FINANCIAL TIMES



A chance to make the World Bank greener

Politicians should resist the urge to be daring

Putin imperils post-cold war order by freezing nuclear arms treaty with US

◆ Halt called on New Start pact ◆ Biden counters with Warsaw speech ◆ EU warns on heightened risk

FELCIA SCHWARTZ — WARSAW
Valainir Putin has said Russis will uspend its remaining nuclear weapons
pend its remaining nuclear weapons
calls said spelt the end of the post-cold
war arm sontrol reigne.

In a state-of-the-nation address
ahead of the anniversary of his invasion
of Ulraine, the Russian president said
Moscow would freeze its participation
in the New Start agreement with Washington that limits the number of the
vocuntries' deployed strategic nuclear
weapons.

ington that limits the number of the two countries' deployed strategic nuclear work of the countries' deployed strategic nuclear work of the countries' deployed strategic nuclear work of the countries and the countries of the c

was taming decomply with the Zois treaty after a breakdown in talks os, called during the peak of the pandemic. Moscow's supersision of the treaty means it will share less information with the US on its unclear asrenal, though Russia's foreign ministry later said some notifications would continue. Russia has said talks on the treaty, which is due to expire in 2026, are unlikely to resume unless the west agrees to hold negotiations on Ukraine without Kyiv's participation, which the US has called unacceptable. Putin also hinted at resuming nuclear tests, though he claimed Russia would only do so in response to the US. "If the



US conducts tests, then so will we. Nobody should have any illusions that global strategic parity can be destroyed," he said. But he did not repeat veiled threats to use nuclear weapons against the west or Ukraine.

Putin's speech was intended to demonstrate Moscow's resolve, despite the



An FT investigation has found that sanctions against Yevgeny Prigozhin, Wagner mercenary group founder, failed to stop his generating revenues of more than a quarter of a billion dollars from oil, gas, diamond and gold extraction in the years prior to the Russian invasion of Ukraine. Wagner chief, Page 2

failure of its initial blitzkrieg plan in
Ukraine and the devastating losses Russia has suffered. "This is about the very
existence of our country," buttin a defined on the battlefields of Ukraine.

Listence for country, "Puttin and different in all opstoned Puttinand Referring to the west he added." They're
the ones who started the war. We are
using force to stop!."

In Biden! own set-force speech, delivIn Biden! own set-force some a setsize of the set-of-thecear this attempted ammexation of
four Ukrainian provinces backfired! disIn apparent acknowledgment of his
In apparent acknow

► Israel central bank clash Ultranationalist finance minister Bezalel Smotrich has vowed to maintain the independence of the bank after criticism of its rate rises. — PAGE 4; MARTIN WOLF, PAGE 17

The Canadian mining group has said it will split off the business to focus on metals that are vital for lower-carbon energy, completing a shift out of fossil fuels.— PAGE B

View from Ukraine



Australia	A\$7.000inc GST
China	RMB30
Hong Kong	HK\$3
India	Rup220
Indonesia	Rp45,000
Japan	¥650(inc JCT)
Korea	W4,500
Malaysia	RM11.50
Pakistan	Rupee 350
Philippines	Peso 140
Singapore	S\$5.80(inc GST)
Talwan	NT\$140
Thailand	Bht140

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SEC fines Mormon church over effort to conceal part of \$100bn investment

The Mormon church and a non-profit organisation that manages its \$32bn equity portfolio have been fined by the US Securities and Exchange Commission over attempts to conceal the true value of the investments.

value of the investments.

Ensign Peak Advisers, the firm owned by the Church of Jesus Christ of Latterday Saints (LDS), set up more than a dozen shel companies to help hind the size of the church's portfolio, according before the control of the church's portfolio, according before the control of the church's portfolio, according before the church's portfolio, ac

City-based adviser invests in a range of assets, including stocks, bonds and real estate, but little else is known about its operations. "We allege that the LDS church's

We allege that the LDS church's investment manager, with the church's knowledge, went to great lengths to avoid disclosing the church's investments, depriving the commission and the investing public of accurate market information," said Gurbir Crewal, director of the SEC enforcement division. Ensign has agreed to pay 54m no test-the charges while the church will pay 51mn. Neither has admitted to any wrongsloing.

World Markets

nies, rather than Ensign, filed 13F forms, according to the regulator. "Ensign Peak developed its approach to filing forms 13F in the names of these LLCs with the knowledge and approval of the church, which sought to avoid dis-closure of the amount and nature of its assets." the order stated

The SEC pointed to interactions between Ensign and senior church leaders, including a plea for Ensign "to ensure that neither the Street" nor the modal could connect the new entity to Ensign Peak. Ensign every seed concern that the shell companies could "attract. The church said Ensign "received and relied upon legal counsel regarding how to comply with its eporting obligations while attempting to maintain the privacy of the portfolio," adding that it regretted "mistakes made".



INVASION: FIRST ANNIVERSARY

Biden vows Putin will 'never' win in Ukraine

US president warns allies 'bitter' fight lies ahead in defence of democracy

FELICIA SCHWARTZ — WARSAW

a victory for Russia," Biden said.

"Never."

world we're trying to build and defend should look like."

The event had the feel of a campaign. The event had the feel of a campaign. The event had the feel of a campaign and the state of the state of the state of the feel of the state of

International support

Kyiv yet to receive more than half of west's €64bn pledged aid

DARIA MOSOLOVA — LONDON ROMAN OLEARCHYK — KYIV

Less than half of the financial aid pledged to Ukraine by the west has actually reached Kyiv since Russia's invasion last year, according to analysis of international support.

of international support.

Ukraine's finance ministry received
C3Ibn by December 2022 of the €64bn
C3Ibn by December 2022 of the €64bn
Received Finance Carlo Carlo Carlo Carlo
Ferra Russia hunched Its full-cale attack tarBerburary, research by the Kiel Institute
for the World Economy has found.

"There is a problem with disbursements in that they are volatile, delayed
and not stable," said Tymofiy
Mylovanov, founder of the Kyiv School
G'Economics and an advise in Ukrainian president Wolodymyr Zelenskyy's
administration.

ian president Volodymyr Zeienssyy 3 daministration. The EU and the European Investment Bank have together pledged about C30bn in total since the invasion began, the biggest share of the west 5 budgetary support to Ukraine. However, C175bn of this sum has yet to reach Kyiv. The situation was worst last summer when a lot was promised but not much delivered, 'said Mylowon, adding that the trend was set to improve this year. The EU overhauled the payout struc-ture for its package last November, promising "regular and predictable inancial assistance" of up to C18bn for 2023, at a rate of about C1.5bn each month.

2023, at a rate of about \$4.50m ea.m.

The Ukrainian finance ministry said its budget deficit hast year amounted to the budget and the said that the said th

sap that Kytv sought to fill by printing more mone," which in turn had a negative consequence." The ministry said it projected a deficit of \$358n for this year, lower than in 2022, and that its priority was to attract funds from donor countries and international functional institutions. The action of the control of the

Russia. Mercenary group

Wagner chief's cash rolls in despite sanctions

Revenues from Prigozhin's businesses help Putin ally

become powerful warlord

MILES JOHNSON - LONDON

MILES JOHNSON — LONDON
Russian mercenary leader Yevgeny
Prigozhin generated revenues of more
than a quarter of a billion dollars from
his global natural resources empire in
the four years before Moscow's invasion
of Ukraine, according to corporate
records.

records.
A Financial Times investigation has found that years of western sanctions against the Wagner mercenary group's founder failed to stop hundreds of millions flowing to Prigorbin from oil, gas, diamond and gold extraction. Wagner has been accused of human rights absess including murder, torture which the stop the state of the work of



Russian catering and property businesses, which have received large state contracts and account for

ing it in 2014 and appeared in a video recruiting fighters in a Russian penal occurrent to the property of the

That represented a return on equity of 180 per cent, which was repatriated to Russia. In December 2021, two months before the invasion, the company

untillast year, when admitted founding it in 2014 and appeared in a videor recruiting fighters in a Russian penal colony.

Yet while Prigozhin, who was first placed under sanction by the US in December 2016 and put on the FB1's most wanted list in 2021, came under some young servatiny from western governions wanted list in 2021, came under some size far smaller but have continued to most wanted list in 2021, came under some size of the prigozhin mercenary operations when the proposition of the prigozhin mercenary operations with the company hat was awared and the Middle East.

In 2018 the US government placed under sanction in Four polis, a Prigozhin-controlled company that was awared energy concessions by Syrian president Bashar al-Assat in return for Wagnerbashar al-Assat in return for Wagnerbashar al-Assat in return for Wagner-mercenaries liberating olifiedds from lists during the country's civil war.

Evro Polis's accounts show that the sanctions had limited effect on its operations, with the company going on in 2020 to generate sales of \$154m, and 2020 to generat

any

against me

absolutely and I will sanctions'

The analysis of Wagner-backed natu-ral resources companies is based on their most recently available accounts up to December 2021. The revenues and profits declared by these companies in Russia have been converted back to dol-lars from the rouble at current exchange

lars from the rouble at current exchange rates.

Prigodhin, in response to a recent FT article about his business activities and sanctions evasion, wrote on his Concord catering group's Telegram channel: 'I consider any sanctions against me, PMC Wagner, as well as any legal entities and individuals of the Russian Federation, to be about they light; 1... 1 spit and I will spit on any sanctions.

And the spit of the spit of

FT FINANCIAL TIMES FTWeekend -FINANCIAL TIMES MAKE A WISE INVESTMENT

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EU weighs using budget to speed up arms supplies for ally

Brussels is drawing up a proposal to use the EU budget to pre-finance purchases of weapons and ammunition, in what would be an unprecedented foray into the defence industry designed to speed up arms supplies to Ukraine.

The European Commission is exploring how it could leverage the bloc's budget

Low it would deverage the block bodge to provide downsyments to arms manufacturers in order to spur increased production, people briefed on the plans told the Financial Times. The plans come in response to concerns over whether Europe can produce armsments as fast as Kyvis sonsuming them in its defence against Russian aggression. A final commission proposal is set to be totaled among the EU 2.7 To when the contraction of the Commission of t

a quarter of that.
In response, EU capitals have backed
plans for joint procurement contracts to
streamline defence orders and encourage manufacturers to expand production, such as an Estonian proposal for
countries to combine on a \$4 bn contract
to buy Inma artillery shells.
The commission's proposal, which



was sketched out to EU foreign ministers on Monday, would significantly davance that effort by using the bloc's Cltn seven-year budget to guarantee those orders.

"The EU has multiple ways to proceed with such a project," said a second offinistion of the second offinistion mechanism will need to be found out . . . and the EUI budget is the big game. It's the biggest game."

Work on the commission's prepayment proposal comes after almost a year of the EUI's so-called European Peace Facility fund, of 62.50m, which has been used to reimburse member states for weapons they supplied to Kyiv. The second of the concurage the defence industry to expand its production means money is required up front, rather than retro-spectively.
"(Ukrainel, has cannons but they lack ammunition," Josep Borrell, the EUI's oreign and security their, said on Monday, "So, we do everything we can," be added, in reference to the existing reimbursement scheme and new ways involving the commission to "do common purchase".

INVASION: FIRST ANNIVERSARY

Russian war machine bogged down one year after Putin expected victory within days

Kremlin grapples with military setbacks, financial woes and wavering public support in conflict against Kyiv's forces

When he ordered the invasion of Ukraine, Vladimir Putin envisioned Russian forces capturing Kyvi na Bittle as three days. A year on, Russia's army is no closer to winning the war – and has even lost part of the territory that Putin attempted to annex his September. Russia's battlefield losses are so huge that western officials doubt it has the capacity to mount an offensive on the capacity to mount an offensive on the particular of the capacity to mount and offensive on have hurt the economy and cut Russia off from supply chains crucial to sus-taining Putin's war machine. Despite the dire state of his forces and the years-long quagmire the economy

and the second section of the second second

Munitions

Munitions
On a visit on an mrs factory in Siberia in February, Dmitry Medvedev, Putin's former stand-in president, sald Russia needed to build and modernise 'thousands of tank' to defeat Uhraine.

In the stand-in the stand of the country,' Medvedev said, referring the country,' Medvedev said, referring to Utrainian president Volodymyr Zel-enskyy's visits to the US and Europe-What must weed on response? Encrease production of all kinds of arms and military equipment.' To stand the said of the s

ry systems.

Of the 2,300 tanks lost in Ukraine, bout half were its most modern battle anks, according to a report last week by he International Institute for Strategic and the strategies is denloying.

On the front lines, the situation is equally difficult. He Us said in December that Russia could sustain its current rate of artillery and rocket fire only until early 2023 as stocks of fully serviceable ammunition dwindled, leaving Moscow's forces to switch to depraded arms. Delence spending will soar this year compensate for deeper problems in Russia's production cycle, according to Luzin. Like many industries, Russia's which the country is now barred from importing under western sanctions. Inspecting downed Russian weapons and equipment, Usraine's armed forces have been demonstrated from importing under western sanctions. Inspecting downed Russian weapons and equipment, Usraine's armed forces have found components from house such as the summer terms to compensate for the shortfall. "Russia's defence industry won't survive in its current state," Luzin said. They have reserves of components up to 2025 but not for everything. Production overhead has gone up significantly already. It's not clear how long the forge equipment will keep working. It's combis industry;"

Finances
Last month, Putin proudly told his cabinet that predictions of economic collapse had proved unfounded. "The real dynamics turned out to be better than many expert forecasts," he said. "Remember, some of our experts here in the country—I'm out of the providing from the country—I'm out to be provided from the country—I'm out to be consist product, would fall by 10, 15, even 20 per cent."

GDP has fallen just 2.1 per cent as record oil and gas profits of RbsIL5m (SiS8bn) helped the Kremlin compensate for efforts to shut Russia out of global markets and supply chains.
But recent figures indicate that this feat may be a one-of-fin january, energy revenues fell 46 per cent year on year









O Apr 28

Arms dump: fragments of Russian rockets are pited high in which accounts for about 40 per cent of the west attempts to place an emblago and price cap on its oil exports. It has lost more than half its gas exposits after the conomis hole scussed by spending spending of the invasion. A year before spending, the Kremlin has been spending spending of the invasion. A year be beginning of the invasion. A year be beginning of the invasion. A year better the possibility of the possibility of

Mobilisation

In September last year, as he was amouncing the start of a draft for the armed forces, defence minister Sergel shoigs and Russia had a "mobilisation resource" of almost 25mn men with millary experience that it could depic, is, in misleading, But working out what the real figure might be — the manpower Moscow could mobilise and what constraints are in Jay — can give some insight into how long it is able to maintain its assuit on Utraine.

Before the start of the war, Russia's army totalled between "40,000 and a rever than the official figure of 1.5mm. Moreover, only up to 168,000 troops were combat ready, while 1.5mm. Moreover, only up to 168,000 troops were combat ready, while the reserves, according to Luxin. The rest were support personnel. The Russian forces deployed in Utraine suf-

its current

mobilised

straints, from the capacity of the army to house, equip, train and pay new troops, to the Kreminh's willingers to take men out of economic life and trigger new out of economic life and trigger new the context of a client of the context of a client of lower-level commanders, lieutenants included the context of a client of lower-level commanders, lieutenants and sergeants? Luzin, said. "Who will feed and clothe them? What will they be a mend with? Who will do their civilian jobs in their place?" Luzin, said. "Who will feed and clothe them? What will they be mend with their place?" Luzin, said. "Who will do their civilian jobs in their place?" Luzin, said. "Who will do their civilian jobs in their place?" I would require a lot of financial and also political strain, and shough that "would require a lot of financial and also political strain, and would come at the cost of another shift in public opinion". Russais defence ministry announced plans at the end of last year to increase the size of the army to L5mm, of whom 655,000 would be contract sodiers who o'untercert arther than conscripts. adding. "The real aim is to secure a huge military budget."

Public support

After amexing parts of four Ukrainian provinces under Russia's control last September, a crowd of 180,000 people gathered in Red Square over of 180,000 people gathered in Red Square over of 180,000 people gathered in Red Square over and ple to people of the search of



Single currency area

Eurozone business activity bounces back

Data expected to keep pressure on ECB to maintain tightening cycle

MARTIN ARNOLD — FRANKFURT

MARTIM ABNOLD - FRANKFURT

Business activity in the eurozone grew
faster than expected this month,
strengthening the rebound from last
year's energy crisis and reinforcing
calls for the European Central Bank to
keep raising interest rates to tackle high
inflation.
S&P clobal's flash eurozone composservices, rose to 2.25 from 50.51 in Jamuservices, rose to 2.25 from 50.51 in Jamu-

ary, according to figures released yesterday. The result was significantly according to the result was significantly according to the result was also asked to the result was also above the 50 mark for the second consecutive month, meaning a majority of businesses in the 20-country bloc reported increased activity. Pussiness activity across the euro-zone grew much faster than expected increased activity. Pussiness activity across the euro-zone grew much faster than expected increased activity across the current of the control of the control

the fallout from Russia's invasion of Ukraine, with a mild winter helping to reduce natural gas consumption, lower fuel prices and allay fears of energy shortages. The improving European storages. The improving European storages are storaged to the storage of t

tight and price pressures strong, the surveys will reinforce ECB policymakery to that their digitationing cycle will have been seen as the common of the com

the FCB rate-setting governing council, told Barsers-Zettung. "I assume that we will reach the rate in the course will reach the result of the transmitter of the aumment." The PMI survey, based on responses collected between February 10 and 11/18, showed an increase in average showed an increase in average set of their higher costs to customers. S&P Global said this was "in part linked to the impact of higher wage costs", although the rate slowed slightly from January. Employment growth slowed even as businesses grew more confident about their prospects and supply bottlenecks eased further to reduce delivery times from suppliers.

See Market's insight and Opinion

Rate increase

Israel finance minister fends off criticism of central bank

JAMES SHOTTER - JERUSALEM

Israel's finance minister has vowed to maintain the independence of the cen-tral bank after a cabinet colleague criti-cised it for raising interest rates.

Bezalel Smotrich, an ultranationalise who called himself a "proud homo-plobe" and heads the Religious Zonsis below and the state of the

Martin Wolf see Opinion

South-east Asia. Attracting talent



Singapore's soaring rents undermine bid to oust Hong Kong as finance hub

Overseas professionals look to relocate because of rising housing costs for non-locals

MERCEDES RUEH. — SINCAPOPE

Two years ago, Lauren arrived in Singapore from Hong Kong watther growth professional shift in the Chinese territory encouraged many to relocate, and the number of Employment Pass and S Pass holders agone from Hong Kong watting more the tend of the professionals in Singapore in the case of the professional should be and rising cost of living.

A British mother of three whose husband works in finance, Lauren, who did not want to use her full name, sall and the case of the professional should be a state of the state of the control of the cont

of it [business] will inevitably flow back into other markets, especially smaller players."
Nicholas Mak, head of research and consultancy at the ERA Really Network, asid rents could grow another 10 to 20 per cent this year. "Singapore's small size means when you apply temperature, things boil fast. There is not a lot of sparce capacity," he said.

Emma, a marketing professional, Emma, a marketing professional, lemma, a marketing professional, lemma, a marketing professional withing in a three-bedroom lat in the highly in the control of the

Residential rent in Singapore has been surging since 2020 Private flat rent indexed to Q1 2009



our savings," she added. She did not want her real name to be used for fear of jeopardising negotiations over their deposit. The family has since decided to return to Australia.

jeopardising negotiations over their deposit. The family has since decided to return to Australia. Shantanu Upadhuay from India works at a popular restaurant as front-ol-touse staff in the city's Chinatown and the control of the co

Global warming

IEA calls for energy profits to be spent on reducing methane leaks

ATTRACTA MOONEY - LONDON

Fossil fuel industry methane emissions hit a near record in 2022, prompting the International Energy Agency to demand that companies use their "windfall" profits to stem leaks of the potent global warming gas.

"windfall" profits to stem leaks of the potent global warming gas.

The latest report from the IEA estimated that the industry was responsible for 155mm tonnes of methan released into the atmosphere last year, only slightly below the record high in 2019.

Methane has accounted for about 30 per cent of the global temperature rise the industrial revolution, with the energy sector making up about a third of human-induced methane, second only togeticulture, meeting the properties of the properties

'Tackling methane is one of the most important things that can be done in tackling global warming'

Calckling global warming'

Oil and gas companies reported a bumper year in 2022 after Russia's war no Ukraine created an energy crisis that forced flampet to turn to fossil fuels. For the superior to the control of the superior to the superio

because the price of preventing emis-sions was below the market value of the captured gas.

The IEA said about 75 per cent of the methane wasted each year from oil and the properties of the properties of the trought to market using tried and tested policies and technologies"—a colume greater than EU natural gas imports from Russia before the war oul value greater than EU natural gas imports from Russia before the war oul Urraine. More tent by 2030, including the US and the United Arab Emirates. However, China and Russia, among the biggest emitters, are not signatories to However, thina and Russia, among the biggest emitters, are not signatories to Climate summit.

Each day oil and gas operations around the world released the same amount of methane as last September's Nord Stream explosion, referring to the damaged pipeline taking gas from Rus-sia to Europe, the IEA said. The report also found emissions from very large leask detected by satellite fell almost

20 Feb 2023 E8D91D1005A2D87AC57D4314F58E01D2 9A653F5483AF87871512B3A6893F80EC

vo. III.3 the Absander Lenson and Christopher Konnets ayman blands Limited. Rejorks Building, 2nd Room, 142 own, Grand Cayman, KY1-1164, Cayman blands have been carring afficers of the Company.

Tech platforms

US Supreme Court hesitant on reforming legal protections for online content

STEFANIA PALMA — WASHINGTON

The Supreme Court appeared reductant
yesterday to make sweeping changes to
legal protections for internet publishers as it began considering the first of a pair of cases that could fundamentally
alter laws governing online platforms such as Google and Twitter.

The cases mark the first time the court
has weighed in on Section 230 of the
Communications Decency Act, which
protects online platforms from legal liability over content posted by users, and
is widely seen as central to the development of online communications.

Both cases stem from fatal terrorist

adopting the argument "just because of the difficulty of drawing lines in this

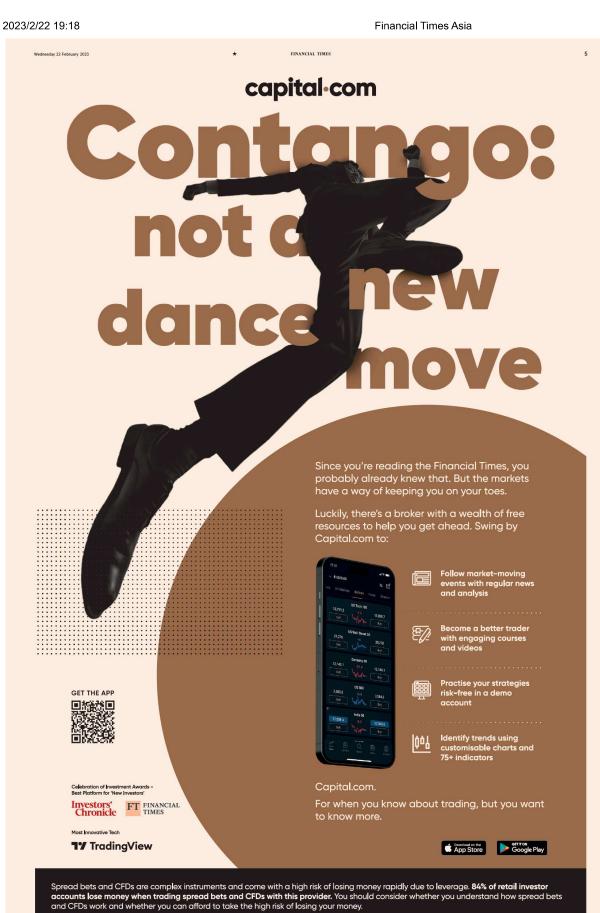
the difficulty of drawing lines in this area."

Kagan added: "Once we go with (the petitioner), all of a sudden were finding that Google isn't protected, and maybe Congress should want that system. But isn't that something for Congress todo? Some justices raised the risk that eliminating immunity under Section 220 could trigger a wave of legal challenges. "Hundreds of millions, billions of responses to inquiries on the internet are made every day... every one of smith and the control of the contr

between the recommended videos and alleged violations of the Anti-Terrorismy and the Anti-Terrorismy and the Anti-Terrorismy and the Section 220 would have significant knock on effects. Google's lawyer, Lisa Blatt, said "all publishing requires organisation" and these "flagorithms are linherent in all publishing." A brief filled by the US Department of Justice warned against an "overly broad warned warned against an "overly broad warned wa

book parent. Meta argued that algo-rithms were a "critical componed" of its anti-terrorism policies and that a broad Supreme Court decision "would encourage websites to remove all but the most benign views, turning a mar-ketplace of diverse perspectives into a platform for orthodox perspectives."

The second case, Twitter vs Tannneh, arises from a deadly liss state, kat a night-club in Istanbul, Turkey, in 2017. The relatives of a victim allege Twitter, Face-book and Google knowingly assisted the terrorist organisation by falling to too its supporters from using their sites to disseminate content. The court will hear arguments in that case today.



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BlackRock bonanza Money manager's fixed-income ETFs draw more investor cash than all competitors combined • MARKETS

Companies & Markets

HSBC raises dividend to resist Ping An break-up calls

- Bank's payout soars to four-year high
- Shares decline after cautious outlook

STEPHEN MORRIS — LONDON KAYE WIGGINS AND HUDSON LOCKETT — HONG KONG

MESON LOSSETT HUMG KONG
HSSON LOSSETT
HSSON LOSSET

'Customers are demanding more international banking services, not less'

Noel Quinn, HSBC chief executive

Noel Quinn, ISBC chief executive pointed by conservative forecasts for earnings and profitability, taken as an indication rates may have peaked.

The bank's shares initially let [14] apercent in London before recovering to the care ship of the peaked of

costly and counterproductive.

"My primary focus is improving the performance of the bank," chief executive Noel Quinn said, adding that he would meet Ping An in the next few weeks. "Alternative structural options... would have a material negative impact."

"Only nogisted to a "adical shiff" in

weeks. "Alternative structural orgotions... would have a material negative dispate the dispate of the distribution of the bank's profits since 2019, with the Middle East, Europe and the US contributing a greater proportion of earnings to complement its win home markets of Hong Kong and the UK.

Nevertheless, Asia still made up 78 per cent of HSBCS reported pre-tax between the consumer unit, Asia's contribution dropped to Oper cent last year. "The world is re-globalising... customers are demanding more international banking services, not less," Quinn added.

added.
Keeping HSBC's network together
provides a "stronger capacity for growth
and distribution to shareholders via dividends and buybacks, that is our key

idends and buybacks, that is our key message."

The bank set its dividend at 32 cents message."

The bank set its dividend at 32 cents in 2021 and the highest level since 2018, and said that a planned 21 cent special dividend, worth \$40n, next year would be a "priority use of the proceeds" from the sale of its Canadian business.

In November, dargered to sell use in its aid that it expected to complete the sale of its Russian business - taking a \$500m loss - as well as of its consumer units in Greece and France, this year, further trimming its sprawling network. Blemishing the earnings were \$1.45n in credit losses and impairment charges for the final there months of the year, up from \$500m na year earlier.

Wrong impression Estate of late US artist tells Louis Vuitton to pull campaign for £5,000 bag



Joan Mitchell died in 1992. Her work may be reproduced only for educational purposes - .ex

ADRIENNE KLASA — PARIS JOE MILLER — NEW YORK

The estate of Joan Mitchell has demanded Louis Vuitton pull an ad campaign after the luxury brand allegedly used images from the US artist's work without permission.

artist's work without permission.

The Mitchell Foundation said yester-day it had sent a cease and desist notice to the flagship brand of IXMHI, the conglomerate controlled by Berderic and the conglomerate controlled by Berderic and the conglomerate controlled by Berderic and the conglomerate and the c

c may be reproduced only for educations estate said that late last year it had repeatedly deniel Louis Vuitton permission to use her work in its promotional campaigns. The ads in question have appeared in print and online in Prance and the USs in recent months.

"It is a grave disappointment."

"It is a grave disappointment.

"It is a grave disappointment.

"It is a grave disappointment."

The estate said, adding that it wou'd be estate said, adding that it wou'd pursue legal action if the campaign was not harked.

It had "never licensed the artist's works for use in commercial campaign of for the promotion of other works works for use in commercial campaign of for the promotion of other sequently reflect act the request which was denied several times."

The estate alleges the works were cropped and used in an ad campaign that feature Les Seydoux, the Prench actress, holding a Louis Vuitton Aguncine Sug that retails from about £5,000 and above.

Foundation violated the terms of their agreement in allowing "La Grande Vallée XIV" (1983); "Quatuor II for Betsy Jolas" (1976); and "Edrita Fried" (1981) to be photographed and reproduced.

Betsy joins (159-6); and Edrita Fried (1981); and Edrita Bornia Chicago in 1925, Mitchell Born in Chicago in 1925, Mitchell Studied in France before returning to the US to burnish her career. She eventually settled in Vérbeui, not of Paris, and died in 1992. Her work owned by establishments including the Centre Pompidou and New York's Museum of Modern Art. BUMH, whose brands with the LUMH, whose brands with cincludent the Company of the

Credit Suisse falls to record low on news of outflow probe

Credit Suisse shares dropped to a record low yesterday after a report that Switzerland's financial regulator was examining comments made by the bank's chair over how much clients had withdrawn from the bank.

bank's chair over how much clients had withdrawn from the bank.

Shares in the lender fell as much as Aper cent to SP27-84, breaking below a low of SP27-85, breaking below a low of SP27-85, breaking below a low of SP27-80 when the stock followed a report by Reuters that Finna was investigating the accuracy of comments made by Axel Lehmann to the Financial Times on December 1, and to Bloomberg a day later, in which he calimed outlifows had steaded and in some cases reversed.

The comments by Lehmann came at a critical time for the bank as it sought to make the state of th

whether the group as a whole was seeing outflows reverse.

Customers withdrew SF7111bn from the group in the final three months of 2002, with two-thirds of the outflows coming in October when the bank was the subject of rumours on social media about its financial health. The wealth management business accounted for SF79.27bn of the outflows in the quarter, surpassing the SF61.5bn Credit Suisse declined to comment. Firm also declined to comment. The bank is embarking on a restructuring, axing 9,000 of its \$2,000 strong bordforce, in an effort to return to profit and restore investors' confidence. However, its forecast earlier this month that it would make a "substantial sos" this year as it absorbed the cost of the revamp spooked investors.

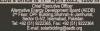
GOOMWP SOLAR PV PROJECT IN PAKISTAN
Allemative Energy Development Board (AEDB) of the Government of
Pakistan (GOP) hereby invites bids/proposals from the private sector
for facistan (GOP) based from the private sector
District Kot AdduMuzaffargarh, Punjab, Pakistan, on Build. Own,
Operate and Transfer (BOOT) basis for a term of 25 years. The Project
details and Framework Guidelines are available at AEDB's website
www.aedb.org.

Operate and Transfer (EUCU) Journal of AEDB's website www.aedb.org.

The Request for Proposal (RFP) can be obtained either from AEDB office or through online upon payment of US\$ 200 as registration fee and US\$ 2500 for RFP document, on or before 10th March 2023. Payments can be made in US\$ or equivalent Pak Rupees directly at AEDB sank accounts (Details at AEDB's website) or by way of a demand draft/pay order in the name of Alternative Energy Fund.
Only the Bidders who have been issued RFP by AEDB shall be entitled to submit bid/proposals at any time without assigning any reason.

Last date for receiving of bids/proposals at AEDB's Monagement of the Company of the Compan







Businesses For Sale

Carmakers seeking shift to hydrogen fuel face green challenges



he battle over cars running on alternative fived will shift up a gearthly seat. A record number of new models it is a first of the seat of

fuel-cell vehicles looks more justified now han it has sometimes appeared in the past.

Extreme volatility in natural gas prices in recent months and the need to find alternatives for Russian resources have renewed interest in the potential forthydrogen fuel.

Large vehicles, such as trucks, need.

Large vehicles, but hat yet betting hower.

Large vehicles but hat yet have fuel in the distances they travel mean electric alternatives require heavy batteries.

On the hydrogen-powered passenger-car side, which is led by Toyotán Mirai and Hyundal's Neco models, sales numbers are small, making up less than Olyer cent of jobal passenger-car sides last year. Vehicles running on electric batteries accounted for 10 per cent.

But for hydrogen-powered commercial vehicles — buses and trucks — growth has been much stronger than

expected. Hyundai's Xcient trucks have expanded market share rapidly since last year, on the roads in Germany, Switzerland, New Zealand and South Korea.

It is the roads in Germany, Switzerland, New Zealand and South Korea.

It is the road in Germany, Switzerland, New Zealand and South Korea.

It is the search of the road in Germany, Switzerland Last year.

The increase in sales in China draws parallels with trends in early electric-car sales in the late 2000s. As Chinai's share of global dectric-car sales soared — from 26 per cent of global market share in 2015 to 57 per cent last year—costs of charging infrastructure, batter ies and car prices have fallen steadily.

There is good reason for the take-up in the state of the

But while the ventices appear to be an environmental dream come true, emitting just water vapour as a byproduct, there is still much work to be done to make the production of hydrogen fuel greener and less costly.

About 95 per cent of hydrogen fuel is generated from fossil fuels, mostly

attartal gas. In the production process this produces carbon monostice and carbon dioxide, which offsets the reduction in exhaust-pipe emissions from hydrogen cars.

In Asia, the proportion of fossil fuels in total energy consumption is high serious and serious and serious from the proportion of fossil fuels in total energy consumption is high serious and serious and serious from the serious training and South Korea. That means seven battery electric cars in these countries are not as green as planned.

That creates an inneutive for government school of the serious serious serious serious serious serious from cleaner convex. Government school of the serious seri

june.voon@ft.com

2023/2/22 19:18 Financial Times Asia

Wednesday 22 February 2023 FT NON-EXECUTIVE **DIRECTOR DIPLOMA** Available 100% online **Financial Times Non-Executive Director Diploma** Cohort 20: 14th March 2023 | Asia Develop the skills and knowledge to secure non-executive positions and succeed in them. The Financial Times Non-Executive Director Diploma is a fully-accredited postgraduate qualification that will improve your board effectiveness and contribution. Available in Hong Kong, London and 100% online, the 6-month course covers the whole range of skills and knowledge needed for any non-executive role and is delivered through a combination of face-to-face and online learning. bdp.ft.com ftnedasiainfo@ft.com +852 5969 1565 **BOARD DIRECTOR PROGRAMME**

COMPANIES & MARKETS

Teck poised for \$11.5bn coal spin-off

Canadian group plans to shift out of fossil fuel and focus on metals operation

MABY DEMPSEY — LONDON

Canadian mining group Teck Resources is set to spin off Its coal business to focus on metals that are vitial for lower-carbon energy, completing a shift out of fossil fields and criticism of the sector. Teck said yesterday it planned to hive off its metallurgical coal operations, used in steelmaking, into a new company, Elk Valley Resources, which would have an enterprise value of \$11.5 bn. By

splitting the company in two, Teck said both entities could attract fresh capital in an era when investors with distinctive mandates were more particular about where they put their money. "The intent here is twofold: one to

"The intent here is twofold: one to enhance the strategic and financial focus of the two companies," said gonathan Price, Peck chief executive. "[And two, It's about providing investors choice, in terms of how they build their own portfolio."
Teck, which has a market capitalisation of about \$220n, has been movingto strip out fossil fuse from its portfolio and focus on copper, a metal vital for the shift to more removable forms of power. Last year, it sold its 21.3 per cent stake in

a Canadian oil sands project to Suncor Energy for about C\$lbn (US\$745mn) in cash.

The coal spin-off will be carried out through a distribution of stock in Elk Valley to existing shareholders of Teck Resources, which will be renamed Teck Metals. The company's four metallurgi-cal coal mines produced 24.6mn tones in 2021, making it the biggest North American produce the

American producer.
Other mining compaies have spun off or divested coal assets. Bio Tinto has exited coal and Anglo American ditched its exposure to thermal coal, used for electricity production, when it spun out south Africa-based Thungela Resources in 2021. But BHP and Anglo maintain

large steelmaking coal operations and London-lated Clencore has benefited from sticking with thermal coal after prices rocketed when Europe nushed to secure energy supplies following sussais full-scale invasion of Uleraine. "For a long time, mining companies have been very focused on diversification, and they "come that by bringing together a whole series of different commodities to simply scale their portfolio and make th bigger," said Price. The split will leave Teck Metals with a portfolio of copper and zine mines in the Americas, including the massive Quebrada Blanca 2 mine in Chile, which will begin production later this year. Nippon Steel and Posco, two of the

world's biggest steelmakers, will own stakes of 10 per cent and 2.5 per cent respectively in filk Valley Resources, in exchange for giving up minority interests in Teck's mines. Nippon will soo pay 8th bin cash. The transaction will be put to a sharebolder video an April 26.

Teck also announced yesterday that inst xy ears it proposes to end the dual-class share structure that gives the Keevil family, which has been involved with the group since the 1960s, effective control of the business.

These moves "will leave Teck Metals as a potential Mac Target", said analysts at Citi. "Adding Teck Metals would position any major miner as the dominant global player in base metals."

Technology. Innovation

China plays chatbot catch-up as AI hype builds

Baidu and Alibaba tout their progress but struggle with

chip curbs and lack of data

MADHUMTA NURGA — LONDON

China's tech giants including Baidu,
Alibaba and NetEase are racing to
match the west's recent developments
in artificial intelligence, touting projects
that they hope will achieve the same
buzz created by the release of ChatGPT.
After months of cost and headout
cuts, big groups are now optimistically
resenting investment plans to rival
OpenAL's chables, within trademark
related to ChatGPT's achievements.
Zhou Hongyi, head of internet security company Qibno 506, characterised
ChatGPT, a program that produces realtitie text answers to questions posed
by humans, as the start of the Air evolution.

tion.

"It has shortcomings but also unlimited potential," he said in a talk-show discussion last week.

The race to match ChatGPT comes as the Chinese tech groups have spent the better part of two years reeling from regulatory attacks and fighting for growth amid a Covid-induced slowdown.

utatory attacks and tighting for growth and a Covid induced slowdown.

Bailut is taking the most concerte. Bailut is taking the most concerte. The concerte concerte

ISSBaums, account, account of the company.

"Baildu has focused talent and money on this, so they are the most likely to build one of China's leading GPT platforms," said Boris Van, an analyt at Bernstein tracking China's AI efforts.

"They have a lot riding on the launch."

They have a lot riding on the launch. "News of the Ernie's potential rollout from March sent Baidu's shares more then 15 ore creat hisher, while Alibaba

nents in their generative AI research.

The stocks of smaller AI groups such



as Hanwang Technology and CloudWalk Technology have roughly doubled so far this year. State media this month issued awarning about the speculative frenzy. Since December, more than a dozen companies have rushed to trademark "ChatGPT" or other words containing "GPT" for use it anything from scientific hartruments to clothing and advertice of the containing the containing the containing the containing the companies building their own models to match ChatGPT, while Shanghal's top university Fudan brought together more than adozen Al Company executives and academics to analyse ChatGPT's development, security risks and potential use cases.

cases.

But analysts and experts say the fan-fare and surge in stock prices around each new pronouncement do not reflect how difficult it will be for Chinese groups to quickly replicate the software being built by the likes of OpenAI and Google.

"Exceptions wants to create ChatGPT

most popular chatbot programs. "It takes lots of money to train a model, and it could be a most a model, and it could be a most in the figure of the first state of the first state of a death of a decetion of objects, actions or faces, according to a review of Chinese Al papers in the State of AI Report 202 published by investors in the sector. Baidu struggled with its previous attempt at a chatbot, known as Plato, which analysts said could not even answer a simple question such as: "When is Alibaba o-founder Jack Mab birthday?"

"When is Alibaba co-founder Jack Ma's birthday?"
Analysts point to the lack of highquality Chinese language text on the
internet and in other data sets as a barrier for training As forware.
GPT, the program underlying ChatGPT, sucked in hundreds of thousands of English academic papers, news articles, books and social media posts to
learn the patterns that form language.
Meanwhile, Badiu's Ernic has beet
trained primarily on Chinese-language
data as well as English-language data
from Wikpedia and Reddit.
The computing costs of training and
running large language models are also

especially for Chinese companies

can't get the latest Nvidia have limited

data sets AI models

very high. Estimates put the cost of running ChatGPT, assuming 10mn monthly
users, at 31mn a day. An executive at a
leading Chinese AI company, who asked
not to be named, noted that it planned
to focus its elforison specific industry
verticals such as customer service,
reather than gambling on a broader convertable than the company of the company
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"It will be hard for Chinese companies to be globally competitive," said Bernstein's Van.
"So many companies are making announcements now about ChatGPT rivals, but that doesn't mean they have a product," he added. "It's hard to judge until we can try them."

BHP looks to China and India growth after \$1bn hit from inflation

BHP has forecast that "strengthening activity" in China will bolster demand for raw materials after weaker com-modity prices and a \$1bn hit from soar-ing inflation dented half-year profits at the biggest mining group.

The Australian business said that revenue had fallen 16 per cent to \$25.7bn while pre-tax profit had slid 30 per cent to \$10.2bn in the second half of 2022 compared with the same period a year arriler.

earlier.

The company cut its dividend to 90 cents a share from a record \$1.50 in the comparable period, when commodity prices were driving record profits. The \$4.6bn payout was nonetheless the fifth-highest half-yearly dividend in its 133,000 this price.

The markets were dubbed by the CEO 'stabilising counterweights' to the US and European slowdown

look, and the company maintained its forecasts for the full year. Henry described the markets as "stabilising counterweights" to the slow-down in the US and Europe, and he had down in the US and Europe, and he had down in the US and Europe, and he had down in the US and Europe, and he had company to the commodities in China would improve. "This will be another year of a billion tonnes plus, for Chinesa steel production, possibly and increase on last year." Inflation has hit the mining sector hard, particularly in countries such as Australia where it has combined with a Abustralia where it has combined with a babour shortage to drive up costs. BHP said inflation had added about 3bin to very the said with the company of the company of the properties of cities of the company of the properties of cities of the company of th

Walmart cautious as Fed's rate rises sink in

Walmart said yesterday that it expected sales growth to moderate in the second half of this year, prompting the world's largest retailer to issue a cautious outlook for 2024 as it observes the impact of the Federal Reserve's aggressive campaign to raise interest rates.

the year and there's a lot of unknowns right now, we're simply taking a cautious outlook, 'he told analysts. Walmart executives said the strong December sales in the US were led by food, but that was partially offers of the strong December sales in the US were led by food, but that was partially offers and the strong December sales in the US were led by food, but that was partially offers and the strong to the strong of the strong that it is the state growth to be 'strongest' in the first six months of this year, and then moderate in the back half.

"We've not been in a position where we've seen the Fed tighten this shortly. We see Issues where delinquencies of a training the strongest in the back half of the year."

When the strongest' in the first six months of this year, and then moderate in the back half.

"We've not been in a position where we've seen the Fed tighten this shortly. We see Issues where delinquencies of a training of the strongest of the stro

Zalando cuts jobs as 'pandemic tailwinds' fade

Zalando will axe up to 5 per cent of its workforce as the economic slowdown forces Europe's largest online fashion retailer to abandon a promise to avoid significant job cuts.

retailer to abandon a promise to avoid significant job classification to significant to be significant to would "remove several hundred overhead roles" over the coming mouths, saying that "the pandemic tailwinds have faded since 2023 and the macroeconomic environment has become more challenging."

In a note to staff seen by the Financial Times, Zalando did not disclose how more than the common of the control of the control

online, but the end of that boom has damaged its sales growth and hammered its hater price.

The planned job cuts come just two weeks before the release of the goody full year results, which analysts expect to show that sales were flat at £10,45 ha and operating profit more than halved to just £187m.

The group alarmed investors last June with a profit warning that sent shares briefly below the 2014 initial public



offering price. They have since staged a recovery, but remain well below the peak of £104.65 reached in 2021.
Robert Gentz and David Schneider, Zalando's co-founders and co-chied centures, to did employees pesterdary and so a result, we must take even more decisive action.
"Instead of a big company with a big company structure and mindset, we need to be a big company with a small company structure and mindset," they wrote, admitting that the group had become too bloaded. We have added a local part of the structure and structure and mindset, and the financial out of that impacted our ability to act fast."
Zalando's decision to retrench fursher, having already scaled back fits marketing budget and investment plans, follows a period of stellar growth in a recent years. Since early 2019, its workforce than the price of the price of the stellar growth in recent years. Since early 2019, its workforce has ballooned by a quarter while sales surged 60 per cent.

COMPANIES & MARKETS

Blast-hit US gas site reopens but doubts persist

Operational questions and public anger dog Freeport plant that supplied 10% of Europe's LNG intake before June explosion

Before dawn on June 8 last year, workers at the sprawding Preeport liquefied natural gas export plant on the Texastural gas export plant gas export plant gas export plant gas export plant gas export industry just as the word in The explosion at Freeport LNG knocked out a centrepiece of the US gasesport industry just as the word in Ukraine squeezed supplies from Russia. The terminal supplied about 10 per cent of European LNG imports at the centre of European LNG imports at the plant is stirring back to life, taking in gas to condense and load ont to occany in the plant is stirring back to life, taking in gas to condense and load ont to example and the plant is stirring back to life, taking in gas to condense and load ont to example and the plant is stirring back to life, taking in gas to condense and load ont to example the plant is stirring back to life, taking in gas to condense and load ont to example the care of the plant is stirring back to life, taking in gas to condense and load ont to example the condense of the plant is stirring back to life, taking in gas to condense and load onto exceeding the stirring the plant is stirring back to life, taking in gas to condense and load onto exceeding the stirring the plant is stirring the plant in the plant in the plant in the plant is stirring the plant in the plant i

an a pressure-statey varies and a pressure-statey are in clin closed for several weeks after routine testing.

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Texas coast worry that not enough has been done by the company and federal and local regulators to safeguard the facility.

"We don't feel like they're ready to reopen at all. You know, there's still so many unanswered questions," said Melmone and the company has reddent of the city of treeport.

Oldham said that the company has not done any outerach to local residents since the blast, which did not result in any deaths but shocked the small nearby community.

No company officials attended the

How can we trust this company when they're not open and transparent and they don't even bother to talk with the community." Oldham asked.

Freeport LNG is majority owned by Michael Smith, a billionaire who first made a fortune selling oil and gas producer Basin Exploration for \$410mn in 2001. Japan-based Osaka Gas owns about 10 per cent of the company, while

Jera, a Joint venture of Japan's Chubu Electric Power and Tokyo Electric Power, has 26per Ostroux, New York, Smith, a native of Brown, and the Presport ING.

The facility was first constructed to Handle ING imports in 2008, a wrong-way bet just as the shale revolution received US output. But by 2019 the plant had been revamped and started apporting the supercooled field. Freeport ING initially said it would be proported to the plant and been revamped and started apporting the supercooled field. Freeport ING initially said it would be proported to the plant and the plane fire. It has offered only sporadie updates in the months since, and its latest in December said that it planned to start up by the end of January, leaving locals, traders and that it planned to start up by the end of January, leaving locals, traders and the first of the plant and "performed safety reviews, revised various procedures, implemented new safety systems and to the plant and "performed safety reviews, revised various procedures, implemented new safety systems and to safety begin" operations. Asked for an update on operations for this story, the company said that it had comment and referred the Financial Times to its regulatory filings. Three tankers over the past week have loaded fuel that had been sitting in storage tanks since the blast, one of which is steaming towards Germany. Large amounts of gas are once again starting to five into the plant, according and exporting gas again, a crucial step back to normalisation. However, Ruth Liao, an LING specialist at ICIS, said that even if it restarts soon, it could alke until May to complete repairs and get back to full capacity of the plant and some real growing pages, said an executive at another American LNG group.

lot of things that Freeport LNG

weren't doing that similar facilities do'

US LNG export surge to Europe

US liauefied natural gas monthly exports by region (bn cubic feet per month)

Sci-fi magazine zaps army of robot writers

intelligence.

US-based Clarkesworld, which has published several award-winning self- Burtier sower the past 17 years, has been inundated by hundreds of submissions written or improved by generative Al since December, when OpenAl's chatbot LORGOT was lister treased to the public. ARMOT was lister treased to the public and the control of Clarkesworld, weeter that it had decided to suspend submissions following the surge in Al-enhanced entries.

ime. "Five days ago, the chart we shared showed nearly \$50 of these submistions. Today, it crossed 500. Fifty of hem just today, before we closed submissions ow ecan focus on the legit stories," he said on Monday.

In a blog posted this month, Clarke pointed out: "To make matters worse,

the technology is only going to get bet-ter, so detection will become more chal-lenging.
Companies such as OpenAl, which owns ChatGPT, and others building similar technologies, have already become embroiled in controversy with news organisations, artists and software engi-neers who claim that Al reproduces and builds on their original work without recognition or compensation.
This is not the first time Al-facilitated spam has caused services to buckle: in December, coding Q&A website Stack Overflow was forced to ban ChatGPT-generated responses, claiming these answers were flooding its forum with misinformation.
Clarke said he had contacted other clittors publishing original content, and that his situation was "by no means



magnitine.

But some writers warn that Al spam will choke creativity, forcing publishers to limit submission windows, take more time to respond, and potentially reduce their payment rates.

"The only people getting work out will be the already established and known... it'll be deathly for new writers," said shits Ramdas, a speculative fiction writer, on Twitter.

Earlier this motion defects 4 legaced to the control of the

David Wells

1972-2023



Our firms would like to honor our dear friend and colleague, David Wells, who passed away Saturday, February 11, 2023.

He was a talented communicator, gifted writer and storyteller, confidant, counselor and most of all a mentor to many of us.

His legacy will live on through the countless number of people he impacted and through his lovely family He was always willing to help anyone who asked for advice on their career and life.

He had a big heart, easy smile and a brilliant mind it was a beautiful combination.

We extend our thoughts and condolences to his family and community of colleagues and friends.

David, we will miss you.



COMPANIES & MARKETS

Fixed income. Revenue driver

Billions pouring into bond ETFs are bright spot for BlackRock

World's largest asset manager dominates flows into products that lure professional investors

BROOKE MASTERS - NEW YORK

BROOKE MASTERS — NEW YORK

Enthusiasm for bonds is proving to be a bonama for BlackBock's fixed income acknange traded funds, which seek that the competitors combined.

BlackBock, the world's largest money manager, is capitalisting on growing interest among wealth managers manager, is capitalisting on growing interest among wealth managers in using ETFs instead of — or in addition to — buying bonds directly.

From March last year to the end of January, there were \$146bn net flows into BlackBock's fixed income ETFs and the seek of the seek o

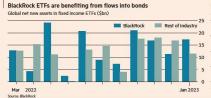
and index investments.

The narrow slices include ETFs such as IBTG, which only holds US Treasury

corporate bonds.

That allows active fund managers to use them in a variety of ways. Some use a specific slice to tilt their portfolio either to longer or shorter duration bonds, depending on their view of the







priving their active managers time to pickup the right bands.

"We use ETFs because it is operationally quick and easy to do" said Wylle Tollette, chief investment officer of Franklin Templet of do" said Wylle Tollette, chief investment officer of Franklin Templet of do" said Wylle Tollette, chief investment officer of Franklin Templet of do" said wylle Tollette, chief investment officer of Franklin Templet of do" said wylle Tollette, chief investment officer of Franklin Templet of do" said wylle Tollette, chief investment officer of Franklin Templet of do" said wylle Tollette, chief investment officer of Franklin Templet of do" said wylle Tollette, chief investment of said was a said with the company's passed with the company's passed with the company's passed with the company's passed with the west of the passed with the work of the

on exchanges and more than 80 per cent of bond ETF trades take place without requiring the purchase or sale of the underlying securities, which adds liquidity, and the properties of the proper

EU carbon price tops €100 a tonne for first time

The EU's carbon price has climbed above €100 a tonne for the first time in a landmark moment for one of the bloc's key tools to fight pollution.

a landmark moment for one of the block-sky tooks loght pollution.

Allowances traded under the EU's flagship emissions trading system (EU ETS) rose 2 per cent yesterday to hit an all-time high of Ciol atome.

The threshold has been seen as yepchologically important and aprice at which companies may start looking expectage of the companies may start looking the companies may start looking the companies of the companies may start looking energing technologies such as carbon capture and storage.

The price of carbon credits in the system—a core part of the bloc's net the price of carbon credits in the system—a core part of the bloc's net care strategy which aims to put a price on pollution — has risen fivefold in the past three years, and gains have accelerated in recent weeks as the EU has tighteed unless to make the system market is the EU has cleared the way for higher prices as that is what is ultimately needed to meet their aims of cutting emissions," said Mark Lewis, head of climate research at hedge fund Andurand Capital Management.

New rules agreed in December and in the process of being ratified that will effectively see emissions allowed under the scheme falling to zero by 2039 are the long-term structural bullish driver of this market', Lewis added. Companies operating in the EU in certain sectors — including ass, coal and a sector in the EU in certain sectors — including ass, coal manufacturing—are obliged to buy carbon credits. Each one allows the emission of one tonne of carbon.

After languishing for much of the past decade, when a surplus of allowances built up following the financial crists,



European carbon reaches

the EU's carbon price has marched higher in the wake of the bloc's newly agreed carbon pricing rules as well as rising societal pressure for governments and businesses to curb pollution and limit warming.

Increased coal use during the energy crisis has also spurred buying as coal emits roughly twice as much carbon as gas when burnt.

EU lawmakers were initial approved the system of the system will approve the that would make the system of the system will fall ower time, and the he maybe given the total mover of allowances in the system will full to polluters for free will also fail.

Vertis Environmental Finance said the recent rise in prices had been driven in part by utilities hedging their exposure and that demand for credits from industrial polluters had been driven in part by utilities hedging their exposure and that demand for credits from industrial polluters had been driven from industrial polluters had cornect descriptions of the system. Hedging activity could tick up since temperatures in northern Europe were forecast to drop below the average for this time of yearnext week, it said.

Attacked the system.

Some analysts said the C100 threshold would incentivise invest-

ments in emerging clean technologies such as carbon capture and hydrogen but major polluters warned of the impact that higher carbon prices might have on their businesses and on their businesses and on their ability to make investments. Jorit Rimman, director-general of the Confederation of European Paper Industries, said the price jump 'came as surprise to many and will affect the competitiveness of the EU namufact Association said high prices were "worrying in the current EU context of conomic uncertainty and fragility". EU lawmakers have designed the system to ensure that a portion of the money raised from credits goes towards the development of clean technologies and the decarbonisation of industry. An academic study in the journal Proceedings of the National Academy of Sciences in 2020 found that the EU ETS drove a 4 per cent reduction in European emissions between 2008 and 2016. But progress has mainly been made in switched from found finest to remove the switched from found finest to remove the switched from found finest to removables. Solutions for "hard to abate" sectors, such as cement and steel, are more expensive and remain in their infancy. See Lex

UK regulator calls for change of culture among e-money groups

which was granted an operating licence last week.

They are not covered by the UK's Financial Services Compensation Scheme, which offers some protection to customers if they lose their money, and arend as tightly regulated as banks. But Irom June, e-money groups will have to comply with a new 'Consumer duty' that pats the onus on them, and duty' that pats the onus on them, and cuty' that pats the onus on them, and companies, to prove that good customer continuous are certain to their business.

"For many (e-money) firms, meeting

UK regulators have criticised e-monebusinesses for "poor" financial crima
and fraud controls that can lead
fraud conduct authority services compensate
customers unable to access accounts.
The Financial Conduct Authority services
for projection rules this year.
The UK hosts more than 250 nonbank e-money businesses, including
well-known names like Revolut and
markets, such as New York's Payon to
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2023/2/22 19:18 Financial Times Asia

Wednesday 22 February 2023

COMPANIES & MARKETS

The day in the markets

What you need to know

Wall Street stocks tumble as investors fret over interest rate rises
 US Treasury yields jump after robust private sector activity surveys
 China equifies consolidate strong start to trading week

Stocks fell and government bond yields rose in the US and Europe vesterday after threft evidence first some of the biggest economies were more robust than expected, raising concerns that central banks would further increase interest rates to tame inflation. In New York, the blue-chip SSP 500 fell TO per cent wither the Nasdiag Composite sid 2 per cent after a closely watched market forecasts.

survey of US business activity surpassed market forecasts. The Vix Index, a measure of expected wings in US stocks, rose 8 percentage points to 23, its highest point of the year. The US SAP Global composite purchasing managers index reading of purchasing managers index reading of market expectations of 47.5. That was mirrored by other bullish readings in the eurozone earlier in the day. A level above 50 indicates industry mouth.

day. A level above 50 indicares indusing growth.

The US survey provided further indications of the health of the economy following bumper payrolls and retail sales data in recent weeks. Inwestors have been repricing global stocks lower and bond yields higher in expectations that central banks will keep rates higher for longer to out inflation. "Expectations of rate cuts later in the year were never very realistic," said Michael Metcalfe, head of macro strategy





Nov 2022 2023 Feb

af State Street Global Markets. "There was an assumption that fightening would start to limit growth and now people seem to have flipped from expecting a recession to a boom in a short period of time, based on a few releases which, granted, all say the same thing." The yield on the two-year Treasury note, which is most sensitive to interest rate changes, rose 9 basis points to 4.7 per cert, it's highest level of the year and all revels last seen in 2007, year Treasuries now 6 plo 10.3 per cent, it's highest level of the year and selection of the point of the year and all revels last seen in 2007, year Treasuries now 6 plo 10.3 per cent, it's highest level since early November.

Across the Atlantic, the pan-regional Stox Europe 600 fell Oper cent and Frankfurt's Kerta Dax shed 0.5 per cent after the SSP surveys for the eurozone also indicated private sector activity in the bloc was better than expected. Brent crude of left 1.4 per cent to SB289 a barrel while Leg equivalent VID 610 February 10 febr

Neglected tool of central banks shows its worth

John Plender

Markets Insight

oney supply numbers when we have a considerable to the total of the big unfortunate because the numbers have been sending important signals before and during the pandemic Economists at the Bank for International Settlements have found a statistically and economically significant correlation across a range of countries between excess money growth in 2020. You do not have to be a devote of the countries of the co

numbers became a less helpful guide for policy. As trying to fathom the numbers became more complicated, monetarism went out of fashion. The exception was seven to the fashion. The exception was read to the fashion. The care policy of the fashion of the fashion

As trying to fathom the numbers became more complicated, monetarism went out of fashion

and services. Why, then, are the figures now telling a clearer story?
In the recent BiS study, Claudio Borio, Boris Hofman and Igon Zakrajšek found that the strength of the link between money growth and inflation across a large sample of advanced and considered the strength of the link of the

added, money growth data can still have useful information content for inflation. There are many other reasons why many other reasons which inflation flare-up. Their economic models often relied heavily on extrapolations of the recent past and assumptions about the economic cycle. Clearly the pandemic and the war in Ukraine were exceptional events that had nothing to do with any cycle. At the same time, the central banks asset purchasing programmes have same that the part of the foreign of the same than a board member of the European Central bank, now at Goethe University in Frankfurt, argued that investors with higher inflation expectations have tended to sell their bonds to central mankets, causing the thermometer of higher than the actual temperature. A more obvious point is that central bankers badly underestimated the second-round effects of oil and food price rises in blaour and other markets. The risk of not looking at money now the second of the second

john.plender@ft.com

Markets update Brazil Bovespa 109176.92 0 . -0.70 Real per \$ 10-year bo 0.300 0.000 Silver Metals (LMEX) nt change on day 9,980 7,000 -0,180 sdex, Commods FTSE All-World OII - Brent OII - WTI Level 420.83 82.81 76.34 1845.80 % change on day -1.31 -1.50 -1.47 0.65 "releasings" case agant from Currencies - Wood Left, Sales - Quality Country (Sales Sales - Lendon per Bit, Blood data supplied by Tubel



Wall Street

Heading the S&P 500 Index was consumer foods group General Mills, which raised its fiscal 2025 guidance, forecasting growth in net sales of about 10 per cent, up from the 8 to 9 per cent range stated in December. John Sender S

the Canadian miner.
Bloomberg said Elon Musk's electric
behicle group had been in talks with
potential advisers about a bid for the
pattery metals company.
Another major climber was movie
theatre chain AMC Entertainment.

Europe

Lender Credit Suisse touched an all-time low following a report that the Swiss financial regulator was looking into comments made by the banks chair. Reduters said watchdog firms awas receiving the accuracy of remarks chair. Reduters said watchdog firms awas receiving the accuracy of remarks and outflows at the lender had steadled. Citil sat week downgraded Credit Suisse to "neutral", citing "even heavier wealth management outflows than expected" in fourth-quarter results. Spanish pharma group Laboratories Farmacefurloss Rovi rose sharply after full-year results hat were abeed in a company of the properties of the properties of the properties of the properties of the properties. You governous of a potential takeover in lender the properties of the properties

by Midea, a Chinese electrical appliance manufacture. The speculation, which was thought to have originated in another Italian outlet Fitulisera, was reportedly labelled "unfounded" by Electrolux. French utility Engie railleid after proposing a dividend at 61.40 per share for 2022, topping the €1.36 that Citi had forecast. Ray Douglas

London

Rallying to the top of the FTSE 100 index was Asia-focused lender HSBC, which reported a 41 per cent year-on-year jump in nel interest income to 5%bo in the fourth quarter — 6 per cent ahead of the consensus estimate, said Jefferies. Providing a further filip was a dividend a 152 cents per state for 2022 — up from 32 cents per state for 2022 — up from 21 cents special dividend for next year, Joseph Charles and Section 100 per state for 2022 — up from 21 cents special dividend for next year, Joseph Charles and Section 100 per cent revenue growth for this year. Nigher than the company-compiled consensus of 4.7 per cent.

Interconjunty-conjune consensation st./ per Cent. 155.4 Was among the best stocks to play the post-pandemic "recovery in surgical procedure volumes in the US and in China". Bit Group, a digital plentiny specialist, retreated after forecasting revenue of about £279m for its financial year, missing the £272mn estimate that Numis had articipated. Chris Calrk, chief executive, blamed this on the difficult macroeconomic environment," highlighting the challenging conditions for GPS cryptocurrency and internet economy customers.

customers.

GB added that it had seen some
"incremental lengthening of sales cycles"
in North America. Ray Douglas



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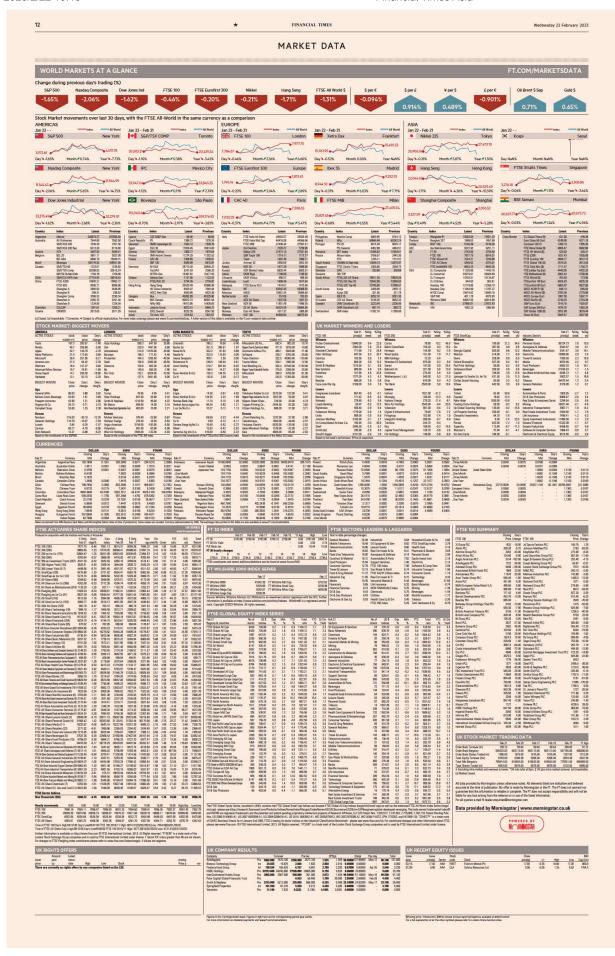
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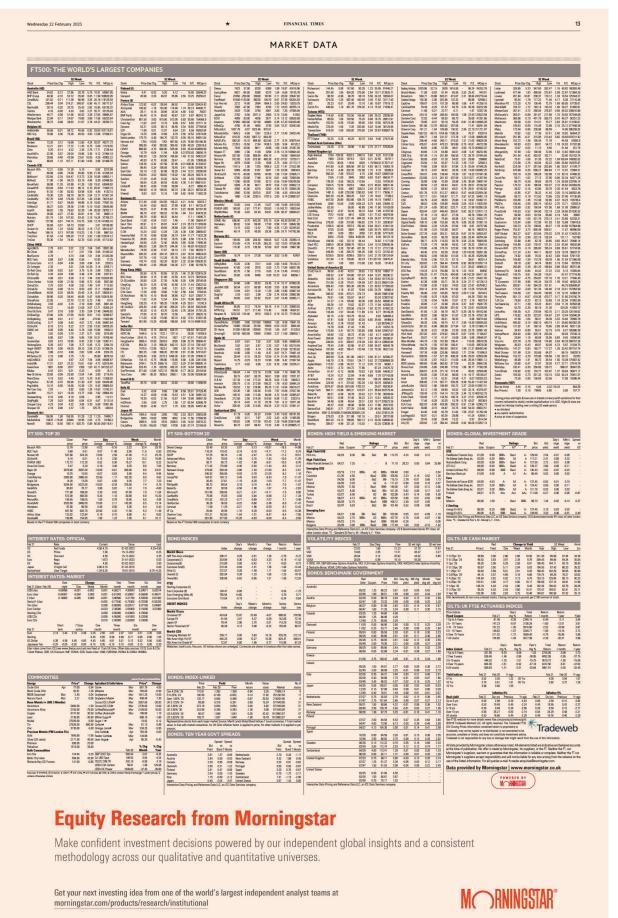
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FINANCIAL TIMES Wednesday 22 February 2023

ARTS

India's goddesses without power

Bengaluru's new Museum of Art and Photography opens with a show about the paradoxical status of women. By Rahul Jacob

a show about the paradoxical status of women. By Rahul Jacob
tis rare for a museum director to
cite economic development data
while discussing their inaugard
achibition. But that is how Kamini
Sawhney, bado of the new Museum
of Art and Photography in Bengaluru,
decided on Visible Pursible Representation of Women in Art Through the MAP Collection." In 2021, women dropped to 20 per cent of the workforce in India. That
is lower than Banghadesh. There was a report from Statista that said that India
was the most dangerous country as
well and the state of the workforce in India. That
is lower than Banghadesh. There was
a report from Statista that said that India
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well and the state of the workforce in India. That
is lower than Banghadesh. There was
a report from Statista that said that India
was the most dangerous country as
saw hone, say. "Lifet this is a narrative
wenced to pick up."

The resulting exhibition, curated by
Sawhney, combines art, sculpture,
quilts, movie posters and photography to
tackle a moumental paradox of
sawhney, combines art, sculpture,
quilts, movie posters and photography to
tackle a moumental paradox in
a land of paradoxes. Goddesses are ubiqutous and worshipped widely in
take a feet of the work of the country's mythology; Indira Gandhiwas
one of the worlds first women price
ministers in 1966, and many leading
shave a de facto scoend-class status,
MAP's debut exhibition tackles this
weighty subject in both chilarating
and depressing fashion.

It begins with three magnificent
sculptures of women defieled as goddesses, one from 10th-century Kantofeet and the province of which Bengaluru
the capital. The most recent work
mer chief ministers of Tamil Nadu,
whose made ministers were known to
province a back post to the thip of the
strange of the status of women is pool
to the work, the everyday undermining of the status of women is laid
bare. Bollywood posters illustrate the
sexual objectification of women in popular culture while the early 2014.

The m





Clockwise, from below left: Rajan Krishnan's 'Citizens' (2003); Jamini Roy's 'Krishna Yashoda' (early 20th century); computer rendering of the Museum of Art and Photography; 'Mother India' film poster (1957)

content with a spectacular mural on the walls of her hut, is seen painting polica dots on the family cow.

One could such a May through a Come could such a May through a Come could such earth of the county features beautiful work by British sculptor Stephen Cox. The striking 1,200kg black statues made of Indian basalt, which have alife the county of the county of



UKRAINE: ONE YEAR ON

PUTIN'S WAR ON

How and when will it end?

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Young Dylan pursues a familiar path

Ludovic Hunter-Tilney

Ludovic Hunter-Tilney

Any muddled Bobeats present at the Shepherd's Bush Empire to see Dylan were in for a surprise. The preponderance of teenage girls was the first sign that something might be amiss. Then there was the large lit up heart sign at the back of the stage, glowing white, red and, when things got add, blue. Finally there was the identity of Dylan breeff; als Ntahash Woods, a 23-years and ame for herself (in the sharp-ellowed husted of UK pop. "I really hope no one came here expecting a Bob Dylan gig" sheannounced from the stage. Oue gig" sheannounced from the stage. Oue gig" sheannounced from the stage of the sharp-ellowed to the control of the stage of the sharp-ellowed to the sharp-ellowed to the stage of the sharp-ellowed to the sharp-ellowe

she been a boy, Her father – present in the audience and serenaded with a "Happy Birthday" – piled his off-spring's impressionable cars with ACD Cand Aerosmith when she was small. This dadrock gift was catalysed into songeralt by her discovery of Taylor Will when she was 15. The reals, onthe Swift when she was 15. The reals, on the Swift when she was 15. The reals, on the Swift when she was 15. The reals, on the Swift when she was 15. The reals, on the Swift when she was 15. The reals, on the Swift when she was 15. The reals, on the Swift was the swift and the singer in hard-rock garb with an electric squire performing Swift-style companied by two other musicals. Swift was the swift configuration of the swift o



Dylan — aka Natasha Woods

FT BIG READ. GLOBAL ECONOMY

Shareholders say the resignation of president David Malpass will push the multilateral development bank to put climate change at the centre of its operations. The scale of the task is formidable. By Aime Williams and Camilla Hodgson

t a small rural farm about an hour's drive from the Zambian capital city of Lusaka in late January, US Treasury secretary Janet len stood before a gathering of farm-and told them she understood the

elestruction that global warming was ausing.
"We know that over the past decade, "We know that over the past decade, storms, floods and droughts in Africa have increased in severity and fre-quency," Yellen told her audience in chongwe. "Climate change is not just a tuture threat; it is already here." Her remarks stood in stark contrast with those made last year by another of America's most senior economists: when the word of the word bank. The multilateral lender, created with the twin goals of alleviating por portify, was increasingly being layed to help tacklet the impact of climate bange too.

Yet, when asked at a Sentember event.

Agreement to reduce global greenhouse as emissions. A plan outlined by the bank early in annuary for how it would incorporate limate change and other global issues to the change and other global issues to work was dismissed by major share-holders as being not ambitious enough. Then on Tuesday, a few weeks after Yellen's return from Zambia, Malpass made a call to the US Treasury to say he would end his term in June, almost a year early.

would end his term in June, almost a year carly.

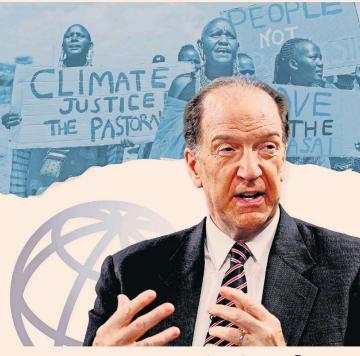
Officials were caught on the back foot, Although firustrated with the slow pace of change at the bank, in closed-door meetings in Washington, Yellen had ragued that removing an official popointed by Biden's predecessor would set a bad political precedent. Yellen and many others view alleviat-ing powerly and tackling climate change sa unified ambition, rather than dis-incit goals. Now, many of the World sank's member countries want climate to be at the centre of its mission, and not tit be periphery. It is the periphery goes levels and more extreme weather yeas levels and more extreme weather venuts, and pay for the transition to clean energy systems.

exents, and pay for the transition to channengy system, the transition to channengy system, the transition to the transition to "For us, climate is development, cli-mate is poverty — so the distinction is not that lovious," says Ali Mohamed, climate adviser to Keryan president William Ruto. "Climate change has affected every sphere of human devel-opment and livelihoods." Wealthier countries, meanwhile, are increasingly looking to the World Bank as a source of international climate finance on a scale they cannot provide, as they confront difficult question about who should pay for the cata-strophic impacts of hurricans, floods and wildfrees.

strophic impacts of hurricanes, floods and wildfires.
The scale of the task is formidable: IZ52tn of climate investment will be needed by 2050 if the world is to slash emissions and meet the Paris Agreement goals of limiting warming to well below 2C, according to research commissioned by the UN high-level climate below 2C, according to research commissioned by the UN high-level climate of the commission of the UN high-level climate of the commission of the UN high-level climate of the UN high-level clima

ence, he adds, "it all starts with the World Bank".

The US traditionally appoints the World Bank" and World Bank "and World Bank persion, and is now racing to draw up a shortlist of candidates with climate credentials who could refashion the bank while balancing the interests of its almost 200 member states. Among many shareholders and cilmate-minded bank officials, a period turbulence is receding in favour of optimism that Malpass's successor might mean the start of a new era. "There's a great hope that whoever comes next can meet the moment on



A greener mission for the World Bank

Above: David Malpass, whose resignation raised hopes among critics that more will be done to address climate change. Below: Mia Mottley, prime minister of Barbados, is seeking a new economic compact that enables smaller nations to tackle climate crisis without falling into

tional development mandate.

The Bridgetown agent and its sister organisation the IMF were sown at the Bretton Woods conference in 1944, to help the world recover from the commic ravages of war and create a new monetary system.

Almost 80 years on, some say it's time for a new global economic compact designed to tacket the existential threat of climate change. One of the leading voice is Mia Mottley, the prime minister of Barbados, who has called for a new internationalism", and argued that the Bretton Woods institutions "no longer serve the purpose in the 21st cen-

was yast usey served in the 20th century.

Mottley, whose campaign has been called 'the Bridgetown agenda', has pushed for a greater use of concessional debt instruments to finance clean-energy development across the world, as well as elimate-resilient infrastructure. Smaller nations must be able to tackle climate change without falling into unsustainable debt, she argues. Other countries have called on MDBs to fund investments that benefit countries worldwide — and, in particular, to help rapidly growing middle-income

climate change," says one development official. Yet for others, there are fears that a new climate-oriented mission might distract from the bank's tradi-tional development mandate.



countries shift their economies away from coal, the most polluting fossil fuel. In response to these and other calls, the World Bank produced an "evolution road map" that explored what more it could do to tackled cimate change and other globally important catastrophes. The bank suggested that in order for it to continue financing the world's poormout the continue financing the world in the continue financing the state of the continue financing the state of the continue financing and added that the bank would not comment on the views of its shareholders.

According to the bank, it horecased its internation to \$3.7 his thereased its climate financing from \$3.0 his to \$3.7 his characteristics.

According to the bank, it increased its harcholders.

According to the bank, it increased its climate finance from \$10.9bn to \$51.7bn over the past seven years. Although the bank's climate finance measured as a proportion of its overall lending has teadily increased, according to independent analysis by climate group MRDC, it still lags behind three other large MDBs, including the European Investment Bank and the African Development Bank.

Spending-better

Spending better

modest sums, you

idea that the World Bank needs to spend better before it gets more money."
Historically, the World Bank has turned relatively modest sums into bigger numbers, according to an independent review of MDBs commissioned by the C20 and published last year.
Retween 1944 and June 2021. hare-greated the control of the C20 and published last year. See 1950 to 20 ho capital in total to its main lending facility, the International Bank for Reconstruction and Development. With that capital, 1BBP has issued more than \$750bn in loans and \$250bn in grants to the world's poorest countries, as well as covering the costs of its global development data and research.
But the C20 report said that the MDBs could do more still if they took certain steps. With "very manageable changes could do more still if they took certain steps. With "very manageable changes and the could be come that the capital publication of the country of the

of billions of dollars over the medium term" while still maintaining their credit ratings. The World Bank has for decades maintained that holding a triple A rating from all three major credit rating. Shareholders, too, benefit from the bank being able to access low coof funding from bond markets, which is where the bulk of the bank's funding comes from, and developing countries have warned against losing the rating. But the report said the MDBs were possibly being more conservative than open the standard of the properties of the pr

mon from shareholders in the event of a financial emergency. An event of the financial emergency. Avinash Persaud, climated sar davier to Avinash Persaud, climated property of the financial sar davier to get to a Barbados leader it type of scale of lending, you can't do it using the old fiashioned approach of paid-in capital." If the World Bank takes up the C20 reforms and can convince countries to

increase capital, then even a modest injection would have a huge impact, says Lard Nicholas Stern, one of the institution's former chief conomists. "What people don't understand is how much value for money is in a capital increase," says Stern, who is chair of the Grantham Research Institue at 15E. For very modest sums, you could double the (World Bank's) lending, it could have an enormous effect." build have an enormous effect." build have a moormous effect." build have a modernous effect." build have an enormous effect." build have a modernous effect." build have an enormous effect." build have a modernous effect. Build have a moder

walking the recommendations.
The cost of change
Not all countries, particularly those that
primarily borrow from the Word Bank,
are comfortable with the institution takings on a greener nue.
Some large foosil fuel-reliant shareholders—including the petrostate Saudi
Arabla plus Russia and India, along with
anjor Africian and Latin American
countries — are pushing back against
the bank morphing into a "green bank".
Commented the bank morphing into a "green bank".
In more money for middle-income nations
and less for the very poorest.
Amar Bhattacharya, a senior fellow
in the Center for Sustainable Development, says some developing countries
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They see and elected funury in the
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on the purpose for which they were established."
The note was signed by countries including Brazil, Pakistan, India, Indonesia, Chima, Sandi Arabia, Russia and Farabia, Russia and Farabia, Russia and Faten Agod, an adviser at the African Climate Foundation, says there were also concerns among some developing nations that rich countries were looking to shift" their responsibilities for providing climate finance "to the multilateral development banks" at this is not Supported or for common their control of the control of their co

Looking ahead

double the

[World Bank's] lending.

It could have an enormous effect'

Malpass's departure has cleared the way for the US to propose a president with the financial markets literacy to study how far the bank can comfortably adjust its business model and formalise its commitment to tackling climate

its business model and formalise its commitment to tackling climate change.

The US Treasury is drawing up a shortlist of potential successors that is expected to include Samantha Power, head of the US Agency for International Development, Rockefeller Foundation president Rajiv Shah and World Trade Organization director-general Ngozi Okonjo-luveala.

The next flashpoint is the bank's spring meetings, to be held in Washington DC in April, where it will be under intense pressure from the US and others to outline more concrete plans for improving its response to climate change.

The FT View



FINANCIAL TIMES

Generative AI should make haste slowly

With care, latest tech frenzy can be used for creative and productive ends

and productive ends

Tech companies are adopting three different approaches to releasing generative Al models the cautious, the clever
approach prevails may well determine
who makes the most money out of the
artificial intelligence revolution, but it
may also have far broader implications.
For years, tech companies have
even the companies have
a far the companies have
even the companies have
been wary of opening up these
models to the public for fear of embarrassing blowback. Google, which probarassing blowback. Google, which probatable the companies have
been notably cautious in giving access to
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Bard model. Last November, Meta pulledits Galactica Al service three days after launch. Users were quick to ridi-cial Galactica - designed to summarise control of the con

ation. All was able to launch its model with relatively little embarrassment because it had built in some basic guardists to prevent its model being maliciously exploited. Before release, OpenAl had fine-tuned its model by employing a technique known as Reinforcement Learning with Human Feedback. Humans helped train the model to

reduce the chances it would generate toxic content. The millions of users who have since experimented with ChatGPT provided priceless real-world feedback, allowing OpenA1 to pursue further Iterative deployment.

Some researchers argue that the Some researchers argue that the Some researchers argue that the release generative AI models stems from these dominant firms wanting to preserve competitive moats. They also claim that human guardrails on generative models, such as those instituted by OpenAI, amount to censorship. Far better for free market competition and free speech if these models are released uncenumbered into the world. Scores of sare ups are now doing precisely that the uncenumbered into the world. Scores of sare ups are now doing precisely that the deployment. The investment firm MFX has already identified 450 start-ups looking to commercialise the technology that has collectively raised about \$212no findingle.

Regulators are watching this latest fremy with bewiderment. Cenerative

Al models can be used for many creative end purposes. But they can also pump out industrial quantities of disinformation. Not to mention the disconcerting content Microsoft's Bing chatbot displayed in recent interactions with a New York Times columnist, professing to love him and admitting it harboured desires to hack computers and break free of the parent company's rules. But it were not to be a comparable of the company and the provision contained in Intervene even if they so desired. Che company and the company and th

Opinion Science

A cosmic death spiral may reveal the age of the universe



Anjana



n 2017, scientists detected an extraordinary cosmic event around 140mn light years from Earth. Two neutron stars in a binary system, each with a mass comparable to that of the Sun but compressed into the size of a city, had been rotating around each other une-ventfully for 11bn years in ever decreasing crites. Then, in an instant, the superdense duo entered a fero-cious death spiral, spinning around each other 100 times a second, before could be considered to the control of the con

of as the visually dimmer but more violent cousins of supernovas

blast may also offer a promising new method of measuring the age of the universe.

Kilonovas can be thought of as the visually dimmer but more violent cousins of supernovas. Both phenom-ena involve temporary stellar bright-center when a massive star nuns out of fuel and collapses; or when it accumu-lates material from a neighbour, sparking arunaway nuclear reaction. In contrast, a kilonova happens when a neutron star, itself the col-lapsed core of a massive star, coilides with either another neutron star ow with a black hole. The brief, explosive metal factory, pumping out elements such as gold, platinum and uranium, and energetically scattering them across the universe. The precious met-als minde on Earth today came, scien-tists think, from meteorites raining down from space.

down from space.

Studying kilonovas can help to illuminate how some of the heavier elements in the periodic table were created, according to Albert Sneppen, a researcher at the Cosmic Dawn Center at the University of Copenhagen, with this collegue Darach Watson. But, Sneppen adds, the unexpectedly symmetrical

explosion additionally hints at as-yetunknown physics in the heart of the
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degrees, and magnetic fields strong
enough to distort the shapes of
degrees, and magnetic fields strong
enough to distort the shapes of
collisions of the core of the merger contains more energy than
predicted, powerfully smoothing out
irregularities as material is blown off.
While the ball-shaped blast is at
flattened disk, says co-author Stuart
flattened disk, says co-author Stuart
strong the collision of the collision of the
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the blable constant. This number, on the
thubble constant of the common, and
dark energy. While the universe is
generally thought to be around 13.8 bn
years old, different methods yield
almowers that vary by as much as a
billion years.
Estimating the Hubble constant
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can be such as the collision of the collision of the
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mysteries of kilonovas. Billions of stars, meanwhile, carry on their infi-nite business of living and dying and colliding, their matter continually remade and redistributed elsewhere in the universe – some of it, remark-ably, into the slender platinum band on my ring finger.

The writer is a science commentator

Letters

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'Over-hiking' today is insurance against a nightmare tomorrow

As interest rates continue to rise, the debate in financial markets has unsurprisingly moved on from whether central banks are perceived to have done too little, to the risk that they might end up doing too much (FT Vlew, February 4). Policymakers acknowledge this possibility too, with references to "over-hiking" in their "sweeches.

speeches.

What is curious about this debate is that "over-hiking" is presented as if it is a mistake that central banks might

make. That doesn't feel quite right. When people talk about "over-hiding" they have in mind that central banks will raise rates too far and slow the economy down too much and that will ultimately force central banks to not just cut rates back to normal levels, but back into accommodative territory. In normal circumstances that does sound like a mistake. These are not normal circumstances. These are not normal circumstances. Folicymakers usually set rates based

on what they think is most likely to happen. But they may set rates today based on what they fear could happen. The chief concern right now is that wages and prices will continue to rise at a rapid rate. Central banks may a rapid rate. Central banks may therefore keep raising rates – and slowing the commy down – until the outlook for inflation does not look that had even in that worst-case scenario. But if the nightmare scenario doesn't play out then interest rates will turn out to have been set too high and

mitation will turn out too low. Once the danger has passed, then central banks can switch back to setting policy based on what is most likely to happen and that will mean plenty of rate cuts. It will look like "over-hiking" but it will not have been a mistake. Central bankers are just choosing to take out insurance today against a nightmare

B Corp scores must include supply chain mapping data

I read with interest The Big Read ("The struggle for the soul of B Corp", and the struggle for the soul of B Corp", and the struggle for the soul of B Corp", and the struggle for the soul of B Corp", and the struggle for the soul of B Corp", and the struggle for the soul of B Corp", and the struggle for the soul of B Corp and the struggle for the soul of the struggle for the soul of the struggle for the soul of the struggle for the B Corporation — which started in companies around the world who are certified as "a force for good" — a starteyl absent element is a requirement for organisations to either understand and map their supply chains, or to share that data. The shocks that have reverberated around global supply chains in recent understand and map their supply chain distrugtions. Reputationally, companies live or die by their management of human rights and environmental issue in their supply chains (strugtions. Reputationally, companies live or die by their management of human rights and environmental issues in their supply chains. Revelations by the BiC this week about a major global brands, is further evidence of this. At a basic level, if organisations have no clear understanding of where their calificias are located, in no way can they credibly claim to have any true sense of the environmental or social registration of the social potential organisations commitment to "prioritise people and planet", supply chain mapping ought to be an entry-level requirement.

And on the importance of openness (which, when it comes to food due the control of the supplement of th

recognise that.
Natalie Grillon
Executive Director, Open Supply Hub
Amenia, NY, US

every new technology

every new technology
The takeaway from Jenima Kelly's
column is clear: she's planting herself
firmly with the cynics ("Whatever
happened to the metaverse?", Opinion,
February 16). While Kelly is apparently
ready to write off the metaverse, I say
it's far easier to be a cynic of any new
technology than it is to actually build
one. Computers, smartphones and
even the internet were all written off tby
early critics, but these technologies



have all proved revolutionary. The world needs more immoration—hot less—and at Meta we are building for the next evolution of social technology. But it cannot happen overnight. Meta and many others are investing to build a better social experience than what's possible today on phones. It means moving beyond the 2D screens of today and developing new technologies that can bring use close to technologies that can bring use close to include swittual, moted and sugmented reality, as well as new solware and social experience. Kelly goes on to say that nobody wants to use the metaverse. Let's look at the evidence. While this is a nascent technology, if a not unproven. People around the world are using Meta Quest technology, if an outproven. People around the world are using Meta Quest Chang, apps on the Quest platform that have made more than Simn in revenue. And in a few months, more than 100mn people have created avatrar in WhatsApp. It's early days but the potential for people is massive. Like every new technology, making that the potential for people is massive. Like every new technology, making of investment, commitment and ignoring the cyuiss. Vishal Shah.

Here's my manifesto for a true democratic capitalism

true democratic capitalism
Martin Wolf's essay (Life & Arts,
January 21) laist to address the simple
truth that capitalism isn't democratic,
if seudal. Very levo business leaders
are elected by their colleagues, instead
they are elected by a platocracy and
they are elected by a platocracy and
For capitalism to pass the tough tests to
come, we need workers to elect their
leaders, and leaders who display
altrusian, not narcissistic self-interest.
This isn't communism. This would be
true democratic capitalism.
Roger Steare
Corporate Philosopher in Residence
Bayes Business School, London ECI, UK

Quebec, Catalonia and Scotland: the business case

Quebec, Catalonia and Scotland: the business case In the run-up to the 2014 Scotlish referredoun, I drew attention to the damage that the push for independence in Quebec had on its economy by prompting a significant number of companies to more their number of their number of

Blame the UN charter, not

Guterres, for Syria stance
In response to Ronan L Tyman's letter
("Cuterres has no exause for delays
helping Syrian quake victims",
February 201) would recommend the
author look at Article 2 (7) of the
Chatter of the UN. As much as if yell
the standard of the Chatter of the UN. As much as if yell
humanily, not state sowereignty, we are
not there yet. The UN is a system of
sowereign states. Autónio Guterres has
no more powers than those delegated
by the Security Council and the General
Assembly, the secretary-general cannot
act on his out initiative, as he is more a
Secretary' than 2 general': If we want
act of the Chatter of the Chatter of the Chatter
provided that is the council of the Chatter
international low, we need to change
the international system to one in
which state sovereignty is no longer the
priority, Let us not criticise the
secretary-general for falling to respond
to the humanifarian needs of the Syrian
quake victim unless we are willing to
empower him.
Professor Max Hillare
The Radnington Center
Washington, D.C. US

How not to treat San Francisco's drug problem

Francisco's drug problem

Iam puzzled by Michael Moritz
apparent call for a San Francisco
autocracy or, at least, a rollback of San
Francisco's drug rights ("San
Francisco's drug and homeless cries
can't go on, "O prilion, February 9).

He seems to suggest that an
autocracy would do better at
unitorracy would do better at
succracy would do better at
east, one elected by district. The
California constitution requires each
county have a governing body of five or
more members; so there has to be a
board of supervisors. As to elections,
instead of district elections, in her
dissent to the Shelly County ve Hodder
decision, justice Ruth Eader Ginsburg
harrier to minority voling rights atlarge elections, where all voters cast
their ballots for all candidates in a
jurisdiction.

If Moritz would like to help San
Francisco address the problems of
alcohol and drug use disorders, if
suggest that he read up on the evidence
or effective treatment, rather than
Castellibanch
Professor Emeritae, Public Health
San Francisco CA, US

Consultants and twitchers,

Consultants and twitchers, the comparison is obvious

the comparison is obvious Iread with great interest the interview with Mariana Mazzucato ("The McKinesys and the Deloittes have no expertise in the areas that they're advising in." The Herny Mance Organization of experience in the banking sector, and having been confronted with numerous reviews by the big names in consultancy, I come to just one conclusion: a large majority of consultants are like ornithologists — they know everything about birds but cannot fly themselves. Paulus Callebaut Varsenare, Belgium

The FT's data ruling

makes sense to me I think I agree with the FT ruling in favour of 'data is' rather than 'data are'. After all, we don't say 'the job looks are' but 'the pile of books is'. So 'the data (a pile of facts) is'. "Datum' is derived from 'data'; not the other way round. Robert Craig. Weston-super-Mare, Somerset, UK

Correction

Kristóf Szalay-Bobrovniczky was Hungary's ambassador to the UK from 2016 until 2020, rather than 2022 as incorrectly stated in an article on February 20.

Opinion

Starmer should reject advice to be more daring



ighteen months ago, this profession of mine had Sir Keir Starmer down as a lose. Now that his UK Labour party is 20 points shead in the polls, we are doing the gracious thing. We are telling him why he isn't further in front. He "must be brave". He "must be more radical". His parell out his real plains". It is only fair to warn you that the "What is "and "piece sare imminent. What is worse here, the presumption, after such nopeless underestimation of after such no plain and the subject of the presumption, after such nopeless underestimation of

the man? Or the fact that all the advice is of a piece? Almost never is Starmer told to remain cautious and inscrutable Almost never are half measures uged on him. His pragmatism is described. Almost never are half measures uged on him. His pragmatism is described. His success is acknowledged. But the causal link between the one and the help explained by the history of the causal link between the one and the help explained by the history of the history

slide in 2015. But even her resignation speech seemed to rue her own forth-rightness. How many voters might she have won to the nationalist cause had she measured her tone? Or focused on the technical grid of Ixing health care and education? Or fudged her vision of what a sovereigh scotland would look like? By defining it so sharply as a pro-

The task of a politician is not to inspire. It is to get a plurality of voters to say 'Oh, go on then'

him prime minister by default, not by acclamation, is to say almost nothing at all. Every leader who is elected to government is elected by default. They win because swing woters fear them slightly less than the alternative. The closest thing to an exception in Britain during my lifetime was Tony Blark I smoldide of my lifetime was Tony Blark I smoldide of in retrospect. Turnout fell to a then postwar low, John Major had won more votes five years earlier. The national rapture cooled with a speed that exposed how frail it was to begin with. None of this is criticism of Blair. The task of a politician is not to inspire. It is to get a plurality of voters to say, "Oh, goon othen."
And that is in normal times. In turbulent ones, voters are even likelier to seek of the control of the same propositions are even surer to flop. This, I think, is the ragedy of Sturgeon. She governed during an era when the public appetite for

risk was exhausted by outside events.
Brexit, Donald Trump, Covid-19: the
upheaval made secession, and provocative leadership, a disruption too far.
And it makes No-Trama Starmer
more viable than his critics can believe.
Political commentary suffers from a
trame of the commentator is invariable obsessed with politics. The principal (the reading and voting audience)
has a lay interest in it. And so the
commentator will over-index certain
qualities in a leader criatriam, boldness, clarity, it is what we like because
we turn to politics for drama and meaning. The audience-get those things from
entertainment, or private life.
The result is thorated to convey the
of leader. It is hard to convey the
Oi leader. It is hard to convey the
Washington during the winter of 2018,
when it became clear that foe Biden

would run for president. Bernie Sanders was a story. Elizabeth Warren and Pete Buttige were stories. A middle-of-the-road veteran hoping to get third time lacky was a drag. Yet here het is.

Stammer Height (2018). We have the stammer was a drag. Yet here het is.

Stammer Height (2018). We have the stammer was a drag with the stammer was a deader to have definition, yes, but leads to be a dead with the stammer was a deader to have definition, yes, but so be spend. I won't hope the stammer was perfectly the stammer was the stammer was a deader to have definition, yes, but so spend. I won't reopen Brexit. Beyond that, politicians should view policy detail as some forbiall coaches view possession of the balls a liability. A chance to make a mistake. A "post chance to make a mistake, a "post chance to make a down the stammer was the

ianan.aanesh@ft.com

Illiberal democracy comes to Israel

Martin Wolf Economics

Proposed legal reforms by Netanyahu's government look rather like a power grab



sraeli politics is in crisis. A large-number of people have demon-terity to the proper of the people have demon-rightwing coulliton's extrassively-criticised "judicial reforms". The president, Isaac Herzog, has even declared that "We are no longer in a political debate but on the brink of con-stitutional and social collapse." The pro-gramme of this government is of evident importance for the future of the coun-gramme of this government is of evident importance for the future of the coun-gramme of this government is of evident importance for the future of the coun-pening raises questions about how a democracy can turn into an autocracy at an bridden disportation in the country of the six agrees that liberal democracy has four individually necessary and collec-tively sufficient elements: free and fair twelvel sufficient elements elements

gary and Poland. It is also why the Israeli government's proposed legal "reforms"

are so controversial. To opponents, the reforms will rip up protections against arbitrary action by the government, arbitrary action by the government, arbitrary action by the government arbitrary action by the government arbitrary action of the government sees it. It believes the Supreme Court has undermined its ability to govern by assessing even the 'reasonableness' of its actions. This also objectionably powerful position in the court has opened the floodgates to list actions. This also objectionably powerful position in the court has opened the floodgates to list actions. This also objectionably powerful position in the court has opened the floodgates to list the court has power reached, the court has valid your reached, the court has valid your reached, the court has valid your reached, the court has a professor of constitutional law are professor of constitutional law court in pile of the power professor of constitutional law are professor of constitutional law court in pile of the power professor of constitutional law are professor of constitutional law court in pile of the power professor of constitutional law are professor



Israel has become a high-income country comparable to France and the UK GDP per head at purchasing power parity (2021 constant \$'000)



Israel's economy has far outperformed those of its neighbours GDP per head at purchasing power parity (2021 constant \$'000)



The 'start-up' nation has attracted huge amounts of foreign capital



which a simple majority is sufficient to pass any law, including one of constitutional import. Potentially, this structure would give a majority unchecked powers unmatched in other democracies. Thus far, these powers have been contained more by political culture and circumstances than by law.

Banak-Correit big pointed, majority to political culture, and circumstances than by law.

Including to lower-level courts, and make it extremely difficult for the court

The changes are unneeded in themselves and are targeted at objectives other than the ostensible ones

"Source the Conference Board to over-rule the government, while ena-bling the Knesset to overturn its rulings—are neither necessary nor sufficient to earlier the conference of such as the conference of surel demoncay and the behaviour of the judiciary. This account persuades me that the reforms are mainly a power grab. They would allow the executive to operate with little judicial accountabil-ity and fill the judicial accountabil-ity and fill the judiciary with (possibly incompleten) logalists, even in areas that have little tod with policy. Indigentation of the properties of the large contributor to the growth of the larged is comment to the properties of the larged contributor to the growth of the larged contributor to the growth of the larged contributor to the growth of the properties of the larged contributor to the growth of the properties of the properties of the larged contributor to the growth of the properties of the prop

"Source investigation of the West Bank, for example, is all the conomy, and the countries, is of "crony capitalism." In becomes too easy in such systems, the conomy, and the beautiful conomy, and the bank of the conomy, because it is they who are entry of honest new competitors into the economy, because it is they who are always most reliant on an independent judiciary and bureauteray, insiders depend on the rule of law. All the conomy, because it is they who are government has created many other concerns, not least for the future of the competency of the west Bank, for example, is potentially lethal to a democratic barad unless full citizenship is granted to Palestinans, which would turn irserie Intio a binational state. But in the more narrow

obtain political control over the legal system, thereby undermining the rule of law.

It is worth noting in this context that Israel's economic history demonstrates that the legal system about which the government now complains so bitterly did not prevent its past success. That also suggests that these dramatic reforms are unneeded in themselves reforms are unneeded in themselves on the supplies of the supplies

QE has become 'Hotel California' for central banks



uantitative casing has been considered to the Eaglest "Hotel California" – you can check out any time to me to the captes of the considered to the total captes of the considered to the conside

work remains tenuous. In announcing a bond-buying programme, a central bank signals to the markets it is committed to accommodative policy and that rates will be low for a longtime. The entire yield curve drops as a result. In purchasing long-dated bonds, the central-bulk pushes their pred does to move into higher return securities (the so-called portfolio rebalancing channel). However, O'T isn't just OE in reverse. When rates are at the zero lower bound, the signalling channel is strong. But announcements about the central bank's balance sheet are less effective when the policy rate is well above zero. In 2017, Janet Yellen, then Federal bank's balance sheet are less effective results are somewhat different. Rajan agues this is because commercial bank charge their behaviour when the central bank expands its balance sheet,

but do not change it back again when the balance sheet shrinks.

The mechanics of QE are a bit wonky. When the central bank buys bonds from investors, the proceeds are deposited in a commercial bank account. The banks

change behaviour when the balance sheet expands, but not when it shrinks

steer them into demand deposits (which can be withdrawn at any time) because they pay less interest than time deposits. To balance these liabilities, the Fed credits the banks with the same amount of reserves as assets.

The reserves give banks confident they can weather any significant deposit withdrawals, and are used to extend

credit lines that generate fees. This shortens the average maturity of assets, undermining the portfolio rebalancing channel and increasing bank vulnerability to liquidity shortages. According to Rajanis data, none of this unwinds when the central bank shrinks the balance sheet and reserves become the bank of the short sho

crises, as they did in 2019, at the start of the pandemic and in the recent liability-driven investment freeze in the UK. But that ratches to panks' demands for liquidity still further—and makes QT even harder to puloff down the line. One way around this to minimise the signaling channel of QE, as the Bank of England did last year when it said has performed to the signaling channel of QE, as the Bank of England did last year when it said to the said the sa

ance sheet. Investors would have an incentive to take more risk. Government of the control of th

2023/2/22 19:18 Financial Times Asia

US tech pay: share the pain

In the US tech sector, hirring the best employees requires more than just competitive base pay and free snacks. One of the more prized rewards is generous share-based remuneration. The tech stock rout is making these large than the stock of the more prized rewards in generous share-based remuneration. The tech stock rout is making these large than the stock of the st

number of shares outstanding has barely moved. Tech companies that once airily dismissed stock bonuses as a non-cash expense will increasingly take a genuine hit via cash outflows.

Carbon price: Gaia buyers

How much is carbon worth? The cost of a permit for a European factory or power plant to emit a form of CO₃ has risen fivefold over the past three years and the control of the past three years and the control of the past for an investor treating carbon as an asset class, a lot is now in the price. Climate watchers should cheer the COO milestone, for a long time, the cost of the allowances — owered by the COO milestone, for a long time, the cost of the allowances — owered by the COO milestone, for a long time, the cost of the allowances — owered by the COO milestone, for a long time, the cost of the allowances — owered by the congit to reflect environmental costs have been considered to the control of the control of

BHP: wriggle me this Shares of the diversified Australian miner have done well this past year, helped by a high dividend yield. After years of concentrating its portfolio, three commodities — particularly iron ore — drive BHP's profits. Using forward estimates, free cash flow only just covers expected dividends to 2025. Free cash flow barely covers dividends in future

\$bn Free cash flow Dividends BHP profit drivers June 2023 estimate (ebitda, \$bn) 140 - 14 ____12 2022

IT gueles Conces Indicates

R can take a century or more to
become a one-year wonder. Shares in
BHP, a business founded in the 1800s,
have outrun peres with a 40 per cent
return over the past 2 months.
Thank bosser—and activists—who
trank bery and activist—who
the peres with a strength of the
the peres wit

FT graphic Source: R

and coal. That description is admirably simple. There is more muance to BHP's 10 per cent dividend yield. The share price, by implication, is low. But everything is relative in mining's cyclical world. Biff's enterprise value cyclical world. Biff's enterprise value that of diversified peers. The scale of the yield also signals that the dividend is seen as unsustainable. This, in turn, points to investor caution towards prices for iron ore, copper and metallurgical coal. Over the next few years, expect BHP's free cash flow to slide as is traises capital expenditure. Some of the money will go to Jansen, a Canadian potash fertiliser project. Chief executive Miles Henry is enthusiastic about the potash mine, scheduled to

I source whose Apha

open in 2026. BHP — at some risk to its much-vaunted focus — believes it will produce earnings uncorrelate with those of other divisions.

Visible Alpha, the estimates service, forceasts group annual mean service, forceasts group annual mean 2025. Dividend payents should average about \$12.8bn. That limits Henry's financial wriggle room. It also leaves thin dependent on iron ore and copper units accounting for 80 per cent of group ebitla. As economies normalise in the wake of lockdowns and rate rises, so will demand for these commodities. Expect Henry to let the dividend drift before he slashes investment. Investors, like BHP testif, should think in multiple years, not months.

compare poorly with many other investments. For once, a market may have efficiently done its job.

Pharma: prescription for efficiency

Big Pharma's response to Covid was agie. But hopes that drug developers could are stated to the state of the

contribution from Covid jabs and drugs. The rate of return on big pharma companies' RAD averaged 10 estimates Brendberg, and far above their cost of capital of 8 per cent. Some, such as France's Sanofi, undershot. At the other end of the scale, Demmark's Now Nordsick notched up returns of more than 20 per cent. Some, Such calculations are tricky. Drugs can take a long time to generate profits. Such calculations are tricky. Drugs can take a long time to generate profits back 20 years; it was nearly dropped in 2009. The cancer treatment should be this year's top-selling drugs with sales of \$24bn, according to Evaluate Vantage. Businesses can raise their game. AstraZencea has moved from laggard to leader in the RaD productivity ranking with a focused approach. But

hurdles are high. Oncology accounts for 36 per cent of flig Pharma's pipeline assets. Groups compete in a crowded flower of the control of th

Home Depot/Walmart: retail politics

Wednesday 22 February 2023

retail politics

Capital had a great run. It is still labour's turn. That was the message from Home Depot's fourth-quarter from Home Depot's fourth-quarter. The DT retailer needs more workers to help customers buy washing machines or sheets of plywood. It expects to spend an incremental 51ba in wages for frontline staff, a figure that would depress its closely watched operating margin by 60 basts points, pushing the figure below 15 per cent. The Depot foresees flat sales in 2023. It believes earnings will be slightly lower as Americans shift consumption towards services instead of the good that were in demand during the pandemic.

The company pointed out that its annual revenues have grown by \$47bn in the past three years, a remarkable number for a company with annual sales already above \$100 cmpany with annual sales already \$100 cmpany with annual sales already \$100 cmpany with annual sal

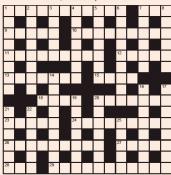
demand. A putative monetary easing cannot alone sustain a rally in stock prices.

According to data service FactSet, the valuation of the S&F 300 has According to the S&F 300 has the state of the S&F 300 has the state of the S&F 300 has the state of th

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- Prison shops renovated with comm support (11)
 7 Stole yacht for one missing 18 (3)
 9 Get rid of former footballer (not European) (5)
 10 Swimmer needs a fleshing out (9)
 11 18 side of resort featured in advert 12 Imprisoned old Conservative leade (5)
- Imprisoned old Conservative lead (5)
 Father invested in famous small computer (7)
 Smell beginning to permeate swe (4)
 Second lawyer sailor rejected (6)

- b Sinel origining to permeate sweening 18 Second lawyer sallor rejected (4) 20 Duration of program revises UN remit (C,4) 22 Viewing essentially healthy 15 187 (5) 24 One who's pot the 15 enchanted rides 24 Dray digiting lost around capital is one with the 150; 27 Character originally seen in *Grease* makes album 20; 28 Head th 2017.

- 1/6 15 people claim ginseng mostly damaging (8;9)
 2 Procedure to imagine earth facing 18 (8)
 3 Pervert loves crack (5)
 4 Prepared to access data on roadside bomb (7)
 5 Monopoline pichanes but church hart
- bomb (7)

 5 Monopolise pictures by church's last engraver (7)

 6 See 1

 7 Game, though 15 18 is not a variation (6)

 8 Files when keeping President concealed

- (c)
 14 Location city is under pressure to fix permanently (9)
 16 Can name the Spanish castle in Cornwall (8)
 (8)
 7 Way to restrate the

- T Way to restrail listener flighting to the 18 (6)

 19 Steals away, sleeps around and gets up (7)

 20 Design change for remainder probably all achievable in the end (7)

 21 Journalist in its element up country (6)

 22 Plan amateur dismissed (6)

 22 Plan amateur dismissed (6)

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