

FINANCIAL TIMES

TUESDAY 30 AUGUST 2022

INTERNATIONAL NEWSPAPER OF THE YEAR

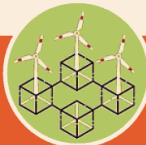
ASIA

Robotic actors

The machines leaving thespians in the wings — SARAH O'CONNOR, PAGE 15

Crypto climate

Can blockchain clean up the carbon market? — BIG READ, PAGE 13



Armed withdrawal

Lebanese bank customers take the Robin Hood route — RAYA JALABI, PAGE 14

Back to earth Hitch delays US moonshot

Disappointed spectators leave Max Brewer Bridge near Cape Canaveral yesterday after the launch of the Artemis mission from the Kennedy Space Center in Florida was cancelled.

Lift-off of the mission to orbit the moon will be attempted again on Friday after NASA said there was a problem with an engine cooling system.

After 12 years of development and significant cost overruns, the first launch of the moon mission is a significant test for Boeing, the rocket's main contractor. NASA portrayed the delay as part of the usual teething problems when launching a new rocket. Bill Nelson, NASA's administrator, said: "You don't light the candle until it's ready to go."

Launch shelved page 2



Phelan M. Eberhardt/AP

Briefing

► **Investors ramp up bets against euro**
Market wagers that the currency will fall in value have reached their highest level since the onset of pandemic more than two years ago, as the risk rises that high energy prices will spark recession. — PAGE 5

► **Scholz seeks air defence collaboration**
The German chancellor has called for a new European air defence system, saying Berlin will make "substantial" investments and invite its neighbours to participate in the project. — PAGE 4

► **Honda and LG to build US battery plant**
The Japanese carmaker and South Korean battery manufacturer LG Energy Solution have said they will invest \$4.4bn in a factory amid a US push to cut China out of supply chains. — PAGE 5; LEX, PAGE 16

► **Airlines braced for hard landing**

Warnings that passenger numbers will fall as incomes are squeezed by high inflation mean airlines face the prospect of a grim winter after a booming summer. — PAGE 5



► **Blacklisted companies hit back at Texas**
Those included on a list of companies the state sees as hostile to fossil fuels have attacked the process as haphazard, politicised and arbitrary, since it relied on a single ESG ranking. — PAGE 6; LEX, PAGE 16

► **Singapore reins in crypto aspirations**

The city-state's financial regulator has said it will beef up curbs on retail access to digital currencies after its aspirations to be seen as a safe hub for the volatile asset class were hurt by scandal. — PAGE 8

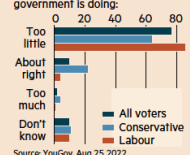
► **Ambani unveils green ambition for India**

Billionaire Mukesh Ambani has said India can be a "credible alternative" to China for green energy production, as he detailed a \$10bn bid to make the country an exporter of green technology. — PAGE 6

Datawatch

Help with living costs

% of UK adults who think the government is doing:



Source: YouGov, Aug 25-27, 2022

Some 94 per cent of Britons have experienced price increases over the past six months as energy costs and inflation rise. Most people, including 64 per cent of Conservatives, say the government is not doing enough to help those struggling

Brussels to unveil crisis action in bid to curb soaring energy prices

◆ Push to sever electricity and gas prices ◆ Utilities seek aid ◆ Crisis might last years, says Shell

TOM WILSON — LONDON
SAM FLEMMING AND VALENTINA POP — BRUSSELS

The EU is preparing emergency measures to curb soaring electricity prices, as Shell yesterday warned that the energy crisis could last for years and European utilities turned to the state for support.

With member states stepping up pressure to decouple electricity prices from the spiralling cost of gas, European Commission president Ursula von der Leyen said Brussels was working on "emergency intervention" as well as structural reform to the power market.

One of the leading ideas being considered is to alter EU market rules so electricity prices are no longer determined by natural gas costs but can instead take into account cheaper renewable energy.

The crisis was "exposing the limitations of our current electricity market design", von der Leyen said yesterday. "We need a new market model for electricity that really functions."

She said later in Berlin: "Currently, gas dominates the price of the electricity market... with these exorbitant prices, we'll have to decouple."

As the crisis threatened to tip Europe into recession, Ben van Beurden, Shell's chief executive, warned that the region might need rationing for years.

"It may well be that we have a number of winters where we have to somehow find solutions through efficiency savings, through rationing and a very, very quick build-out of alternatives," he said. "That this is going to be somehow easy, or over, I think is a fantasy that we should put aside."

He added that the crisis would test "solidarity" between EU states as governments were forced to decide how to keep key industries going.

In the wake of the Russian invasion of Ukraine, Europe's benchmark electricity price has risen to 10 times its decade-long average, in line with a 14-fold increase in the cost of gas.

The price surge has taken its toll on utilities even as oil and gas companies enjoy record profits.

Uniper, one of Germany's biggest utilities, said yesterday it had asked for a €4bn increase to a €9bn credit line from state-owned bank KfW to help secure its short-term liquidity. The Düsseldorf-based company, historically Europe's largest buyer of Russian gas, is among the bloc's biggest electricity generators.



Ursula von der Leyen: "We need a new market model for electricity that really functions"

Wien Energie, Austria's largest energy company, said wholesale gas and power prices were rising so fast that it was having difficulty financing its operations, adding that it was in discussions with the country's government.

Germany, the Czech Republic and Spain are stepping up efforts to sever the link between electricity and gas prices. Czech industry minister Jozef Siskela said he expected draft proposals in time for an emergency EU energy council next week.

"We have to separate electricity prices from gas prices," he said, suggesting the EU could cap the price of gas for electricity production.

Additional reporting by Sam Jones and Phillip Stafford
Utilities seek state bailout page 2

Kyiv's forces launch counter-strike to reverse Russian gains around Kherson

ROMAN OLEARCHYK AND JOHN PAUL RATHBONE — KYIV
MAX SEDDON — RIGA

Ukraine said it had launched a counter-offensive against Russian forces near the city of Kherson yesterday in an attempt to reverse some of the territorial gains made by Moscow in the six months since its full-scale invasion.

A Ukrainian government adviser confirmed that Kyiv had begun a major operation aimed at retaking the strategically important southern city captured by Russian forces early in the war.

"The next phase of the counter-offensive is beginning," the adviser said. "It started with massive attacks on Russian military infrastructure and logistics."

Russian investigators said a former Ukrainian lawmaker in Kherson who had sided with Moscow's occupying

forces had been shot dead in the city on Sunday alongside his girlfriend.

Oleksiy Kovalev, a senior official in Kherson's Moscow-appointed administration, was expelled from President Volodymyr Zelenskyy's party in April and charged with "collaborationist activity" for allegedly trading in goods with the Russia-annexed Crimean peninsula.

Ukraine's long-anticipated assault in Kherson is aimed at recapturing territory Russia seized in the war's early weeks. In the past two months, Ukraine has carried out dozens of strikes on supply lines and infrastructure supporting Moscow's occupation of the region.

Ukraine's Centre for Strategic Communication and Information Security wrote on Twitter that the armed forces had "breached the occupiers' first line of defence near Kherson", the only provincial capital Russia has captured since

President Vladimir Putin ordered the invasion in February.

A senior White House official said Ukraine's counter-offensive had already forced Russia to "pull resources" from the east of the country.

Andriy Yermak, Zelenskyy's chief of staff, wrote on Telegram that Ukraine's military was "grinding down the enemy" as "Kherson lay ahead".

Russian officials have played down the extent of the counter-attack. Sergei Aksyonov, Moscow-appointed governor of Crimea, wrote on Telegram that reports of the offensive were "the latest fake from Ukrainian propaganda".

But in a sign that Ukraine was coming closer to big population centres, an official installed by Russia in Nova Kakhovka, a city east of Kherson, said he had ordered the evacuation of civilians. Inspectors head for power plant page 4



Doubt clouds audit deal on US-listed Chinese groups

Analysis ► PAGE 2

Australia	A\$7000nc GST
China	RMB30
Hong Kong	HK\$33
India	Rup220
Indonesia	Rp45000
Japan	¥65000 JCT
Korea	₩500
Malaysia	RM150
Pakistan	Rup350
Philippines	Peso140
Singapore	S\$5800nc GST
Taiwan	NT\$40
Thailand	Bht140
Vietnam	US\$4.50

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World Markets

STOCK MARKETS				CURRENCIES				GOVERNMENT BONDS							
	Aug 29	Prev	%chg	Pair	Aug 29	Prev	%chg	Yield (%)	Aug 29	Prev	Chg				
S&P 500	4038.92	4057.66	-0.46	\$/€	0.998	1.002	6/5	1.002	0.998	US 2 yr	3.43	3.42	0.01		
Nasdaq Composite	12034.04	12141.71	-0.89	\$/£	1.189	1.179	£/\$	0.855	0.848	US 10 yr	3.12	3.03	0.09		
Dow Jones Ind	32163.59	32282.40	-0.37	\$/¥	0.854	0.860	€/¥	1.171	1.177	US 30 yr	3.26	3.20	0.06		
FTSE100	1687.87	1682.38	-0.32	\$/¥	138.725	137.270	¥/€	138.507	137.497	UK 2 yr	2.95	2.92	0.03		
Euro Stoxx 50	3569.45	3603.68	-0.95	¥/€	162.216	161.862	€ index	78.862	78.820	UK 10 yr	2.60	2.60	0.00		
FTSE 100	7427.31	7478.74	-0.70	\$/¥	0.968	0.965	\$/¥	1.134	1.136	UK 30 yr	2.88	2.88	0.00		
FTSE All-Share	4076.32	4103.35	-0.66	\$/¥	0.968	0.965	\$/¥	1.134	1.136	JPN 2 yr	-0.09	-0.09	0.00		
CAC 40	6222.28	6274.28	-0.83	CRYPTO								JPN 10 yr	0.24	0.22	0.02
Xetra Dax	12892.98	12971.47	-0.61		Aug 29	Prev	%chg			JPN 30 yr	1.19	1.15	0.05		



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Supporting the permitting processes, which can take as long as nine years for wind farms, "there is still potential for us to do better".

He said: "It's not only about regulation but also, as public authorities, how you deal with these processes. How do you make sure that when the contractor is doing this project, they're able to do it as swiftly as possible?"

Denmark has a strong record in wind power. In 1991, it became the first country to build an offshore wind farm and aims to become a net exporter of green energy by 2030.

Jørgensen will host an energy summit today on the Baltic Sea island of Bornholm, where Denmark hopes to reach a deal with Germany, Poland, Sweden, Finland, Estonia, Latvia and Lithuania

There is currently 2.8GW of wind power in the Baltic, of which 1.5GW is Danish. The Danes believe there is the potential for up to 93GW in the Baltic, but would need others to realise that potential. Talks on particular projects are already under way, officials have said.

European gas prices are almost 12 times higher than the levels this time last year, prompted by sharp cuts to gas flows from Russia in retaliation for the EU's support for Kyiv following the invasion of Ukraine.

This has increased the pressure to find ways to boost renewable energy production.

The European Parliament will vote in the coming month on proposals to

lockdowns. Four of Europe's biggest wind turbine manufacturers are loss-making and face increasingly acute financial challenges as a result of the



Wind power: Denmark aims to be a net exporter of green energy by 2030

come together to push investment given the level of investment in the electricity grid required to support renewable energy, which is typically far more volatile than fossil fuel power.

There are some indications that this is happening. Kriegers Flak, the newest wind farm in the Baltic Sea built in 2021, is the first offshore wind project to have connections to multiple countries.

Jørgensen said: "We need to move away from single countries looking just at their own energy needs. We need to work together on this."

He declined to give details of what he was targeting as a result of the Bornholm summit but said: "We'll be quite ambitious and I think people will be positively surprised by the outcome."

Energy and euro see Companies

Tuesday 30 August 2022

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FINANCIAL TIMES

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INTERNATIONAL

US student debt weighs heavily on a generation of borrowers

Biden loan forgiveness scheme follows decades of rapidly rising tuition fees

AMANDA CHU AND SARAH ANDERSEN
NEW YORK

Amanda Collins, 39, has spent nearly half her life paying back \$60,000 in student loans for her undergraduate degree at Morehead State University in Kentucky. A social worker and single mother, she took a second job marketing for a car lot to make ends meet.

Collins felt she could finally keep her head above water when the US government paused student loan payments in March 2020 in response to the coronavirus pandemic. Two years later, President Joe Biden has now announced up to \$20,000 in forgiveness for student loan holders, which will slash her remaining debt to \$5,000.

"I'm more of a 'I'll believe it when I see it' type person, but I'm at least hopeful to be out of this nightmare soon," said Collins, who says she has held off on marriage and returning to education because of student loan debt.

For months, America's student loan borrowers were left in limbo over when payments would restart. Whether to extend the pause again — or go a step further by fulfilling a campaign pledge to forgive a portion of student loan debt altogether — had been a thorny decision for Biden as he sought to avoid upsetting his Democratic base ahead of the midterms while giving Republicans no ammunition to use in their campaigning.

In a Financial Times survey of nearly 600 borrowers, half said they put money in savings or paid down other debts as a result of the pause on student loan payments. Twenty per cent were

able to make a large purchase like a car or a home. Last week the president announced a three-part plan to address the student debt crisis, cancelling \$10,000 in federal student loan debt for all borrowers earning less than \$125,000 and an additional \$10,000 for Pell Grant recipients, a federal scholarship for low-income students. The payment pause on federal student loans would also be extended for the seventh, and he said, final time to December 31.

The decision was largely cheered by the Democratic party. But critics from both sides of the political spectrum say forgiveness would stoke inflation and do nothing to solve the problem of affording college. "We have got to do more," said Democratic senator Bernie Sanders, who wants to make public colleges free. "At a time of massive income and wealth inequality, education must be a fundamental right for all."

Approximately 45mm Americans owe \$1.6tn in federal student loans, which make up the vast majority of student loan debt, according to the Federal Reserve Bank of New York. Biden's new plan would cancel the full remaining balance of student debt for 20mm Americans, according to the administration.

The mushrooming of student loan debt is a largely recent phenomenon in the US, as tuition rates soared in the past three decades. A single year of college at a four-year institution in the US averaged \$29,033 in 2020, more than double two decades ago and about twice the OECD average, according to the National Center for Education Statistics



Learning the hard way: a rally outside the White House in Washington backing the Biden scheme but demanding the cancellation of student debt
Shawn Theisen/EPA-EFE

and OECD data. The US has a hot-potch system for student loans where borrowers can tap multiple loan programmes and lenders. According to the Education Data Initiative, a research group, an additional \$140bn is held in private student loans, which unlike federal loans are not held by the US government and tend not to have fixed rates.

Rapidly rising tuition prices have hurt an entire generation's ability to save and reach milestones. According to a study by TIAA and MIT AgeLab, 84 per cent of borrowers said their student loans were negatively impacting the amount they were saving for retirement. Among borrowers who took out less than \$25,000, more than a third said the loans had an impact on when they planned to buy a home and nearly a fifth said loans affected their plans to have children.

Wande Ogun, 35, borrowed \$60,000 for her undergraduate degree at Rutgers University. Unable to find a well-paid journalism job after college, she put her loans in deferment and was later threatened with wage garnishment, a court

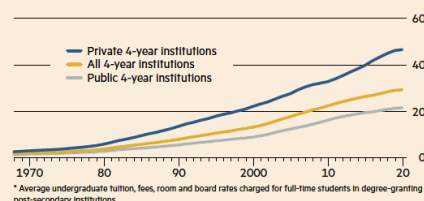
order to withhold money from a salary to pay off a debt. "A big part of me still feels like I graduated college yesterday," said Ogun. "I don't have a solid career. I don't have a retirement fund set up. I don't have any property. I'm not married. I don't have any children."

A study by the Social Policy Institute found that a universal \$10,000 cancellation could cause large behavioural shifts in households. When asked what changes they would make if they had \$10,000 forgiven, 44 per cent of student loan borrowers said they would save more for emergencies.

"We not only expect President Biden's student loan forgiveness policy to improve household economic stability... but we also expect this policy to improve economic mobility through wealth-building opportunities, like purchasing a new home," said Jason Jabbari, one of the authors of the study.

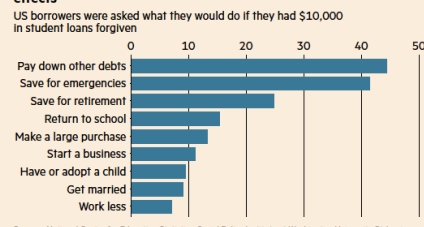
But some experts fear the forgiveness programme could worsen inequality. Constantine Yannelis, a professor at the University of Chicago, calls student loan

Tuition fees at US universities have skyrocketed
Annual total tuition, fees, room and board (\$'000)*



* Average undergraduate tuition, fees, room and board rates charged for full-time students in degree-granting post-secondary institutions

Forgiving \$10,000 in student loans would have far-reaching effects



Sources: National Center for Education Statistics; Social Policy Institute at Washington University St Louis

"A big part of me still feels like I graduated yesterday. I don't have a retirement fund or property. I'm not married. I don't have children"

Wande Ogun, 35.

forgiveness "regressive" because higher-income earners tend to hold more degrees and thus incur more student loan debt. "The announced forgiveness plans will primarily benefit upper- and middle-class earners," Yannelis said. "The fact that there is an income cap prevents dollars going to those earning very high amounts today, but many college graduates will earn significant amounts over their lives."

Biden has also proposed limiting monthly payments for undergraduate loans to 5 per cent of an individual's monthly income and forgive borrowers after 10 years of payments.

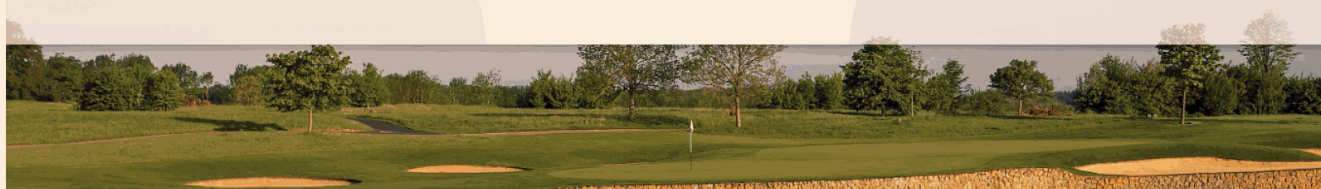
Liz Sampson owed \$58,217 for her undergraduate degree in health services administration at D'Youville University in Buffalo, New York. She juggled four jobs and lived pay cheque to pay cheque for three years to pay off her loans. Despite the burden of loans, she did not support student loan forgiveness. "It still does not solve the root cause of the problem — college is unaffordable."

Stephen Bush see Letters page

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FINANCIAL TIMES

Tuesday 30 August 2022

INTERNATIONAL

Germany

Defence looms large in Scholz vision for EU

Chancellor urges greater resilience and reform of governance in Brussels

GUY CHAZAN — BERLIN

Olaf Scholz has called for a new European air defence system, one of a series of proposals to improve the continent's resilience, and reform of EU governance following Russia's invasion of Ukraine.

In a speech in Prague yesterday, the German chancellor said Berlin intended to make "substantial" investments in air defence, and its neighbours would from the start be invited to participate.

"We have a lot of catching up to do in Europe when it comes to defending our-

selves against airborne and space-based threats," Scholz said. Germany would continue to send modern weapons to Ukraine, including air defence and radar systems and reconnaissance drones, and could play a "special" role in building up Ukraine's artillery.

Germany would also ensure that the planned EU rapid response force would be ready for deployment in 2025.

Much of the speech, delivered at Charles University, was focused on the idea of making Europe more "sovereign", better able to defend itself and more effective at countering competition from countries such as China.

EU nations must, said Scholz, develop the bloc's "promise of peace" by ensuring it was "able to safeguard its security,

independence and stability in the face of external challenges".

Scholz won praise in Europe for responding to Russia's war by launching an overhaul of German foreign and defence policy, promising to end the dependence on Russian energy, support Ukraine with weapons and invest much more in the German military.

But since then, opposition politicians have accused Scholz of being half-hearted in his backing for Kyiv and of lacking a strategic vision for Germany and Europe.

In a speech intended to silence the critics, he said the six states of the west Balkans should join the bloc, as well as Ukraine, Moldova and, eventually, Georgia. They "belong to us, to the free,

democratic part of Europe", he said. Croatia, Romania and Bulgaria should join the EU's passport-free Schengen area, he said.

But expansion would require changes to EU rules, especially on decision-making. Scholz said he favoured a shift to qualified majority voting in foreign and tax policy, "knowing well that this would have an impact on Germany, too".

He accepted that smaller states were wary of the proposal, and suggested the reform be limited initially to areas such as sanctions and human rights, "in which it is particularly important that we speak with one voice".

Scholz also called for changes to the composition of the European Parlia-

ment and the European Commission, without elaborating.

He proposed closer co-ordination between EU states on military matters, with regular meetings of EU defence ministers in Brussels and much closer co-operation between European arms companies on joint defence projects.

Scholz threw his weight behind a proposal put forward in May by French president Emmanuel Macron for a "community" of European democracies that would include non-EU members.

There was a need for a forum in which EU and non-EU leaders "can meet once or twice a year to discuss the central issues that affect our continent as a whole: security, energy, climate or connectivity", he added.

Zaporizhzhia

UN nuclear watchdog to inspect besieged power plant

HENRY FOY — BRUSSELS
ROMAN OLEARCHYK AND
JOHN PAUL RATHBONE — KYIV
MAX SEDDON — RIGA

A team from the UN's nuclear watchdog is heading to Ukraine to inspect the Zaporizhzhia power plant, which has come under repeated fire.

Europe's largest atomic plant was taken by Russian troops in March but is still operated by Ukrainian staff. Both sides have accused each other of actions that threaten the stability of its reactors.

Rafael Grossi, director-general of the International Atomic Energy Agency, said yesterday he would lead a mission to the Zaporizhzhia nuclear power plant this week.

"The day has come, [IAEA's] Support and Assistance Mission to Zaporizhzhia is now on its way," he wrote on Twitter. "We must protect the safety and security of Ukraine's and Europe's biggest nuclear facility. Proud to lead this mission which will be in ZNPP this week."

The team would assess damage, check safety and security systems, evaluate staff conditions and "perform urgent safeguard activities", said Grossi.

Mikhail Ulyanov, Russia's envoy to international organisations in Vienna, told the RIA Novosti state news wire the team included about 15 IAEA nuclear security specialists and a UN logistics and security team.

Grossi wanted to "leave several people" at Zaporizhzhia "on a full-time basis", he said.

Russia has stationed troops and weapons in and around the plant in southern Ukraine, a decision western capitals say risks catastrophe. Ukraine and its western backers have called on Russia to quit the facility and return control to Kyiv.

But Dmitry Peskov, the Kremlin spokesman, was quoted by Interfax as saying: "All countries must put pressure on the Ukrainian side so that they stop putting the continent of Europe in danger by shelling the Zaporizhzhia nuclear plant and the surrounding territories."

The team will enter the plant from Ukrainian-held territory, Peskov said, and Russia will then "ensure security at the required level" once it reaches the facility. Russia had "long waited for" the visit and thought it was "essential".

After the mission was announced, Mikhaïlo Podolyak, an adviser in the Ukrainian administration, posted a video via Twitter showing cars in flames after shelling in Enerhodar, the city where the plant is located.

Podolyak said Russian forces were shelling Enerhodar to create a "specially organised bloody show, the purpose of which is to intimidate local civilians, blaming Ukraine's Armed Forces and mask their 'nuclear' crimes".

Olga Kosharna, who worked for the Ukrainian state nuclear regulatory authority, said that on a scale from one to 10, her fears for the plant were six.

"It would rise to seven if the... plant lost its external power supply again [to pump water around the reactors] as there is a danger the back-up diesel generators might not work."

Explosions near the switchboard this month caused the shutdown of its power transformer and damaged radiation detectors. Last week, shelling dis-

Brazil presidency

Bolsonaro and Lula clash in heated first debate

MICHAEL POOLER — SÃO PAULO

Jair Bolsonaro accused his main election challenger Luiz Inácio Lula da Silva of overseeing "the most corrupt government in Brazil's history", as the frontrunners for the country's top office faced off in public for a first presidential debate.

Ahead of what is shaping up to be a polarised contest in Latin America's most populous country, tempers flared in a nearly three-hour televised event on Sunday evening that included six candidates.

Lula, the leftwing ex-president who is leading most opinion polls in the run-up to the October 2 ballot, countered by accusing far-right incumbent Bolsonaro of "destroying the country".

Yet Bolsonaro landed a strong blow against his rival, focusing on the theme of corruption, alluding to a political bribery scheme at state-controlled oil company Petrobras under the rule of Lula's Workers' party, or PT.

"Why do you want to return to power? To continue doing the same thing at Petrobras?" said Bolsonaro, 67, who is running under the banner of the Liberal party, or PL.

"Your government was marked by kleptocracy. In other words, a government based on theft. And this robbery was to gain support within parliament."

Lula insisted his administrations had taken measures to improve transparency and combat corruption. He listed achievements in the areas of job creation and social inclusion during his two presidencies, between 2003 and 2010, before going on the counter-offensive.

"It is a country that the current president is destroying. He's destroying it because he loves bravado," said Lula, 76.

"The country I left [behind] is a country that people miss. It's the country of employment, it's the country where the people had the right to live with dignity with their heads held high."

Debate in the campaign has largely centred on the economy, with Lula harking back to memories of poverty reduction during his time in power.



War games China and Russia start Vostok exercises

Russia and China will embark on military exercises this week, a sign of Moscow's deepening ties with Beijing and of the Kremlin's desire to project a "business as usual" image despite the mounting costs of its war in Ukraine.

The Vostok war games, which begin today, are held every four years in Russia's far east. A reported 300,000 of its troops drilled alongside those from China and Mongolia during the last exercises in 2018, with this year's manoeuvres given added symbolism by the fighting in Ukraine, which is now into its seventh month.

Western officials and defence analysts say they illustrate the "friendship without limits" that was pledged just before war broke out by presidents Vladimir Putin and Xi Jinping. The war games also underline the Kremlin's ability to maintain ties with other allies including Belarus and India, which will join the exercises.

Beijing has stressed that its participation in the Vostok exercises is "unrelated to the current international and regional situation". Russia and China held joint military exercises in China last year, and Washington has said it does not read any new significance into the latest drills.

Beijing when US House Speaker Nancy Pelosi visited Taiwan, which China views as a renegade province. Putin described Pelosi's trip as a "carefully planned provocation".

The adviser added: "Russia has lost the information war in the west, and Putin is now showing to the east that Russian life is going on as usual: that 'We're doing what we're doing in Ukraine, we're strong, and we're going to win'."

In a show of that strength, two Russian naval convoys last week passed through the Soya Strait that separates Russia and Japan, according to the defence ministry in Tokyo, suggesting they were heading to the exercises.

Still, with as much as three-quarters of the Russian army thought to be in Ukraine, analysts said the exercises would mostly be military theatre. While cancelling them would have sent the wrong signal, holding them may also be of little strategic benefit.

"The Vostok military exercises today make no sense," said Pavel Luzin, an independent Russian military analyst. "Almost all Russian combat-capable units are engaged in the war in Ukraine. It's just pretending that everything is still all right."

as the upper storeys of its building are on fire".

Even some Russian analysts have criticised its recent military performance and its weaponry, which has been on display at an international arms expo in Moscow.

Putin boasted at the expo's opening that the Russian military was "decades ahead" of its competitors, and that he was willing to share its technology with allies.

However, Ruslan Pukhov, a military analyst and member of the Russian defence ministry's public council, was critical of the armed forces for "not having enough high-precision weapons and modern aiming equipment" in Ukraine.

This meant that "in the case of an artillery duel, they often beat us", Pukhov said in a recent interview.

While some of Russia's weapons are on a par with leading western technologies, such as its S-400 air defence systems, a lack of western components has stymied the industry's technical capacity and hurt arms exports, analysts say. "Russia has been losing its defence export capabilities for several years," said Luzin, adding that its

Amid a cost of living crisis, Bolsonaro highlighted a recent temporary increase in welfare payments for the country's poorest citizens, who will receive about R\$600 (\$120) a month.

Chinese troops in the 2018 Vostok manoeuvres — Sergei Grits/AP

Still, "the fact that Vostok means 'east' tells you everything you need to know", said a western defence adviser, pointing to Moscow's support for

Ben Barry, a senior fellow at the International Institute for Strategic Studies think-tank, said Moscow was "keeping its shop displays going even

military industry had "been in deep crisis for at least six years and will not survive the current sanctions". John Paul Rathbone

connected it from the Ukrainian grid. Grossi said "all safety systems remained operational and there had been no increase in radiation levels" after artillery attacks around the plant.

Energy

California governor performs volte-face and seeks to extend life of last atomic facility

CHRISTOPHER GRIMES — LOS ANGELES

After nearly 40 years of protesting against the Diablo Canyon nuclear power plant, Linda Seeley thought victory was finally at hand.

Seeley and other members of Mothers for Peace — an activist group with roots in the 1960s antiwar movement —

cheered when Pacific Gas and Electric, the utility that operates California's last nuclear power station, announced in 2016 that it would close by 2025.

But governor Gavin Newsom, a long-time proponent of shutting down the plant, has reversed course and embarked on a last-minute effort to extend its operation by a decade. His adminis-

tration has cited "unprecedented stress" on the state's energy system as a reason for keeping open Diablo Canyon, which accounts for 9 per cent of the state's generation and 17 per cent of its electricity from carbon-free sources. The California legislature will need to vote on whether to extend its operating life by Wednesday.

Seeley, who lives seven miles from the plant in San Luis Obispo county, is furious. "With this proposal, Gavin Newsom is keeping an asset that is antiquated, needs tons of upgrades [and] has a six-year history of deferred maintenance," she said. "It would be unconscionable to allow the plant to go on operating without doing the due diligence needed to make sure it is safe enough to work."

Diablo Canyon's coastal location sits on faultlines, prompting concerns that seismic activity could trigger a nuclear meltdown. Proponents of extending the plant's life note it has operated without incident since 1985. They argue its steady power output is crucial as the state reaches for a goal of carbon-free

electricity by 2045. California is also phasing out sales of petrol-fuelled cars and some communities aim to electrify home heating and appliances, which will increase demand for power.

The grid is already straining to meet peak demand in the face of extreme weather fuelled by a changing climate. In 2020 a record heatwave and forest

fires drove rolling blackouts for thousands of customers. This year drought has severely depleted the water that feeds California's hydroelectric dams.

California is a leader in renewable generation, with a quarter of its electricity powered by solar and wind resources in 2021 compared with 12 per cent for the US as a whole. But problems in the supply chain and cost inflation threaten to impede their expansion, claim state officials. The state's power system will hit a "critical inflection point after Diablo Canyon retires", the California Independent System Operator (Caiso), which manages most of the state's grid, warned in a filing last year.

Defenders of Diablo Canyon point to the consequences in other states that have closed nuclear power plants facilities. In New York state, wholesale electricity prices rose after the Indian Point nuclear plants closed in 2020 and 2021, while carbon emissions rose due to increased reliance on natural gas power.

The Biden administration is promoting nuclear energy as a way to reach

clean energy goals. The energy department announced a \$6bn plan to support nuclear power reactors at risk of shutting. If the California legislature gives Diablo Canyon a lifeline, it could apply for those funds.

"As a regulated utility, we follow the energy policies of the state," said San Francisco-based PG&E, adding it was "ready to support the state's goals to ensure statewide electric reliability and minimise greenhouse gas emissions".

A growing number of scientists and activists have embraced nuclear power as an important tool in reducing carbon emissions despite their high costs and safety concerns. Heather Hoff, who founded Mothers for Nuclear in 2016 to advocate for keeping Diablo Canyon open, said she felt vindicated by the volte-face by Newsom, a Democrat. "It feels rewarding," said Hoff, who is also a PG&E employee at the plant.

Success for Newsom would be a boost for nuclear plants in other states. "I'm confident we'll land this," he said. See Lex

Contracts & Tenders

SCOUTING NOTICE - SEARCH FOR ECONOMIC OPERATORS TO PERFORM WASTE DISPOSAL / RECOVERY / BROKERAGE SERVICES

Alia Servizi Ambientali S.p.A., based in via Baccio da Montelupo 52 - 50142 Florence - Italy, is the concessionaire company for the collection and treatment of urban waste in the middle of Tuscany Region, in a territory that counts a population of about 1,5 million inhabitants. Alia is searching proven experience companies in the area of municipal waste management, to stipulate multi-year contracts for the disposal and/or recovery of non-hazardous special waste deriving from the treatment of unsorted municipal waste, and municipal waste from separate collection, in its own plants or as broker of third party plants.

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- EER 19 05 01 - non-composted fraction of municipal and similar wastes
- EER 19 05 01 - Stabilized organic fraction
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Alia Servizi Ambientali S.p.A.

Tuesday 30 August 2022

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FINANCIAL TIMES

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Devil in the detail There is still money to be made in Asia, but Prada is weighing a return to its roots with Milan listing ● LEX, PAGE 16

Companies & Markets

Energy crisis pushes bets against euro to two-year high

- Fears mount over recession threat
- Rate signals by Fed spur dollar bulls

MARTIN ARNOLD — FRANKFURT
NIKOU ASGAR — LONDON

Investor bets that the euro will fall in value have reached their highest level since the pandemic hit Europe more than two years ago, as the risk grows that record energy prices will drag the region into recession.

Rising wagers against the euro also reflect bullishness on the dollar, which has been boosted by signals from the Federal Reserve, reinforced by Jay Powell, its chair, on Friday that it will keep raising rates to tackle inflation even in a slowdown.

Europe is also grappling with steeply rising prices. At the annual gathering of

dollar in the past year. It hit a 20-year low last week as wholesale gas and electricity prices surged to all-time highs in Europe on fears of Russia throttling crucial energy supplies.

"The euro right now is just purely a function of the European energy shock," said Mark McCormick, global head of FX strategy at TD Securities. "The biggest driver for the next couple of weeks involves what happens with Nord Stream 1 and heightened gas prices."

He said TD had entered a short euro trade when it was trading at \$103.45 and took profit after it recently fell to parity against the dollar.

"There is some room that the euro could push lower... The short-term set-up's not great."

The weak euro is fuelling inflation, increasing the price of imports including energy. Economists expect eurozone consumer prices will have risen at a record rate of 9 per cent in the year to August when the latest data are published on Wednesday.

Some ECB policymakers have proposed stepping up the pace at which it raises rates to rein in inflation, saying it should consider a 0.75 percentage point rise at its meeting on September 8, while Schnabel told Jackson Hole that a larger "sacrifice" would be needed to tame inflation than during previous episodes of tightening.

One risk for investors betting against the euro was that the longstanding flow of money away from Europe to invest in the US and other regions could reverse over the next six to 12 months as the ECB raises rates, making eurozone bonds more attractive, said Adams.

"The relative attractiveness of holding European paper is going up," he said. For European investors, long-term returns from eurozone government bonds could soon exceed those from US equivalents after deducting the cost of hedging against currency moves.

Flight blight Inflation toll on personal income threatens to cancel airline sector recovery



Fine line: carriers struggle with high demand as they fret over a deteriorating economic outlook — Neal Bennett/Getty

PHILIP GEORGIADIS — LONDON

Airlines are braced for a grim winter after struggling under the weight of booming demand for travel in the summer, as the economic slowdown threatens their recovery.

The dire outlook has prompted warnings that passenger numbers could fall as household disposable incomes come under pressure from high inflation and soaring energy bills.

Despite upgrading its passenger forecasts, Gatwick airport said uncertainty on the economy was a threat to an industry shaken by rising fuel costs and staff shortages. "It could impact the overall propensity for travel," said Jim Butler, Gatwick's finance chief.

Although airlines have not reported a significant hit to bookings, he was "cautious about what we might see in the winter or next year". While it might not hit many peoples' ability to take a big annual holiday, Butler said,

it could weigh on demand for "the second or third trip".

One European airline executive said the "outlook is still very uncertain" for the winter, particularly as the end of the summer was never a strong booking period. He projected less demand for leisure travel in the fourth quarter, including a reduction in shorter city breaks.

It would mean a further blow to airlines and their shares, which have been under pressure even as demand surged in the summer with airports and carriers struggling. The MSCI index of European airline shares has lost 15 per cent this year, with groups including British Airways owner IAG, Ryanair and Air France-KLM down about 30 per cent. "There is a lot of negativity on airline stocks... People are saying you don't usually buy airlines into a recession," said Stephen Furlong, an analyst at Dary.

The revenue of the seven airlines

covered by Moody's in 2009 fell about 20 per cent in the recession that followed the financial crisis, and operating profit fell 50 per cent.

Furlong said the industry was in an unusual position, with a weakening economic outlook coinciding with pent-up demand that has not shown any signs of slowing down following two years of travel curbs. No big airline has publicly reported a slowdown in bookings. "People are hugely worried about the macro, and yet the numbers are really good," he said.

Bjørn Tore Larsen, chief executive of new Norwegian long-haul airline Norse Atlantic, said a recession would "of course" hit demand, but travel was still "very high on people's lists". He said in August: "I think many people would go for that weekend away, rather than buy a new TV."

Moody's said in a report that there was scope for airlines to recover more of their pre-pandemic business.

Honda and LG to build \$4.4bn US battery plant

KANA INAGAKI — TOKYO
CHRISTIAN DAVIES — SEOUL

Japanese carmaker Honda and South Korean battery maker LG Energy Solution will invest \$4.4bn to build a battery plant in the US, amid increasing pressure from Washington to cut China out of supply chains for electric vehicles.

It will be the first manufacturing facility for EV batteries in the US for Honda, which has committed to ending fossil-fuelled vehicles by 2040.

The slew of recent investments in the US by Asian carmakers and battery manufacturers comes as the US tightens environmental regulations, with California last week enacting rules that will halt sales of new petrol-powered vehicles by 2035.

"Honda is committed to the local procurement of EV batteries which is a critical component of EVs," chief executive Toshihiro Mibe said.

LG Energy Solution said the two companies made the decision "based on the shared belief that expanding local electric vehicle production and ensuring the timely supply of batteries would put them in the best position to target the rapidly growing North American EV market".

The joint venture, where LG will hold 51 per cent and Honda 49 per cent, aims to begin construction next year. Mass production of lithium-ion battery cells is expected to start by the end of 2025.

Along with fellow leading battery makers SK On and Samsung SDI, LG Energy Solution is expected to be one of the main beneficiaries of the US Inflation Reduction Act, which was signed into law by president Joe Biden this month. The legislation aims to eliminate from the US supply chain battery components coming from "foreign entities of concern", most notably China.

South Korea's three leading battery companies enjoy more than a quarter of global market share, according to SNE Research, and are pushing into the US.

SK On recently finalised a \$7.8bn joint venture with Ford to build three battery plants in the US, while LG Energy Solution and General Motors announced a \$2.6bn investment earlier this year to build a third plant as part of their joint venture in Michigan. Samsung SDI is reported to be accelerating a similar partnership with Stellantis, the group behind Peugeot, Fiat Chrysler and Jeep. Lex page 16

Student's winning meme-stock wager concentrates minds

INSIDE BUSINESS TECHNOLOGY

Patrick
Jenkins



When news emerged recently of the 20-year-old student who had made \$110mn buying and selling shares in a tired homeware brand, there was an understandable uproar. The Financial Times revealed that Jake Freeman had invested \$27mn in Bed Bath & Beyond in July, selling it only a few weeks later for nearly five times as much.

Social media exploded with snide commentary, most of it focused on how entitled Freeman was to have \$27mn at his disposal in the first place. (Family and friends helped fund the trade, Freeman told the FT.) A few sniped, too, that the return was "not that impressive". (Really?)

Among the tide of Twitter criticism, though, no one thought to make the obvious critique: Freeman bet his whole \$27mn on one historically volatile stock (BB&B has gyrated between \$4 and \$28 over the past year, often moving wildly with no other impetus than social media hype). In doing so, he junked the old-school investment principle that no matter what your timeframe, a good investor will traditionally choose a broad balance of equities, bonds and other ideally non-correlated assets. In short, a good investor diversifies risk.

Or to quote Nobel laureate Harry Markowitz, who in 1952 coined the

"modern portfolio theory" concept, "in choosing a portfolio, investors should seek broad diversification and be 'willing to ride out the bad as well as the good times'". Markowitz couldn't have known quite how influential his thinking would prove. Among other things, he helped turbo-charge a previously modest mutual fund industry. By the end of last year, according to data provider Statista, \$27tn was invested in mutual funds in the US alone, with a further \$7tn in exchange traded funds.

Over the past decade, claims mutual fund giant Vanguard, you could have earned an annual 13.8 per cent tracking the S&P 500. That is impressive by most measures, but it is a long way from Freeman's 400 per cent in a month.

Though the scale and speed of the student's spoils attracted particular attention, he is really just a poster boy for the "meme stock" generation of investors, who have spent the past couple of years looking for big quick wins from buying and selling undervalued stocks or hyping and dumping crypto coins, often with borrowed money.

The grounds for criticism are obvious: this is gambling, not investing; crypto is a Ponzi scheme; the scope for financial misery is vast. Yet among the valid scepticism, there is a kernel of validity in what Freeman has spotlighted. Though he hails from a moneyed background, he is a generation that has felt deprived of the asset appreciation enjoyed by their parents and grandparents.

The resentment will have been sharpened by cost of living increases unseen for nearly half a century. For many, the hunt for high-risk, high-return gains

Freeman junked the old-school principle that no matter what the timeframe, risk should be diversified

may feel like an imperative – all the more so given the generally lacklustre returns in markets as a whole, and a daunting macro outlook, both economically and geopolitically. So far this year, the S&P 500 has lost 14 per cent.

Some of the world's wildest investors might agree – at least up to a point. Equity long-short hedge funds typically have very concentrated portfolios. Warren Buffett now has three-quarters of his equity investments in five companies (Apple, Bank of America, Chevron, Coca-Cola and American Express).

In the UK, Baillie Gifford's Scottish Mortgage Investment Trust has prospered largely thanks to outsized bets on tech stocks such as Tesla (though predictably it's suffered this year).

There is academic research to support high-concentration investment. An influential 2006 paper led by Klaus Baks at Goizueta Business School found "a positive relation between mutual fund performance and managers' willingness to take big bets in a relatively small number of stocks". Outperformance amounted to as much as 4 per cent a year, Baks said.

This is not to dismiss the idea of diversification, says James Anderson, who recently stepped down at Scottish Mortgage; rather stockpickers should concentrate on a small number of "conviction" holdings, and an end investor should select a range of stockpickers.

But Anderson stresses that even big conviction investors are a long way from Freeman on the metric that arguably makes the biggest difference between punting and investing: timeframe. So a month is too short? "Even a 12-month horizon is very difficult," he says. "You have to invest for the really long-term: at least 10 years, preferably for ever."

patrick.jenkins@ft.com

Contracts & Tenders

NOTICE OF INVITATION TO TENDER BY ABSTRACT

Aerporti di Puglia S.p.A. in order to operationalize and develop the national strategic infrastructure "Cratiale Spaceport", announces that the telematic open procedure is called, pursuant to Articles 60 and 122 of Legislative Decree, 50/2016, regarding the award of engineering and architecture services related to both the actualization of the interventions contained in the current Taranto-Grottole Airport Development Plan (in order to define and plan the works to be carried out as part of the "Cratiale Spaceport" project, designed to promote and develop in a sustainable way the suborbital commercial flight, the "New Space Economy" (the "Advanced Air Mobility"), and the drafting of the Technical and Economic Feasibility Project of the necessary infrastructures (apron, hangar, buildings).

The estimated value of the contract for the Engineering Services (single lot, CUP B44G2200020001, CIG 9367498FE1) is € 1,627,151.07, net of social security and welfare charges, non-taxable VAT art. 9.8 of D.P.R. n. 633/72, with no security charges (services of an intellectual nature).

The award will be made by application of the criterion of the most economically advantageous offer identified on the basis of the best value for money, pursuant to Article 95, paragraph 2, of Legislative Decree 50/2016.

The call for tenders, specifications and related annexes can be found on the website www.aeropordipuglia.it, in the Tenders 2022 section, and on the EMPULIA telematics platform www.empuliat.it.

The telematic submission of bids must be made through the EMPULIA Portal, which can be reached at the previously mentioned link www.empuliat.it, no later than 12:00 noon on 7/10/2022.

The Chairman of the Board of Directors
Dr. Antonio Maria Vassallo

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FINANCIAL TIMES

Tuesday 30 August 2022

COMPANIES & MARKETS

Financials

Targeted groups attack Texas ESG blacklist

Banks and fund managers reject accusation that they are 'hostile to fossil fuel'

BROOKE MASTERS AND
PATRICK TEMPLE-WEST — NEW YORK

Financial groups included on a blacklist of companies that Texas considers hostile to fossil fuels have attacked the process as politicised and arbitrary.

Texas comptroller Glenn Hegar is implementing a 2021 law that requires state pension and school funds to divest shares they hold in listed financial groups which, in the government's view, "boycott energy companies".

But critics complain that his office relied on a single ESG ranking to reduce

the pool to 19 banks and asset managers. Meanwhile, targeted firms claim the state communicated with them so hazily that it was not clear that all companies knew that they were on the final list of 10, which was announced last week. BlackRock was the sole US entity on the list, which also included Credit Suisse, UBS and BNP Paribas.

A parallel list of nearly 350 investment funds that Texas has also targeted for divestment drew similar complaints from sponsors who said some of the products were standard money market funds.

The state sent letters in March asking companies about their corporate treatment of fossil fuel groups and whether they sponsored any funds that excluded them. Several recipients told the Finan-

cial Times that their letters were sent to out-of-date addresses or to retired executives and several European groups in the final list of 10 never responded to the state's inquiries.

The initial process that selected 19

'We do not believe this was a fact-based decision. We see this as the politicisation of pension funds'

financial groups for potential inclusion on the "hostile" list came in for particular criticism. The state included companies that were in the top half of corporate ESG-risk ratings compiled by MSCI. That knocked out a number of very

large banks and asset managers that have signed official commitments to reduce their carbon footprint, another criteria.

ESG risk ratings are not standardised and may measure the way a company is managing a range of issues. They are not "necessarily focused on climate change. It is not a good tool for what [Texas officials] are using it for," said Simon McMahon, global head of ESG research at Sustainability, which produces a similar screening tool.

If Texas had used Sustainability's version, its list might have been quite different.

US fund managers Janus Henderson and Franklin Templeton come out with better scores than BlackRock on Sustainability's ranking. Similarly, Citigroup

and Bank of America come above Credit Suisse.

Texas decided that if any of the 19 companies sponsored more than 10 funds on its "hostile to fossil fuel" list, it would be included in the final boycott list. BlackRock is the only company on the list with more than 10 such funds. "We do not believe this was a fact-based decision," said Mark McCombe, head of BlackRock in the US. "We see this as the politicisation of pension funds."

BNY Mellon said "we believe [our] funds were erroneously included". It added that seven Dreyfus branded funds on the list were government money market funds and six more "regularly invest in the energy sector".

Credit Suisse said "we look forward to engaging with the Texas Comptroller to

resolve this matter... Credit Suisse is not boycotting the energy sector", UBS said, "we firmly disagree with the Comptroller's decision".

Even one of the targeted companies that convinced Texas not to include it in the final 10 said it did not understand why its argument succeeded while others' did not.

The Texas comptroller denied that the process was politicised or arbitrary. "I wanted to make sure that the process that we follow in coming up with our list is one that is open, is transparent, and it is explainable to everybody," Hegar told the Financial Times.

He said BlackRock had not been singled out. His office has given companies and fund sponsors 90 days to offer new information.

Financials. Delisting threat

US audit deal with Beijing leaves investors wary

Analysts point to differing interpretations of agreement on regulatory inspections

TABBY KINDER, CHENG LENG AND
HUDSON LOCKETT — HONG KONG

In 2015, after years of negotiations, China yielded to pressure and agreed to let US regulators inspect the audit work of Chinese companies whose securities traded in New York.

However, the historic breakthrough was shattered when US officials travelled to Beijing to check the audits of a large tech group and were stonewalled by regulators.

Almost 10 years later, US officials, as well as hundreds of Chinese companies and global investors that own about \$1.4tn of their shares, are hoping that a new agreement will produce a very different outcome.

Last week, Washington and Beijing announced that they had reached another deal for US accounting regulators to inspect China-based audits, which could prevent about 200 Chinese companies being kicked off US exchanges.

Details are scant, but the agreement was a rare concession from Chinese authorities at a time when geopolitical tensions with the west are high.

People close to the matter said that



The simultaneous announcements threw up new sticking points. There was a clear clash between the two sides' statements last week regarding the level of involvement that Chinese authorities will have in the US audit inspections.

The CSRC said that audit work papers "will be obtained by and transferred through the Chinese side" and that China would also "take part in and assist" PCAOB interviews of relevant personnel of audit firms. Yet the PCAOB said it had sole discretion to select firms "without consultation with, nor input from Chinese authorities".

"There have been so many head fakes on this subject that people are cautious regardless of the language disparity," said the portfolio manager.

The PCAOB has been unwavering in its demand for complete access to the work papers and personnel it needs to inspect a company's financial audit. Its chair Erica Williams said on Friday it would accept "no loopholes and no exceptions".

It is not yet known what company audits the US will choose to inspect, or whether its list will include the audits of the five state-owned energy, industrial and finance giants that delisted from New York this month. The move was widely seen as an attempt to exempt those groups from US inspections.

For the US, the credibility of its own capital markets relies on its forcing China to comply with its audit rules.

people close to the matter said that the new agreement was based on the same deal signed between the two superpowers in 2013. Because of China's strict coronavirus pandemic protocols, auditors – the bulk of which are the Chinese arms of Big Four accountants PwC, Deloitte, KPMG and EY – will transfer companies' financial working papers to Hong Kong and US officials will inspect them there.

Officials from the Public Company Accounting and Oversight Board (PCAOB), the US accounting watchdog, will travel to Hong Kong in mid-September to see if China keeps its word.

"This is different from 2013," said Jason Elder, a corporate finance partner at law firm Mayer Brown in Hong Kong. "The pressure and consequences of failure to deliver this time around are more acute."

Since the agreement was announced on Friday morning in New York, stakeholders in the debate around US access to Chinese auditors have been resoundingly cautious.

Despite shares of US-listed China groups climbing last week on reports that a deal was close, by Friday afternoon investors were again shedding their holdings. Markets have shown little sign that the prolonged volatility around a countdown to Chinese delistings, which would take effect in 2024, has ended.



Markets have shown little sign that the prolonged volatility around a countdown to Chinese delistings, which would take effect in 2024, has ended

Michael Nagler/Bloomberg

Goldman Sachs, which has been one of the biggest beneficiaries of Chinese companies listing in New York during the past two decades, thinks it is still a coin toss.

On Monday, the bank's analysts estimated that there was a 50 per cent chance that Chinese shares would be forced off Wall Street, down from around 95 per cent two months ago.

"My advice is don't count the chickens before they hatch," said Clement Chan, head of assurance at accounting firm BDO in Hong Kong. "This is a positive

development. However, the devil is in the details."

The compliance of – and potential liability for – the auditors to Chinese companies will also be a crucial detail to define over the coming months as they face an unprecedented level of international scrutiny of their work.

US listings by Chinese companies are considered a barometer for the state of financial relations between the two largest superpowers.

Those relations were at a 30-year low when the US introduced the Holding Foreign Companies Accountable Act in 2020, amid a trade war with China and shortly after a scandal at Luckin Coffee, China's largest coffee chain, which defrauded Nasdaq investors in a \$300m accounting scandal.

The legislation required foreign companies traded on US markets to make their audit work available for inspection every three years, or face a trading ban.

Relations have since deteriorated further, weakening investor sentiment to the extent that the Golden Dragon index that tracks Chinese tech groups on the Nasdaq has lost almost a third of its value in the past 12 months, triple the loss of the S&P 500.

China has also been contending with significant domestic issues: its

economy contracted sharply in the second quarter of this year and annual growth has slowed after widespread Covid-19 lockdowns.

"No one is confident but everyone understands that there is political willingness to make it work," said a portfolio manager at a major global asset manager that owns large US-listed Chinese tech companies. "It is not a coincidence that this has come out at the same time as China is rolling out measures to support its economy."

That willingness is so stark that China even appeared to have resolved a key sticking point that has held up years of negotiations. Its top securities regulator, the China Securities Regulatory Commission, said on Friday that the two sides had found a "feasible path" for the US to carry out audit inspections while maintaining China's national security over sensitive data.

But Chinese bureaucracy is vast and allows for a huge number of authorities to intervene on what they consider to be national security information.

"Only when a China auditor is handing over a lot of information to the PCAOB do we know that China has resolved this issue of what is and what is not sensitive data," said a person close to the US side of the talks.

'My advice is don't count the chickens before they hatch. This is positive, but the devil is in the details'

to comply with its own rules.

Chinese companies listing in New York via American depositary receipts under a "variable interest entity" structure, whereby investors already have fewer rights to the underlying assets and less information compared with other US equities, can pose a risk to its reputation.

Despite the economic importance of collaboration between American and Chinese regulators, several political and technical factors could still derail the next months of work in Hong Kong.

"The CSRC may want to be more than just a back-seat driver, and try to drive the bus itself," said Wang Qi, chief executive of fund manager MegaTrust Investment in Hong Kong. "This will be the first major collaboration between the financial regulators of the two countries... It will certainly take some time for the two parties to hammer out the execution details."

As inspections begin to be carried out next month, China will have to decide how it wants to strike the balance of maintaining US listings and safeguarding political and national security.

"The US is a big market that China cannot ignore," said a corporate lawyer in Shanghai who has worked on China-related deals. "There is no real alternative solution for Chinese companies... and financing offshore is needed."

Energy

Ambani aims to make India a 'credible alternative' to China in green power production

CHLOE CORNISH — MUMBAI

Billionaire Mukesh Ambani said India could become a "credible alternative" to China for green energy production, as he outlined details of a \$10bn investment in renewables that the company made last year.

The chair of Reliance Industries, India's biggest listed company, said developing this part of the business would help the country become a net exporter of green energy and a world leader in clean energy manufacturing.

Ambani made the comment at the company's annual general meeting yesterday. It is the first time the tycoon, known for bringing cheap mobile data

to India, has measured his vaulting green energy ambitions against India's bigger regional economic rival, China, which is a top exporter of cheap renewable energy technology, such as photovoltaic solar panels.

"China's capacity is huge," said Vibhuti Garg, India lead at the Institute for Energy Economics and Financial Analysis. Ambani is "not saying we're going to beat China," she added, but aiming for a "large scale which was missing in any other country other than China."

Supply chain problems during the pandemic have driven businesses that relied on China's manufacturing capacity to seek other options, in a "China plus one" strategy that India hopes to



Mukesh Ambani revealing his green energy ambitions at AGM — Chirag Singh/Bloomberg

benefit from. Reliance's profitability is still driven by its fossil fuel intensive oil refining business, the world's biggest. But Ambani has been rapidly diversifying the conglomerate in recent years.

Renewable energy is his latest bet, and last year he unveiled plans to build four giant factories in Gujarat, for production of photovoltaic panels, energy storage, green hydrogen and fuel cell systems. Yesterday, Ambani announced a fifth plant would be built: a power electronics plant, to make the equipment used to link up new energy systems.

Ambani said the company's solar panel factory would also start production in 2024, and its energy storage plant would be making battery packs by

next year. He pledged to transition from making hydrogen derived from natural gas to "green hydrogen" by 2025.

Ambani and Gautam Adani, a coal-to-airports tycoon, are emerging as the biggest new players in India's green energy race, after prime minister Narendra Modi set ambitious energy transition targets at last year's COP26.

The company made a slew of other announcements, including the rollout of subsidiary Reliance's 5G services to major cities in October and a 5G smartphone tie-up with Google. It also announced the launch of a fast-moving consumer goods company this year, putting it in competition with giants such as Hindustan Unilever.

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FINANCIAL TIMES

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COMPANIES & MARKETS

Chanos bets on demise of the data centre

Short seller says shift to cloud led by Big Tech will be decisive, but others believe there is life yet in bricks-and-mortar Reits

ANNA GROSS — LONDON

Short seller Jim Chanos has a new target: the humble data centre.

In June, Chanos – who won bets on the downfall of US energy group Enron and of German payments company Wirecard – said his eponymous investment firm was raising several hundred million dollars for a fund that would take short positions in US-listed data centre groups.

He argued that the move to the cloud, predominantly driven by big tech groups such as Microsoft, Amazon and Google, was the "enemy" of bricks-and-mortar real estate investment trusts such as Equinix and Digital Realty.

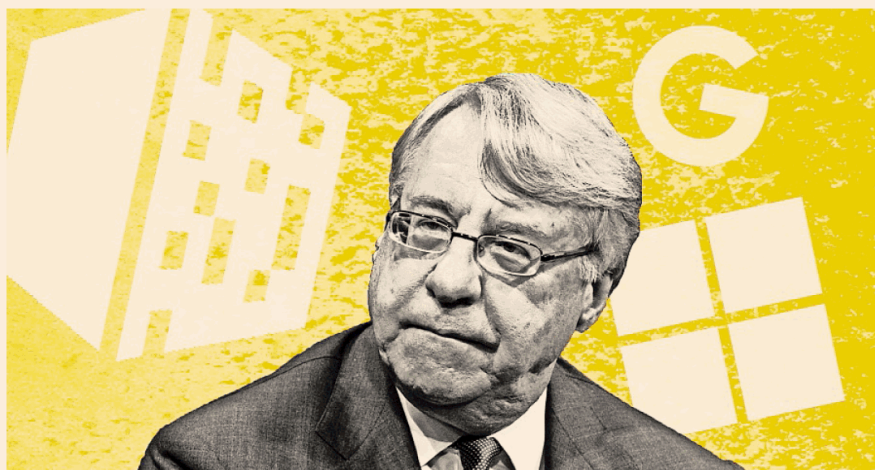
These participants buy land, build complexes, source energy contracts, and allow companies to lease space in their centres to process their data.

Big tech groups, by contrast, use their own equipment and process clients' data for them in the public cloud. Dubbed hyperscalers, they store hardware and server equipment in real estate investment trusts, such as Equinix, or increasingly build their own super-sized centres to meet ballooning demand for their services. One Microsoft data centre in Chicago spans 700,000 sq ft, the size of 52 Olympic swimming pools.

Chanos, who has been hurt by a long-standing bet against Tesla, believes Big Tech, which he says accounts for about two-thirds of data centre demand, will increasingly move to building and running its own real estate. He argues that they will do this because the technology used by legacy groups is becoming old and redundant and because cash-rich Big Tech can build more cheaply. This will render the independent Reits redundant.

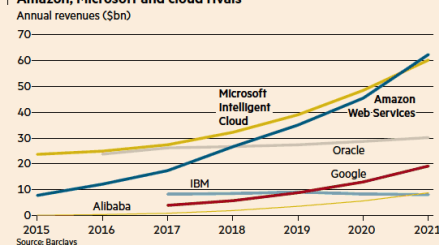
Other investors argue that the data centre and specialist operators have life in them yet.

Nathan Luckey, senior managing director of digital infrastructure at Macquarie Asset Management, who has spearheaded several investments in data centre assets, said the best companies were those sitting on prime real estate in

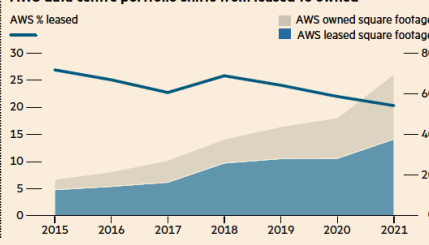


Jim Chanos argues that businesses such as Digital Realty are under threat from the drive to the cloud by the likes of Microsoft and Google — FT montage/Bloomberg

Amazon, Microsoft and cloud rivals



AWS data centre portfolio shifts from leased to owned



though we realise there are some risks to our thesis," he said.

One risk is that should the land, labour and energy supply crunches ease, large tech groups might shift to constructing more of their own data centres.

For independent operators to maintain their appeal, differentiation was vital, analysts said.

Most big businesses use a suite of different services, from Gmail to Workday, hosted on different clouds. For all of these software applications to run smoothly together, there need to be physical locations where data can pass quickly and seamlessly one to the other.

Equinix's "secret sauce" was this networking capability, according to Meyers, given it was nearly impossible for hyperscalers to replicate.

"Cloud service providers have spent billions building their own data centres," said Nick Del Deo, an analyst at MoffettNathanson. "They have not spent a single dollar trying to replicate what Equinix has built."

"Interconnection" constitutes about 35 per cent of Equinix's earnings, compared with 14 per cent of Digital Realty's, according to MoffettNathanson calculations – though the latter has sought to expand in this market.

Digital Realty and private groups CyrusOne and CloudHQ have focused heavily on the bricks-and-mortar business. This segment is more vulnerable to competition from the big cloud service providers and smaller data centre groups that are being pumped with billions of capital from private equity firms and infrastructure investment funds.

"I do think there may be a glut at some point, because everyone and their uncle is building data centres at the moment," said David Friend, chief executive of Wasabi, a cloud storage group.

"Right now there is an undersupply, but it's going to be like oil prices. Everyone is going to drill, drill, drill. And then it will force prices down until there's greater consolidation."

Additional reporting by Harriet Agnew

strategic locations. "Hyperscalers are looking for trusted partners where they can house more and more compute power," he said. "If there is someone who already has land and a property in a market they want to expand into, that's a very relevant factor."

Billions of dollars in private equity capital have poured into the industry, with bulls arguing that traditional data centre groups will remain indispensable given their strong position in top sites and expertise in procuring resources such as power, land and labour. They cite their privileged position as "carrier hotels", meaning they connect lots of different businesses.

These groups and their PE cheerleaders are wagering that data demand will continue to grow and a wide range of customers – from cloud service providers to banks and government departments – will continue to store at least some of their workloads in traditional data centres.

Last year Blackstone, the biggest private equity firm, acquired Kansas-headquartered QTS Realty Trust for \$10bn, while KKR and G1 Partners purchased Texas-based CyrusOne for \$15bn. Earlier this month, Macquarie bought a minority stake in British data centre provider Virtus for an undisclosed sum, betting that large tech groups will be forced to lease as they expand into Europe.

Chanos Chanos derided these transactions as "rash", with valuations that were "stretched by any measure". He projected a "post-takeover hangover". Cloud business has been the engine of growth for groups such as Amazon, Microsoft and Google over the past year. In the first quarter of 2022, revenue at Amazon Web Services was up 37 per cent year on year to \$18.4bn, while revenue at Microsoft's Azure platform rose 40 per cent.

Martijn Blanken, chief executive of 'We still like Equinix even though we realise there are some risks to our thesis'

Brendan Lynch, Barclays

EXA Infrastructure, which supplies networking infrastructure for the hyperscalers, called the compute workloads for Google and Meta "unimaginable. It's a scale game, and there's no enterprise that can compete with them."

By contrast, listed US data centre groups have posted healthy – but less impressive – growth.

Yet those in the data centre industry said Chanos's thesis was dated, given that the same arguments have emerged several times over the past 15 years, including a highly publicised short position taken against Digital Realty by

Highfields Capital Management in 2015. Highfields made money, but Digital Realty is still in business.

"There's a fallacy in the argument that we're not growing as fast as the cloud providers, which means we are threatened by them," said Andy Power, president and chief financial officer at Digital Realty.

He said "co-location" groups such as Digital Realty, where one party provides the real estate and customers provide the tech, "enable" the transition to the cloud, and had seen an increase in leasing from many hyperscalers in recent years rather than a dip.

Tech groups have made a shift towards greater leasing over the past six months driven by a handful of companies, including Meta, Microsoft, ByteDance and Twitter. This uptick has reversed a previous trend to greater in-house construction.

"I don't think [hyperscalers] can keep up with the pace of their business on their own," said Charles Meyers, chief executive officer of Equinix.

Power said: "These cloud service providers are blessed with lots of capital, yes, but they have better uses for it."

Brendan Lynch, an analyst at Barclays, pointed out that in many metropolitan areas of the US, Equinix was the first or second largest data centre provider, giving the company a higher degree of pricing power.

"That's why we still like Equinix even

Pharmaceuticals

Jakarta's dengue jab green light boosts Takeda

JAMIE SMYTH — NEW YORK
KANA INAGAKI — TOKYO

Takeda has said approval of its dengue fever vaccine in Indonesia marks a big step towards the company's goal of creating a global vaccine business that would compete with larger rivals such as GSK, Sanofi and Merck.

Gary Dubin, president of Takeda's global vaccine business, said the approval of Qdenga on August 22 was the first achieved outside Japan by the company for a vaccine and could generate up to \$1.6bn in annual sales.

Anticipated approvals by regulators in Europe and elsewhere would make the vaccine a weapon in the global battle against the mosquito-borne disease that infects up to 400m people and kills about 20,000 a year, he said.

"This is a very important milestone," Dubin said. "Takeda took the decision a number of years ago to globalise its vaccine business... Licensure of Qdenga in Indonesia is the first step in achieving that global ambition."

Analysts say Takeda faces a challenge to compete with more established rivals in the global vaccine market.

"Vaccines are a very tough business because you have such well-established incumbents such as GSK, Pfizer, Sanofi and the barriers to entry are high," said Roger Song, analyst at Jefferies.

The drugmaker 'took the decision a number of years ago to globalise its vaccine business'

Regulatory hurdles in the Japanese market have also dented innovation, according to analysts, who note that no homegrown coronavirus vaccines were approved in the country.

Takeda has adopted a cautious approach to investing in vaccines and has a limited pipeline of opportunities. Last year it spun out one of its late-stage prospects – a vaccine candidate targeting norovirus, which is a contagious dis-

ease often caught from contaminated food – into a separate company, Hille-Vax, to attract new investors to help bring it to market.

Dubin said one of the company's brightest prospects was for a vaccine targeting another mosquito-borne disease, the Zika virus. Takeda is collaborating with the US government, which has agreed to supply up to \$312m in funding to the development programme.

"Zika is another potentially very important vaccine to introduce from a public health perspective and because the same mosquito transmits both viruses there are some natural synergies there," said Dubin.

He said Takeda was investigating mRNA technology but had not made any commitment to invest in new-generation vaccine platforms.

Clinical trials show that four-and-a-half years after inoculation, Takeda's dengue vaccine is 84 per cent effective at preventing hospitalisation and 61 per cent effective at stopping symptomatic infection.



Ethiopian
Investment
Holdings

PUBLIC ADVERTISEMENT



INVITATION TO SUBMIT EXPRESSION OF INTEREST (EOI) FOR THE TENDERING OF EIGHT STATE-OWNED SUGAR ENTERPRISES

As part of the Federal Democratic Republic of Ethiopia economic reform strategy, the Government of Ethiopia is committed to ensuring efficient use of national resources by shifting towards a competitive market structure, with a greater role for the private sector in the economy.

To this end, the Government of Ethiopia initiated a holistic sugar sector reform aiming at increasing private sector participation in the ownership and control of sugar companies to sustain rapid and inclusive economic growth by laying the ground for economic transformation that leverages the increasing role of the private sector.

To transform the sector, the Government of Ethiopia is now inviting both international and domestic investors to participate in the tendering of 8 state-owned sugar enterprises. These include Omo Kuraz 1, Omo Kuraz 2, Omo Kuraz 3, Omo Kuraz 5, Arjo Dedessa, Kessam, Tana Beles, and Tendaho (together the "Sugar Enterprises").

The proposed transaction is aimed at improving competitiveness and increasing sugar production to meet domestic demand. This will save Ethiopia from spending substantial foreign exchange used in importing sugar. The improved performance of the sector will in turn increase incomes and improve the standard of living for the population that relies on sugar cane plantations as the main source of livelihood in sugar-growing regions of Ethiopia. The transaction will not only reduce the future reliance on public financing but also enable the sugar enterprises to raise additional capital to support projected expansion and modernization. In addition to meeting domestic sugar demand, the transaction will create opportunities for refined and raw sugar exports given the good existing climate for growing cane in Ethiopia enabling foreign currency inflows into the country.

The proposed transaction presents an excellent investment opportunity to interested investors to acquire up to 100% of the Sugar Enterprises, most of which are newly constructed facilities with built-in trunk infrastructure, abundant water, land resources, and excellent cane-growing agro-climate conditions. In addition to sugar production, the enterprises engage in the production of ethanol and electricity for internal use and to supply to the national grid.

To ensure a transparent and efficient transaction process, the Government of Ethiopia appointed Ernst & Young LLP as the lead transaction adviser to assist with the transaction process.

Interested local and international firms or consortia can register their interest by submitting an Expression of Interest (EOI) to participate in the proposed opportunity.

A detailed description and instructions to interested parties in relation to the proposed opportunity are set out in the EOI. The EOI is now available online at the following website: <https://www.mofed.gov.et>

Interested Parties will also be invited to participate in an investor conference/ information sharing session (s) with the Government of Ethiopia and its advisors.

Further information and clarifications can be obtained at the address below during office hours (Mondays to Fridays from 0800 to 1700 Hours local time), excluding public holidays:

Ethiopian Investment Holdings
Meleket Sahlul Denbu
Portfolio Director
Ethiopian Investment Holdings
Email: sugarbid@mofed.gov.et

Ministry of Finance
Dr. Brook Taye
Senior Advisor
Ministry of Finance
E-mail: sugarbid@mofed.gov.et

Transaction Advisor
Mr. Julius Ngonja
Partner, Strategy and Transactions
Ernst & Young LLP
E-mail: project.sikuar@ke.ey.com

EY
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COMPANIES & MARKETS

Equities. Political backlash

Wall St hunts for ways to skirt Biden's share buyback tax



Taking steps: bankers across Wall Street have sought legal advice on how a new tax will affect accelerated share repurchase programmes — Michael Hagler/Bloomberg

Efforts threaten valuable revenue source for president's

US stock buybacks hit record levels
Quarterly spending on share repurchases by S&P 500 constituents (\$bn)

third consecutive quarter. Data are expected to show a slight dip in activity in the second quarter after companies,

Missed opportunity as Powell focuses too much on the present

MARKETS INSIGHT

Mohamed El-Erian



Over the years, the annual central bank confab at Jackson Hole has seen US Federal Reserve chairs address immediate policy issues as well as longer term and more academic ones, that involve the economic and institutional context for policymaking.

Present circumstances called for Jay Powell, the current chair, to do both – that is, address the policy errors of the last 18 months, try to realign monetary policy expectations and establish a path for the resetting of the guiding policy framework.

In the event, his brief speech (just under nine minutes) last Friday largely attempted just one of these three. By focusing on the present, he left much still to be said while less than fully exploiting a much-anticipated opportunity for enhancing policy effectiveness.

There are five reasons why Powell needed to deal with issues that relate to the past, present and future. First, time has not been kind to his presentation at last year's gathering.

His characterisation of inflation as transitory, his forecasts of the economy and his elucidation of the required policy responses have fallen short.

for the past world of insufficient aggregate demand. As a result, it is somewhere between ineffective and counterproductive in the current and future world of challenged aggregate supply.

Finally, the Jackson Hole audience is dominated by economists, the majority of whom both understand the importance and urgency of a politically independent central bank and worry about the path this Fed has been on.

In this context, Powell correctly opted for a notably hawkish tone. He rightly stated that "high inflation has continued to spread through the economy", that "there is clearly a job to do" to bring inflation back into control, and that the Fed must "keep at it".

He also said this will entail "a sustained period of below-trend growth". In the process, he attempted to clean up his July remarks that former US Treasury secretary Larry Summers characterised as "analytically indefensible" and "inexplicable".

Illustrating a more general sensitivity to reputational risk and the political vulnerability that comes with that, Powell combined this hawkish tone with reference to several of his predecessors.

He is yet to take responsibility for the last 18 months of US Federal Reserve errors

The attempt to borrow from past credibility included quoting Paul Volcker, whose inflation-beating reputation is as

climate and health legislation

ERIC PLATT AND NICHOLAS MEGAW
NEW YORK

Bankers and lawyers on Wall Street are hunting for ways to help companies buy back shares next year without having to pay millions of dollars in extra tax, a move that risks blunting one of the main revenue generators in President Joe Biden's climate and health package.
At the centre of their efforts is the use of accelerated share repurchase (ASR) programmes, a commonly used mechanism allowing companies to complete buybacks that can be worth billions of dollars.
Although the programmes are recorded as having been executed on a single day, it often takes several months for banks to complete the trades.
The plans hinge on whether forthcoming Treasury guidance will count the day that the company hands over the cash and receives its shares as the date of the buyback or whether they will have to wait until investment banks actually buy the stock in the open market.
Bankers across Wall Street have sought advice from law firms including Davis Polk on how the Treasury might treat the accelerated schemes, according to several people briefed on the discussions.
Joe Kronsoble, a partner at Latham & Watkins, said investment banks were "very interested" in the forthcoming Treasury guidance, although he cautioned that the department or the Internal Revenue Service might not provide a full answer before the 1 per cent tax goes into effect in a little over four months.
The new tax will generate \$74bn in revenues over the next decade, according to official estimates, but bankers warn the number could balloon if the 1 per cent level is the thin end of the wedge and ends up being set higher in subsequent years.

2018 19 20 21 22
Source: S&P Global

"The assumption, and it's still pretty early... is that a 1 per cent tax in and of itself is not enough to significantly change behaviour," said a New York-based banker who works on corporate share buybacks. "One per cent now is not a big deal but what if it becomes 3 or 5 or 10 per cent to raise revenue or score political points?"
Banks and legal experts have been coalescing around the view that companies will not have to pay the tax on shares they receive through accelerated buybacks launched this year, said one person involved in the discussions.
If the Treasury adopts a similar view, the programmes would be particularly appealing for companies seeking to front-load buybacks in future years if Congress decides to raise the tax rate.
"Any time there is a new tax on the horizon and people know it's going to apply next year but not this year, it is not surprising that companies look for ways to try to do things sooner rather than later," said one person involved in the discussions. "ASRs are just one example."
Share buybacks have been targeted by politicians on both sides of the aisle, attracting criticism from Republicans including former president Donald Trump and Florida senator Marco Rubio as well as Democrats such as Senate majority leader Chuck Schumer and Massachusetts senator Elizabeth Warren.
Detractors accuse corporate boards of

including lenders JPMorgan Chase and Citigroup, paused their buyback programmes in response to tighter capital requirements and concerns over slower economic growth.
Traders on the Goldman Sachs trading desk responsible for executing buybacks estimated companies have authorised \$856bn worth of repurchases so far this year but said their growth is trailing higher spending on capital expenditures and dividends.
Alice Bonaimé, an associate professor of finance at the University of Arizona, said there were some evidence that companies that were just short of meeting analyst forecasts were "willing to sacrifice investment and employment to repurchase stock and boost [earnings per share] by about a penny".
However, she added that the flexibility of buybacks gave them many advantages over dividends, which management teams are reluctant to cut if they discover new investment opportunities or encounter unexpected challenges.
Bonaimé said that, at its current level, the tax "may nudge companies a bit to shift some of their distributions away from buybacks and perhaps toward dividends but I don't think a 1 per cent tax will be enough to drastically alter corporate behaviour".
Equity trading desks have not yet seen a surge of interest in executing buybacks. However, bankers said they expected activity to increase in the final months of the year as companies planning buybacks in early 2023 move some purchases into 2022.
Accelerated share repurchases are not expected to be a panacea for companies hoping to avoid the tax, however, given the relatively short time they take to complete.
While banks can structure longer term programmes, including contracts with exotic derivatives to protect from share price moves, one dealer said they could "start to get expensive" quickly, making them less attractive.

strong today as it was in the 1980s.
Equally important is what Powell did not do. He is yet to take responsibility for the last 18 months of Fed errors, including the mischaracterisation of economic and policy issues in last year's speech. He is also yet to provide a pathway for the much-needed revisions to the policy framework.
In a world of perfect foresight, Powell's 2021 speech would have focused on monetary policy at a time of sudden high inflation and, this year, on restoring the central bank's credibility and policy effectiveness in an even more challenging world of rapidly slowing global growth, worsening inequality and widespread high inflation.
Instead, his unusually short speech dealt well with the present but left out important past and future issues.
I suspect that we will look back on this year's Jackson Hole speech as a missed opportunity for the Fed to regain control over its policy narrative, as well as to outline what is needed to overcome the considerable policy challenge facing the world's most powerful and systemically important central bank.

Mohamed El-Erian is president of Queens' College, Cambridge, and an adviser to Allianz and Gramercy

Crypto

Singapore to tighten retail access to digital currencies

MERCEDES RUEHL — SINGAPORE

Singapore's financial regulator has distanced itself from "heavily speculated" cryptocurrencies after a series of scandals this year that damaged the city state's aspirations to be seen as a safe hub for the volatile asset class.
Ravi Menon, managing director of the Monetary Authority of Singapore, said yesterday that the agency would take stronger measures to restrict retail access to cryptocurrencies and consider "further measures to reduce consumer harm".
But he added that MAS still believed in the "transformative" economic potential of the broader digital asset ecosystem including tokenised digital versions of existing assets.
His comments come after Singapore faced accusations that it had been sending mixed signals to the crypto market.
The city state has few natural resources and is more reliant on financial services. It wants a stake in the latest financial technology advances and last year began handing out licences to players in the crypto sector and allowing both retail and institutional trading of the asset class.
Investment in Singapore's crypto and blockchain companies surged to a record \$1.48bn in 2021, according to a report by KPMG, 10 times the previous year's total and nearly half the Asia-Pacific total for 2021.
But the city's reputation as a safe hub has been dented as plummeting prices

have exposed some of the industry's biggest names who had based themselves in Singapore.
South Korean prosecutors are investigating the \$40bn implosion of the terraUSD stablecoin, created by Singapore-based founder Do Kwon.
The collapsed Three Arrows, one of the best-known crypto investors, was also based in Singapore, although registered in the British Virgin Islands.
Hodlnaut, a Singaporean crypto lender that received in principle licensing approval from MAS to offer token swaps in March, cut most of its workforce, stopped withdrawals and admitted to an investigation by the Singapore police this month. Hodlnaut had supported the luna cryptocurrency ecosystem on its platform.
Cryptocurrencies were not a "viable form of money or investment asset" due to their extreme price volatility, Menon said, while announcing that the regulator would further restrict retail investor access to digital currencies.
Some of the world's biggest crypto exchanges, including Binance, Gemini, Coinbase and Crypto.com, all applied for licences to operate, attracted by the low taxes and perceived friendly regulatory environment.
Some, including Binance, have since withdrawn their applications.
The regulator had already restricted crypto groups from promoting services in public. Bitcoin ATMs have been dismantled and public transport advertisements removed.

The day in the markets

What you need to know

Global equities slide as Powell's comments weigh on sentiment
Wall Street's 'fear gauge' climbs to highest level since mid-July
US Treasuries under pressure and currencies weaken against dollar

Global stocks weakened, Treasury yields climbed and global currencies lost ground against the dollar yesterday as investors took fright from comments by central bankers that their long-term focus was on taming inflation.
Shares in the US, Europe and Asia were lower after policymakers used their annual meeting at Jackson Hole, Wyoming, to warn investors to be prepared for higher interest rates for a sustained period.
In the US, the S&P 500 fell 0.6 per cent and the Nasdaq Composite was down 1 per cent by lunchtime in New York, extending their declines after a punishing session on Friday. Indices had gone into reverse at the end of the trading week in the wake of hawkish comments from Federal Reserve chair Jay Powell.
In Europe, the main indices fell yesterday but were off their earlier lows. The benchmark Stoxx Europe 600 retreated 0.8 per cent while Frankfurt's Xetra Dax dropped 0.6 per cent and the CAC 40 in Paris was down 0.8 per cent.
London was closed yesterday for a public holiday.
Japan's benchmark Topix led markets lower earlier in Asia with a drop of 1.8 per cent. The Hang Seng in Hong Kong fell 0.7 per cent.
Powell warned that the central bank would keep raising interest rates to tackle slowing inflation even in an economic slowdown.
He asserted that the Fed "must keep at it until the job is done" on taming surging inflation through repeated interest rate

risers. Senior European policymakers also cautioned that monetary policy would have to stay tight in Europe for an extended period.
The impact of Powell's speech on Friday reverberated through global markets yesterday.
The Vix volatility index, a benchmark that serves as a measure of expected swings in US stocks, rose as high as 27, its highest point since mid-July. The index is commonly called Wall Street's "fear gauge".
Also illustrating selling pressure on assets, the yield on the policy-sensitive two-year US Treasury note rose to 3.48 per cent — the highest level since 2007 — on firmer expectations of higher rates to come.
The yield on the 10-year note rose 8 basis points to 3.11 per cent.
"Officials remain strongly committed to returning inflation to the central bank's

2 per cent target," said Mansoor Mohi-uddin, chief economist at Bank of Singapore.
"We think the chances of a 0.75 percentage point move next month have risen and will watch August's US payrolls and consumer inflation data closely," he added.
Italian 10-year bond yields rose 11bp yesterday morning to 3.7 per cent, which is close to the 4 per cent threshold that is seen by many as the point where its debt starts to look unsustainable.
Japan's yen fell 0.8 per cent to ¥138.66 against the dollar.
Sterling slipped 0.8 per cent to \$1366 — its weakest level against the US currency since the early days of the pandemic — after Goldman Sachs cut its economic growth expectations for the UK to 3.5 per cent from 3.7 per cent previously. **Hudson Lockett, Philip Stafford and Martin Arnold**

Tuesday 30 August 2022

★ FINANCIAL TIMES

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MARKET DATA

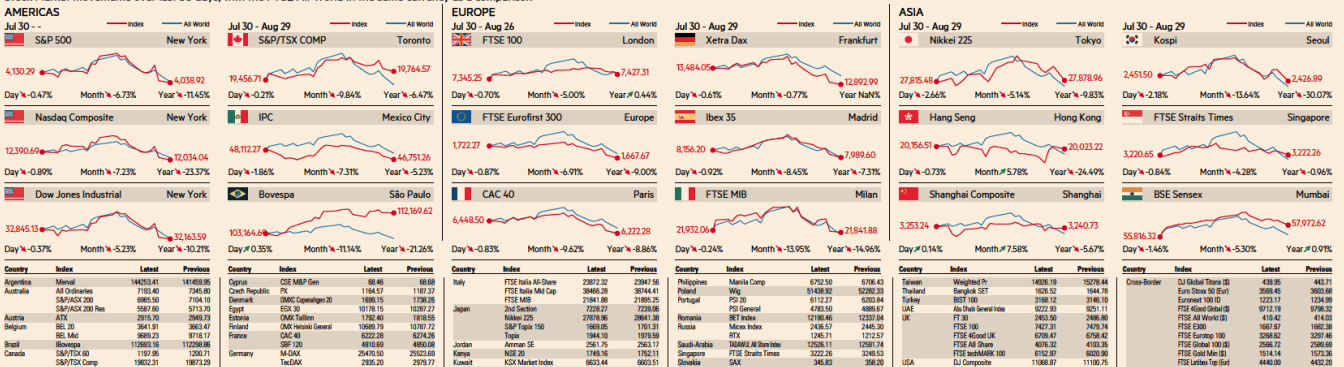
WORLD MARKETS AT A GLANCE

FT.COM/MARKETSDATA

Change during previous day's trading (%)



Stock Market movements over last 30 days, with the FTSE All-World in the same currency as a comparison



[illegible]

on tour, original members
Otis Williams and Duke Fakir
talk to Michael Hann

In the beginning, there was the church. For 80-year-old Otis Williams, the sole surviving original member of The Temptations, the church was in Texas. "I'm a little country guy from Texarkana, Texas that used to run up and down the gravel roads with coveralls on and hot water cornbread in my hand, barefooted at times," he remembers. But even before he moved from Texas to Detroit ("I was, like, 11 or 12 years old"), he had been steeped in gospel music: The Dixie Hummingbirds, The Soul Stirrers, Mahalia Jackson.

It was the same for Detroit native Duke Fakir, six years his senior, and the last of the original Four Tops standing. "My whole family and all my cousins sang in church. We were in the choir, a little baby choir. And we sang at least two or three times a week. We were in that choir from the time I was five right through high school. In fact, my mother is the one that prompted me to start to try to sing the solo. I told her I never wanted to, that I liked the choir sound. But she said I had a lovely voice and I should. And that's how life really started for me in the music world."

Between them, as Motown recording artists, Williams and Fakir went on to sing on some of pop's greatest records – songs you can still hear wherever radios are turned on, or at wedding receptions (albeit neither were the lead soloists in their respective groups). The Temps gave the world "My Girl", "Get Ready", "Ain't Too Proud to Beg", "I Wish It Would Rain", "Papa Was a Rollin' Stone" and scores more. The Four Tops' singles included the peerless "I Can't Help Myself (Sugar Pie Honey Bunch)", "Reach Out I'll Be There", "Standing in the Shadows of Love" and "Bernadette".



Above: Otis Williams of The Temptations, left, and Duke Fakir of The Four Tops. Below left: Fakir, far left, with the Tops in 1966 — Shahar Azran/Getty Images, ADW/Getty Images



Nearly 60 years on from those halcyon days, both are still working – the two groups tour the UK together in September and October – and both had hits across multiple decades. But their legends are founded on those glorious songs from the 1960s. For each group, the breakthrough came when great writers presented them with a great track.

"When Smokey Robinson and Bob Rogers first came up with 'The Way You Do the Things You Do', I thought it was tomfoolery," Williams says. "When I read the lyrics, I would say, 'Wow, this is some hokey stuff' – 'You got a smile so bright / You know you could have been a candle.'" But little did I know. It was a cold January night and Smokey called. The Temps was to come to the studio, to

Motown. And as we were walking, I had a very special feeling. At that time it was David Ruffin, Eddie Kendricks, Paul Williams, Melvin Franklin and myself. And it was like something said, 'Oh, these are the guys that's gonna make history.' Once we started doing it [live], and saw the reaction from the crowd, I said, 'Wow, Smokey is a bad young man to come up with stuff that didn't make sense but made sense.'"

The Tops had been traversing the country for years – playing supper clubs, Borscht Belt hotels, the Chitlin' Circuit of black-only venues – before Berry Gordy signed them to Motown. At first they tried to record standards, but Gordy shelved the tracks, wanting something suitable for the R&B market. "We were disappointed," Fakir says. "And we let him know. He says, 'Well, don't give up on me. I got something to show you guys. There's three writers, Eddie Holland, Lamont Dozier, Brian Holland, and I think they can make some hits for you.'"

That first song was "Baby I Need Your Loving", showcasing the incredible voice of Levi Stubbs. "Eddie Holland and Levi were in the engineering room, working on the melody. We went up there after we finished learning the song," says Fakir. "And we saw Levi, he was looking at the paper with the lyrics on it. And he says, 'Eddie, give me a piece of paper and a pen.' For what? 'I need to write these words out.' Eddie says, 'The words are right there, right in front of you.' Levi says, 'No, no, I need to write 'em so I can feel these words.'"

"And once Levi did that, he started singing his ass off. And that was the beginning of a wonderful, wonderful relationship with three of the greatest writers at that time."

While The Tops remained associated

with Holland-Dozier-Holland, The Temps came into the orbit of another brilliant writer-producer, Norman Whitfield. "Smoke is known as a lyricist and melody man," Williams says of Robinson. "Norman was smacking you across the face with that raw energy, the funky tracks. It worked out real well because it gave us a balance in the way we performed, with 'Ain't Too Proud to Beg', 'Ball of Confusion', 'Papa Was a Rollin' Stone', 'I Can't Get Next to You'. So him and Barrett Strong was turning out some great songs. We had an eight- or nine-year run with Norman and Barrett. So it was great to be associated with such wonderful producers and songwriters."

The optimism of early Motown was built on the prosperity of Detroit's

beneath the surface, resentments were rumbling in the city's black population, culminating in the Detroit Rebellion of 1967, in which 45 people were killed.

"That was a heck of a night," Williams says. "That particular night I started to go to this noted club, called the Chit Chat Lounge. But something said, 'Otis, you better go home.' So I went to my apartment. As soon as I got home, everything erupted right down 12th Street. I had never heard a 50-caliber machine gun fire. To hear a 50-caliber machine gun outside my apartment, it was really thunderous. And after they opened the city up for us to travel, the first place I wanted to go, to see if it was still standing, was Motown Records. They did not touch Motown, throughout all that was going on. It was like a divine hand to say you can destroy everything except Motown."

By the mid-1970s the golden age had

'Norman Whitfield was smacking you across the face with that raw energy, the funky tracks'

passed for both groups, but the work never dried up and hits still came along from time to time ("The Temptations released a new album earlier this year, *Temptations 60*). And here Williams and Fakir are, at a combined age of 166, still singing the songs that make you want to hug someone and never let go.

"We live in a world that seems like it's so chaotic: all kinds of craziness is going on," Williams says. "And if we can bring any kind of happiness and enjoyment, and hopefully let them forget that, let's try and find as much enjoyment as we can in this world that has gone crazy."

Tour begins on September 30 at Manchester AO Arena, and ends on October 11 at London O2 Arena



Otis Williams, seated, with The Temptations in 1967
CSJ Archives/Everett Collection

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A service from the Financial Times

Arctic Monkeys are back with a swagger

POP

Arctic Monkeys
Leeds Festival
★★★★★

Neil O'Sullivan

The excited reaction to the announcement late last year that Arctic Monkeys would headline this year's Reading and Leeds music festivals was a rare outbreak of unity on social media. In the real world too, the sense that this was a major event was palpable – tickets for the band's first UK shows in four years sold out almost immediately.

Sunday's performance at Leeds followed another big announcement: the Sheffield group's long-awaited seventh album, *The Car*, will be released in October. But the gig itself was all about the ride so far, which has seen Arctic Monkeys become the biggest and arguably best-loved of current British bands. The crowd was vaster than anything I had witnessed in Leeds in recent times, with 16-year-olds who weren't born when the band released their celebrated 2006 debut *Whatever People Say I Am, That's What I'm Not*, as giddy as older fans.

It started with a swagger. The giant buzzsaw riff of "Do I Wanna Know?" heralded one of the hit singles from 2013's album *AM*, which brought the band, who began as the defining indie rock group of their generation, mainstream stadium-sized success on both sides of the Atlantic. These two faces of the group dominated the set early on, as frenetically arch earlier singles such as

"Teddy Picker" and "Brianstorm" ("Brian, top marks for not tryin'") alternated with the slicker strut of more recent songs such as "Snap Out of It".

For half an hour, there was no let-up. It was frontman Alex Turner's show, and he was in excellent voice, switching from nimble wordplay to world-weariness without missing a beat. Turner is not one for much small talk between songs, but when he put on a pair of shades it was the signal to slow things down a touch. The next section showcased two albums that tend to command less attention – "Cornerstone" and "Pretty Visitors" (from 2009's *Humbug*) and "That's Where You're Wrong" (from 2011's *Suck It and See*) – all excellent.

They were also a reminder that the band's sound has rarely settled in one place for long, another reason why they are still going strong and reaching new

audiences. The only new song debuted here, "I Ain't Quite Where I Think I Am", had a laid-back 1970s funk feel, which suggests the new record will be another change of direction. Overall, the fact that the set was so strong, despite leaving out a number of old favourites, showed just how good Arctic Monkeys' songwriting is.

By the time they get to the lounge pop of "Tranquillity Base Hotel & Casino", Turner had gone full crooner. Realising that, to quote one of his most famous lyrics, some banging tunes were in order, the pace was cranked up again. In the home straight, the band reached for old favourites including "I Bet You Look Good on the Dancefloor" and the highly popular "505" before ending with a suitably huge "R U Mine?" and disappearing with minimal fuss.

arcticmonkeys.com



Alex Turner of Arctic Monkeys on stage at Leeds Festival
Katie Oprea/Redferns/Getty Images

New tech ventures linked to climate change are gaining traction as companies seek to offset emissions. But critics fear that using blockchain to clean up carbon markets could lead to more greenwashing.

By Camilla Hodgson and Siddharth Venkataramakrishnan

Last year, a British oil exploration company and a tech start-up joined forces on a project to lock away untapped fossil fuel reserves in Greenland permanently.

The idea was simple: the energy company, Greenland Gas and Oil, would not extract oil from an area on the east coast for which it had exploration licences. Instead it would monetise keeping the oil in the ground via a partnership with the tech company Carbonbase, which works on offsetting carbon emissions.

The mechanics were more complex. The partnership aimed to sell NFTs, digital collectibles that come with ownership certificates, linked to the unexplored land. The profits would then be used in part to compensate the energy company and the oil would stay underground. And, since the Greenland government had stopped issuing new exploration licences, the energy company would not be able simply to apply for another and tap a different part of the country.

The pitch to buyers was that they could be sure their NFT investment was doing some environmental good. The tokens would also be paired with a new type of "non-production" carbon credit the venture hoped to develop, which owners could use to compensate for their own emissions.

But after months of discussions the partnership ran into problems. Carbonbase and Greenland Gas and Oil did not agree on how to structure the joint venture. Carbonbase also discovered that the country of Greenland had never successfully produced any oil, a fact that they said undermined the whole idea. Pursuing the project "would have destroyed our public reputation" and looked like "greenwashing", says Max Song, founder of Carbonbase.

Eric Sondergaard, chief operating officer at Greenland Gas and Oil, concedes the scheme was not "perfect" and that it would have been better if an oil

Max Song, founder of Carbonbase, said pursuing the Greenland project would have looked like 'greenwashing'.



the credits." Fiorenzo Manganiello, a professor of blockchain technologies at Geneva Business School, warned of scams targeting those looking for "green" crypto. "I've been approached three or four times by people saying they're selling 'green' tokens they claimed were backed by carbon credits, he says. "In reality, they [looked like] a pump-and-dump scheme."

Then there is the broader threat posed by a turbulent crypto market, which crashed this year. The value of Toucan's "BCT" tokens fell from a high of nearly \$9 last year to around \$1.50 in August. Moss.Earth's MCOs dropped from more than \$17 in January to under \$4 this month, while JustCarbon's JCR moved from nearly \$40 in May to around \$24 in August.

The emissions elephant

The crypto-climate crossover goes beyond carbon tokens. Shoppers can now participate in metaverses where they are encouraged to purchase virtual versions of fashion items such as clothing, instead of buying in the real world.

Conservation-linked cryptocurrencies are also appearing, such as one developed by Estonia-based Single.Earth. The group generates "Merit" tokens, which landowners earn each time they store 100kg of carbon in their forests. Their woodland must be at least 20 years old to be eligible, and Single.Earth monitors the process using satellite

Advocates of blockchain say the technology could bring greater clarity to the markets of carbon offsets.



lites and machine learning.

However, since there is no penalty for landowners who later cut down the trees, except that they do not earn more tokens, the stored carbon could be released back into the atmosphere. Merit Valdsalu, Single.Earth co-founder, concedes this is a concern, but says she hopes the prospect of earning more tokens will incentivise landowners to keep trees standing.

The elephant in the room is the energy consumption involved in many crypto and blockchain transactions. Minting bitcoin, for example, requires huge computing power, which often runs on coal-generated electricity. That issue is drawing more attention. This year, the US Office of Science and Technology Policy called for evidence on the energy and climate implications of digital assets.

Enthusiasts have pushed back against this characterisation of crypto, arguing that many coins and blockchains are much less energy intensive than bitcoin. But the perception of digital assets as a gas-guzzling, carbon generating problem is so prevalent that an NFT auction by the UK arm of conservation charity WWF was abruptly cancelled in February following a backlash.

Despite such criticisms, many analysts do see a role for digital technologies in the fight against climate change and are encouraged by the interest in sustainability from some in the crypto community. The "recognition of the energy conundrum by major players... could signal a turning point for the crypto market in adapting greener algorithms," wrote HSBC analyst Camilla Sarmiento.

Chanks and exchanges are exploring a middle ground between the traditional carbon market and the crypto-carbon crossover. AirCarbon Exchange has designed smart contracts that could allow credits to be sold in smaller quantities than one tonne of carbon. That could be useful for people making small, regular purchases, such as offsetting a taxi trip, says Pazos. "Just like we see calorie counts on food [packaging], we're going to see carbon counts on all types of different activities."

Lenders including NatWest, Standard Chartered and BNP Paribas have developed a blockchain-based settlement platform, Carbonplace, which aims to make buying offsets simpler and enhance the traceability of transactions. Buyers receive tokens representing credit ownership, which include the details of the offsets – not digital versions of the credits.

Even the UN Framework Convention on Climate Change has taken an interest: it supported the creation of the Climate Chain Coalition initiative in 2017, which works to "advance blockchain- and related digital solutions" to mobilise climate finance and action on climate.

But for now, the proliferation of new companies and the "low barriers to launching new projects" make it "hard to understand who you want to work with," says Claudia Herbert, from the advisory group Carbon Direct. "We're seeing the lessons of the [real-world offset market] being learnt."

Crypto dreams green

producing company was "turning off the flow of oil or gas from a well-head". But, he says, it was easier for a group not yet tapping reserves to win investor backing for such a proposal: "once the [oil] development wheels are in motion, it is harder to convince shareholders to opt for a blockchain alternative."

The attempt is just one example in a mass of tech ventures that hope to fuse concerns about global warming with the public's interest in Web3 technology. A surfeit of start-ups have burst on to the scene this year, variously promising to "green" bitcoin, make NFTs sustainable and solve nagging problems in carbon markets once and for all.

These projects range from the relatively mundane to the outlandish and wacky, with interest coming from major corporations as well as fringe groups. One River Digital Asset Management launched "the world's first carbon-neutral crypto asset fund" last year, while the world's largest meatpacking group, JBS, has developed a blockchain platform to trace its cattle supply chain, in an effort to combat deforestation. Diamond miner De Beers is using blockchain technology to track the provenance of its gems.

Many new initiatives focus on the booming market for carbon offsets – each of which is supposed to represent a tonne of carbon permanently removed or avoided from the atmosphere. They have soared in popularity in the past 18 months as companies seek to compensate for their emissions. WeWork founder Adam Neumann's venture Flowcarbon, which received funding from Andreessen Horowitz earlier this year, is one of a range of efforts to produce carbon tokens, which can either be used to compensate for emissions like traditional carbon credits or traded on certain crypto exchanges.

The trend for "tokenising" carbon offsets, or converting them into the sort of fungible, digital tokens familiar to crypto traders has been notable: millions of credits have been digitised since late 2021.

Used well, analysts say Web3 technologies could bring greater integrity to the carbon market and help verify the credentials of products labelled as "sustainable". But critics say complicated new initiatives could just as easily exacerbate existing problems in two unregulated markets (offsets and crypto finance), lure more people into a space with its own big emissions problem, and contribute to more greenwashing.

William Pazos, cofounder of AirCarbon Exchange, says some new groups are not displaying "the level of rigour

One of the risks of introducing green tokens in the carbon market is the temptation to use the tokenised credits for financial speculation

FT montage

that's necessary" to come up with credible climate solutions. "They are ticking the boxes: the climate box, the blockchain box – all these buzzwords that potentially could make them very wealthy."

A messy market

It was only a matter of time before advocates of blockchain – the distributed digital ledgers on which cryptocurrencies run – turned to climate change.

These supporters say the technology, which uses an unchangeable record of transactions, can bring greater clarity to the messy market for carbon offsets. "Distributed ledgers are going to help with transparency" and with tracking the purchase and use of credits, says James Cameron, policy adviser at Systemiq, the advisory group. Carbon-crypto initiatives might also be a way for retail buyers, who have found it difficult to buy offsets, to access the market.

But Pete Howson, who researches environmental technologies at the UK's Northumbria University, says he fears some tech pioneers "don't understand the way the carbon market works". The sector is notoriously complicated, with its own well-rehearsed problems: a lack of liquidity, opaque pricing and concerns about the quality of credits. Since the late 1990s the decentralised market has only become more complicated as it has grown. Thousands of projects that generate offsets exist, such as tree planting schemes that can sell credits either directly to end users or via middlemen. Different project types are governed by various complex rules,

set by one of a number of third-party carbon offset standard setters such as Verra.

Some offsets are of a reliable quality, but others may not deliver the climate benefits they promise. That makes it hard for non-experts to know what to buy, who to buy from and what to pay. The blockchain community is the latest to take up the gauntlet. Tokenising credits has become a popular starting point. The process can involve some mystifying jargon, but the goal tends to be the same: the creation of digital versions of existing offsets that are simpler for people to understand, more liquid and transparently priced.

Carbon tokens have been launched by companies including Toucan, JustCarbon and Moss.Earth. Hype about the prospect of the tokens has bubbled up on social media. But the tokens have also drawn the attention of corporate investors: last year Anthony Scaramucci's alternative investment firm SkyBridge Capital bought nearly 40,000 of Moss.Earth's tokens to offset the "historic carbon footprint" of its bitcoin holdings.

Adrian Rimmer, cofounder of JustCarbon, says the design of carbon tokens is easier for non-expert buyers to understand than the traditional offset market, which he describes as "horrible". "It requires an unfeasibly large amount of knowledge," he says.

And while traditional offsets can come from thousands of different environmental projects and are difficult to compare, each of the new digital tokens on offer – JustCarbon's JCRs or Moss.Earth's MCOs, for example – are uniform and trade at the same price. Each company decides on a range of offsets, such as any from forestry schemes, that can be converted into its standardised token.

'No idea what you're buying'

Not everyone is convinced. Louis Redshaw, managing director of carbon consultancy Redshaw Advisors, says adding another layer of complexity to the already confusing carbon market is probably "not making it better". Blockchain may be no more useful for elucidating the process than "a good spreadsheet", he says. Redshaw insists the complicated nature of many projects is reason enough to be wary: "If you can't

understand what it is you're getting into, you shouldn't get into it," he says.

Steve Zwick, a senior media relations manager for Verra, the offsets registry, says creating standardised tokens from a broad category of offsets masks key information, such as which project a credit came from. Such details are important, since some offsets are of dubious quality. "That transparency element is critical, especially with new buyers coming in. You've got to make sure the labelling is right," says Zwick.

While buyers of Moss.Earth's tokens know they are underpinned by credits from a list of forest protection schemes published by the company, they do not know which specific project a given token is linked to. The group said its design ensured token fungibility.

Last year Vaughan Lindsay, chief executive of offset seller Climate Impact Partners, told the Financial Times that efforts to make credits fungible "remind me of collateralised debt instruments... if you keep rolling stuff up, you have no idea what you're buying."

Another risk is the temptation to use the tokens for financial speculation. Offsets are supposed to be bought to compensate for specific emissions, rather than endlessly traded. But the owners of tokenised credits can easily be swept up in the powerful currents of decentralised finance.

Verra banned the tokenisation of certain credits in May. In August it launched a consultation about designing "anti-fraud measures" for crypto-carbon – new rules that could allow tokenisation to resume.

Toucan's tokens soared in popularity at the end of last year, largely because buyers can convert them into a new cryptocurrency, Klima. Yet experts pointed out that many of the millions of credits underpinning Toucan's tokens had remained unsold for years owing to quality concerns. Toucan said it had tightened up its rules about which credits could be tokenised.

"If people are bundling credits and selling them, what's important is the underlying credit," says William McDonnell, chief operating officer of the Integrity Council for the Voluntary Carbon Market, an industry group that is drawing up rules for what constitutes a "good" credit. "Whether it's tokenised or not, what's important is the quality of

'If you can't understand what it is you're getting into, you shouldn't get into it'

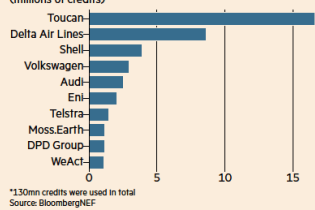
Louis Redshaw, Redshaw Advisors

'Just like we see calorie counts on food, we're going to see carbon counts on all types of different activities'

William Pazos, AirCarbon Exchange

Toucan and Moss.Earth were big users of carbon offsets last year

Top users of credits on the Verra registry* in 2021 (millions of credits)



The FT View



FINANCIAL TIMES

"Without fear and without favour"

ft.com/opinion

China's property-driven growth model is broken

Beijing should prepare for a long and difficult economic transformation

China's property-driven growth model, which has powered the global economy for at least two decades, is looking increasingly broken. Fixing it – or finding alternative engines for the world's second-largest economy – could take several years. This is why the choices that now confront Beijing's policymakers are so crucial.

The task requires an accurate assessment of what has gone wrong. On one level this is simple: the biggest property boom in human history has ended and is now turning into a bust. But a deeper level of analysis reveals a more complicated and intractable malaise at the heart of China's political economy.

Local governments, which financed their investment activities largely by selling land to property developers, are

finding it harder to repay and service huge debts. This is mostly because developers now have little money or appetite to buy the land. Almost 20 of them are in such dire financial straits that they have defaulted on bonds in the offshore market this year.

This dynamic is having knock-on effects. Local government financing vehicles – the thousands of poorly-regulated funds owned by city governments all over the country – are burdened by "hidden" debts that Goldman Sachs has estimated to total Rmb53tn (\$8.2tn) – or 52 per cent of GDP – at the end of 2020. Beijing is urging local governments to clean up such "off balance sheet" borrowing, with the result that LGFVs are reining in their horms.

The result is that fixed asset investment (FAI), which funds the construction of city precincts, roads, railways, ports and a thousand other pieces of infrastructure, has slumped precipitously this year, robbing the economy of one of its main drivers. From January to

July this year, FAI grew at just 5.7 per cent – compared with an average of 17.87 per cent between 1996 and 2022.

So, the question before China now, as it allocates modest funds to alleviate the pain in its property sector, is stark. If the growth engine that has contributed so much to global prosperity is now gummed up with debt, what – if anything – could replace it?

There is one obvious answer. China needs to reorientate its economy away from an over-reliance on investment and towards greater consumer spending. Private consumption accounted for 38.5 per cent of nominal GDP at the end of last year – a much lower ratio than those prevailing in the US or EU.

This means that as Beijing charts a way out of its local government debt malaise in coming years, it cannot afford to shift the burden to households. It needs to create an economy in which salaries rise strongly and vibrant, well-regulated financial markets provide a healthy long-term return on savings.

The country needs to reorientate its economy away from an over-reliance on investment and towards greater consumer spending

In addition, Beijing should remind itself that much of the extraordinary economic progress of the past four decades has derived from the dynamism of the private sector. In recent years, however, the downfall of Jack Ma, founder of Alibaba, and the diminished standing of several leading privately owned tech companies has convinced observers that Beijing has moderated its support for private enterprise.

The required shift to embrace the consumer and the private sector will also require a counter-intuitive shift in mindset. Authoritarian governments prefer economic levers that they can control. Mobilising supply through muscular investment plans keeps ruling parties in the driving seat. Catering to the more democratic tastes of consumers does not.

Beijing should prepare itself for a long and difficult economic transformation. The world should prepare itself for the end of a four-decade era of supercharged Chinese growth.

Opinion Education

Governments beware the politics of tuition fees

Ewan White



Stephen Bush



Last year, I received an unexpected cheque from the taxman. The reason? I had successfully paid off the last of my student loan and as a result I had overpaid on my tax return. (UK students' tuition fees are deducted at source alongside their taxes if they are salaried employees, or when they fill out their tax returns if they are self-employed.)

I thought hard about what a milestone this was, my good fortune in being able to do this while still doing a job I love and how I could best use this windfall to invest in my future, before going out and buying a PlayStation 5.

One criticism of Joe Biden's plans to cancel \$10,000 of student loan debt for low to middle income graduates is that American graduates will, like me, think about their windfall, and then go out and stoke some good old-

US graduates are saddled with mortgage-style loans in which they face the same monthly payment when they graduate, whether their first job is serving coffees or on a trading floor, and not all can switch to income-contingent loans.

But in all three countries, attempts to increase fees on students are the subject of fierce political resistance by students and the young, while proving a handy way for states to magic up extra revenue for higher education and to keep debt off the books. (Until a 2018 ruling by the UK's Office for National Statistics, successive British governments were able to pretend that all tuition fee expenditure was private, despite the fact a large chunk of it will never be repaid by the borrower.)

In policy terms, tuition fees have been a stunning success. In the UK, they have effectively allowed a stealth increase in income tax on most middle and high income workers. And across the developed world, the appetite for university degrees has proved to be astonishingly price-resistant: ever-increasing tuition fees have gone hand-in-hand with ever-larger numbers of students.

But the policy has come with a cost. The UK model is a better deal for middle and lower-income graduates than the US one, but it still represents a considerable increase in the de facto tax burden. One irony of the politics of tuition fees is that an NHS consultant complaining about paying the additional rate of income tax sounds right-wing, but doing the same about their tuition fees is considered cool and progressive. But the impact of both policies is identical: they make practising medicine abroad or in the private sector more attractive than continuing to work in public healthcare in the UK.

The fees model also has knock-on consequences for academic freedom. Campus politics has always had illiberal elements, but it is easier to ignore student demands to sack a professor or rewrite a course syllabus when individuals do not influence a university's bottom line.

As graduates become more numerous in Europe, what you might term the "Biden tipping point" inevitably makes tuition fees a less attractive policy option. As indebted graduates become more numerous, they become politically powerful enough that tuition fees cease to be a clever way of stealthily increasing income tax, and become every bit as politically painful as openly raising it.

Letters

Society's thirst for data requires a water solution

World Water Week kicked off last week in Stockholm, with the issue of the water consumed by data centres emerging as a big concern ("Thames study: utility probes data centres' use of water", Report, August 24). Data centres use water for cooling when fans cannot maintain the correct operating temperatures. In times of drought, the increase in water consumption at higher temperatures compounds the problems for local water supplies.

Drought-stricken citizens are pushing back against these water-guzzling facilities that create little employment. For example, in the Netherlands, Microsoft and Google data centres have been the target of repeated community anger around water consumption, and it's a similar story in Arizona and elsewhere in the US.

Some forward-looking countries have already taken action. For

example, in 2019 Singapore, a major data centre hub for south Asia, imposed a three-year moratorium (now lifted with restrictions) on constructing new data centres due to concerns around energy and water usage.

If drought-like conditions across the globe become more frequent and sustained, the data centre industry will rapidly need to rethink its approach to water. Perhaps now is the time to move

beyond "hot air" promises to adopt new cooling technologies, such as immersive liquid cooling, at scale.

Withering petunias may survive a hosepipe ban, but society's thirst for data seems unquenchable, and a sustainable solution to cooling data centres needs to be implemented.

Duncan White
Partner, Environmental Technologies
Hambro Perks
London SW1, UK

Why chest-beating central bankers have me worried

I can't help but be a little worried at the display of chest-thumping from central bankers at last weekend's Jackson Hole symposium. They appear to have been stung by the criticism that they have failed to control inflation and are hopelessly behind the curve (Report, August 27).

Initially tackling inflation was a way to avoid a recession. They now seem to view a recession as a way to prove their mettle. Certainly, the Federal Reserve and the European Central Bank appear unfazed by the idea of tightening policy as their economies slide into recession. That was a good move when executed by Fed chair Paul Volcker 40 years ago. But circumstances are now different.

Of course, inflation is too high but central bankers seem to be in a competitive race to raise interest rates. It's well to remember that most of the effect on inflation will be felt in late 2023 and early 2024. By that time the cost push element of inflation is likely to be weaker and perhaps even gone.

Stefan Gerlach
Chief Economist, EFG Bank, Zurich
Switzerland; Deputy Governor, Central Bank of Ireland, 2011-2015



Biden's debt write-off plan helps the wrong students

As an immigrant and a recipient of a Pell grant, I find Joe Biden's student loan forgiveness policy absolutely ridiculous ("Biden accused of fuelling 'inflationary fire' with move to cancel student debt", Report, August 26).

I picked a college that was affordable

and I worked while a student to minimise my debt, attending few social events, focusing instead on my education to keep costs low.

After graduating, I worked hard and made paying off my student loans my priority. Now I see that people who were in the same situation as me (often in better financial circumstances) but who spent their loan/grant money on parties, luxury accommodation ("boogie dorms") and spring break trips are being rewarded, and I find it galling. Rewarding them is fiscally irresponsible, and will stoke inflation at a time when the Federal Reserve is struggling to temper surging prices.

As a newly-arrived American, I hear my countrymen complain about the cost of education, but education in the US is affordable if you make the right decisions. Community college costs no more than a few thousand dollars a year; state universities are subsidised.

Hence, the only people who are punished in the US education system are those who chose a private university, where tuition can be as much as \$50,000 a year. Why should my tax dollars go to pay for those students who live beyond their means?

Ryan Taylor
Palo Alto, CA, US

Edinburgh's litter-strewn streets are installation art

You interpret Edinburgh's overflowing bins and litter-strewn streets as representing industrial action ineptly dealt with by Scotland's devolved government (Report, August 29).

In fact, they comprise perhaps the most ambitious public-participation cultural event of all time. Scheduled to coincide with the Edinburgh festival, this evening, citywide, art installation – celebrating the conflicted world of mass consumerism – achieved enthusiastic engagement from both visitors and locals alike.

Kim Swales
Edinburgh, UK

A bit hard on the EU?

You write that businesspeople call Uruguay the Switzerland of Latin America "as it is a beacon of sound government in a region beset by corruption and turmoil" ("Magnate aims to tear down Uruguay's 'Switzerland' image", Report, August 24). Surely this is a bit hard on the European Union.

Robert Hopkins
Müstair, Graubünden, Switzerland

OUTLOOK
MIDDLE EAST

Lebanon's crisis pushes families to the brink



Bassam al-Sheikh Hussein was desperate. With mounting debts and medical bills for his ailing father, Hussein needed access to the \$209,000 he kept in a savings account in Lebanon's Federal Bank. But, like most Lebanese trapped in the Kafkaesque nightmare of their country's financial collapse, his funds have been frozen for more than two years, with monthly withdrawals capped at the equivalent of \$400 – hardly enough for his family to survive on.

Lately, according to Hussein, the west Beirut branch of his bank had been withholding even that paltry monthly allowance, despite his remonstrations. After another argument with the branch manager on August 12, Hussein went to his car, brought out a rifle and a canister of gasoline, and held six people hostage, demanding the release of his funds.

Mobile phone footage of the incident spread rapidly on social media. Many were quick to endorse the actions of a man whose anger they shared – seeing him as more Robin Hood than Clyde Barrow, driven to desperate measures by an entrenched ruling class that has yet to implement a road map for recovery.

the bank agreed to hand over \$35,000 of his money, following six hours of tense negotiations. After five days in custody the Federal Bank dropped its charges, and he walked free. Last week, he told Vice News that he may try the stunt again: "Even before the money runs out, I will go to the bank and take more... Maybe the same bank, another bank, but I will do it again." The bank did not immediately respond to requests for comment.

He is not the first disgruntled depositor to "rob" a bank since the crisis began. In January, in the northern Bekaa Valley another man armed with a gun took nine members of staff hostage until the BBA Bank gave him \$50,000 from his account. Back then, the public was divided on whether to call him a hero or a criminal. But seven months later, there was a more visible outpouring of support for Hussein.

"I shouldn't really be saying this but... we all understand what [Hussein] did. He actually did what many of us want to do," said Leen, a bank teller who asked her last name be withheld for fear of retribution from her employer. "He was pushed to the extreme." She added, "I'm just surprised there haven't been more people trying to rob banks so far."

published a scathing report, accusing the Lebanese authorities of operating a giant Ponzi scheme that has "caused unprecedented social and economic pain". The report said public finance was used to capture the state's resources for political patronage, creating a "deliberate" depression. It added that a "significant portion" of people's savings had been "misused and mispent over the past 30 years".

In the absence of formal capital control laws, banks decide who can access their funds, with most people limited to small monthly withdrawals. But media reports show that politically connected people have sent millions of dollars abroad. Meanwhile, the government has stalled on reform initiatives that could unlock international aid money, while endemic corruption and a lack of public infrastructure mean punishing bills for exhausted citizens.

Despite these hardships, the capital is full of recently imported luxury cars and its beaches and restaurants are packed with expats home for the summer. But children are also sifting through dumpsters for scraps with their malnourished parents, while gaunt retirees, whose savings have been lost in the crisis, spend stifling

mitigating factors in either system. French students can choose to study at state institutions and apply for scholarships at private universities, while repayments from English graduates are automatically deducted alongside their salaries and are contingent on the ability to repay. Some

Tuition fees, then, are becoming a lot like the degrees they pay for: an attractive option for those considering them, but one with upfront and long-term costs governments may decide in the end aren't worth the candle.

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by Raya Jalabi

As police arrived on the scene, dozens of people massed outside, turning the hold-up into a full-blown protest against Lebanon's banks and ruling class. Shouts of "let him go" and "down with the banks" rang out. Hussein released the hostages when

Lebanon's financial collapse — one of the worst economic crises in modern history — is in its third year, and has forced three-quarters of people into poverty. The currency has lost more than 90 per cent of its value. Earlier this month, the World Bank

summer days without power in their tiny, cramped apartments. In the absence of state efforts to alleviate the crisis, Hussein's bank hold-up may not be the last.

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Tuesday 30 August 2022

★

FINANCIAL TIMES

15

Opinion

Actors worry that AI is taking centre stage

EMPLOYMENT

Sarah O'Connor



Used to think that artificial intelligence would come for the bean-counters first. It seemed reasonable to assume that AI would transform or even eliminate jobs in sectors such as accountancy and insurance, while work associated with human traits such as creativity would be relatively untouched. But this theory looks flakier by the day. One group of workers who are really beginning to worry about AI are actors and other performance artists.

This wasn't just an amorphous fear about the future: more than a third of members had seen job listings for work involving AI and almost a fifth had undertaken some of this work.

A range of AI start-ups are developing tools for use in film and audio, from making actors look and sound younger to creating AI voices that can be used for marketing campaigns, consumer assistants or even audiobook narration. Audio is such a popular medium now that companies need lots of it, but human actors are expensive and nowhere near as flexible as an AI voice, which can be made to say anything at the push of a button. These companies typically hire actors to provide hours' worth of audio which can then be turned into a voice-for-hire.

Vocalid, for example, offers a range of voices such as "Malik" ("warm, soothing, urbane") "Eliana" ("educated, optimistic, sophisticated") and "AI Very British Voice" ("trustworthy, warm, calm"). Sonantic, another AI company which was just acquired by Spotify, creates voices that can laugh, shout or cry. Its voices are often used by video

game companies in the production process so they can play around with different scripts.

They're not as good as humans, but they don't need to be. Industry experts say no one is going to use AI to narrate the audiobook of a bestselling novel, but there is still a market to be tapped in the vast number of lower-profile books that are published or self-published every

You might find your voice in something violent when you had your heart set on a career in children's film

year. Audiobookal, for example, says it can create an audiobook in 10 minutes with 146 voices to choose from in 43 languages.

Voice actors aren't just worried about losing work to these synthetic vocalists. They're also worried about their rights when they help to create AI personas. Both Equity and SAG-AFTRA, its US equivalent, say they are seeing con-

tracts for AI work that give tech companies the right to use an actor's likeness or voice irrevocably and in perpetuity. Non-disclosure agreements are also common. Young actors, in particular, might be tempted by the upfront fee only to regret the long-term implications.

What kind of implications? Once your voice or face is in the wild and you have no control over it, you might find it associated with something violent when you had your heart set on a career in children's films. Or you might find your likeness is working for a competitor to a company you now want to join. As Equity explains in its guidance to members doing AI-related work: "If at a later date you are asked to work on an exclusive basis for another client, would the presence of your AI voice and the possibility of it working for competitors be problematic contractually?"

Equity is calling on the UK government to update copyright law to make sure performers have the right to control AI-made "reproductions" of performances. Unions on both sides of the Atlantic are also trying to make

agreements with tech companies that give performers royalties when their AI voice or image is used, as well as the right to approve its use in each new scenario. Some companies already do this: Sonantic says it has a profit-share agreement with voice actors, for example.

There are opportunities as well as threats. With decent contract agreements in place, it could be very helpful for actors to have a source of passive income from the AI version of themselves, which is out there diligently doing work which might be boring but still brings in some money. AI also opens up the possibility of more flexible work for people who can't always be on set, whether because of health or family reasons.

That said, the broader lesson for the world of work is that AI doesn't have to be "as good as humans" to begin to disrupt things for ordinary workers. In Hollywood, as in the economy as a whole, the superstars will be fine — everyone else will have to stay on their toes.

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Heirs to Thatcher ignore her lead on industrial policy

Geoffrey Owen

Among the issues facing the Conservative leadership contenders there is one that has received almost no attention: industrial policy. This topic, while not in the same league as the energy crisis, will present the government with tricky decisions in coming months. They are important, not least in showing how far the next prime minister believes in an active role for the state in influencing the structure and performance of particular industries.

Margaret Thatcher, admired by both leadership candidates, believed that the government had no business deciding that one industry was more important than another, and therefore deserving of special help. She also insisted that no obstacles should be put in the way of foreign acquirers of British companies — that put her at odds with Tory MPs, who were greatly irritated when backbench pressure forced her to abandon the sale of parts of British Leyland to Ford and General Motors. As she wrote later, a kind of "pseudo-patriotic hysteria" had swept through politics.

But the Conservative party has shifted in a non-Thatcherite direction. Since Theresa May's government, substantial sums have been spent on developing batteries for electric cars. This has included both funding for early-stage research and direct support for commercial ventures, such as Britishvolt's battery factory in the north-east.

The government's case is that it will help British assembly lines transition to electric cars and contribute to decarbonisation. Similar considerations

Consistent policy in this area has helped to make the UK an attractive destination for acquirers

apply to the Port Talbot steelworks in South Wales; the owner, Tata Group, has asked for help in financing the replacement of blast furnaces with a less carbon-intensive technology. Should steel have a higher priority than others facing similar problems? Despite lengthy debate, no clear definition of a strategic industry has emerged.

As for foreign takeovers, here, too, the influence of Thatcherism appears to be fading. In the pre-Thatcher era, merger control in the UK was widely regarded as arbitrary and unpredictable, with the Monopolies and Mergers Commission (now replaced by the Competition and Markets Authority) using a range of public-interest criteria.

The commission was expected to assess the suitability of the acquirer and make predictions on the consequences of the takeover — a process that provided ample scope for lobbying. This changed in 1984 when trade and industry secretary Norman Tebbit announced that references to the commission would be based primarily on the effects on competition. Although the legislation has been modified, competition has remained the focus in merger control. Consistent policy in this area has helped to make the UK an attractive destination for acquirers.

An important change took place at the start of this year with the National Security and Investment Act. This gives the government wide powers to review and prohibit takeovers that might pose a risk to national security. Like the word "strategic", national security is open to interpretation, an interesting test will be the expected decision on whether to unwind the acquisition of semiconductor company Newport Wafer Fab, by a Chinese-owned company.

Some observers believe that the new act will deter potentially valuable for-

The enemies of globalisation are circling

WORLD AFFAIRS

Gideon Rachman



Globalisation is not just about trade and technology. It is also about politics. Political change, above all the collapse of communism, created the conditions for an age of hyperglobalisation. Now political change, above all rising nationalism, is threatening the dense network of economic ties built up over the last three decades.

The enemies of globalisation can be found across the political spectrum, from the nationalist right to the anti-capitalist left, and from the environmental movement to the intelligence services.

It is true that deglobalisation has not yet really shown up in the trade figures. As my colleague, Alan Beattie pointed out recently, "most standard measures of globalisation — cross-border movements of goods, services, capital, data and people — (are) doing pretty well."

One possible conclusion to draw is that global economic connections and supply chains are now too intricate to be disentangled. While there may be a will to deglobalise, there is no real way.

A sudden retreat into economic autarky by the world's leading trading

nations would certainly cause chaos and hardship. But for all the upheaval involved, international economic ties can break down suddenly. Over the past two years, the pandemic and the Ukraine war have demonstrated how vulnerable international trade is to unexpected shocks. Covid-19 shut down global travel and disrupted supply chains. The war in Ukraine led to a rupture in the west's economic ties with Russia. And the combined political and social forces that are now pushing against globalisation make it likely that there will be further shocks to come.

A decade ago, protectionism was still a dirty word in US politics. But the Trump administration started a trade war with China and the Biden administration has kept the tariffs in place. A bipartisan consensus in the US is now pushing for policies to reduce economic dependence on China and to repatriate key industries, in particular semiconductors. India has followed the decoupling trend, banning Chinese tech companies, such as TikTok, as a response to rising tensions with Beijing.

The Chinese themselves are active participants in this process of decoupling. Arguably, they made the first significant move, with a drive to promote domestic production of key technologies. Beijing's "Made in China 2025" policy was announced in 2015, before Donald Trump's election.

When economic logic was more powerful than geopolitical rivalry, the dominant question was: where is it cheapest or most efficient to buy or produce?



That led to the construction of intricate cross-border supply chains. But in a world in which international rivalries are growing, different questions are asked. Where it is safest to produce or buy? And should we even be trading with nations that we regard as a threat?

The invasion of Ukraine has not just made it seem imprudent to rely on political rivals for key economic inputs, it has also allowed the west's national security establishment to seize the moral high ground from the free-traders. Jens Stoltenberg, the secretary-general of Nato, says that "freedom is more important than free trade". There are not many influential voices making the counterargument.

The political and strategic arguments for cutting trade ties are increasingly

A sudden retreat into economic autarky by the world's leading trading nations would cause chaos

supplemented by arguments about the environment and social resilience. After the pandemic, governments are reluctant to go back to a world in which the production of vaccines, say, or even rubber gloves, is concentrated in just one or two countries. Insisting on domestic production facilities, which once seemed inefficient, now looks prudent. As one industrialist puts it: "We're moving from just in time to just in case."

The potential vulnerability that is preoccupying national security establishments everywhere is semiconductors — crucial for everything from mobile phones to missiles. According to US president Joe Biden, some 90 per cent of the world's most advanced semiconductors are made in Taiwan by a single producer, TSMC. One senior US official says that a Chinese invasion or blockade of Taiwan would create a "semiconductor nuclear winter". Rectifying that situation could take many years. But the drive to do just that is now under way with the passage of America's Chips Act.

The US has long had rules that can

restrict inward investment on national security grounds. The Chips Act creates new rules that will restrict outward investment, discouraging US firms from making semiconductors in China.

National security hawks believe that globalisation meant that the western democracies naively sponsored the rise of hostile rivals such as Russia or China. Leaving critics associate the "neoliberal" era of globalisation with widening inequality and environmental degradation. There are elements of truth to both of these critiques. But the pressure to cut trade and investment ties is not simply a product of rising nationalism and economic stress — it is also contributes to both processes.

For all the discontents that hyperglobalisation has created, I suspect that, in decades to come, the period from 1989 to 2022 will come to be seen as a golden age of peace and prosperity. The world may soon discover that globalisation is the worst possible system — apart from all the alternatives.

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Insurers must rethink handling of cyber attacks on states

Josephine Wolff

The invasion of Ukraine earlier this year drew considerable global attention to the

that scrambled data from the computer systems of companies in more than 60 countries. These spanned industries from energy to shipping, forcing many of them to shut down operations for several days. The White House estimated that the NotPetya malware ultimately caused more than \$10bn in damage and later referred to it as "the most destructive and costly cyber attack in history".

many different countries, including the US, and pointed out that in previous insurance disputes about whether events such as plane hijackings or missile attacks were covered by insurance, the question of whether a sovereign power or military was behind the incident was usually crucial to determining whether something was war or not.

from their coverage because the war exclusion "applied only to traditional forms of warfare". It was a significant victory for the company but it may not be a long-lived one for others that fall victim to state-sponsored cyber attacks in the future.

Earlier this month, Lloyd's of London issued a bulletin noting that, "when writing cyber attack risks, underwriters

commonplace that if insurers start refusing to cover them at the same time as governments continue ramping up their cyber capabilities, then companies won't buy these insurance policies.

Not only will this mean that companies end up less able to recover financially from cyber attacks but it may also make them more likely. There is concern that companies deciding not to buy

It is possible that Russia might combine its physical attacks on the country with cyber attacks aimed at weakening critical infrastructure and information systems. Russia has had limited success, so far, in using such cyber attacks against Ukraine, but that hasn't stopped those insurance companies that sell cyber-insurance policies from worrying that this could cost them billions of dollars – not only in Ukraine, but also in countries such as the US and the UK, where most cyber-insurance policies are sold.

They have good reason to be worried: Russian cyber attacks have already cost insurers a great deal of money, Russia and its government has been widely blamed for the 2017 NotPetya attack

In the aftermath of NotPetya, some insurers denied claims for the resulting costs, on the grounds that the attack was a "warlike act" because a government was behind it. Since many insurance policies exclude coverage for acts of war, the insurers reasoned that this same exclusion should apply to acts of cyber war or state-sponsored cyber attacks.

On these grounds, Zurich denied a \$100m claim by multinational food company Mondelez, and a group of more than 20 insurers denied \$1.4bn in NotPetya-related claims from pharmaceutical company Merck.

Both Mondelez and Merck then sued their respective insurers. The insurers argued that the attack had been attributed to the Russian government by

After NotPetya, some firms denied claims on the grounds that the attack was a 'warlike act'

Meanwhile, Mondelez and Merck disputed that NotPetya was a "warlike action" and Merck further noted that it is not certain Russia was behind the attack, given the difficulties of definitively attributing cyber attacks to a particular perpetrator.

The Mondelez case is still pending, but Merck won its case in December, when a New Jersey court found that the insurers could not exclude NotPetya

need to take account of the possibility that state-backed attacks may occur outside of a war involving physical force". Since the Merck ruling suggests that these attacks may not be considered sufficiently "warlike" to fall under existing war exclusions, the Lloyd's bulletin requires underwriters to start explicitly excluding certain types of state-backed cyber attacks from their coverage, especially attacks that "significantly impair the ability of a state to function" or "that significantly impair the security capabilities of a state."

These new exclusions may help insurers to lower costs in the short term, but they will be bad for the cyber-insurance market in the long term. State-sponsored cyber attacks are now so

cyber-insurance may also take fewer security precautions to protect their own data and networks because they no longer have to meet the requirements of their insurers.

Insurers must understand that no one will want to buy (increasingly expensive) policies that don't cover attacks by some of the most sophisticated and active online adversaries. By only excluding from their coverage those cyber attacks that occur in the context of wars involving physical force, insurers can both better protect their policyholders and also their own business in a world now constantly on alert.

The writer is a professor at Tufts and author of "Cybersecurity Policy"

Others argue the government should go further in taking powers to block foreign acquisitions of companies with special importance for the UK economy. That would involve greater involvement by ministers and the politicisation of merger control – an outcome that should not have much appeal for the heirs of Thatcher.

True, the current trend in the US and the EU is towards more interventionist industrial policies, with subsidies for strategic industries and stricter curbs on takeovers. It does not follow that the UK should move in the same direction.

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Lex.

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Electric vehicles: California goals

California last week set an ambitious target: all new cars sold by 2035 must generate no greenhouse gas emissions.

The UK has already adopted this worthy goal. The EU is seeking to follow suit. But America's love affair with gas-guzzling vehicles runs deep. The move from the golden state is puny by US standards.

Electric vehicles made up 15.1 per cent of new car sales in the state in the first half of this year, according to the California New Car Dealers Association. Add plug-in hybrids and the total is close to 18 per cent.

To get on track with the new target, sales must reach 35 per cent in the next two years.

This is not the first time California has set stretching emissions hurdles. Not all have been met. In the mid-90s, the state walked back a requirement that 2 per cent of cars sold be EVs – then set even tougher goals.

California has the highest proportion of EV sales in the US, with more than a third of the market. The California Energy Commission estimates the state also has the most extensive public charging infrastructure.

Rising petrol prices and tax credits could spur consumers thinking of making the switch. Tesla's Model Y is the state's most popular EV, suggesting the company stands to benefit most.

Traditional carmakers hope to steal market share. Ford is a smaller EV maker but a more familiar brand for consumers.

Price and availability are obstacles. EVs are more expensive than the average car. Experts had projected that the gap would narrow. Instead, it may grow. Prices for lithium used in batteries are down from their March high point, but remain four times higher than last year.

As material prices rise, costs are passed on to consumers. Tesla increased its own prices 5 per cent in March. Ford has lifted prices for its Mustang Mach-E range by up to \$8,000, blaming "market conditions".

US companies are competing for materials with Chinese carmakers, which are scaling up their own production.

BYD, China's biggest electric vehicle maker, reported that sales tripled year

Prada: Milan, darling, Milan

On the first Thursday of each month, fans join the digital queue for the Prada event on the Prada website. They bid on bespoke clothing and matching non-fungible tokens. But the Italian fashion house's foray into the future is a sideshow to a strategy of reconnecting with its past.

Prada wants to broaden its investor base. It is considering a second listing to raise at least \$1bn in fresh capital in Milan. The group opened its first shop there in 1913.

Asian capital lured the maker of fine handbags and bucket hats to Hong Kong for its 2011 initial public offering. European brands were rushing to exploit the ballooning wealth of Asians.

That was before the pandemic narrowed the price premium enjoyed by luxury brands in the region. This has fallen from 80 per cent a few years ago to an average of 50 per cent.

Xi Jinping's drive for "common prosperity" has meanwhile pushed consumers to think twice before flaunting wealth.

Listing in Europe would align Prada with other brands such as LVMH and with the group's local heritage.

Miuccia Prada and her husband and co-chief, Patrizio Bertelli, control the business via an 80 per cent stake.

Lifting the velvet rope for more US and European investors must seem natural for a company whose 22 per cent sales rise in the first half of 2022 leaned on gains in Europe. The Milan quote might, however, test the durability of a price premium to the likes of LVMH and Ferragamo. Prada is a valued stock in Hong Kong partly because its cachet and sales in Asia are higher than for comparable European luxury brands.

The shares trade on a trailing earnings multiple of 36 times compared with 25 times for LVMH and 28 times for Ferragamo, according to Refinitiv. Prada should only come to market in Milan if it can do so without diluting multiples. Shares are a

Interest rates: small fried

Higher rates will impose the worst stresses on businesses that endured tough times during the pandemic, mostly in the tourism and travel sectors. Lex calculations show that interest cover for many S&P 500 groups falls below two times in a stagflationary scenario. Smaller S&P 400 companies are even more exposed

Interest cover in stagflationary scenarios

Ebit as multiple of interest expense

	With 25% ebit recession	With 25% ebit recession and 50% increase in interest costs	With 25% ebit recession and 50% increase in interest costs
S&P 500			
Carnival			
Twitter			
Las Vegas Sands			
Royal Caribbean Group			
Norwegian Cruise Line			
Wynn Resorts			
American Airlines			
Warner Bros			
Caesars Entertainment			
United Airlines			
eBay			
Boeing			
MGM Resorts			
Penn National Gaming			
TransDigm			
S&P 400			
Inari Medical			
GameStop			
SailPoint Technologies			
First Solar			
Wolfspeed			
JetBlue Airways			
Sunrun			
Kyndryl			
HealthEquity			
Sabre			
Envestnet			
Iridium Communications			
Light & Wonder			
Post			
GATX			

FT graphic. Sources: S&P Capital IQ, FT Research

BlackRock/ESG: Texas scold 'em

It is a case of virtue signals crossed. The State of Texas recently published a "blacklist" of investment companies. It accuses them of boycotting the fossil fuel industry via policies with environmental, social and governance aims. Texas public bodies, notably pension funds, could divest their shares in nine listed European investment firms as well as BlackRock.

Welcome to the world of ethical doublethink. The \$10tn asset manager is emblematic of this. It is the favourite punch bag of sceptics and zealots of the ESG cause. Target investment groups have two ripostes. The first, that boycotts are counterproductive, is implicit self-criticism. The second is that values-driven investing is economically rational. Climate change, for example, is an inexorable trend that is creating investment opportunities.

As for legacy oil and gas groups, they are furiously positioning themselves for clean energy transition, even if current cash flow comes from dirty origins.

The Texas blacklist appears largely symbolic. The state may sell modest equity stakes in the managers. But its more meaningful investments are in funds run by them. These would remain unaffected. This manufactured dust-up may leave each side happy with their own selective victimhood.

Previously, West Virginia banned five Wall Street lenders from state contracts, accusing the likes of JPMorgan and Goldman Sachs of engaging in a "boycott of energy companies". Several institutions sent letters quantifying the millions still committed to fossil fuel.

Banks have taken a genuinely hard line with firearms makers. Another Texas law forced such institutions out of underwriting municipal bonds in the gun-loving Lone Star State. Academic research shows that Texas, by relying on a smaller group of banks, could pay perhaps \$500m of additional interest on \$32bn in municipal debt issuance.

Social conservatism thus happily cohabits with financial flexibility. Wall Street, always ahead, rarely lets any value surpass that of the dollar.

Honda/LG: friends electric

So much for the unshakable supplier relationships that supposedly characterise Japanese industry. Honda is collaborating with South Korea's LG to build a \$4.4bn battery plant in the US. The tie-up is the latest sign that Panasonic is losing its position as a key supplier to Japanese carmakers.

The partners will start building the new lithium-ion electric car battery plant early next year. Mass production would begin by the end of 2025. Ohio,

different proposition to the Prada digital time capsules listed at prices of over \$4mn on NFT websites.

home to Honda's main US factory, would reportedly be the site.

Panasonic might superficially seem the easier pick for Honda's battery partner. The pair have been involved in research for years. The two formed a joint venture company in Indonesia four years ago. Their local ties are mirrored by those of LG Energy Solution. In South Korea, it supplies all carmakers including Hyundai, Kia and Edison Motors.

Panasonic and LG meanwhile rub shoulders as Tesla's main battery suppliers. But LG has a more diversified client base – including Porsche, Ford, Volkswagen and General Motors – and the experience that comes with that. In Japan, it has won over Nissan and Isuzu, the largest commercial vehicle maker.

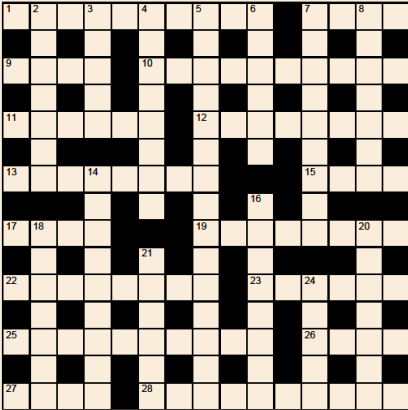
Honda shares are up a tenth this year. It has revealed an unexpectedly aggressive push into the electric market. The group plans to roll out 30 electric models and produce about 2mn units a year by 2030. It wants to phase out petrol cars by 2040.

For Honda, the US accounts for nearly a third of sales. A stable supply chain in the region is critical. President Joe Biden this month signed a bill excluding electric cars assembled outside North America from receiving tax credits.

Honda's stock, at 7 times forward earnings, has long suffered a discount to much larger rival Toyota. But when it comes to electric vehicles, Toyota is just as far behind. The tie-in with LG will help give Honda the edge in the battle for battery supplies.

CROSSWORD

No 17,186 Set by JASON



CROSS

1 Muddy fish? This would wash it off (10)

7 Yes, solid prop. we hear, is unerring (4)

9 50% drop in fatigue in church's recess (6)

10 Fuel spontaneous and boastful blabber (7,3)

11 Developing begonias without, eg. reducing art? (6)

12 One's blown fashionable Bordeaux bottles (8)

13 Corresponding with latitude (8)

15 Irish broadcaster maintaining old learning technique (4)

17 Swanky hotel withdrawing advantage (4)

19 Apprentices left with those making a crust? (8)

22 Expression of appreciation forced out about something pocketed (5,3)

23 Keep nothing back being jolly in Paris, perhaps (3,3)

25 John, say, given least arrangement/conversion (10)

26 Item of state apparel York returned (4)

27 Give up some pierced earrings (4)

28 Toy with sink as a place for rinsing? (6,4)

DOWN

2 Drawing off cloudy essential oil with a

https://digital.olivesoftware.com/olive/odn/ftasia/printpages.aspx?doc=FTA%2F2022%2F08%2F30&ts=20220829192831&uq=20220804103507

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- 3 Choppers spending an hour carrying vessels (5)
- 4 Working Lids seen having both feet on the ground (7)
- 5 Descriptions caused by sharp look? (7,8)
- 6 Cuffing a National paid (6)
- 7 Continue dealing with slice of toast first (7,2)
- 8 Testing matter concerning a refined chap (7)
- 14 Poet's correspondence is behind in the year of a new church (9)
- 16 Cheesy soup dish old salt held in stock (8)
- 18 Possible entry to Europe perturbed Leaver – hard to be accepted (2,5)
- 20 I'll be involved in cooking a brown trout? (7)
- 21 in my mind alternatively mischievous child took the MEI (6)
- 24 Beat cooked broth (5)

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Peter Sutton,
Chief of Staff, Brown Shipley

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