on the backdrop of lower gas consumption in

power generation.

Global LNG is predicted to increase by 20 billion cubic metres in 2023 as the result of ramp-up of Calcasieu Pass LNG plant in US and the Coral South LNG plant in Mozambique. This may not be enough to offset the decline in natural gas supply from Russia to the European Union.

### Metals and Mining Industry

Base metals play a significant role in manufacturing, utilities and construction sectors. The industry is expected to produce 160.19 million metric tonnes of base metals in 2023. Global copper consumption will be driven by development in power production and distribution, replacing ageing infrastructure, integrating renewable power sources.

The global boom in the electric vehicles, wireless technology,



## IEA's 10-point plan to reduce reliance on natural gas from Russia

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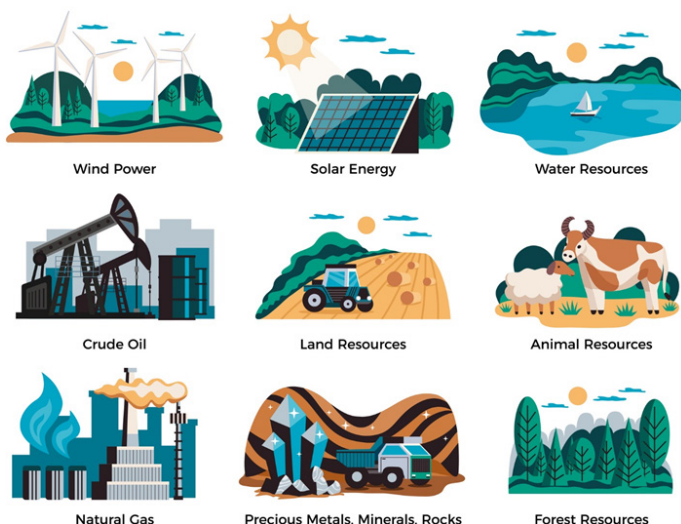


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miniaturization, artificial intelligence, 3D printing etc. will support the metal and mining industry.

In 2023, the expectations around environmental, social and governance, along with climate change, license to operate, geopolitical factors will make an impact on the decisions of metal and mining leaders.

### Battery Metals

Battery metals market is subdivided, based on the applications, into consumer electronics, electric vehicles, energy storage, etc. The governments in various countries are taking initiatives to adopt electric vehicles to reduce the emissions of greenhouse gases. Such policies will support the growth of electric vehicles sector.

The battery metals market might face production challenges for electric vehicles. More disruptions can be caused by China's zero-covid policy to the battery metals related to passenger electric vehicles. If the prices of electric vehicles will rise it will create a demand constraint in the sector.

Lithium supply will remain tight while the demand will continue to be bullish on the back of faster adoption of electric vehicles. The prices of lithium will likely see strong support in 2023 as per industry experts.

### Renewable Energy

The target of net-zero emissions by 2050 can only be achieved by reducing the current emissions by half by 2030. This will limit the global rise in temperature to 1.5 degrees. A lot of investment needs to be made in the renewable energy sector. The United Nations estimates that 90% of the electricity demand can be produced from renewable energy by 2050. It will help in attaining decarbonization and mitigating climate change.

As per a UN report on climate change, the clean energy sector can create around 14 million jobs by 2030. Approximately, US\$4 trillion needs to be invested in renewable energy each year till 2030. These will be paid off easily as we can save around US\$4.2 trillion per year by reducing pollution and its climate impacts.

### CO2 Capture and Utilisation

Enhanced oil recovery uses 80 Mt of CO2 every year, but the plans are underway to target CO2 uses in fuels, chemicals and building aggregates.

By 2030, 5Mt of CO2 per year can be captured for production of synthetic fuels. To achieve net-zero emissions by 2030, 7.5 Mt CO2 needs to be used for synthetic fuel production.

# Five most popular movers and shakers of 2022

# 2022

## ROGER FEDERER



One of the 'Big Three' of the game of tennis, Roger Federer is one of the world's most beloved sportspersons. Rafael Nadal and Novak Djokovic must have eclipsed Federer's record of the most singles Grand Slam titles, but the charisma and simplicity that Federer brought to the game remain unmatched. His on-court rivalry with Nadal, which saw both lock horns on 40 occasions, kept spectators glued to the sport. In fact, the everlasting memory of his retirement match was a weeping Nadal, who knew that an era was coming to an end.

Federer, who shares the popular term 'Fedal' with Nadal, was once a ball boy who showed early glimpses of his immense potential by winning the Wimbledon junior

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championships. It was a precursor to his exemplary career at the senior stage. He retired at 41, two decades after winning his first major singles title (Wimbledon). Federer's career was a mix of achievements and setbacks (due to injuries), which are part and parcel of the game and serve as examples for every sportsperson looking for glory at the highest level.

## ANTHONY ALBANESE



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Anthony Albanese added a chapter to the history of Australia when he became the first Italian-Australian to be sworn in as the Australian PM. The 59-year-old veteran politician is also the first PM with a non-Anglo Celtic last name. As the 31st Australian PM, he assumed office in May.

In fact, world politics has been more inclusive in the past few years. After Kamala Harris became the first woman vice president of the US in 2021, Rishi Sunak became the first non-white prime minister of the UK in 2022.

Albanese seeks to introduce multiple reforms, one of which is achieving carbon neutrality by 2050. The Labour Party PM came up with new Nationally Determined Contribution (NDC) targets to achieve the country's climate goals, and a supporting law has also been enacted. He favours a higher minimum wage, has created an anti-corruption commission and pledged support for war-torn Ukraine. It will be interesting to see how he lives up to his promises in the new year.

# MIKE CANNON-BROOKES



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Musk style, but it was his commitment to decarbonisation that elevated his status during the year. Known as the 'accidental billionaire', Cannon-Brookes is the co-founder of Atlassian, a software company. It was his role at energy company AGL, the country's biggest carbon emitter, which made us include him in our list of five personalities.

During the year, Cannon-Brookes, who holds the biggest shareholding (single shareholder) in AGL, forced the company to change its course. 'Wow. A huge day for Australia' was his tweet when the company ditched the demerger plan, which would have split its generation and retail verticals. Cannon-Brookes had said that the demerger move could delay the shutdown of AGL's coal-run power plants. Recently, he also succeeded in having his choice of directors on AGL's board.

Mike Cannon-Brookes ruled the Australian corporate landscape in 2022. It was not that he sought to acquire a new company in Elon

# ELON MUSK

The world's richest man, the CEO of spacecraft maker SpaceX and EV maker Tesla, made 2022 more interesting by dilly-dallying and then agreeing to take over Twitter. The micro-blogging company is one of the most popular websites globally, and Musk said he wanted to rid it of fake news. The takeover battle reached the court before Musk decided to pay US\$44 billion to acquire the company.



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But a string of changes as soon as he took over, including monetising aspects like verified account badges and large-scale layoffs, put the spotlight on him and Twitter. Some people also believe that Musk's style of governance compelled other corporate leaders to consider and implement similar cost-cutting measures. In fact, Musk is most likely to grab headlines in 2023 for the new shifts he is set to introduce in the company.

## SAM BANKMAN- FRIED



S. Bankman-Fried on a US Senate hearing in Feb. 9, 2022 | © C-SPAN

Cryptocurrencies, including Bitcoin, drew attention in 2020 when most of them started gaining unprecedented growth. Despite the risk-factor involved with them, Bitcoin (BTC), Ethereum (ETH), and Dogecoin (DOGE) witnessed the kind of success that deserved multiple case studies. Come 2022, and the glitter faded as fast as it

came. Crypto enthusiasts were in for a rude shock when the multi-billion dollar cryptocurrency exchange FTX collapsed in a short period. Its CEO Sam Bankman-Fried, who was seen as a wunderkind of digital currencies on Wall Street, became the biggest villain of the crypto world.

The fall of the CEO was even more frightening. Bankman-Fried was on the list of the wealthiest people, but his fortune evaporated in no time. The decline was so sharp that it was the largest-ever single-day drop in the Bloomberg Billionaires Index. The 30-year-old recently claimed that he was left with little money. He is facing multiple criminal charges, and FTX has filed for bankruptcy. Bankman-Fried was arrested in the Bahamas and can be extradited to the US. The episode added a chapter to the downsizing of the cryptocurrency world in 2022.

The above five personalities, from sports to politics to the corporate world, were definitely headline-makers in 2022. Some of these are likely to continue to play a decisive role in their respective fields this year as well. Here at Kalkine, we hope the new year brings more prosperity to people's lives.



## Previous Versions



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