The Tenerife Property & Business Guide mid-June/mid-July 2024



Issue 236

LUXURY HOMES

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Residential Property Sales

€345,000

PENTHOUSE FOR SALE EN ADEJE VILLAGE

3 badrooms and 2 bathrooms

apartment in Adeje Casco.

Spacious terrace 106 m2. Parking included. Total 226 m2. code (279212) June 2024 - Issue 236 · The Tenerife Property & Business Guide





LOS CRISTIANOS

€225,000 APARTMENT FOR SALE IN LOS CRISTIANOS

Discover this charming apartment located Los Cristianos, just a few steps from the Pepa Food Market and just 10 minutes from the beach.

code (284308) in i







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€1.555,000 VILLA FOR SALE IN PLAYA PARAISO.

Luxary 5 bedrooms villa with private pool near the sea. Private garage for 3 cars. In front of the Rosa Center shopping center.

code (279315)	0	-1
	5 bed	5 bath
	259 m ²	terrace
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€59,000

RUSTIC HOUSE IN LA GOMERA FOR SALE Cozy rustic house in La Gomera. Located in a quiet village El Chipude, surrounded by picturesque landscapes. Near hiking areas. Perfect for holyday rent or weekend getaways.

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661

1 beds

160 m² 1 bath

A

terrace







80 m²

terrace

€345,000

CHARMING DETACHED HOUSE IN GRANADILLA DE ABONA WITH A LARGE GARDEN AND COZY STYLE







€367,000 LOVELY SPACIOUS 3-BEDROOM APARTMENT FOR SALE Great location in the center of Adeje Casco. Apartment has a large terrace. In the complex you will find beautiful garden areas and a community pool. code (280897) ER A









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Residential Property Sales 3

AMARILLA GOLF



€399,000 CHARMING APARTMENT IN CORVISCAS ALLO FOR SALE. Spacious 1 bedrooms apartment with frontal sea view. Communal pool in the complex. Great location in front of X-SUR shopping center.









This property has been completely renovated. Located on a spacious 1,900 m² plot, it offers the perfect balance between modern comfort and exterior charm

307 m²

2 bath

4 beds

1224



















VILLA FOR SALE IN AMARILLA GOLF Modern semi-detached house with incredible views of the golf course and the sea, has a large garden and community pool.







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As soon as you enter this wonderful two bedroom, two bathroom property, you are instantly impressed by the spacious rooms that roll out before you. There are two terraces on offer, and one has been cleverly enclosed, so in the morning it can be open and let the early sunshine in, whilst you breakfast al fresco and, in the evening, it can provide a nice space to relax and perhaps read a book, whilst enjoying a cool drink. Sold with 2 underground parking spaces. Ref: GOLF01813 Price: €325,000 (approx. £275,500)



2 BEDROOM SEMI-DETACHED

Tenerife Property Shop are pleased to be able to offer this recently renovated property in the sought after development of San Miguel Village located in an idyllic , elevated position offering views out to the ocean. The house offers a real sense of tranquility with bright, spacious rooms. The large lounge, kitchen and dining areas are all open plan but on split levels. There is also a communal heated seawater pool just a short stroll away.

Ref: GOLF01799

Price: €495,000 (approx. £419,500)







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This month we have featured a small selection of some of our newest properties available for sale, which we hope you find inspiring. However, to explore our complete range of listings, please visit our website at clearbluetenerife.com.

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REF 8606 350.000€

BEAUTIFUL TWO BEDROOM APARTMENT, OCEAN GARDEN, PLAYA PARAISO EXCLUSIVE TO US! A stunning property, located on the 3rd floor of this modern complex, enjoying incredible sea views from the spacious balcony. Master en-suite, fitted wardrobes, secure designated parking, fantastic furniture included – this is going to sell quickly so don't delay! REF 8616 375.000€ □



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Palm Mar, Los Balandros

NEW ON THE MARKET







Bright and spacious 1 bedroom, 1 bathroom 2nd floor apartment overlooking the swimming pool. The property is sold part-furnished and the price includes secure underground parking and a storeroom.

Price: €215,000

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Bright and Spacious 1 bedroom apartment situated on the second floor overlooking the pool. Sold fully furnished, price includes a very large enclosed garage.

Palm Mar, Los Balandros



Spacious one bedroom apartment with a sunny aspect on the second floor of the complex facing the pool. The property is sold fully furnished and the price includes secure underground parking and a storeroom. Palm Mar, Los Balandros



Spacious 2 bedroom, 2 bathroom apartment on the first floor of the complex with sunny aspect. The price includes a secure parking space and storeroom. Sold unfurnished

€275,000

€215,000



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Miraverde - El Madronal 550.000€



An amazing, rare opportunity to purchase this 2 bedroom, 2 bathroom spacious private bungalow, ideally situated in this quiet private residential area, close to all amenities. This spacious property has sea views, ample outside space and presents a blank canvas of opportunities. Viewing is essential to see what's on offer here.

Teneguia II, PARQUE DE LA REINA 325.000€



Refurbished three and a half bedroom Penthouse apartment with amazing 65m2 roof terrace. Featuring independent modern, brand new fitted kitchen, utility room, three double bedrooms, two bathrooms, and office/bedroom on the top floor that joins the newly tiled sunny roof terrace with sea and mountain view. The property is located in a community with swimming pool and gardens and comes with a private parking space, all accessible by lift. Available to view now!

El Salto - GRANADILLA 1.500.000€



Two stunning properties sold together! Large five bedroom mansion with open plan ground floor ideal for entertaining, with separate, fitted and equipped kitchen, snooker/games room, leading to the large tiled garden with pool, bar area, and stunning views to the coast. This property would be highly desirable on the holiday letting market. The second property is a modern, converted three bedroom Canarian house with private heated pool. Recently rebuilt to the highest standard.

Private Villa, LA CALETA 1.595.000€



A truly unbeatable location. This stunning villa is located in the perfect spot, right in the heart of La Caleta, with the ocean front walkway just on your door step. This spacious property offers four double bedrooms, the master en-suite. Bathroom, independent kitchen, utility room, dining room, large lounge leading to a private outside dining area with sea views. Amazing roof terrace with panoramic sea and mountain views. Front and back garden and direct access to the beautiful community swimming pool.

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Location! Location! One of four properties in a building situated in this lovely, sleepy coastal village, and just 10 metres away from the harbour!

Fabulous Attic style 2 bed, 2 bath apartment, recently completely renovated with uninterrupted sea views and with a private roof terrace with panoramic sea and mountain views. This property is located in a small building of only 4 apartments, 1 on each floor, currently with no community fees, and, as an added bonus, there is a storage room below which is included in the price. The building itself has been fully renovated, with many extras. Close to harbour and town centre with all amenities. The property is undergoing its final touches and will be ready to hand over towards the end of June 2024.

€360,000



Location! Location! – One of four properties in a building situated in this lovely, sleepy coastal village, and just 10 metres away from the harbour! Lovely 2 bed, 1 bath plus toilet apartment, recently completely renovated and located in a small building of only 4 apartments, 1 on each floor, currently with no community fees. As an added bonus, there is a storage room below which is included in the price. The building has been renovated completely with many extras.

€195,000

<section-header>

LA360-2

Location! Location! One of four properties in a building situated in this lovely, sleepy coastal village, and just 10 metres away from the harbour!

Lovely ground floor 1 bed apartment, recently completely renovated and located in a small building of only 4 apartments, 1 on each floor, currently with no community fees. The building itself has been fully renovated with many extras. Enjoy the tranquillity of the village yet be only a short walk to some of the best fish restaurants overlooking the harbour as well as all the usual amenities found in any town. The property is undergoing its final touches and will be ready to hand over towards the end of June 2024.



Location! Location! Location! One of four properties in a building situated in this lovely, sleepy coastal village, and just 10 metres away from the harbour! Fabulous first floor 1 bed, 1 bath apartment with a balcony, recently completely renovated and located in a small building of only 4 apartments, 1 on each floor, currently with no community fees. As an added bonus, there is a storage room below which is included in the price. The building itself has been completely renovated with many extras.





€165,000

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Ref: LA195-1

Ref: LA195-0

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Oroteanda Baja, Luxury 5 Bedroom Villa, €940,000





Stunning, fully furnished and equipped, 5 bed, 3 bath (master en suite) detached villa with heated pool on 2,000sqm plot. This spacious property has a huge terrace to the front well situated in a small, which can accommodate up to 8 cars, and a private garden/terrace with lovely sea views to the rear with Cristianos and Playa de BBQ area, jacuzzi, orchard and various seating areas.

There is a large lounge/ dining area, an open plan, fully equipped fitted kitchen and garage for 4 cars ment. Its rare to find such with direct access. One of a large property on a very the bedrooms is situated in such a way that it could easily be converted into a separate studio, or gran-

ny flat. Extras include aircon and central heating throughout, and solar panel heating for hot water and the pool.

This large Villa is very very central village, located between the airport and the southern resorts of los las Américas. With nearby property very popular as exclusive holiday let's this property has fantastic potential as a letting investlarge plot with sea views in such an excellent location. Call now, come see for yourself!





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El Salto - Two stunning villas!





Two beautiful villas sharing the same plot in this outstanding, quiet southern location. An ideal opportunity to, perhaps, own a stylish modern home and a highly desirable property to rent on the holiday market. The



main property, offering lovely views, has five double bedrooms, five bathrooms, an open plan ground floor with

American-style fitted kitchen, snooker room, guest WC and a large lounge/dining room, plus a large heated swimtaining.

private heated pool and has been refurbished to the highest of standards. Viewing is highly recommended.







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ming pool - ideal for enter-

The second property is a 3 bedroom home also with a



A wonderful and rare opportunity to become the proud new owner of a two bedroom, two bathroom, top floor apartment. This unique property is situated within a well-maintained development, providing access to three heated communal pools, communal TV and WIFI. The apartment boasts two terraces, both of which offer views, the North facing terrace looks over the Amarilla Golf fairways and up to Mount Teide, and all the villages and towns in between.

Ref: AMG00632

Price: €260,000 (approx. £220,500)

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3 BEDROOM TOWNHOUSE IN SAN MIGUEL



Spectacular 3 bedroom Townhouse situated in a quiet but central position in the popular town of San Miguel de Abona on a well maintained complex. It is a bright and spacious property that is built over three storeys, with panoramic views of the surrounding area and ocean from both the terrace and balcony to the rear. It also has a high quality finish throughout with the added bonus of air conditioning, a double garage with electric doors, as well as a good size store room too.

2 BEDROOM APARTMENT IN LAS AMERICAS

2 BEDROOM DUPLEX APARTMENT IN AMARILLA GOLF

A 2 x bedroom duplex, Mountain views and a heated community pool on a fantastic complex can only mean Fairways Club in Amarilla Golf... We have an opportunity to purchase a 2 x bedroom apartment on two floors, on the ground floor you'll find an open planned kitchen, living area which leads to your peaceful garden with beautiful Mount Tiede views, along with the fairways of Amarilla Golf.

€360,000

REF: DOSM02





Located in the heart of Playa de las Américas and with direct access to the seafront promenade, the H10 Las Palmeras is surrounded by spacious subtropical gardens and this is your chance to become the proud owner of a two bedroom apartment on the sixth floor where the views are simply out of this world, along with the sound of the waves lulling you to sleep, makes this apartment your very own slice of heaven.

€479,000



An opportunity to purchase a one-bedroom bungalow on the popular complex- 'The Palms' in Golf del Sur. This property is more spacious than your typical one bedroom property and a blank canvas to be transformed into a place you can call home or a superb holiday rental investment. Entering the property, you'll find the hallway and spacious double bedroom that is complete with built in wardrobes and access to an East facing terrace, where you can enjoy the morning sunshine.

REF: DOH10 €195,000

1 BEDROOM APARTMENT IN AMARILLA GOLF

€245,000

REF: DOPLM79

REF: DOFC19



tures a restaurant, heated pool, bar and mountain views. The apartment offers free private on-site parking. The nearest airport is Tenerife Sur

Airport, 5 km away with restaurants and bars in walking distance, a must see and a fantastic opportunity to purchase this ground floor apartment in Amarilla Golf.

This apartment comes sold as seen. IBI: 201.87€ / year Communal fees, including water: 160.00€ / month

175,000€

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REF. 86-391 DETACHED VILLA IN CALLAO SALVAJE €875.000,=

This property sits on a plot of 600 m2 (construction: 252 m2) and comprises:

Ground floor	First floor	Second floor
 Utility room Workshop Pool machinery Garage for one car One parking space on plot 	 Spacious bedroom Guest toilet Walk-in wardrobe Bathroom Huge terrace Private pool 	 2 bedrooms 2 bathrooms (one en suite) American kitchen Utility room Dining lounge Spacious living lounge

- Backyard
- Large terrace

The villa is situated in a quiet urbanisation with no main traffic passing by, its first and second floors have stunning panoramic views of the Atlantic, and, because of its unique position the villa offers sun all day.

The property needs reforms but has great potential (e.g. a private pool could be added in the backyard, and the existing pool could be transformed into a jacuzzi. In addition, another 2 bedrooms could be added to the property without external construction).



VIEWING BY APPOINTMENT ONLY

SALES OFFICE

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The Limitations of Al

model: is Mone or self. model.language model.language (input. feifemodel is Mone or not self. delts file. delts file. feifemodel.self.model.language model land tParser is self.model.setInputString) eLPOuput(parsedInput): ext = self.model.convertInputTaintermediateRes codeResponse is None: sector of (Model failed to produce intermediate un None self.model.convertInputLanguage):

A few weeks ago Professor Barry Smith delivered a lecture in Turin, based on his book Why Machines Will Never Rule the World.

It was a Monday night. During his talk. Smith casually observed that Nvidia's strong stock performance was a symptom of Al's hype and compared it to the infamous tulip mania. In 2023. he remarked, the AI industry spent 17 times more on chips than it brought in in revenue. The following Thursday, and then again on Friday, Nvidia's stocks dropped substantially in value (they have since regained much).

Stock-picking is not a game philosophers necessarily want to play, and that applies to Smith too. But the Nvidia swing came perhaps as less of a surprise to his audience than to others. The AI debate is a battlearound between those who expect unprecedented productivity gains and those who see it as a harbinger of the world of Terminatorthe second being a bigger army. In these heated discussions, Smith and his coauthor, Jobst Landgrebe, may be alone in claiming the middle around.

Smith, a renowned authority in ontology, and Landgrebe, a polymath and a former AI entrepreneur, do not deny the progress of narrow (or weak) AI and its impact. But they take a contrarian approach to both the extreme enthusiasm and the over-the-top fears that seem to mark the AI debate. For Smith and Landgrebe, machines will not think-nor will they aim to take our place and, indeed. rule the world. Plots that are good for science fiction are not necessarily a good description of technological developments, nor should they guide public policy: as it happened in the European Union, or the State of California, which rushed to regulate artificial intelligence assuming it to be an existential threat for humanity.

To understand Smith and Landgrebe's argument, it is important to dig into some of the categories they use.

Narrow AI refers to those artificial intelligence systems that are designed to perform specific tasks in what Smith and Landgrebe call a "logic system." In their realistic understanding, "system" is a word that applies both to organic and artificial realities. In basic terms, a system is "a set of elements standing in inter-relations." But the dynamics of such inter-relations can vary sharply. A "logic system" is one whose behaviour can be predicted using "propositions of mathematics linked together by logical relations." In particular, a logic system satisfies four conditions, clearly articulated by Smith and Landgrebe:

1. "The system behaviour can be explained by reference only to one of the four fundamental interactions of gravity, electromagnetic force, and the weak and strong nuclear force."

2. "The system behaviour of interest is dominated by a single homogenous and isotropic force in such a way that the effects of the other interactions are so small, in the context of the modelled aspect, that they can be neglected."

3. "In each system there are groups consisting of elements of the same type" which interact with each other in identical manner. "For example, in the solar system, the sun and the planets can be seen as a group of elements (of type: lump of matter) which interact via gravitation."

4. "The boundary conditions of the system can be assumed to be fixed without invalidating the model."

This suggests that a logic system has its own equilibrium and is not evolutionary. It resembles a closed environment, in which experiments can be performed with the confidence that each observed effect can be traced back to a clear cause. The "application of the differential calculus in physics and engineering" has been so successful that it made people forget that "the class of systems with all four of these properties is rather small." Indeed, "the overwhelming majority of systems in the universe, and even of systems that we encounter in our daily lives, are what we shall learn to identify as complex systems."

For so-called "general AI" to exist, and then for computers to be able to emulate and go beyond the sort of intelligence humans show, we should be able to model "complex systems"-like, for example, the human brain. "All complex systems are such that they obey the laws of physics," and yet "for mathematical reasons we cannot use these laws to analyse the behaviours of complex systems because the complexity of such systems does beyond our mathematical modelling abilities." Physical systems such as the weather can be seen as complex, and so can organic systems such as our digestive or neurological systems. Smith and Landgrebe also consider "hybrid" systems such as the New York Stock Exchange or traffic. Such systems cannot be modelled to yield the kind of clear-cut, mathematical forecasts that

can be used in technological applications.

If the only thing Hollywood screenwriters can do is recycle 1960s comic book heroes sprinkled with contemporary political correctness, they may fear AI will take their job. But machines' creativity will never top their programmers' creativity. One case in point is the long-awaited promise of self-driving cars. "In 2010, at the Shanghai Expo, General Motors had produced a video showing a driverless car taking a pregnant woman to hospital at breakneck speed and, as the commentary assured the viewers. safely." But predictions of driverless cars flooding the market and putting all taxi and Uber drivers out of business so far proved over-optimistic.

enthusiasts for The self-driving cars neglect the difference between logic and complex systems highlighted by Smith and Landgrebe: Consider ... the case of models for self-driving cars. Algorithms used here are adequate where the software is able to model the sensory input deriving from traffic events through sensors (camera, radar, lidar, sonar) in such a way that it reacts to this input, given the destination, at least as well as (or, realistically, better than) the average human; otherwise self-driving cars will cause more accidents than cars driven by humans, and this will be deemed unacceptable.

Complex systems often correspond to layers of different interrelated sets of elements, that is: systems. The human body can be seen as a series of correlated systems. Complex systems are those wherein it is not so easy to connect one effect to one specific cause; they are the theatre of multi-causal events. Attempts to model them typically end up resembling a simple system, and if the elements to be modelled are carefully identified and properly accounted for, such models can be helpful for limited and modest predictions. But it's difficult to do that, so a model of a complex system is often a paradigmatic case of "pretence of knowledge."

Smith and Landgrebe's arguments appeal to readers of Mises, Hayek, and the Austrian school economists. The two authors are themselves well acquainted with the so-called economic calculation debate and the teachings of the Austrian school. The economy is, in their view, a quintessentially complex system.

Economics can be used to make pattern predictions. of the kind that are useful to decision makers, but not to predict precise events to the fullest degree. For example, setting a price ceiling usually causes the supply of the good to decline. Yet "no economist can quantify such effects exactly in advance (and it is even hard to do this in hindsight, given the many mixed effects in the real-world economy). This is because no economic model can exactly predict any single economic quantity for any selected time or time interval in the future. whether this be the price of a good or the excess capacity of a production method." This does not depend

od." This does not depend on the amount of data available to sketch such a prediction, but rather on the nature of the economic system itself—which is a complex one, affected by a number of actors who cannot, to quote Adam Smith, be arranged with as much ease as the hand arranges the different pieces upon a chess-board.

In this regard, Smith and Landgrebe spoke the same language as the Austrian school. Indeed, "the first economist to realise this was Ludwig von Mises in his 'economic calculation aroument." There are similarities between the grand debate that pitted Mises and Hayek against Oskar Lange and Abba Lerner, to mention only the most relevant combatants. The Austrian economists emphasised the cognitive limits of what is possible for the human mind: the market allows all actors to take advantage of dispersed knowledge and to adapt to change, but it does so in a piecemeal way, with hardly any promise of "perfection" in its working. The social scientist is at best an observer of human interactions, able to take note of them and make qualified and precarious predictions based upon certain regularities. Yet, humans' behaviour and preferences change and adapt in ways that cannot be predicted with rigorous certainty.

Their socialist opponents acknowledged some of the virtues of the market, but maintained that they could be replicated and improved through central planning boards which could learn from experience, while also setting clear targets for themselves. Markets could be mimicked without the means of production being in private hands and, hence, without the sweeping inequalities that capitalism brought with itself. This of course assumes that real markets can be described through a series of equations and that it would suffice to replicate them, to achieve what a market economy does, without its shortcomings. Hayek's famous rebuke highlighted what we tend to call "data." and assume as such, things that are not "given" at all. Competition is a discovery procedure in which new knowledge emerges continuously, and prices convey bits of such knowledge to economic actors, affecting and being affected at the same time by their actions.

The fact that Hayek's opponents seemed not to understand his argument was sort of a puzzle, as he strove to understand the workings of the constructivist mind. In his later work, Hayek himself distinguished between "simple phenomena," to be understood as those in which the outcomes generated by applying a stimulus into a system could be predicted, and complex phenomena. The latter are those in which the elements that make the system up do not interact in a linear fashion and in which the elements and the ways in which they interact are too vast to be comprehended by scientific observers. At best, in complex phenomena, the scientist can understand some general principle that governs the interaction of various elements-but cannot make a rigorous forecast. This is evident in the case, evoked by Smith and Landgrebe, of setting a price ceiling.

The Turin audience's questions to Smith were not that different than those Mises would have received, some eighty years ago. Smith made the point that general AI is impossible, because we cannot effectively model the human intelligence that it is supposed to mimic. He emphasised that it is not just a matter of feeding ChatGPT with more material-and that the current practice of feeding it with more Al-generated material is hardly improving its answers. He frequently resorted to the example of chatbots, not a happy experience of AI for most of us. Indeed. he and Land-Continued on page 24

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Continued from page 22 grebe write that "conversation machines are doomed to failure" because "productive language is a creative act which cannot be emulated mathematically because mathematical models of natural processes represent in every case stable and repetitive laws." In his talk, Smith emphasised that wanting something is crucial for all human conversations (let it be the student seeking

knowledge from the professor or two traders who want to exchange something for something else) and there is no way to teach a machine to want something.

Yet the audience repeatedly tried to bring him to admit that if only we had more calculating capacity, or could feed AI with more or "better" knowledge, general AI could be achieved. Similarly, Mises would have been asked if the problem was not that planners simply lacked a computer powerful enough to connect all the bits of partial knowledge that could be collected through the economy.

Why Machines Will Never Rule the World is a complex book (though Smith expresses its core arguments in lively talks). It was published two years ago and its reception was not as enthusiastic as it deserves, largely because its message disappoints everyone.

The book indirectly chal-

lenges the current common wisdom by which no investment in AI is big enough, as there is a quasi-infinite potential for development. If the game is not developing general AI, but improving narrow AI, one suspects that such investments signal irrational exuberance more than careful calculation. We may be in the AI equivalent of the Dot-Com era: lots of useful applications will come out of it, but the bubble at some point has to burst. It also proves that the AI scare is missing the point. Narrow AI will certainly improve productivity in some areas and will displace jobs, as innovation typically does. But ChatGPT won't be the next Saul Bellow nor Perplexity the new Allan Bloom. Machines, tomorrow as today, are tools activated and programmed by humanswho own the creative part of the process. Of course, if the only thing Hollywood screenwriters can do is recycle 1960s comic book heroes sprinkled with contemporary political correctness, they may fear AI will take their job. But machines' creativity will never top their programmers' creativity.

Such a sober account is clearly disappointing, as humans tend to divide between those who believe in miracles and those who enjoy being frightened about everything else.

Suzanne Lenglen: The world's first global sporting celebrity

By Clare Thorp, Culture and Lifestyle Journalist



A fter the French Open unveiled a new roof for their court named after Suzanne Lenglen – its concertina-style design inspired by her pleated skirts – a look at the 1920s athlete who blazed a trail for modern sports stars.

As the rain lashed down in the first week of this year's French Open championship, it wasn't long before tennis fans got a look at the brand-new roof on Roland Garros' Stade Suzanne-Lenglen, Court the tournament's second biggest stadium. Featuring canvas fabric that unfolds slowly across the court like a concertina, the structure has some unusual architectural inspiration - the famous pleated skirts once worn by the court's namesake.

Talking about the design, architect Dominique Perrault explained: "I wanted to pay tribute to tennis, but also tennis during the Suzanne Lenglen era... and the fashion of that time." Today, many spectators seated under the roof might know little about the player who inspired it other than her name – yet a century ago, Lenglen was not only the most celebrated tennis player in the world, but one of the most famous women, too. An icon of the Jazz Age who brought a radical new style to tennis, both on and off the court, she changed sport – and



Lenglen's pleated skirts have influenced tennis fashion since, as seen in Zendaya's outfit on the Challengers promotional tour

fashion - forever. Tennis and fashion have long had a close relationship, and tennis style is in the spotlight again helped by Luca Guadagnino's film Challengers, which had Loewe creative director Jonathan Anderson as costume designer. and its star Zendaya wore a succession of tennis-inspired looks for her promotional tour. The #tenniscore aesthetic is all over TikTok, and fashion houses are snapping up players to front their campaigns. Former on-court rivals

Roger Federer and Rafa Nadal appear together in a new Louis Vuitton advert. Italian player and Australian Open champion Jannik Sinner is a brand ambassador for Gucci. Spaniard Carlos Alcaraz - who beat Novak Djokovic in last year's thrilling Wimbledon final - has appeared in Calvin Klein and Louis Vuitton campaigns. British star Emma Raducanu has a contract with Dior, while Coco Gauff graced the cover of US Vogue this year. But no player did more to grow the relationship between tennis and fashion than France's Suzanne Lenglen.

Born in Paris in 1899, Lenglen first picked up a tennis racket at the age of 11, and quickly showed a talent for the game. Seeing her potential, her father became not just a pushy parent, but a ruthless and demanding coach, making her practice for hours, and berating her for every mistake.

By 15, Lenglen had won the World Hardcourt Championship, but her career was curtailed by World War One. When tennis resumed in 1919, she was fully ready to make her mark – and she did it in some style. That year, aged 20, Lenglen played Wimbledon for the first time and easily made her



Lenglen was the first tennis World Number one, winning eight Grand Slar singles titles

way through to the final, where she faced 40-yearold Brit - and seven-time defending champion Dorothea Douglass Chambers. The contrast couldn't have been starker: it was a clash of old new v new. tradition v progress, pre-war v post-war. At this point, the standard attire for female tennis players included a corset and a petticoat, but Lenglen wore neither. Instead, she stepped on to the court - in front of King George V and Queen Marv - wearing a short-sleeved pleated dress, the hemline of which fell just below her knee, exposing the top of her rolled down silk stockings as she played. It was a stark contrast to the ankle-length skirt and highnecked blouse of her opponent. Even her suntan was radical.

When officials stopped her bringing in her hip flask, she had her father throw sugar cubes soaked in cognac from

the stands instead

"People were absolutely horrified because she clearly wasn't wearing a corset," says Elizabeth Wilson, author of Love Game: A History of Tennis, from Victorian Pastime to Global Phenomenon. "Her whole appearance was in complete contrast to the Edwardian norm as it were, and people found it shocking and obscene." The press called it indecent, but soon every female player would be following her lead.

Besides, Lenglen was too busy winning to care - not only that 1919 Wimbledon final, but five of the next six as well (she withdrew from the tournament in 1924 for health reasons). Dominant barely begins to cover her achievements, with Lenglen only losing one singles match - and three sets of tennis - in seven years. She scooped Olympic gold and twice won the "triple" (singles, doubles and mixed doubles) at the French Open. So impressive was her streak it even inspired a line in Ernest Hemingway's 1926 novel The Sun Also Rises, in which one character "probably loved to win as much as Lenglen".

Lenglen's aggressive, physical style of play was much more akin to the male players of the time, her overhead serve then unheard of for a female player. Her acrobatic, often balletic moves were made all the easier by her outfits. She wasn't afraid to show passion and personality on the court, either. Sport-Continued on page 26

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Staying on top of the latest currency news can help you time your transfers more effectively, so find out what you should be looking out for over the next couple of weeks...

Latest currency news

Movement in the currency market has been a little erratic over the past couple of weeks, amid political uncertainty and central bank speculation. During this period, we've

+34922

seen GBP/EUR rise from €1.17 to €1.18, while EUR/ GBP slipped from £0.85 to £0.84. At the same time, GBP/USD traded between \$1.26 and \$1.28, while EUR/USD climbed to \$1.09 before retreating to \$1.07.

What's been happening?

Trade in the US dollar has been mixed over the past couple of weeks. USD demand was weak at the end of May in response to disappointing US GDP and inflation figures. Before a hotter-than-expected

71 781

US payrolls report eased Federal Reserve interest rate cut expectations and propelled the 'greenback' higher.

US dollar jumps as US payrolls smash expectations

Positive Eurozone data and European Central Bank (ECB) rate cut bets pulled the euro in two directions at the end of May. A hawkish rate cut from the FCB then revived EUR demand at the start of June as the bank signalled it was unlikely to pursue another cut immediately. Meanwhile. the pound has been left to tread water over the past couple of weeks amid a lull in domestic economic data and limited surprises in the UK election race.

What do you need to look out for?

Looking ahead, the immediate focus will be on the Fed's latest interest rate decision. No policy changes are expected this week, but could some hawkish forward guidance from the bank help to propel USD higher?

For GBP investors, the publication of the major parties' election manifestos may drive movement in the pound. With a particular focus on Labour's fiscal plans as the expected government in waiting.

Meanwhile the fallout from the European elections could infuse volatility into the euro in the coming days, particularly after French President Emmanuel Macron called snap elections.

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Continued from page 24 ing her signature blunt bob and red lips, she sipped brandy between sets to calm her nerves. When officials stopped her bringing in her hip flask, she had her father throw sugar cubes soaked in cognac from the stands instead. "Her success, her style, and her charismatic persona arrived at a point when people were craving a distraction from their lives and the state of the world,' says artist and illustrator Tom Humberstone, who was so captivated by Lenglen's story he based his first graphic novel, Suzanne, on her life.

The French press - delighted to have something to celebrate after the war - called her Notre Suzanne (our Suzanne) and, famously, La Divine (The Goddess). Lenglen had box-office appeal - the popularity of her matches was one of the reasons Wimbledon moved to a larger venue in 1922 - and brought a legion of new fans to the game. "Suzanne made women's tennis undeniable," Humberstone tells the BBC. "She was the biggest name in tennis at the time and arguably the biggest name in sport."

Winning in style

But it was her fashion that was most revolutionary of all. "The fact that women were playing in tight-fitting whalebone corsets hampered their ability to play freely, and was detrimental to their health,"



Federation President Bernard Giudicelli said that Roland Garros would introduce a dress code

says Humberstone. "By eschewing the corset in favour of free-flowing, androgynous dresses, she made it possible for women to play the sport with freedom - while also paving the way for the 1920s flapper aesthetic." Lenglen's trademark sleeveless dresses were the work of French designer Jean Patou, then a rival of Coco Chanel, who turned the tennis star into his muse. It certainly paid off - between 1919 and 1924, the fashion house's revenue increased thirtyfold. According to the Patou website, the designer wanted to "free women from the restrictive clothing imposed on them"

The simple, loose designs that Lenglen wore on the court weren't that different from those she wore off it, reflecting a burring of the boundaries between sportswear and fashion. Lenglen appeared in a 1926 fashion shoot for Vogue, with the magazine writing: "her Jean Patou sports costumes are correct and chic on the court and after the game". Everyone wanted a piece of Lenglen's style. "There would be cut-out dress patterns in the Daily Mirror," says Wilson. "So she really was influential in that way."

As well as the dresses and, later, the famous pleated skirts, Lenglen was known for wearing pastel-coloured cardigans during the pre-match warm-up, as well as white unisex canvas sneakers and her signature headband, often adorned with a diamond pin, dubbed the Lenglen bandeau. She'd frequently arrive to her matches wearing an ermine fur coat or stole. At a time when women were starting to flout societal expectations and norms, the bold and independent Lenglen became a poster girl not only for a new way of dressing, but for a different kind of life. "She wasn't genteel," Wilson tells the BBC. "She was this extraordinary person who wasn't married and didn't have children, who just played tennis all the time and flaunted about being famous and going to balls and dinners and all the rest of it. So in a way she was an outlier."

Lenglen mixed with European royalty and Hollywood stars but commanded just as much, if not more, attention as any of them

Sport took on a new importance after the war. "It got imbued with all these ideas of heroism, strength and courage," says Wilson. With the rise of sport as entertainment, the biggest athletes found themselves on the front as well as the back pages. "Before Lenglen, the concept of sporting celebrities didn't really exist," says Humberstone. "She came along at the nexus point where sport started to explode in popularity after the first World War, and a large part of that was Suzanne herself. She was at the centre of this sea change."

Lenglen mixed with European royalty and Hollywood stars but commanded just as much, if not more, attention as any of them. In 1926, a contest in Cannes against rising US star Helen Wills – seen as her biggest rival, even though they'd never played each other before – was dubbed the Match of the Century, with tickets changing hands for extortionate prices, and those unable to get inside the venue climbing nearby trees to get a glimpse of the action. Lenglen, once again, triumphed. If Lenglen were playing today, her success on court would translate to tens of millions in prize money. As it was, tennis was then still an amateur sport, with those who chose to earn money from it barred from most major tournaments, including Wimbledon. In 1926, Lenglen - who hit out at the elitism of an amateurs-only rule that favoured the wealthy - decided to turn professional and embark on a lucrative US tour, calling the move "an escape from bondage and slavery". In fact, cast out from prestigious events and widely criticised for her decision, it was the beginning of the end of her career. It also meant she never competed at Stade Roland Garros, which only became the site for the French tournament in 1928.

In the 1930s she worked in a fashion store and later as the director of a French tennis school, but aged 39, she died suddenly of pernicious anaemia, three weeks after falling ill. Today, as well as both a court and a walkway named in her honour, a statue of Lenglen stands in the grounds of Roland Garros, and the women's singles trophy is known as the Coupe Suzanne Lenglen.

"On the court, I think it's hard to overstate what she did for bringing attention to the women's game," says Humberstone. As for fashion, Suzanne made the tennis court the new catwalk. "The athletic wear of one week would become the formal wear of the next." The glamour of Lenglen's era feels long-gone. Luxury fashion houses might be dressing players off-court, but sponsorship deals with big sportswear brands means they arrive for matches wearing logo-ed hoodies, rather than fur coats. Players with the same sponsor can even end up in exactly the same outfit, making it hard for viewers to distinguish who they're watching - never an issue with The Goddess.

But Lenglen's spirit can still be felt every time a player feels inspired to push the boundaries and express themselves on court. "We just have to look at the controversy over Serena Williams's catsuit [Williams was banned from wearing her black superhero-style outfit at future French Open tournaments after appearing in it during the 2018 French Open] to find parallels to the sort of controversy that Lenglen's revolutionary fashion choices would provoke," savs Humberstone.

Lenglen's lasting impact on the game – from changing the way women dressed and how aggressively they played to putting women's tennis in the spotlight and paving the way for female sport superstars – is undeniable. As Humberstone says: "All of the things we take for granted about modern sports stars, we can trace back to Suzanne Lenglen."



Concrete is perhaps the most commonly used building material in the world.

With a bit of tweaking, it could help to power our

homes too. On a laboratory bench

in Cambridge, Massachusetts, a stack of polished cylinders of black-coloured concrete sit bathed in liquid and entwined in cables. To a casual observer, they aren't doing much.

The cement that could turn your house into a giant battery

By Tom Ough

But then Damian Stefaniuk flicks a switch. The blocks of human-made rock are wired up to an LED - and the bulb flickers into life."At first I didn't believe it," says Stefaniuk, describing the first time the LED lit up. "I thought that I hadn't disconnected the external power source, and that was why the LED was on. "It was a wonderful day. We invited students, and I invited professors to see, because at first they didn't believe that it worked either." The reason for the excite-

The reason for the excitement? This innocuous, dark

lump of concrete could represent the future of energy storage.

The promise of most renewable energy sources is that of endless clean power, bestowed on us by the Sun, wind and sea. Yet the Sun isn't always shining, the wind isn't always blowing, and still waters do not, in megawatt terms, run deep. These are energv sources that are intermittent, which, in our energy-hungry modern world, poses a problem. It means that we need to store that energy in batteries. But

batteries rely on materials such as lithium, which is in far shorter supply than is likely to be needed to meet the demand created by the world's quest to decarbonise its energy and transport systems. There are 101 lithium mines in the world, and economic analysts are pessimistic about the ability of these mines to keep up with growing global demand. Environmental analysts note that lithium mining uses a lot of energy and water, which nibble away at the environmental benefits of switching to renewable energy sources in the first place. The processes involved in extracting lithium can also sometimes lead to toxic chemicals leaking into local water supplies.

Despite some new discoveries of lithium reserves, the finite supply of this material, the over-reliance on just a handful of mines around the world and its environmental impact have driven the search for alternative battery materials. This is where Stefaniuk and his concrete come in. He and his colleagues Continued on page 28 Currencies Direct



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Continued from page 26 at Massachusetts Institute of Technology (MIT) have found a way of creating an energy storage device known as a supercapacitor from three basic, cheap materials – water, cement and a soot-like substance called carbon black.

Supercapacitors are highly efficient at storing energy but differ from batteries in some important ways. They can charge much more quickly than a lithium ion battery and don't suffer from the same levels of degradation in performance. But supercapacitors also release the power they store rapidly, making them less useful in devices such as mobile phones, laptops or electric cars where a steady supply of energy is needed over an extended period of time.

Yet according to Stefaniuk, carbon-cement supercapacitors could make an important contribution to efforts to decarbonise the global economy. "If it can be scaled up, the technology can help solve an important issue – the storing of renewable energy," he says. He and his fellow researchers at MIT and Harvard University's Wyss Institute for Biologically Inspired Engineering, envisage several applications for their supercapacitors.

One might be to create roads that store solar energy and then release it to recharge electric cars wirelessly as they drive along a road. The rapid release of energy from the carbon-cement supercapacitor would allow vehicles to get a rapid boost to their batteries. Another would be as energy-storing foundations of houses - "to have walls, or foundations, or columns, that are active not only in supporting a structure, but also in that energy is stored inside them", says Stefaniuk. But it is still early days. For now, the concrete supercapacitor can store a little under 300 watt-hours per cubic metre - enough to power a 10-watt LED lightbulb for 30 hours.

The power output "may seem low compared to conventional batteries, [but] a foundation with 30-40 cubic metres (1,060-1,410 cubic feet) of concrete could be



Damian Stefaniuk has been able to use a carbon cement supercapacitor to power a handheld gaming device

sufficient to meet the daily energy needs of a residential house", says Stefaniuk. "Given the widespread use of concrete globally, this material has the potential to be highly competitive and useful in energy storage."

Cement production is responsible for 5-8% of carbon dioxide emissions from human activity globally

Stefaniuk and his colleagues at MIT initially proved the concept by creating cent-sized 1V supercapacitors from the material before connecting together in series to power a 3V LED. They have since scaled this up to produce a 12V supercapacitor. Stefaniuk has also been able to use larger versions of the supercapacitor to power a handheld games console. And the research team are now planning to build larger versions, including one up to 45 cubic metres (1,590 cubic feet) in size that would be able store around 10kWh of energy needed to power to power a house for a day. The supercapacitor works due to an unusual property of carbon black - it is highly conductive. This means that when carbon black is combined with cement powder and water, it makes for a kind of concrete that is full of networks of conductive material. taking a form that resembles ever-branching, tiny roots.

Capacitors are formed of two conductive plates with a membrane in between them. In this case, both plates are made of the carbon black cement, which were soaked in an electrolyte salt called potassium chloride. When an elec-



The researchers at MIT are working on scaling up their carbon cement supercapactor so it can be used in a number of different applications

tric current was applied to | the salt-soaked plates, the positively-charged plates accumulated negatively charged ions from the potassium chloride. And because the membrane prevented charged ions from being exchanged between the plates, the separation of charges created an electric field. As supercapacitors can accumulate large amounts of charge very quickly, it could make the devices useful for storing excess energy produced by intermittent renewable sources such as the wind and solar. This would take the pressure off the grid at times when the wind is not blowing, nor the Sun shining. As Stefaniuk says, "A simple example would be an off-grid house powered by solar panels: using solar enerav directly during the day and the energy stored in, for example, the foundations during the night."

Supercapacitors are not perfect. Existing iterations discharge power quickly, and are not ideal for steady output, which would be needed to power a house throughout the day. Stefaniuk says he and his colleagues are working on a solution that would allow their carbon-cement version to be tuned by adjusting the mixture, but they will not disclose the details until they have finalised the tests and published a paper.

There could be other issues to overcome too adding more carbon black allows the resulting supercapacitor to store more energy, but it also makes the concrete slightly weaker too. The researchers say any uses that have a structural role to play as well as energy storage would need to find an optimum mix of carbon black. And while carbon-cement supercapacitors could help to reduce our reliance on lithium, they come with their own environmental impact. Cement production is responsible for 5-8% of carbon dioxide emissions from human activity globally, and the carbon-cement needed for the supercapacitors would need to be freshly made rather than retrofitted in existing structures.

Nevertheless, it seems to be a promising innova-

tion, says Michael Short, who leads the Centre for Sustainable Engineering at Teesside University in the UK. The research "opens many interesting potential avenues around the use of the built environment itself as an energy storage medium", he says. "As the materials are also commonplace and the manufacture relatively straightforward, this gives a great indication that this approach should be investigated further and could potentially be a very useful part of the transition to a cleaner, more sustainable future."

But more research will be needed to move this from the laboratory into the real world. "Often, new discoveries are problematic when considerations are made to move from lab or bench scale to wider deployment at larger scales and volumes. This can be due to manufacturing complexities, resource scarcities, or sometimes due to the underlying physics or chemistry. Desirable properties occurring at smaller scales may reduce or even vanish when attempts are made to make it larger."

But there may be a way of overcoming the problem of environmentally-unfriendly cement, adds Short. His colleagues at Teesside University are already working on low-emissions cement that is made from the by-products of the steel and chemical industries.

Projects such as low-emissions cement and energy-storing concrete raise the prospect of a future where our offices, roads and homes play a significant part in a world powered by clean energy.







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1984: How did the Isle of Jura help shape Orwell's masterpiece?

By Craig Williams and Chris Diamond, BBC Scotland News



George Orwell - his most famous work Nineteen Eighty-Four celebrates 75 years in print on Saturday

George Or-Well's Nineteen Eighty-Four was published 75 years ago.

It is the story of Winston Smith, an obedient citizen in an oppressive future state who slowly rebels against the system. The book is a powerful study of totalitarianism and its effect on the individual. It takes place in a future world of war, poverty, rationing and absolute state control. Every action, word and even thought is monitored and controlled by the leader, 'Big Brother', and 'The Party'. It was written in a world ripped apart by fascism and against the backdrop of the early days of the Cold War and the spread of communism.

The novel is set in a part of Britain re-imagined as Airstrip One, in a state called Oceania. It is a rainy, filthy place, crumbling and battered, and almost entirely devoid of colour, warmth or comfort. But it was written in an isolated and beautiful corner of the Isle of Jura as the author, afflicted by the tuberculosis which would soon kill him, sought to escape the noise, smog and damp of London, and get his warning to the world completed before he ran out of time.

Richard Blair turned 80 in May. A retired businessman, he has spent the past few decades minding the legacy of his father, Eric Arthur Blair - known to readers the world over as George Orwell. Rich-



1944. His new mother died

little less than a year later,

leaving father and infant

son alone together. In the

years following the end of

the war in 1945, Orwell - fi-

nally well-off from the suc-

cess of his novel Animal

Farm after years of poverty

- looked after Richard with

the help of his family and a

But after a visit to Jura

in September 1945, he

began planning to move

there. He returned to the

island repeatedly over the

housekeeper.

Barnhill became home to Orwell and his family in 1947

ard was adopted by Orwell and his first wife Eileen O'Shaughnessy just weeks after he was born in

by Or

Or- coming two years, bringing e Ei- with him his extended famjust ily including his sister Avril rn in and her partner. He final-



The Paps of Jura are the starkly beautiful Hebridean island's most distinctive feature

ly fulfilled his wish to decamp to the island full time in April 1947.

The house they rented, Barnhill, sits in the north of the island. It was barely habitable. Shabby, damp, cold and alone at the end of more than four miles of single track path. Yet Richard has nothing but happy memories of his time there. His father was pleased with the move, too. "It was a nice house. A bit rough and ready, but for him it was a lovely place to go to. Remote, certainly. It was, as he described it to friends, a 'most un-get-atable place," he says. Richard credits his aunt with making the place habitable. "Without her it would have been very difficult for my father to have survived properly. She was very practical and a good home-maker. So she got the house comfortable. As



Barnhill stands in the north of Jura, miles from the main road warm as one could expect and freedom, hi

it to be made. Much has been made of the often harsh Hebridean climate and whether Jura was the best place for a man suffering from tuberculosis. It has even been suggested that living there in such spartan circumstances may have contributed to the grim tone of Nineteen Eighty-Four. Journalist Alex Massie, who is a regular visitor to the island, is sceptical. 'Orwell's decision to live in the Hebrides - a long, long way away from London at a time when he was suffering from poor health has created this vision of the sort of doomed novelist writing himself to death at the end of the world." he says. "That is a very romantic vision obviously, but it's not one that bears very much scrutiny. In certain respects Jura was a healthier place to live than London. And so it was not some sort of mad or suicidal sojourn. "It happened to be Jura that he went to, but almost anywhere that was isolated and ru-

ral would have sufficed be-



savs.

Richard Blair has fond memories of his time on Jura cause what he wanted was and lumps of venison that peace."

That certainly corresponds with Richard's memories. "I loved it. It's a wonderful island and for a kid it was just total freedom. Unlike London, on Jura you could just open the back door and off you went. There were thousands of acres of land you could walk over," he says. While the young Richard was enjoying the scenery

ther was avoiding the type-

writer by working the land.

"He had by this time man-

aged to try to get the gar-

den dug over and planted.

So that gave him a break

from writing Nineteen

Eighty-Four, which he had

new town East Kilbride. When he returned to Jura in the summer of 1948 he was only just well enough to work on the book for which he would become most celebrated. He completed it just before Christmas and the Blair clan left Barnhill for the final time in January 1949. Nineteen Eighty-Four was published five months later. The following January, Orwell died after an artery burst in his lungs. He was 46. Nineteen Eighty-Four is and freedom, his writer fa-

time to time. "From that

point of view we lived ex-

tremely well, if simply," he

Orwell continued writ-

ing, though his health was

deteriorating. At the end

of 1947 he was hospital-

ised at the sanatorium in

Hairmyres Hospital, then

in the countryside outside

Glasgow, but now in the

Nineteen Eighty-Four is a book whose reputation has grown and grown. Controversial from the moment it was published, it was unpopular with many on the left who were unhappy with what they saw as an attack on communism. But it sold and kept selling. An ac-



The BBC adapted the novel to acclaim in 1954

just started. "Once he had established the garden, so he was growing vegetables, that was obviously of paramount importance for food. Because obviously it was the days of rationing and getting food was really difficult. "We actually had a very good lifestyle. We had access to fish, to lobsters, to crabs. We had access to meat in the form of rabbits claimed BBC production in 1954 brought it to a wider audience, and it gradually made its way onto college and school courses around the world. It has now sold more than 8 million copies, been adapted many times for stage and screen, and, in what can be seen as the ultimate measure of its power, was banned in the

Continued on page 32

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Continued from page 30 Soviet Union until 1988.

But as the book reaches its 75th anniversary, its greatest influence may be in how it changed the way we speak and think. In that way, it has come to mirror the very themes the book "Big Brother", explores. "Groupthink", "Thought Police", "Thought Crime", "Room 101", even the description "Orwellian". The book has left us with a rich legacy of words and ideas to describe the power of the state, totalitarianism. the role of technology and what it is to live in a surveillance culture.

For writer and film critic Hannah McGill, much



Nineteen Eighty-Four has been adapted for both stage and screen

its predictions. "Sometimes I do think you get a sort of miracle of prescience with a certain piece of work, where it happens to hone in on a few ideas that prove to just really predict the preoccupations of the coming age," she

of its power comes from | says. "One thing that the book predicted correctly is that we now live in a societv far. far more dominated by technology in ways that Orwell could not imagine, because nobody could. "You only have to look at the role of the telescreen in Nineteen Eighty-Four

and the fact that you now have this medium which is entertainment, propaganda. advertising and surveillance all at the same time."

For Alex Massie, the book's influence goes way beyond its success as an imaginative work. He says: "It's a book that many people think they know a lot about even if they haven't actually read it and that's quite unusual. "And what makes Nineteen Eighty-Four quite distinct and a monumental achievement in certain ways is that you can have strong views about it without having read it." For Richard, his father's greatest work remains prescient for the

Orwell's image remains a potent symbol of protest today warnings it gives us about | right, which can come from

the world we continue to live in. For him, it remains relevant in the age of spin and modern technology. "Any sort of situation where you are being fed disinformation, which can come from either left or

whatever organisation wants to put it out there. "They want to guide you down the path they want to take you. And I would suggest that is what has become 'Orwellian'".

Why MPs love to hate the register of interests



Houses of Parliament, Westminster

The register of members' interests for the House of Commons turns 50 today.

Few MPs will be celebrating. Politicians have long shuddered over a document that provides fertile ground for journalists from which to dig out stories. The register - and the declarations within it have cost more than a few MPs their careers. Plenty of other MPs and even PMs have come a cropper as a result of what is, and isn't, in the register: Rishi Sunak is just one of the more high-profile figures to end up in hot water after being accused of failing

to fill the register out fully. While politicians dislike the register, its existence is good news for the rest of us. It's easy to take it for granted that those we elect to represent us in parliament should declare their interests, but things haven't always been this way. Plenty of other MPs and even PMs have come a cropper as a result of what is, and isn't, in the register For centuries, 'par-

sovereignty' liamentary reigned supreme. In practice, this often meant that parliament stood wholly unaccountable - even to the voters - for there was no 'need to know' whether MPs were taking shareholder dividends from arms dealers, or wholly supported by trade unions. When-

ever this was queried, MPs could claim 'parliamentary privilege', then as now an elastic term.

Into this cozy scene came an outsider: the journalist Andrew Roth. A refugee from the McCarthvite witch-hunts in the United States, Roth's background was in naval intelligence, and he was a keen amateur psychologist. Working as a parliamentary correspondent, in 1953 he couldn't work out why the Labour MP Richard Stokes took such a strong pro-Arab line when his party colleagues were mostly pro-Israeli. Eventually, he realised that Stokes' company directorship, selling oil pipelines across Arab countries, was just one example of a plethora of MPs' undeclared company directorships, shareholdings and sponsorships.

With little press interest in covering these, Roth privately published his own register: the first edition of The Business Background of MPs launched in 1957, the proofs literally cut-andpasted together on a typewriter. Subsequent parliaments would see new editions published. When Roth had difficulties with libel threats, friendly MPs like Philip Noel-Baker and Willie Hamilton would read out excerpts on the floor of the Commons - protecting the contents under parliamentary privilege.

While Roth pressed for an official register, the issue was dismissed as a crackpot scheme. This changed with the scandal of the architect John Poulson in the early 1970s, and the revelation that his corrupt practice had kept 'tame' politicians on its payroll, from the Labour council leader T. Dan Smith to the Conservative home secretary Reginald Maudling. 'It's just a few bad apples' gave way to 'something must be done'.

The register of members' interests, long campaigned for, owes its existence to the unique circumstances of the hung parliament of March to September 1974. The incoming Labour government lacked a majority and was looking for 'quick wins' involving no public expenditure - and preferably which would disproportionately embarrass Conservative MPs, who were much more likely to hold company directorships.

Many of the issues debated in 1974 remain surprisingly topical. MPs were divided between those like Peter Shore, who insisted that MPs' financial affairs were a private matter, and those like Brian Walden, who insisted that MPs should have nothing to hide.

Yet the fateful resolution of the House of 22 May 1974 that brought the register into existence was not the end of the matter. MPs tried to have the register strangled at birth. Resistance to filling out the mandatory new forms led to the first register not being compiled until 1975. Subsequent editions of the register were blocked for another five years, by the improbable alliance of Michael Foot and Enoch Powell. They were united in leading backbench rebellions, claiming parliamentary sovereignty extended to MPs' financial affairs - even after the House had decreed otherwise.

MPs like Neil Hamilton joked about properly declaring a biscuit Margaret Thatcher's government resurrected the moribund register in 1980. However, this resuscitation came at a cost. Categories were watered down, alongside their enforcement. There is a direct parallel here to another innovation of the first half of the 1970s, the parliamentary expenses regime, and how MPs in the 1980s were told to 'spend it, boys' as a perk of the job. Here, too, there was no mechanism for enforcement.

By the late 1980s, the register had become something of a joke, with reams of undeclared financial interests: Roth's 1988 revelation that the lobbyist lan Greer was paying a stable of 'tame' MPs like Sir Michael Grylls, who weren't declaring these payments, foreshadowed the 'cash for questions' scandal of the early 1990s. By the time of the Major government, a string of financial scandals stood testament to the emasculation of the register. All the while, MPs like Neil Hamilton joked about properly declaring a biscuit.

What salvaged the register was John Major convening the committee on standards in public life in 1994, and Lord Nolan's Seven Principles of Public Life, released in the committee's first annual report the following year. The late 1990s saw a range of public institutions, including the civil service and the House of Lords, instigate far-reaching rule changes that were all aimed at embedding those seven principles. This included introducing the House of Commons' first enforcement mechanisms, with the 1995 establishment of a parliamentary commissioner for standards. Rules were still flouted - Ted Heath continued to refuse to properly disclose payments from Chinese stateowned companies - but a formal mechanism existed to hold him to account.

The New Labour years saw fresh challenges. On the one hand, there was a broad consensus that the Nolan regime offered the best hope for moving on from the scandals of the Major years. On the other, this came with an assumption that such rules were only for Tories to observe, Continued on page 34

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Continued from page 32 and a string of Labour MPs fell foul of the commissioner's rulings. This was further complicated by the piecemeal nature of Nolan

reforms for parliamentarians and ministers, leading to a 'twin track' of separate rules, and ministers arguing - with some success that they should be exempt

from both sets Recent years have seen a sustained assault waged on compliance with the rules, and the damage wrought under Boris Johnson's premiership has yet to be fully processed. The Owen Paterson case - in which the Tory MP was accused of breaking lobbying rules, something he denied saw an attempt by MPs to retrospectively rewrite the rules. Some saw this as a bid by politicians to let off one of their own. If so, it failed: the backlash was swift. Paterson - and Boris Johnson, who had attempted to defend his Tory

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colleague - paid a heavy price. Time will tell whether that was a turning point for the future of the register of members' interests.

tains. It is well established

that the right composition

of gut microbiota can have

widespread effects on our

What happens when you take too much caffeine



Naffeine is an ac-∕tive ingredient in some of the world's favourite drinks and has a powerful effect on humans. What happens if you take too much?

It is there naturally in your morning coffee and cup of tea or added to your favourite energy drink and many popular soft drinks. For many of us, a slug of caffeine can give our bodies and brains a much needed boost if we are feeling a little sluggish. But recently, a brand of lemonade on sale in the US was discontinued amid accusations its caffeine content was dangerously high, despite reportedly being within the country's recommended daily intake of caffeine for adults. It has raised questions about just how much caffeine is too much, and does it matter where we get it from? While there's a vast number of studies showing that some caffeinated drinks have health benefits, there's still some uncertainty around how we should be consuming it.

How caffeine affects the body

There are many crucial functions at play in our bodies all the time, including heart rate, blood flow and sleep-wake cycles. Many of these affected by adenosine - a chemical that occurs naturally in your body, and whose job it is to make us tired at the end of the day. "Adenosine is one of the naturally produced substances in the body to cause a quieting of activity in various organs

Coffee is the world's most popular drink, but a typical dose of caffeine varies widelv

that are under stress or in need of lowering energy demand," says Kenneth Jacobson, chief of the molecular recognition section at the National Institute of Diabetes and Digestive and Kidney Diseases in the US. Adenosine receptors are found on the outer surface of many cells in the body, he says, and they react to variable levels of adenosine near the cell to send a command inside the cell to lower its level of activity. This promotes sleep in the heart, kidneys, immune system and other tissues. When we consume caffeine, it's quickly absorbed into our bloodstream, where it out-competes adenosine by preventing it from connecting to these receptors and doing its job. This is why consuming caffeine can make us feel more awake and alert.

Caffeine can also boost levels of other neurotransmitters like dopamine and adrenaline, which can make you feel more stimulated, says Damian Bailey, professor of physiology at the University of South Wales in the UK. "The brain is like a big muscle," Bailey says. "It needs to perform things, and dopamine, adrenaline and caf-

feine all stimulate it."

Health benefits of caffeine

There's a huge body of evidence around caffeine's effects on our health – particularly coffee, since this is one of the biggest contributors of caffeine in the diets of most populations. An umbrella review analysing more than 200 meta-analyses in 2017 found that drinking three to four cups of coffee a day was more often linked to health benefits rather than harm, and that studies finding harmful associations could be explained by the higher proportion of coffee drinkers that also smoke. However, one area where things may get a bit nuanced is heart health. One population study of almost 19,000 people found that, while drinking more than two cups of coffee a day was



Research has shown that people who consume filtered coffee had lower rates of arterial disease

linked to a higher risk of death from heart disease among people who already had high blood pressure, this wasn't the case among those with healthy blood pressure.

Coffee - but not tea – has been consistently found to protect against depression

And in a review of evidence, scientists say that, while moderate coffee consumption can lower the risk of death, high blood pressure and heart failure, there was no clear effect found on coronary heart disease risk. Studies show that coffee can also have an effect on how well we exercise. One study of amateur cyclists found it can improve physical performance by up to 1.7%. Caffeine has also been associated with a decreased risk of several forms of cancer, heart disease and type 2 diabetes. Coffee but not tea - has consistently been found to protect against depression, and there's also evidence that adenosine's antagonists, including caffeine, that block adenosine receptors, are beneficial for the ageing brain, says Jacobson. "Caffeine itself, and other more potent, synthetic caffeine-like molecules, have been studied clinically and shown to be beneficial in humans with neurodegenerative diseases, including Alzheimer's dementia," he savs.

In fact, research has associated caffeine consumption with up to a 60% reduced risk of developing Alzheimer's. One explana-

compounds that have antioxidant and anti-inflammatory effects. And while instant coffee contains more healthy polyphenols than filter coffee, it also contains more of the carcinogen acrylamide, says Ruari. Tea has also been found to have similar anti-inflammatory effects, due to its flavanol content. Is all caffeine created equally?

While coffee is best known for its caffeinated properties, tea is a strong contender, too. "Strongly brewed black and green tea can pack quite a punch as far as caffeine is concerned," says Bailey.

There are potential health benefits to replacing some coffee with tea was better than drink-

ing just coffee

One study that followed more than half a million coffee drinkers over two decades found that people who drank filtered coffee - which involves brewing coffee more slowly through a filter - had lower rates of arterial disease and death compared to Continued on page 36

tion for this is that caffeine improves blood flow to the brain, says Bailey. The brain burns a huge amount of fuel, he says - despite

only weighing around 2% of our body weight, it accounts for more than a quarter of our body's entire energy requirements. "But while caffeine's ability to increase blood flow to the brain is a good thing, this can also trigger headaches, so caffeine is a risk factor for migraine suffers.

he says.

What does coffee do to your body?

Coffee has also been associated with healthy compositions of gut microbes, partly thanks to the bioactive polyphenol and alkaloid compounds - of which caffeine is one - it con-

health. And it's worth noting, some of the health benefits associated with coffee are not down to its caffeine content. Chlorogenic acid, a compound unique to coffee, for example, may be behind some of coffee's beneficial health outcomes, particularly diabetes, says Cornelis. "Population data strongly shows that coffee-drinking reduces diabetes, but the effects are also found with decaf. so it's probably not related to caffeine," she says. And many caffeinated drinks can have different effects due to other things they contain. This is true even for different types of coffee. For example, roasted coffee contains bioactive





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MOTORW RLD

I'm sure that everyone finds, sometimes, after finding the car of our dreams there just 'something' missing?

This could be reversing bleepers, a camera to assist us when parking, parking sensors, or perhaps a better radio that has Bluetooth the list really is endless.

Often, we hesitate asking the garage if any of these things are possible, or maybe we just think they would be too expensive?

Here we are going to look at what options are available here in Tenerife, which will not be as comprehensive a list as it would be in the UK, but, nonetheless, they are available.

Parking sensors

With these fitted a car 'senses' its surroundings and makes them the most widely used of the new car technologies. The sensors are mounted on the bumpers, and they detect the distance of obstacles (e.g. posts, other vehicles, even shopping trolleys!) from the extremities of the car, and deliver an audible beep which gradually becomes louder the closer you get. Some systems are now combined with an in-car screen showing which part of the car is closest to the object, al-

POST-PURCHASE EXTRAS

lowing for a safer, more accurate manoeuvre. It's generally possible to fit these sensors to most cars/vans helping avoid unnecessary bumps and scratches to your vehicle.°

Reversing/360° cameras

These are a step-up from parking sensors, with some vehicles now featuring a rear-facing camera - mounted high and pointing slightly downward, showing obstacles far more clearly than the rear-view mirror can. These gadgets use a wide-angle lens to give you a broad fieldof-view to the rear of the car, with images relayed to the driver, usu-

ally by a screen mounted in the dashboard, and often feature guidelines which show the direction of the car based on the current steering angle and its proximity to obstacles. This is especially useful for those who have difficulty in reversing into tighter spaces or parallel-parking. 360° cameras are generally fitted as standard on new high-end vehicles such as BMWs, Porsches and Range Rovers but it is also possible to fit one on more modest models. This particular accessory allows you to view more accurately the space available and the position of the wheels, and often will avoid any risk of doing serious damage



to your lovely car!

Car Stereos

I doubt that there are many drivers who are not happier than when they are driving along singing to their favourite song (albeit out of tune!). However, many cars offer a pretty basic stereo, as well as small speakers, so the quality of the sound is often mediocre. Many people like to listen to music from their phones/iPods or similar via Bluetooth but clearly the stereo must be compatible.

So, to make your driving experience less stressful, more enjoyable and therefore you a happier driver, why don't you consider installing one of the above?

For more information contact Emma at Motorworld.

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Continued from page 34 those who drank no coffee, or unfiltered coffee. The researchers conclude that this might be because of the caffeine.

In the first known study to look at the effects of substituting coffee with tea, researchers found that there are potential health benefits to replacing some coffee with tea compared to drinking just coffee. The researchers conclude that men who get between a third and one half of their daily caffeine intake from coffee had the lowest risk of death, and women who drunk just coffee, or up to 40% tea, had the lowest risk of death but those who drank more tea than this were at an increased risk of death. Another more recent trend is the use of caffeine in energy drinks - a vague term for caffeinated soft drinks that contain other ingredients including sugar and other stimulants, such as guarana. These seeds contain around four times more caffeine than coffee beans, and the combination of other natural chemicals in guarana seeds may heighten its stimulant effects over caffeine alone.

Caffeine levels build up in the blood stream after 20 minutes, and it takes about an hour for 'peak caffeine' – Damian Bailey

Studies show that the some of the most popular caffeinated energy drinks in the UK and US contain between 75 and 160mg of caffeine, but some contain as much as 500mg of caffeine. "Energy drinks often contain other stimulants like B vitamins, L-carnitine, L-theanine, and glucuronolactone," says Alex Ruani, doctoral researcher of nutrition science education at University College London. "When combined, all these things can upset many body systems, including the brain and the heart. Long term this can cause cardiac harm such as hypotension and arrythmia, and neurological disturbances like panic at-



Energy drinks often combine caffeine with other stimulants such as B vitamins, L-carnitine, L-theanine, and glucuronolactone

Timing it right

tacks and seizures."

Whether you consume caffeine to stay alert through meetings or in an attempt to improve your stamina in the gym, the time of day seems to matter. "Caffeine levels build up in the blood stream after 20 minutes, and it takes about an hour for 'peak caffeine'," Bailey says. "Caffeine helps muscles to contract more powerfully, and increases our tolerance to fatigue, so it can boost performance quite considerably if taken one hour before exercise." When you first wake up in the morning, some researchers recommend waiting for 90 minutes to two hours before having your first cup of coffee. Their reasoning is that in the first couple of hours after waking up, adenosine bound to the receptors on the outside of your cells will gradually clear, leaving the way clear for caffeine to bind more effectively. However, other researchers dispute the validity of this idea and say there is little scientific evidence to support it.

But while caffeine enters the gut quite quickly, its effects can take hours to wear off. Scientists recommend having your last 'dose' of caffeine eight hours and 48 minutes before you go to bed.

When is caffeine not advised?

National guidelines in the UK, and the US, advise limiting caffeine to 200mg per day when pregnant. However, in an analysis of 37 studies, 32 of the studies found that caffeine significantly increased risk of adverse pregnancy outcomes, which can include the mother developing gestational diabetes or preeclampsia, or restricted is because caffeine easily crosses the placenta. Researchers have found that, for miscarriage and stillbirth, there's an increased risk for each increment of 100mg, and low birth rate from 10mg per day. Caffeine also passes through breastmilk to breastfeeding babies, says Jack James, professor at Reykjavík University in Iceland. "Although the caffeine concentration in infant blood is lower than that of the mother, it's important to note that infants are unable to metabolise caffeine," he says.

growth of the foetus. This

Not only can caffeine effect how difficult it is to get to sleep, but it may also affect how much deep sleep you get

Exposing babies to caffeine this way can cause them to feel caffeine withdrawal symptoms, James says.

"It has been firmly established that caffeine interferes with sleep in adults and that regular consumers become physically dependent, evidenced by a wide range of disruptive withdrawal effects," he says. These symptoms, he adds, can occur as soon as six hours after abstaining from caffeine, especially among daily caffeine consumers, and symptoms can include headaches and irritability. "While there has been little study of caffeine-induced withdrawal symptoms in infants, we may assume that any such effects parallelling those experienced by adults are likely to be disruptive," he says.

And not only can caffeine effect how difficult it is to get to sleep, but it may also affect how much deep sleep you get, says Ruani. There is also evidence showing that adenosine has anti-inflammatory effects against immune and inflammatory disorders. "Those might be conditions where reducing caffeine intake would be appropriate, after consulting a medical professional," Jacobson says.

How much is too much caffeine?

There are no guidelines in the UK specifically, but the European Food Safety Authority EFSA advises healthy people to drink no more than 400mg per day, and no more than 200mg in a single drink. Generallv. the consensus seems to be that drinking between 200 and 300mg of coffee per day is better than not drinking it at all, Bailey says. But recommendations can be rather futile when we don't know how much caffeine is in any given drink, and the content is so variable, he adds. If we assume that there are 100mg in a cup of coffee. 400mg is four cups of coffee per day – but, Bailey savs, four flat whites would be well over the 400mg limit. This is because different bean varieties. the amounts of coffee grounds used and the preparation of the drink itself can all have an effect.

A moderate intake of around two or three cups of coffee per day hasn't been linked to any serious negative side effects in healthy people, says Jacobson

"Providers aren't aware of how much caffeine they're giving you," he says. "An espresso can contain anywhere between 250mg and 700mg of caffeine, and some eneray drinks can be 500 or 600mg." So, it's easy to overload on caffeine, Bailey adds - and you'll know when this happens, because you may start to feel nauseous, anxious and irritable, and develop a headache. You might also start to feel premature ventricular contractions – which are extra heartbeats, as the heart's pacemakers become irritable, he adds. But a moderate intake of

around two or three cups of coffee per day hasn't been linked to any serious negative side effects in healthy people, says Jacobson. And if people need to suddenly stop consuming caffeine, he advises doing so gradually over a few days, to avoid any withdrawal symptoms. And if you consistently drink high amounts of caffeine over time, you're more likely to experience withdrawal symptoms if you suddenly stop consuming it, but research suggests they can occur with daily doses as low as 100mg. The mechanism behind withdrawal symptoms is the same mechanism that causes caffeine's stimulant effects, says Cornelis. "People who consume a lot of caffeine over a long time will build up a tolerance effect, because adenosine receptors multiply. And if there are more of these receptors, there's more opportunity for adenosine to take effect in the absence of caffeine," she says.

Individual differences

There are at least eight genes we inherit that are associated with caffeine intake, including ones that influence neurological stimulation, the psychoactive effects of coffee on the brain, how quickly we metabolise coffee, how much we can tolerate, and how much we enjoy it, says Ruani. It can take as little as two hours to metabolise half the caffeine we've consumed, but for some people, it can take longer than 12 hours, Cornelis says.

Caffeine is a unique drug because it's so readily available

This difference is largely because of the genetic



"Those who metabolise coffee quickly may need to consume more to get the health benefits, because it's gone so quickly," Cornelis says. Our genetic differences may also affect the extent to which habitual coffee consumption can promote health benefits. "Some people may develop high blood pressure from drinking caffeinated drinks, some don't," says Ruani. "Some benefit from the heart protective benefits of caffeine, and some may not." And this may contribute to some of the contradictory findings associated with coffee's health benefits, she says.

How should you consume caffeine?

Caffeine is a unique drug because it's so readily available. But this makes it all the more important albeit, perhaps, more difficult - to consume in moderation. If you're struggling to relax and feeling edgy, you may have hit your caffeine limit, says Bailey. But the real telltale sign, he says, is struggling to sleep at night. "Always refuse coffee at the end of an evening meal, and ask for decaf instead," he says. "Sleep is so important for the brain.



The consensus seems to be that drinking between 200 and 300mg of coffee per day is better than not drinking it at all


Who owns the Moon? A new space race means it could be up for grabs

By Rebecca Morelle, BBC Science Edit



We're in the midst of a Moon rush.

A growing number of countries and companies have the lunar surface in their sights in a race for resources and space dominance. So are we ready for this new era of lunar exploration?

This week, images were beamed back to Earth of China's flag unfurled on the Moon. It's the country's fourth landing there and the first ever mission to return samples from the Moon's far side. In the past 12 months. India and Japan have also set down spacecraft on the lunar surface. In February, US firm Intuitive Machines became the first private company to put a lander on the Moon, and there are plenty more set to follow. Meanwhile, Nasa wants to send humans back to the Moon, with its Artemis astronauts aiming for a 2026 landing. China says it will send humans to the Moon by 2030. And instead of fleeting visits, the plan is to build permanent bases. But in an age of renewed new space race could lead to tensions on Earth being exported to the lunar surface. "Our relationship with the Moon is going to fundamentally change very soon," warns Justin Holcomb. a geologist from the University of Kansas. The rapidity of space exploration is now "outpacing our laws", he savs.

A UN agreement from 1967 says no nation can own the Moon. Instead, the fantastically named Outer Space Treaty says it belongs to everyone, and that any exploration has to be carried out for the benefit of all humankind and in the interests of all nations. While it sounds very peaceful and collaborative - and it is the driving force behind the Outer Space Treaty wasn't cooperation, but the politics of the Cold War. As tensions grew between the US and Soviet Union after World War Two, the fear was that space could become a military battleground, so the key part of the treaty was that no nuclear weapons could be sent into space. More than 100 nations signed up.

But this new space age

looks different to the one back then.

One major change is that modern-day Moon missions are not just the projects of nations - companies are competing, too. In January, a US commercial mission called Peregrine announced it was taking human ashes, DNA samples and a sports drink, complete with branding, to the Moon. A fuel leak meant it never made it there, but it sparked debate about how delivering this eclectic inventory fitted in with the treaty's principle that exploration should benefit all humanity. "We're starting to just send stuff up there just because we can. There's no sort of rhyme or reason anymore," says Michelle Hanlon, a space lawyer and founder of For All Moonkind, an organisation that seeks to protect the Apollo landing sites. "Our Moon is within reach and now we're starting to abuse it," she says.

But even if lunar private enterprise is on the increase, nation states still ultimately remain the key players in all this, Sa'id Mosteshar, director of the London Institute of Space Policy and Law, says any

company needs to be authorised to go into space by a state, which will be limited by the international treaties. There's still a great deal of prestige to be had by joining the elite club of Moon landers. After their successful missions, India and Japan could very much claim to be global space players. And a nation with a successful space industry can bring a big boost to the economy through jobs, innovation. But the Moon race offers

an even bigger prize: its resources. While the lunar terrain looks rather barren, it contains minerals, including rare earths, metals like iron and titanium - and helium too, which is used in everything from superconductors to medical equipment. Estimates for the value of all this vary wildly, from billions to quadrillions. So it's easy to see why some see the Moon as a place to make lots of money. However, it's also important to note that this would be a very long-term investment - and the tech needed to extract and return these lunar resources is a some way off. In 1979, an international treaty declared that no state or organisation could claim to own the resources there. But it wasn't popular - only 17 countries are party to it, and this does not include any countries who've been to the Moon, including the US. In fact, the US passed a

law in 2015 allowing its citizens and industries to extract, use and sell any space material. "This caused tremendous consternation amongst the international community," Michelle Hanlon told me. "But slowly, others followed suit with similar national laws." These included Luxembourg, the UAE, Japan and India, The resource that could be most in demand is a surprising one: water. "When the first Moon rocks brought back by the Apollo Astronauts were analysed, they were thought to be completely dry," ex-





An image released by Chinese state media showed a lunar probe carrying the nation's flag

plains Sara Russell, professor of planetary sciences at the Natural History Museum. "But then a kind of revolution happened about 10 years ago, and we found out that they've got little traces of water in them trapped in phosphate crystals.'

And at the Moon's poles, she says, there's even more - reserves of water ice are frozen inside permanently shadowed craters. Future visitors could use the water for drinking, it could be used to generate oxygen and astronauts could even use it to make rocket fuel, by splitting it into hydrogen and oxygen, allowing them to travel from the Moon to Mars and beyond. The US is now attempting to establish a new set of guiding principles around lunar exploration and lunar exploitation. The so-called Artemis Accords state that extracting and using resources on the Moon should be done in a way complies with the Treaty for Outer Space, although it says some new rules might be needed.

More than 40 countries have so far signed up to these non-binding agreements, but China is notably absent from the list. And some argue that new rules for lunar exploration shouldn't be led by an individual nation. "This really ought to be done through the United Nations because it affects all countries," Sa'id Mosteshar tells me. But access to resources could also cause another clash.

While there's plenty of room on the Moon, areas close to ice-filled craters are



But specific decisions about a new lunar base, for example whether it covers a few square kilometres or a few hundred, may come down to whoever gets there first. "There will definitely be a first-mover advantage," Jill Stuart says. "So if you can get there first and set up camp, then you can work out the size of your zone of exclusion. It doesn't mean you own that land, but you can sit on that space." Right now, the first settlers are most likely to be either the US or China, bringing a new layer of rivalry to an already tense relationship. And they are likely to set the standard - the rules established by whoever gets there first may end up being the rules that stick over time.

If this all sounds a bit ad hoc, some of the space experts I've spoken to think we're unlikely to see another major international space treaty. The dos and don'ts of lunar exploration are more likely to be figured out with memorandums of understanding or new codes of conduct. There's a lot at stake. The Moon is our constant companion, as we watch it wax and wane through its various phases as it glows bright in the sky.

But as this new space race gets under way, we need to start thinking about what sort of place we want it to be - and whether it risks becoming a setting where very Earthly rivalries are played out.

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€700.000 Clear Blue Skies Group SL is delighted to offer for sale these wonderful front line business premises, in the desirable coastal town of Palm-Mar in the south of Tenerife. Palm-Mar is a popular town in a bay adjacent to Los Cristianos, but separated by not only by rock but also by culture Compared to the more robust neighbouring resorts of Los Cristianos... For full information see website or contact: Ref: 8302 | Clear Blue Skies

SL | 922 714 772 San Eugenio Bajo, Commercial Property

€625.000

FRINA Tenerife offers a commercial Investment property for sale in Tenerife in San Eugenio. Today the property is rented out to a popular restaurant which owners pay a monthly rent of 5,000€. The premises was built in 1985 and . measures 76m2 inside and with a terrace of 40m2. For more details on this investment do not hesitate to contact FRINA Ten... For full information see website or contact: Ref: 2491 | FRINA Tenerife SL -Business Sales | 922 085 191

Los Cristianos, Empty Local

€500,000 FRINA Tenerife now offers This rare chance to buy a truly prime location investment freehold This investment freehold is on a busy street in the El Camison area of Los Cristianos. The freehold is rented out with good tenants as a restaurant and is truly a prime location. The premises, which were completely refurbished in 2010, measure 79 m2 and are s... For full information see website or contact: Ref: 2530 | FRINA Tenerife SL -Business Sales | 922 085 191

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€495,000 **6 bed** · A reluctant sale due to the current owners retirement and 'down-sizing'. An extensive (150m2) fully fitted and equipped freehold restaurant with professional stainless steel kitchen with extraction, stage area, bar and toilets. Situated on the lower level of a spacious townhouse which offers flexible living accommodation with potential for a number of pro.. For full information see website or

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El Medano, Commercial Property €475.000 Clear Blue Skies Group SL is very pleased to offer for sale this spacious commercial premises situated in an incredible central

location in the vibrant town of El Médano. El Médano is located a few kilometres north of the Tenerife South airport and is recognised as Tenerife\'s water sports epicentre, as it is the perfect spot for kite boarding and surfin... For full information see website or contact: Ref: 8379 | Clear Blue Skies SL | 922 714 772

Playa de la Arena, Empty Local

€395,000 FRINA Tenerife is now offering this. Empty freehold local, on the first line in Plava La Arena. The local is empty but has been used as a bar. So, it has disabled toilets, men, and women's toilets. The local needs a full refurb before its ready to open This local would be perfect if you are looking to build your own bar & café, or a restaurant, The pro... For full information see website or

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Los Cristianos, Pizzeria €380.000

FRINA Tenerife brings to the market this Italian Restaurant Pizzeria in Los Cristianos. It is a well known business located in El Camison a central area close to the beach full of both residents and tourists. The Restaurant Pizzeria has an high and demonstrable monthly turnover, it has a very rich menu with traditional italian dishes and a good choice o... For full information see website or contact:

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Puerto Colon, Sports Bar

€350.000 FRINA Tenerife offers for sale this Freehold Sports Bar in Puerto Colon. It is in a famous commercial centre visited by a lot of tourists and many locals. It's live Entertainment and great atmosphere attract people of different nationalities and ages to come and enjoy a fun night of Karaoke, live music, Sports and tasty food. This place always has some .. For full information see website or contact:

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€349,999 - €250,000

Golf del Sur, Investment Property €329.175

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San Eugenio Bajo, Bar/Cafe

€325,000 FRINA Tenerife is happy to offer a Modern and Stunning Cafeteria-Bar for Sale in San Eugenio Bajo. If you are looking for picture-perfect premises in a busy location, you cannot miss this stunning opportunity! The premises are 150m2 with an open kitchen and a terrace of 30m2. Altogether are tables for 90 guests. The premises were fully renovated in 20... For full information see website or contact: Ref: 2489 | FRINA Tenerife SL -Business Sales | 922 085 191

Los Cristianos, Freehold Pub

€320,000 FRINA Tenerife is happy to offer this long-established and very popular Freehold Pub for Sale in Los Cristianos. This business had the same owner for many years and is known for its lovely atmosphere and food, so no doubt you will have guests from day 1. Note the owners wish to keep the sale very discreet, hence we can only provide limited details here... For full information see website or contact. Ref: 2422 | FRINA Tenerife SL -

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Los Olivos, Empty Local €280,000

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Playa San Juan, Restaurant

€250.000 This modern Restaurant for Sale in Playa San Juan is located centrally on the main street. It is known for its international menu offering brunch, burgers, and Spanish specialties. This business has fast become one of the most visited restaurants in the area and the guests just keep coming back to enjoy the menu, lovely style, and amazing atmosphere. ... For full information see website or contact. Ref: 2504 | FRINA Tenerife SL

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San Eugenio Bajo, Bar/Cafe €250.000

FRINA Tenerife offers this famous Tenerife café for sale. The café is in San Eugenio and is known for its international menu and live music It has been open for years and has a good reputation among residents tourists, and on social media. And whether you are looking for an investment or a well-established business to run yourself, you cannot miss th... For full information see website or contact: Ref: 2505 | FRINA Tenerife SL -

Business Sales | 922 085 191 Puerto Colon, Excursion

Business €250,000

FRINA Tenerife is excited to offer this Unique Diving Business for Sale in Puerto Colon. If you dream about a great water sport business on the island of external spring, you cannot miss this! It has been established for many years and has no direct competition. The diving experience is offered on underwate scooters making it possible for everyone to par... For full information see website or contact: Ref: 2409 | FRINA Tenerife SL -Business Sales | 922 085 191

Las Americas, Restaurant

€250 000 FRINA Tenerife offers for sale this Large Front-Line Restaurant in Las Americas facing the beach promenade which is always busy and offers a lovely view. Moreover, the restaurant is located on a corner, so you have even more people passing and a large terrace! If you are looking for that amazing location to open a large restaurant or lounge bar you... For full information see website or contact:

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€249.999 - €150.000

Costa del Silencio, Bar/Cafe €230.000

FRINA Tenerife is now offering this Belgian Bar/cafe for sale Located the Tenbel commercial centre Tenbel is a well-known centre and attracts both tourists and residents. This bar is well-known with the Belgian residents on the island. also, this bar offers a wide range of Belgian beers. The premises are 100m2 of interior space with a 15m2 kitc... For full information see website or contact:

Ref: 2538 | FRINA Tenerife SL -Business Sales | 922 085 191 Golf del Sur. Commercial

Property €220,000

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Los Gigantes, Freehold Property

€219,000 Clear Blue Skies Group SL are delighted to offer this freehold business premises to the open market, located in Los Gigantes on Los Gigantes is the biggest resort town on the west coast of Tenerife, 8344 | Clear Blue Skies

FRINA Tenerife this Busy Cocktail cocktail bars in the area and has excellent reviews on TripAdvisor, Facebook and other social media. It has been established for years and you will take over a denuinely successful business. Moreover, the owner only works limited hours hence, this is a g... For full information see website or contact: Ref: 2567 | FRINA Tenerife SL Business Sales | 922 085 191

La Caleta, Italian Restaurant

€190,000 A new business for sale is this Italian Food & Wine Restaurant in La Caleta. The business is known for a delicious Italian menu with pizzas, fresh shellfish, homemade desserts, and quality wines. This cozy restaurant is a must-see if you are looking for a wine-bar and restaurant with an ambitious menu. The premises are spacious 150 m2 with a large a ... For full information see website or contact:

Ref: 2403 | FRINA Tenerife SL -Business Sales | 922 085 191

Los Cristianos, Bar/Restaurant €190,000

FRINA Tenerife now offers this Famous and Successful Asian Restaurant for Sale. This restaurant is located centrally in Los Cristianos and is very busy. An amazing reputation secures many gusts every day and evening both new and returning. If you are looking for a successful business with a good and steady income you cannot miss this! The premises ... For full information see website or contact: Ref: 2542 | FRINA Tenerife SL -Business Sales | 922 085 191

San Eugenio Alto, Pool Bar

€175.000 FRINA Tenerife presents this new Freehold opportunity Poolbar in San Eugenio Alto. A perfect located Freehold Poolbar inside a complex which is approximately a twenty minutes driving from Reina Sofia airport in the south. Almost opposite the resort there is Aqualand, a water park more suited to younge family members. The Freehold Poolbar is nearby att... For full information see website or contact: Ref: 2603 | FRINA Tenerife SL -Business Sales | 922 085 191

Los Cristianos, Bar/Cafe €170.000

FRINA Tenerife now offers this Sea View Bar for sale in Los Cristianos. it is a unique and perfect option for the demanding buyer! You find this Sea View Bar in San Telmo which is busy all year and both days and nights. The current owner has designed the Sea View Bar and decorated it to perfection Furthermore, the bar overlooks the large a busy Playa ... For full information see website or contact: Ref: 2584 | FRINA Tenerife SL -Business Sales | 922 085 191

Los Cristianos, Bar/Cafe €169.000

FRINA Tenerife now offers this Well-Known British bar Los Cristianos. It Is known for its highguality food and entertainment. The bar is located in a busy area that

attracts many tourists and residents This bar has been for almost 10 years and has a great reputation and a high income. So if you are looking for a bar in Los Cristianos you can't miss this... For full information see website or contact: Ref: 2550 | FRINA Tenerife SL -Business Sales | 922 085 191

45

Las Americas, Bar/Cafe

€150.000 FRINA Tenerife now offers this Famous traspaso café in Las Americas. And, it is a wonderful opportunity, to buy one of the most reputable British cafes in Playa Las Americas. The owner opened this bar over 10 years ago. And has grown to be one of the most recognized and popular cafes in the area. It has a great reputation for quality food, delicious cakes ... For full information see website or contact.

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San Eugenio Alto, Pool Bar €150.000

FRINA Tenerife presents this rare opportunity to buy a Freehold Pool Bar for Sale. This pool bar is in a busy complex in Torviscas. It is an apart-hotel complex where you will have both residents, expats, and tourists as guests. A pool bar is always a sure success and whether you wish to work less and only sell drinks and ice cream during the day or al... For full information see website or contact: Ref: 2555 | FRINA Tenerife SL -

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€150 000 FRINA Tenerife offers for sale this Entertainment Pub & Restaurant for Sale located on the first line in Fanabe. It is known to be one of the busiest entertainment pubs in the area offering live music every day. And in the evenings, you must book to be sure to get a table. Moreover, the place offers a full British menu. Nevertheless, you find both British... For full information see website or contact:

Ref: 2503 | FRINA Tenerife SL -Business Sales | 922 085 191

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€149,000 FRINA Tenerife now has the pleasure to offer this beautiful charter boat for sale in Puerto's colon. Puerto Colon is one of the busiest tourist harbours on the island and which contributes to this boat's popularity. This sunseeker includes boat an attached



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Los Cristianos, Bar/Cafe

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€140,000 FRINA Tenerife offers this Freehold Office for Sale in Puerto Colon Commercial Center. A very central and busy location that enjoys lots of footfall year-round thanks to the many excursions business and bars in the area. Also, you are close to parking. The office is bright and spacious 92 m2. It was refurbished in 2019 with new electrical installations... For full information see website or contact:

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Los Cristianos, Pizzeria €140.000

Now FRINA Tenerife offers this Business for Sale in Los Cristianos. The business is known for great pizzas and being located on a very busy street close to the beach and with a lot of footfall. Normally this is a very busy pizzeria that generates a high turnover year-round. Contact FRINA Tenerife for more details on this. The premises offer a large ... For full information see website or contact:

contact: Ref: 2417 | FRINA Tenerife SL -Business Sales | 922 085 191

Torviscas Bajo, Irish Bar €139,000 FRINA Tenerife is happy to put on the market a Busy Irish Bar for Sale Traspaso. This lovely bar is in Torviscas Bajo where it is visited by tourists of all nationalities. Irish bars are always popular and so is this, securing the owner and high monthly income. Moreover, this place has a great reputation, and you will earn money from day 1! If you are ... For full information see website or contact:

Ref: 2518 | FRINA Tenerife SL -Business Sales | 922 085 191 Las Americas, Bar/Cafe

€132.000

FRINA Tenerife now offers this Long-Established Bar in Las Americas in the famous Avenida Las Americas. It is a rare chance to buy in a truly prime location in this area full of big hotels and tourists. The Bar in Las Americas has a great resident and tourist client base thanks to 22 years of activity with the same owner, it serves mostly drinks and so... For full information see website or contact:

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Las Americas, Bar/Restaurant €120,000

FRINA Tenerife is happy to offer this popular and successful Las Americas restaurant for sale. This business has been established for more than 8 years and is known to serve great food for a fair price. The menu is a wide range of everpopular meals for the whole family like pasta, steaks, roast chicken, pizzas, and more. And moreover, the restaurant h... For full information see website or contact: Ref: 2387 | FRINA Tenerife SL -Business Sales | 922 085 191

Puerto de Santiago, Pizzeria

€109,000 FRINA Tenerife brings to the Market this Pizzeria – Seafood Restaurant in Puerto Santiago, located in the touristic area of Santiago del Teide and with a stunning view on the Ocean. The two locals have the same owner and the same employees, they work mostly with Tourists, but it is also very wellknown between the residents of the town. The Rent of the... For full information see website or contact: Ref: 2609 | FRINA Tenerife SL -Business Sales | 922 085 191

Puerto Colon, Restaurant

€106,000 FRINA Tenerife presents this Modern Restaurant in Puerto Colon for Sale in San Eugenio Bajo located on a busy street and overlooking the sea. This Modern Restaurant is fully renovated and has a unique decor, it faces stunning sunsets and enjoy an excellent flow of people, both tourists and locals. Premises of the Restaurant for Sale The premises... For full information see website or contact: Ref: 2593 | FRINA Tenerife SL -

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Tenerife South, Retail Business €100.000

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€99,999 - €50,000

Fanabe, Bar/Cafe

€99,500 This well-known British Café for Sale in Fañabe is one of the best known in the area and has been established for many years. It is known for classic English breakfasts, cakes, Sunday Roasts, and much more. Furthermore, the café has great reviews among residents, tourists, and on social media, and no doubt you will guests from day one with this busines... For full information see website or contact: Ref: 2397 | FRINA Tenerife SL -Business Sales | 922 085 191

Las Galletas, Ice Cream Bar

€89,000 FRINA Tenerife is happy to offer this amazing Crepe & Ice Cream Café for Sale in Las Galletas. The café is located centrally in the city and facing a busy area that enjoys plenty of footfall and attracts many residents and especially families. The café is known for ice cream, crepes, good coffee, and shakes. The premises are in good condition and you d... For full information see website or contact: Ref: 2438 | FRINA Tenerife SL -Business Sales | 922 085 191

Tenerife South, Pest control business €89.000

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Business Sales | 922 085 191 El Madronal, Babywear Shop

€86,500

FRINA Tenerife brings to the market this Baby SPA Wellness in Costa Adeje, a one-of-a-kind business in the island. The Baby SPA has a very good reputation thanks to the beautiful online reviews. It comes with all furniture included. The Baby SPA Wellness has a full SPA licence and you are allowed to offer therapeutic massages too. It is in El Madroñal ... For full information see website or contact:

Ref: 2581 | FRINA Tenerife SL -Business Sales | 922 085 191

Torviscas Bajo, Pool Bar €85.000

FRINA Tenerife just took on this large pool bar in Torviscas Bajo. It is very well established and placed in a large and popular holiday resort that has hundreds of tourists every month year round. The pool bar has a large terrace overlooking the pool and with tables for 50 guests. The inside premises are fully equipped with a large bar and an industri... For full information see website or contact: **Ref: 2385 | FRINA Tenerife SL** -

Business Sales | 922 085 191 Torviscas Alto, Empty Local

€85,000 Large local of 128m2 for sale in Puerto Colon. Ref: VS3416D | Vym Canarias | 922 787 210

Vilaflor, Bar/Restaurant €80.000

FRINA Tenerife is happy to offer this beautiful Restaurant for Sale placed in the caves of a large finca in Tenerife. Today the place is known for its beautiful location and surroundings with wines and fruits trees and offers a modern Canarian menu made from local and homegrown products. This is a successful business with an amazing reputation but ther... For full information see website or contact: **Ref: 2549 | FRINA Tenerife SL - Business Sales | 922 085 191**

Costa del Silencio, Restaurant €79 000

FRINA Tenerife offers for sale in Costa del Silencio this restaurant that is known for delicious fish and tapas. It has been established for almost 2 years and has earned itself a good reputation and has very high reviews on Google, TripAdvisor, and Facebook. The premises are spacious 300m2 and moreover, have a terrace of 40 m2. Inside are tables for 1... For full information see website or contact: **Ref: 2515 | FRINA Tenerife SL -Business Sales | 922 085 191**

Las Americas, Beauty Salon €76.000

FRINA Tenerife offers Traspaso Nail and Beauty Salon for Sale. It has a prime position in Las Americas facing the busy promenade and offering a stunning sea view. The business offers a variety of treatments among others manicure, pedicure, waxing, massages, tinting of lashes and eyebrows, facials and more. The premises are amazing and refurbished to hi... For full information see website or contact.

or contact: Ref: 2564 | FRINA Tenerife SL -Business Sales | 922 085 191

Puerto Colon, Excursion Business €75.000

This Boat Hire Excursion for Sale offers zodiac boats to hire and go for private trips. The brilliant thing about zodiacs is you do not need a license to sail it so both residents and tourists come to rent and enjoy a private trip on the sea. This is an easy excursion business to run for one person since you only need to meet clients for the instructio... For full information see website or contact: **Ref: 2426 | FRINA Tenerife SL** -

Business Sales | 922 085 191

Torviscas Alto, Bar/Cafe

€65,000 Now we offer this Reputable Bar for Sale in Torviscas Alto. If you are looking for a well-established business with many loyal customers, you should have a look at this café that is a popular place to meet friends for a drink. The current owner had the business for 3 years and only look to sell since he also has other businesses. The premises of the... For full information see website or contact: Ref: 2444 | FRINA Tenerife SL -Business Sales | 922 085 191

Torviscas Bajo, Bar/Cafe

€65,000 FRINA Tenerife offers this Bar-Restaurant for sale in San Eugenio Bajo. It is a well-known business and enjoys many regulars and new guests due to its location in a large complex that enjoys residents and tourists year-round. The business is known for its great price/quality and live entertainment several nights a week. The premises are well-maintai... For full information see website or contact: **Ref:** 2463 | FRINA Tenerife SL -**Business Sales** | 922 085 191

Golf del Sur, Bar/Cafe

€65,000 Fantastic opportunity to purchase a bar located in a popular commercial centre. The bar has been fully refurbished, had new bathrooms installed, fully rewired, new airconditioning, and new glass washer. Included are 10 televisions which can show 3 different matches, and 2 WiFi routers (one for the TVs, one for customers).

Ref: B-122 | Tenerife Prime Property | 922 703 725 Adeie Town, Pizzeria

€60.000

FRINA Tenerife is now offering this well know pizza restaurant traspaso in Adeje. The restaurant is centrally located, in the centre of the old Adeje town. Where it is in a residential complex. This is a restaurant that is popular among the residents and families in the area. The premises are a spacious 92 m2 restaurant that has a large, covered terrac... For full information see website or contact: **Ref:** 2525 | FRINA Tenerife SL -

Business Sales | 922 085 191 Adeje Town, Pizzeria

€55.000

Now FRINA Tenerife offers this Adeje Pizzeria for Sale that has been established for several years and is known for delicious pizzas. If you wish to keep running this business as a pizzeria, this location is perfect to establish yourself as a takeaway and delivery business for all the surrounding complexes. This is the area for you that gives loyal cus... For full information see website or contact: **Ref: 2416 | FRINA Tenerife SL -Business Sales | 922 085 191**

Los Cristianos, Minimarket €51.000

FRINA Tenerife offers this unique opportunity to buy a Traspaso Minimarket and Fast Food Shop in Los Cristianos. This business sales both fast food like kebab, fries and burgers. Moreover, is the store installed with shelves and fridges to sell everyday goods like alcohol, chips, sweets, ice cream, sun cream etc. The premises are 60 m2 inside and has a... For full information see website or contact:

Ref: 2431 | FRINA Tenerife SL -Business Sales | 922 085 191

UNDER €50,000

Los Cristianos, Bar/Cafe

€49,500 FRINA Tenerife now offers this amazing French Café in Los Cristianos. 2 Years ago the owners refurbished this Cafe. Where they also installed a wine boutique. This café serves French healthy food and it does tapas and wine tasting. And has done so for more than 8 years, and has a good reputation. furthermore, with the addition of the boutique, the new own... For full information see website or contact:

Ref: 2539 | FRINA Tenerife SL -Business Sales | 922 085 191

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