

ADVANTAGE

Live Unconventionally

EMBRAER QUARTERLY VOL 18 ➔ 2022

Peaks To Fjords

Experience the best of Norway's Sunnmøre Alps region

Above And Beyond In 2022

Embraer's key milestones as an aviation industry leader

Diving Deep

Stockton Rush on subsea exploration and scientific research





PRAETOR 600
BY EMBRAER

DIFFERENT BY DESIGN.
DISRUPTIVE BY CHOICE.



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COVER

Located on the northwest coast, Norway's Sunnmøre Alps region reveals a natural playground of fjords and mountainscapes that guests can explore with 62°NORD's signature itineraries. A family owned Norwegian travel company 62°NORD offers transformative travel adventures for the conscious traveler. Photo by © Havard Myklebust



Explore the very best that Norway has to offer with 62°NORD. Read more on pages 16-21.

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Dear Friends,

Another year has come and gone—and what an amazing year it was! It saw Embraer’s strong momentum continue, with robust new sales and a solid market rebound across its product segments. This momentum, combined with our passion for global travel, desire to connect, and drive to evolve the private air travel experience, makes it an exciting time for our industry and an even more exciting time to fly onboard Embraer’s industry-leading aircraft.

Even with this success, we recognize there’s still the opportunity to improve. Global supply chain challenges in raw materials, parts and labor have led to some delays, whether for deliveries or after-market services, and we want to sincerely thank you for your patience. I assure you that we are committed to resolving, recovering and responding to these industry-wide concerns.

As we look ahead, we’re excited to see new paradigms driving our industry forward, which empower our teams to push the boundaries of what is possible to continue to deliver the ultimate experience in business aviation to you, our valued customers. We are focused on making your travels safer, greener and more efficient by continuously improving our products’ disruptive technology, unmatched performance and superior comfort, bolstered by our top-ranked, customer-centric support services.

The issue of sustainability took front and center this year, demanding our continued innovation, from how we produce and operate our aircraft to how they fly. We continue to advance our sustainable efforts, including the advancement of Sustainable Aviation Fuel (SAF), research into low and zero-emission propulsion, programs to incentivize customers’ adoption of sustainable flight, and more. Together, persistent action will result in a bright future for our industry and our environment.

At this year’s NBAA-BACE in Orlando, Florida, Embraer presented our vision for the future of private air travel through an inspiring concept that proposes a fully autonomous, three-cabin-zone medium cabin jet that would operate on 100% sustainable propulsion. This bold concept delivers a solution that benefits not only our environment but our customers, too. Read more about this innovative conceptual project on page 54. And speaking of events, it was wonderful to be able to reconnect with you this year at in-person industry and bespoke customer events. Be sure to check out our full engagement recap on page 64, featuring this year’s EBACE, LABACE and NBAA-BACE.

During this time of year, it’s important to reflect on the people that support, empower and inspire Embraer. Whether you have been a part of Embraer’s journey for years or are new to us this year, I would like to personally thank you for your commitment to and support of our brand. To our employees, I want to recognize each individual’s contributions. Your tireless efforts, dedication, and passion for making a difference enable us to keep aiming higher and achieve more. Thank You!

With sincere gratitude and warm wishes for the holidays, cheers to a healthy and prosperous 2023!

Blue Skies (and Calm Tailwinds) Ahead!

Michael Amalfitano
President & CEO, Embraer Executive Jets

PRAETOR 500

BY EMBRAER

LARGER JET TECHNOLOGY SMALLER CARBON FOOTPRINT

*The only midsize with full fly-by-wire
and Active Turbulence Reduction*



IN CASE YOU MISSED IT

The latest Embraer news from around the globe to keep you soaring to new heights

EMBRAER COLLABORATES WITH SENNA BRANDS TO DESIGN THE SENNA COCKPIT



To learn more about The Senna Cockpit, scan here.

Inspired by the enduring spirit of the late Ayrton Senna da Silva, the iconic Brazilian Formula One driver, Embraer has partnered with Senna Brands to design The Senna Cockpit—a modern office chair that incorporates interior elements previously found exclusively onboard Embraer executive jets. This gravity-defying office chair embodies a sleek design and sophisticated structure.

Jay Beaver, Vice President Design Operations at Embraer, shared: “Superior craftsmanship is apparent in every detail of the Senna Cockpit, combining the highest-quality materials,

exceptional ergonomics, and sustainable design solutions. As in a business jet, the seat tracks and swivels without physically having to move the chair and the seat base glides effortlessly up and down the spine for optimum comfort.”

This special 22-limited-edition office chair embodies Ayrton’s passion for the pursuit of excellence. Ayrton once said: “And so you touch this limit, something happens, and you suddenly can go a little bit further. With your mind power, your determination, your instinct, and the experience as well, you can fly very high.”

With craftsmanship in every detail, The Senna Cockpit was designed to transcend aviation and inspire a vast array of industries, born from Embraer’s disruptive school of thought, called “Paradigma.” In 2019, in celebration of Embraer’s 50th anniversary, the company unveiled the first example of Paradigma: the PULSE concept, an aircraft concept that imagines private air travel in the year 2069. A combination vertical takeoff and landing aircraft and autonomous terrestrial vehicle, the PULSE concept also features an interior seat concept that inspired Embraer’s design team to bring to life the Paradigma Chair—and now, The Senna Cockpit.

Proceeds from The Senna Cockpit will be donated to the Senna Foundation and the Embraer Foundation, a non-profit organization created by Embraer in 2017 to consolidate and expand the company’s Corporate Social Responsibility initiatives in the United States.



Q3 RESULTS SHOW STRONG MOMENTUM FOR EMBRAER

Embraer released financial results for Q3 2022, demonstrating a solid market rebound and strong momentum for Embraer's executive jets. The company's third quarter saw an increase in revenue to USD 271.7 million, up by 6% year over year, as well as 23 deliveries consisting of 15 light jets and eight mid and super-midsize jets. Deliveries were higher than in Q3 2021,

and the sales pace continued strong, as the second-best third quarter in the last 10 years.

It's been an exciting year for Embraer, and the team looks forward to delivering more value to its customers into 2023 as the private air travel experience continues to evolve.

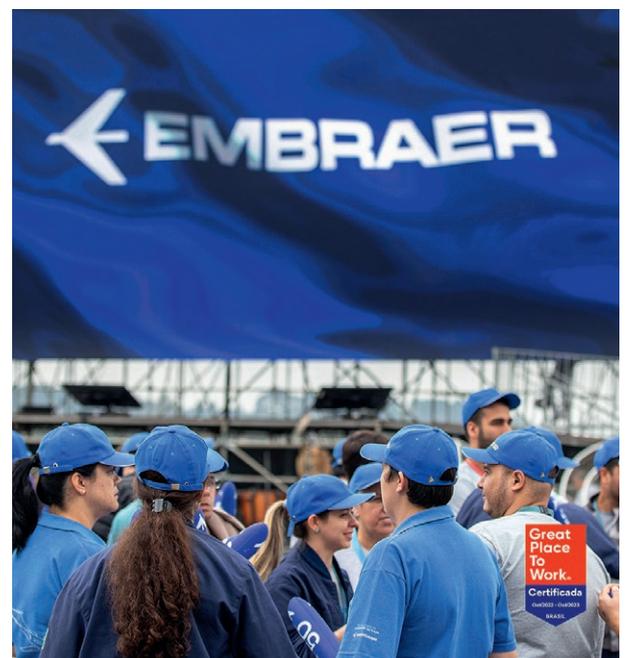
EMBRAER IS ONE OF THE BEST COMPANIES TO WORK FOR, ACCORDING TO GPTW

Embraer was recognized as one of the best companies to work for in an assessment carried out by Great Place to Work®, a global consultancy that supports organizations to obtain the best results through a culture of trust, high performance and innovation.

One of the highlights of the survey was Embraer's contribution to society. As a leader in a sector considered strategic due to its high technology development, Embraer brings together talents with a high capacity to generate innovations with positive impacts on the country's economy.

"This certification is a relevant achievement and illustrates our purpose of contributing to a more inclusive and diverse society through long-term investment in training people, generating career opportunities and developing high-performance talents," said Carlos Alberto Griner, Vice President of People, ESG and Communications at Embraer.

The published GPTW index places Embraer among the best companies to work for, especially in Brazil, China, the United States, and Singapore.

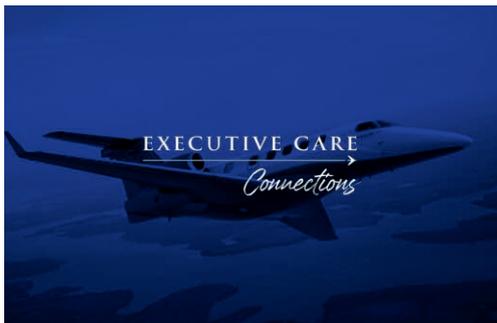


ABOVE AND BEYOND IN 2022

We take this opportunity to look back on 2022 and recap Embraer's key milestones as an aviation industry leader

JANUARY

- Services & Support launched Executive Care Connections, designed to keep Embraer customers informed and updated on the latest information on aircraft parts, services and more.



FEBRUARY

- The Phenom 300 series tops a decade of product excellence with its 10th consecutive year as the best-selling light jet.



MAY

- After a two-year hiatus, Embraer returns to EBACE in Geneva, Switzerland.



- Embraer and 4AIR partner to offer complimentary carbon offsetting to new Embraer business jets customers who enroll in the company's Embraer Executive Care program.
- Eve Air Mobility ("Eve"), the new independent company founded by Embraer, begins trading on the NYSE. Eve (NYSE: EVEX; EVEXW) is dedicated to accelerating the Urban Air Mobility (UAM) ecosystem.



JUNE

- Embraer inaugurates Sorocaba Services Center expansion, doubling its useful area from five to 10 acres.



JULY

- Embraer and Raízen signed a Letter of Intent with a commitment to stimulating the Sustainable Aviation Fuel (SAF) production ecosystem, reinforcing the sustainability commitments of both companies.



OCTOBER

- Embraer attends NBAA-BACE in Orlando, Florida.

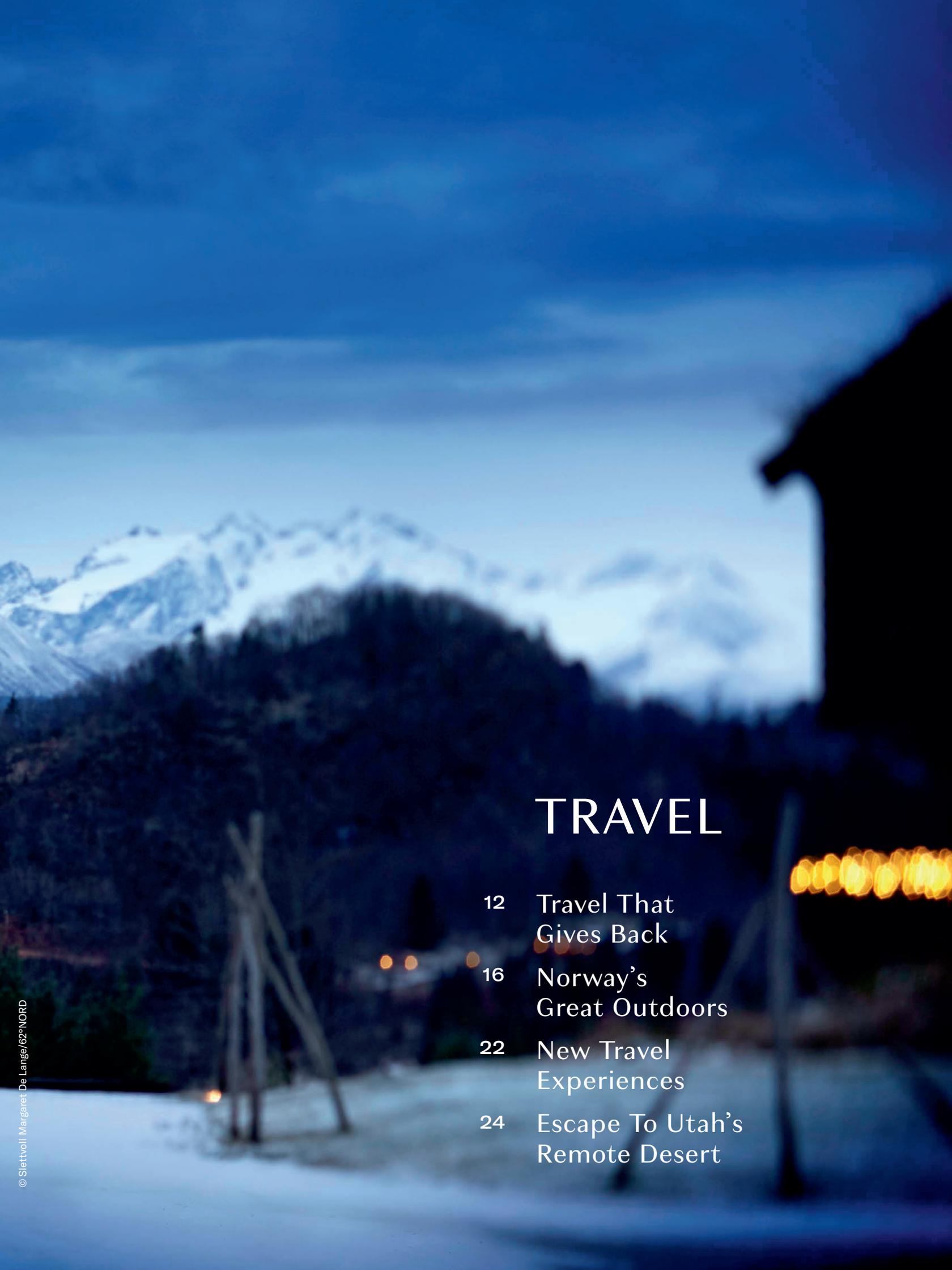


- Embraer and FlightSafety International announce a new full-flight simulator for Praetor Jets in Orlando, Florida. Read more on page 42.





Storjford Hotel is a secluded luxury boutique hideaway situated in Glomset on a hillside overlooking the Storjford and the Sunnmøre Alps. Read more on pages 16-21.



TRAVEL

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TRAVEL FOR HUMANITY

Driven by a love of nature, animals and culture, travelers are seeking new ways to derive enjoyment, satisfaction and meaning from their travel experiences

Travel that gives back is not new. For the last 60 years, organizations like the Peace Corps have helped adventurous souls focus their desire to help in meaningful ways worldwide. Since then, many travel companies have incorporated various forms of volunteerism into their offerings and itineraries.

These experiences have evolved into travel philanthropy; instead of focusing on charity or service, travelers are provided access to unique and culturally immersive experiences.

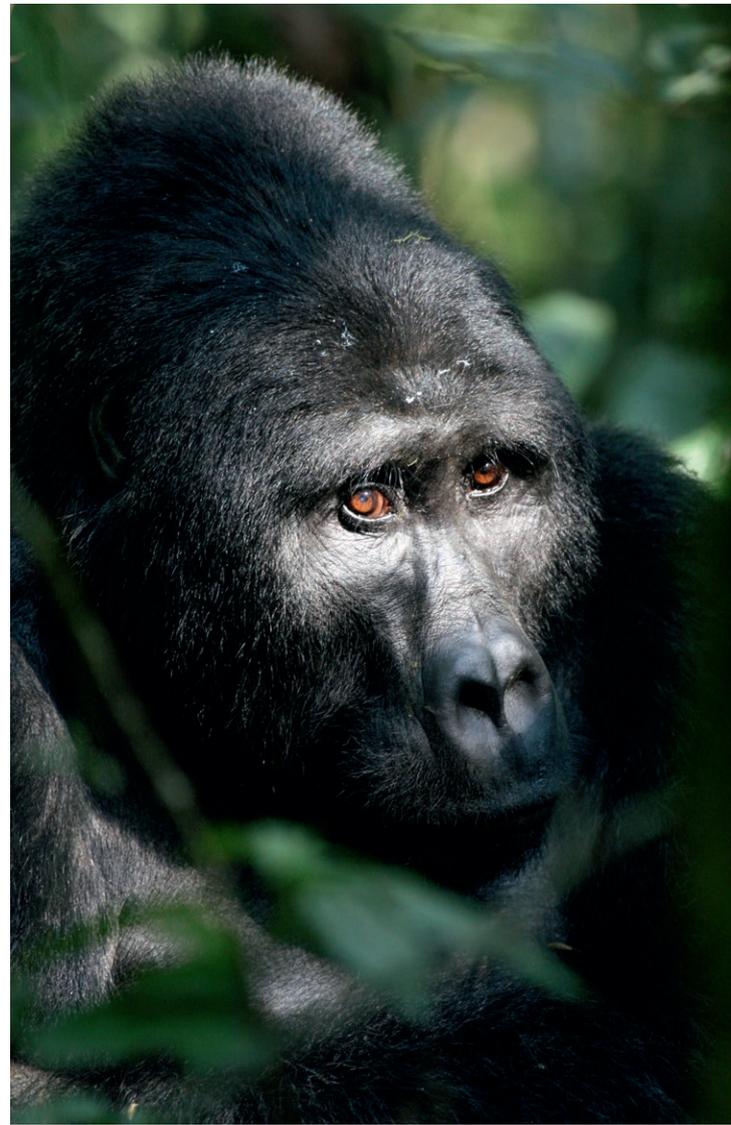
Philanthropic travel allows travelers to engage with, learn from and be a partner with people and programs committed to positive change in their communities. More intimate than planting a tree or sending a donation, these journeys can bring positive transformation to both the traveler and the destination.

With this travel evolution, we now know that despite the best intentions, we can actually do a great deal of harm when we inject money and influence into a delicate ecosystem that involves regional complexities we couldn't understand looking from the outside in. At large, the biggest challenge is to ensure funding has a clear impact and goes where it is supposed to go, where the people and destination truly benefit from the exchange and where the visitor comes out more knowledgeable about solutions being applied to important local issues.

“Striking the right balance between tourism, indigenous communities and wildlife conservation is crucial.”

Among the many vital issues to be aware of is the proliferation of conservation refuges. All over the world, millions of people continue to be displaced from their ancestral homelands in the name of conservation. This hollow-hearted practice is a missed opportunity to learn authentic, sustainable practices and gain knowledge from indigenous people that have lived in harmony with flora and fauna in their environment for thousands of years.

To address this issue, Praveen Moman, Founder of Volcanoes Safaris, purchased 10 acres of land in the nearby town of Kisoro, Uganda, to create a permanent village for the indigenous Batwa and their families. Previously a self-sufficient community, they were exiled from their home and thrust into the modern world with no resources, land or education in the name of saving the endangered mountain gorillas and creating the Mgahinga National Park. “The Batwa have lived for millennia in the forests, co-existing with the gorillas. In seeking to create more protected areas for wildlife, we must ensure that local people are also provided for, moved to new lands and given support to acquire new skills,” explained Moman. In addition to an agricultural area for growing crops and a vocational center to learn new skills, the houses in the village settlement were built following the Batwa’s sustainable traditions and culture, using volcanic stone, mud and water to form the core of the design.



Left Page: Every Volcanoes Safaris lodge exemplifies a sophisticated low-impact Afro-shabby-chic ethos using artifacts and textures that reflect the culture of the Great Lakes of Africa

Right page (top): Wildlife treks through the old-growth forests in Uganda and Rwanda provide glimpses of endangered mountain gorillas, rare golden monkeys and tree-climbing lions

Right page (bottom): Empowering local staff at all levels of management through extensive training programs is a key aspect of Volcanoes’ philosophy

As an award-winning luxury lodge and recognized leader in great ape tourism, part of its ethos involves supporting and preserving the rich culture of its local communities. For example, the Mount Gahinga Lodge includes a Heritage Site where the Batwa can demonstrate how they used to live, hunt and collect resources from the forest. “Striking the right balance between tourism, indigenous communities and wildlife conservation is crucial. We achieve this by building small eco-friendly lodges in a style sympathetic to local aesthetics and supporting responsible practices in relation to gorilla and chimp viewing. We are also staffed largely by locals who are empowered to manage the resort through training programs that teach hospitality, management and nature guiding,” added Moman. In addition to stunning accommodations in Rwanda and Uganda along the Albertine Rift and providing close encounters with rare animals in their natural habitat, Volcanoes Safaris upholds respectful relationships with their neighbors, who have ultimately become the cornerstone of their success.

Another way to give back and travel more consciously is to avoid visiting specific destinations. More people are traveling than ever before, but the concentration is on a very short list of destinations. When a small city of 50,000 residents experience 30 million visitors annually, it can negatively affect the attributes that made the destination worth visiting in the first place.

In Peru, there is a push to diversify tourism away from Machu Picchu, which became so overcrowded that the government created a timed-entry system to control the 5,000 daily visitors. The solution is to steer visitors towards another lesser-known area of the Great Inca Trail known as the Qhapaq Ñan. An extraordinary feat of preindustrial engineering, this 19,000-mile trade route between Colombia and Argentina links the snow-capped Andes to the coast, running through rainforests, valleys and deserts.



EMBRAER TIP

Not in a hurry? The Praetor 500's long range cruise speed not only maximizes its range, but fuel efficiency as well. Travel greener at the expense of only a few extra minutes in-flight.



Above: The Great Inca Trail is part of the Qhapaq Ñan road network, a UNESCO World Heritage Site that stretches across six countries from Colombia to Argentina

Left: By promoting equitable travel practices, SA Expeditions aims to alleviate the pressure on more heavily visited sites like Machu Picchu

Right: Nick Stanziano, Co-founder and CEO of SA Expeditions, sees ecotourism as the best way to combat the rapid deterioration of this historic trade route





Nick Stanziano, the Lima-based Co-founder and CEO of SA Expeditions, has collaborated with local groups to develop a multi-day trek along the Great Inca Trail from Castillo to Huanuco Pampa with a support team of cooks, mountain guides and llama handlers to manage the journey. “Our approach to developing inclusive tourism initiatives involves securing buy-in from local stakeholders from the onset. We prioritize building a supply chain that provides a dignified way to make an honest living for all involved. We make a point to champion regional stewards of the land by supporting micro-entrepreneurs and hiring residents for things like camp support and llama husbandry, so local guides and herders gain marketable experience for working with other responsible tour outfitters,” said Stanziano.

SA Expeditions offers distinct high-altitude, long-distance treks along the Great Inca Trail. Their routes cover some pretty extreme terrain over distances longer than the classic Inca

Trail to Machu Picchu—this means at least average fitness levels are essential. A passion for conservation, cultural exchange and world history will make the experience even more impactful. While all expeditions are ultimately customizable, those who secure space on the limited-availability group trek in June 2023 will spend quality time with John Leivers, a legendary explorer and key member of the original Great Inca Trail exploration team, most famous for being the guide in the book: “Turn Right at Machu Picchu.”

Complexity will always reside at the core of any philanthropic endeavor, travel or otherwise, which is why it is crucial to consider every aspect of the work being done and any long-term impacts that might occur. We have the knowledge, creativity and technology to solve our issues without creating worse problems in other areas. By recognizing the inherent value in everyone’s story, we can learn and grow towards a more balanced world rooted in our shared humanity. ◀

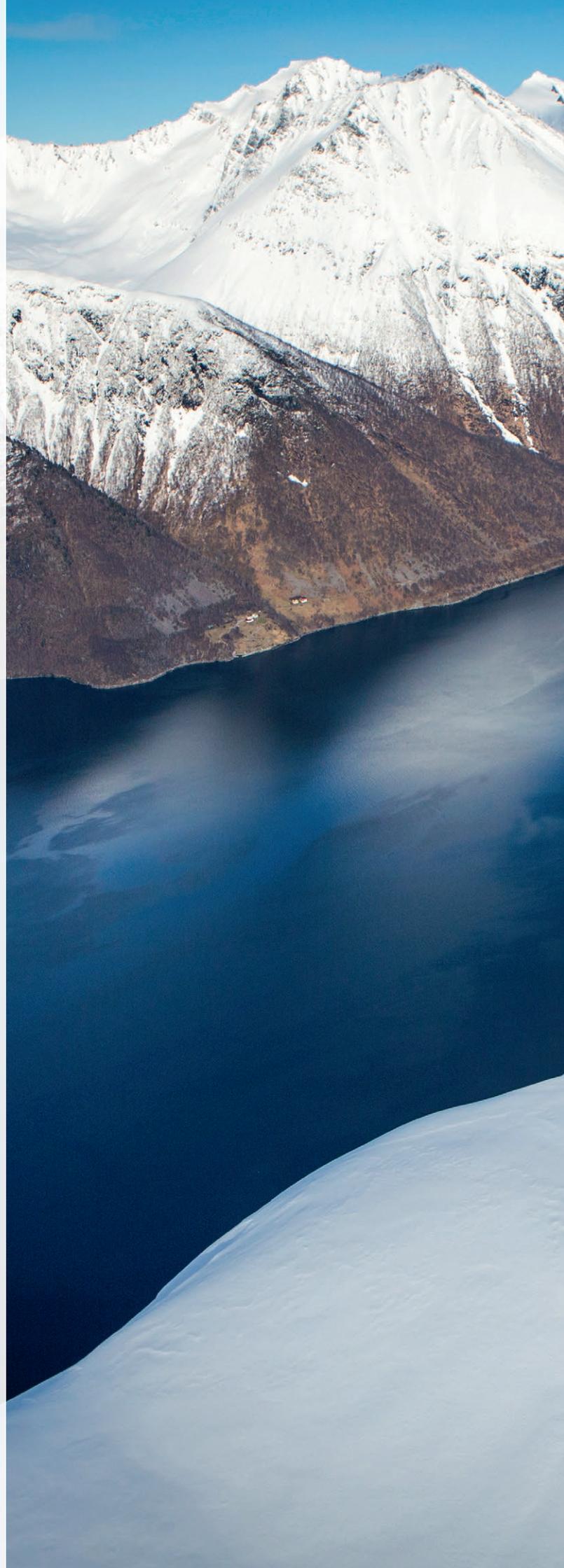
PEAKS TO FJORDS

Slow travel, sustainability and exhilarating adventures in Norway's Sunnmøre Alps region on the northwest coast

There's a saying in Norway: You'll never regret a hike—which is undeniably true among the cloud-piercing peaks and shimmering snowmelt fjords that characterize this under-the-radar region of the country. Pristine primeval landscapes serve as a playground and backdrop for epic adventures on land, sea and snow. Year-round, an endless array of expeditions from hiking, cycling and surfing to sea safaris, fishing and kayaking brings travelers closer to nature. For a once-in-a-lifetime experience in Sunnmøre, call on 62°NORD, a family-owned and operated travel company known for its swish portfolio of boutique hotels, speed yachts, helicopters, electric Porsches and expert guides, which they blend together in bespoke ways to create unrepeatable experiences. Founded in the early aughts by Knut and Line Flakk, the couple was inspired by geotourism, which focuses on the geographical richness of a destination, including its environment, heritage, culture, and local community.

“We focus on slow travel. Our guests stay with us from four to seven days, so there is an immersive element to every trip,” said Ann Kristin Ytrevik, 62°NORD's Brand Director. “People aren't coming to just tick a box and leave. They are spending time with locals in the community, connecting with the land, and bringing home what they've learned, which fosters cultural empathy and impact-driven change.”

Knut Flakk, who purchased Devold, Norway's oldest knitted garment manufacturer, more than a decade ago, was intent on creating a high-end experiential travel company to generate jobs after the brand's manufacturing was moved abroad. Today, the Flakk family is working towards a more sustainable future by heavily investing in hydrogen fuel to power the many boats and ferries that cruise Geirangerfjord, a local UNESCO World Heritage Site. While the country of Norway derives its significant





WORDS Nora Walsh, IMAGE © Håvard Myklebust/62°NORD

Each spring, after a relentless winter, the skies unveil themselves and the slopes of the Sunnmøre Alps transform into a playground for adventure seekers



Left: An hour by boat or 20 minutes by helicopter from Ålesund, guests can spend time on a private island and enjoy an authentic overnight stay at the Lighthouse keeper's house

Below: Alternatively, a private chef will prepare a vast selection of fresh seafood accompanied by selected drinks at the charming boathouse



“We deeply believe that when people experience unspoiled natural landscapes like this, they’ll be more inclined to take better care of the Earth.”

wealth from selling the spoils of a massive oil reserve (which, when discovered in the late 1960s, skyrocketed Norway from one of the poorest countries in Europe to one of the richest), the Flakks’ ultimate goal is to shift energy consumption from oil and gas to hydrogen. “We deeply believe that when people experience unspoiled natural landscapes like this, they’ll be more inclined to take better care of the Earth,” explained Ytrevik.

When traveling with 62°NORD, guests typically stay at all three hotels, which are utterly distinct in character and history. (The Flakk family recently purchased a landmark building in Oslo alongside the Royal Castle, which is set to become the city’s first true luxury boutique hotel when it opens.) “They’re like three sisters,” Ytrevik mused. “Hotel Brosundet is the cool well-traveled sister, while Hotel Union Øye is the eclectic, artsy and theatrical sibling. Storjord is the warm and graceful sister who is always the consummate host.”

“Even though they’re all so different,” she added, “you always feel like you’re staying with the same family.” One of the most unique and thrilling aspects of touring with 62°NORD is hopping between hotels, which are memorable adventures, full of excitement and delight.

HOTEL BROSUNDET

Located in the pretty fishing port of Ålesund, Hotel Brosundet was once a herring processing plant where fish was salted and sold. Set in two former warehouses, the historic waterfront structures received a stylish refresh from Snøhetta, one of Norway’s edgiest architecture



Above: Located in the pretty fishing port of Ålesund, Hotel Brosundet was once a herring processing plant where fish was salted and sold

Below: Listed as one of the world's most beautiful small ports, Ålesund is known for its Art Nouveau architectural style

studios. A massive fireplace anchors the heart of the hotel, where guests can be found quietly talking, reading and relaxing. Forty-seven distinct guestrooms are done up in a rustic Scandinavian aesthetic with original wooden beams and flooring, bare brickwork and modern bathrooms. Room 47, an intimate two-story suite in The Molja Lighthouse, just a short walk from the hotel, is the one to book for total privacy and panoramic views of the open sea. Two alfresco soaking tubs and a glass-enclosed sauna at the spa overlook the scenic harborside (make sure to reserve ahead of time). From sunlit breakfast buffets and traditional afternoon teas to multicourse tasting menus at Apotekergata No. 5, heralded as one of Ålesund's top restaurants, the culinary experiences at Hotel Brosundet are full of Norwegian flavor and friendliness.

In town, amble Ålesund's cobblestone streets, admiring the gabled rooftops and flowing lines of Art Nouveau architecture donning shades of mint-green, sky-blue, rose, and mustard. Visit the charming town center before climbing up to the Fjellstua lookout to take in far-reaching bird's-eye views of the beautiful town and its surrounding peaks and fjords. If weather permits, hop on a fishing boat to angle for cold-water cod and hake, which the chef will prepare for you at the restaurant. Cap off the evening with vintage cocktails at the hotel's Arkivet Bar, a local gathering spot that buzzes with a cool crowd.

To travel to Hotel Union Øye, you'll set off from the Hotel Brosundet's private pier on the Fjord Adventurer, a sleek speed yacht that will cruise you through Norangsfjord, a nature-carved waterway flanked by glacier-draped crests and historic red-and-white farmhouses hugging the shore.



HOTEL UNION ØYE

At the end of Norangsfjord sits a sleepy village home to Hotel Union Øye, a chalet-style property that has been a magnet for royals, mountaineers and luminaries since 1891. The hotel's whimsical character was thoughtfully preserved during a recent two-year renovation that earned it the designation of Norway's first Relais & Châteaux property. Twenty-two wood-burning fireplaces are scattered throughout the alpine retreat, providing cozy nooks to warm up with a hot tea after days spent exploring the storied Sunnmøre Alps by foot, bike and boat in the care of a local guide. The hotel maintains the allure of a bygone era with carefully selected antiques, a staff dressed in traditional countryside attire, and a storytelling hour post-dinner where guests learn about the property's history through anecdotes and century-old artifacts.

Like a living museum, each of the 30 individually decorated rooms in the main house—all named after notables who've stayed at the hotel, including William Cecil Slingsby, King Oscar, Queen Maud, Sir Arthur Conan Doyle, and the famed explorer Roald Amundsen—are left open when unoccupied for guests to peruse and enjoy. Check into the new King or Queen's Suite in the main building, whose firelit lounge, private balconies and oversized soaking tubs with buttons to request champagne and gin and tonics are truly fit for nobility. Five new standalone guesthouses reflecting traditional Norwegian farm settlements are ideal for larger families traveling together. The extensive transformation also saw the addition of a library, wine cellar, sizable gardens and The Conservatory, where the chef's refined culinary arts are presented and savored in a glass-enclosed dining room with a crackling fireplace and views of the soaring alps.

Upon check out, guests get behind the wheel of 62°NORD's electric Porsche Taycan Cross Turismo for a two-hour joyride to Storfjord Hotel. The impossibly scenic route weaves through Norangsdalen's serrated cliffs, spectacular valleys, snowmelt waterfalls, and flocks of resident sheep. A ferry crossing takes you to Magerholm, where the storybook setting continues all the way to Glomset.



EMBRAER TIP

Travel from Quebec, Canada, to Oslo, Norway, in just over six and a half hours with unparalleled comfort in the Praetor 600 due to its ultra-quiet environment and best-in-class cabin altitude.

Left: At Hotel Union Øye, 22 wood-burning fireplaces are scattered throughout the retreat, providing cozy nooks to warm up with a hot tea

Above: Nonsvik Farm is a charming and authentic fjord farm located close to Storfjord Hotel in the village of Glomset



Left: Inspired by Norwegian traditions with a modern twist, the rooms at Storfjord Hotel are both spacious and comfortable

Below: The Storfjord Hotel is a secluded, family owned, luxury boutique hotel built with hand-cut logs and a grass roof

STORFJORD HOTEL

This stunning 29-room hideaway built with hand-cut logs and a grass roof (a traditional construction feature used to insulate homes from the harsh elements) looks as if it's grown out of the nearby conifer forest. Indoors, an alpine chic aesthetic feels like a warm embrace with timber paneled walls, woolen rugs and large bay windows gazing over the glittering Storfjord and lofty alps beyond. The hotel bills itself as more than a place to stay, but rather a state of mind (one that feels somewhere between a mountaintop and heaven). Muted palettes in the guest rooms don't compete with the picture-perfect panoramas that can be enjoyed from the comfort of a pillowy bed or wooden Adirondack chairs on spacious covered porches. In the main house, a cozy sitting room with a curated library (and Devold's iconic sweaters for purchase) is the perfect place to unwind, as is the sauna and outdoor jacuzzi overlooking the forest.

While Storfjord is a haven of respite, adventure awaits right outside your doorstep, from breathtaking hiking trails and roaring waterfalls to Norway's most scenic ski resort, Strandafjellet. Glomset is also full of amiable and interesting locals whom you'll meet on excursions with local guide Anniken Aakvik, where you can hunt for chanterelle mushrooms and berries in a moss-filled forest, go wild swimming in the fjords, or spend an afternoon at Nonsvik Farm with the Gurines, a husband-and-wife duo that will introduce you to Norwegian culinary traditions through seven-course tasting menus featuring smoked salmon, rhubarb soup and lefse flatbread all sourced and prepared by the couple. You'll eat just as well at the hotel, whose restaurant focuses on the freshest local ingredients prepared with the expert craftsmanship of a world-class kitchen. "Our approach is all about helping our guests slow down and reconnect with themselves, the culture and the landscapes of this region," said Ytrevik. "Nature really is the best spa in the world." ◀



TRAVEL GEMS

To decide where to go next, we've hand-selected unique destinations, combining the ease of luxury private residences in desirable locales, incredible new journeys in nature and extraordinary adventure pursuits with a difference



TREASURES OF THE SOUTH SEA

Reachable only by private plane, Amanpulo has long lured guests to Pamalican Island, marooned in the Philippine's Palawan archipelago, where naturalists delight in exploring deserted coves, coral reefs and a labyrinth of lush jungle paths surrounding luxurious casitas and villas. Amanpulo's new Golden South Sea Pearl Journey takes guests to the tiny uninhabited island of Malotamban in Taytay to discover the highly coveted golden South Sea pearl—revered for its luster and rich hues from butter to champagne. Four to six guests can board a 45-minute chartered helicopter flight over the archipelago to tour The Pearl Farm, a sustainable hatchery

and laboratory established in 1979 by a French pearl farmer and a Filipino entrepreneur, Jewelmer. Here, learn about the slow journey to culture, breed and harvest the rare gold-lipped *Pinctada maxima* oyster. End the full-day tour with an exhilarating speedboat trip to a secluded stretch of beach for a Filipino picnic-style lunch and snorkeling around pristine coral gardens. And, to top off a truly immersive experience, don't miss visiting the nesting site of the returning green and Hawksbill turtles, as hatchlings make the perilous journey from nest to sea under moonlight from March to October each year. aman.com



PINNACLE OF ALPINE LIVING

For an unmatched alpine experience, discover Six Senses Residences Courchevel, located in the heart of Courchevel 1850, the most desirable ski destination in the French Alps. Set against a backdrop of freshly compacted pistes and Mont Blanc, 53 self-contained penthouses and apartments showcase the finest in contemporary mountain-lodge luxury with unique residential services and lifestyle offerings—24/7 concierge, ski-in, ski-out shuttle services and bespoke transport to Six Senses Spa. Following days on the slopes, wander just a short distance to designer boutiques or indulge at Sumosan, the award-winning Japanese restaurant. As hosts of the 2023 World Ski Championships, Courchevel’s legendary snow cover and long ski season means guests can stay and play until the end of April. sixsenses.com/courchevel

THE NEW SAFARI STYLE

Set on 160,000 acres in South Africa’s sprawling Sabi Sand Nature Reserve, Cheetah Plains Game Reserve reveals three architecturally designed solar-powered villas with all the markings of a top-tier luxury safari lodge: dedicated host, butler, culinary team, spa therapist, field guide and tracker, and renowned leopard encounters. With a singular approach, Cheetah Plain’s exclusive-use villas sleep eight, featuring hand-picked African art, a swimming pool, a wine gallery, and unimpeded bushveld views. Guests can land at Arathusa Airport by private jet and be whisked away on an electric Land Cruiser Safari Vehicle for a zero emission silent safari experience in a region teeming with wildlife and birdlife. Equally as thrilling, guests can explore on foot with an expert guide and settle in for safari-style soul food under the stars. cheetahplains.com



HIGH-ALTITUDE LUXURY

Shinta Mani Mustang – A Bensley Collection, the long-awaited all-inclusive luxury lodge from Shinta Mani Hotels, is set to open its doors in May 2023. Twenty-nine suites designed by Bill Bensley resemble traditional Tibetan-style homes, furnished with repurposed local wares, vernacular drawings by Robert Powell and towering windows that frame Tibet’s Forbidden Kingdom and nearby Mount Nilgiri. With personalized, privately guided experiences, guests can jump in a helicopter, trek, cycle, ride horses, and rock climb with Bensley Adventure Guides or nibble on Shinta Mani gourmet picnics made with the freshest farm-to-fork ingredients. After adventuring, discover the Tibetan wellness program, created by a local 11th-generation Tibetan Amchi Doctor, using traditional herbal medicine. mustang.shintamani.com

DESERT, UNPLUGGED

Taking a time-out from the world in Utah's remote and beautiful desert means wind-hewn landscapes, immersive cultural experiences and a chance to truly disconnect

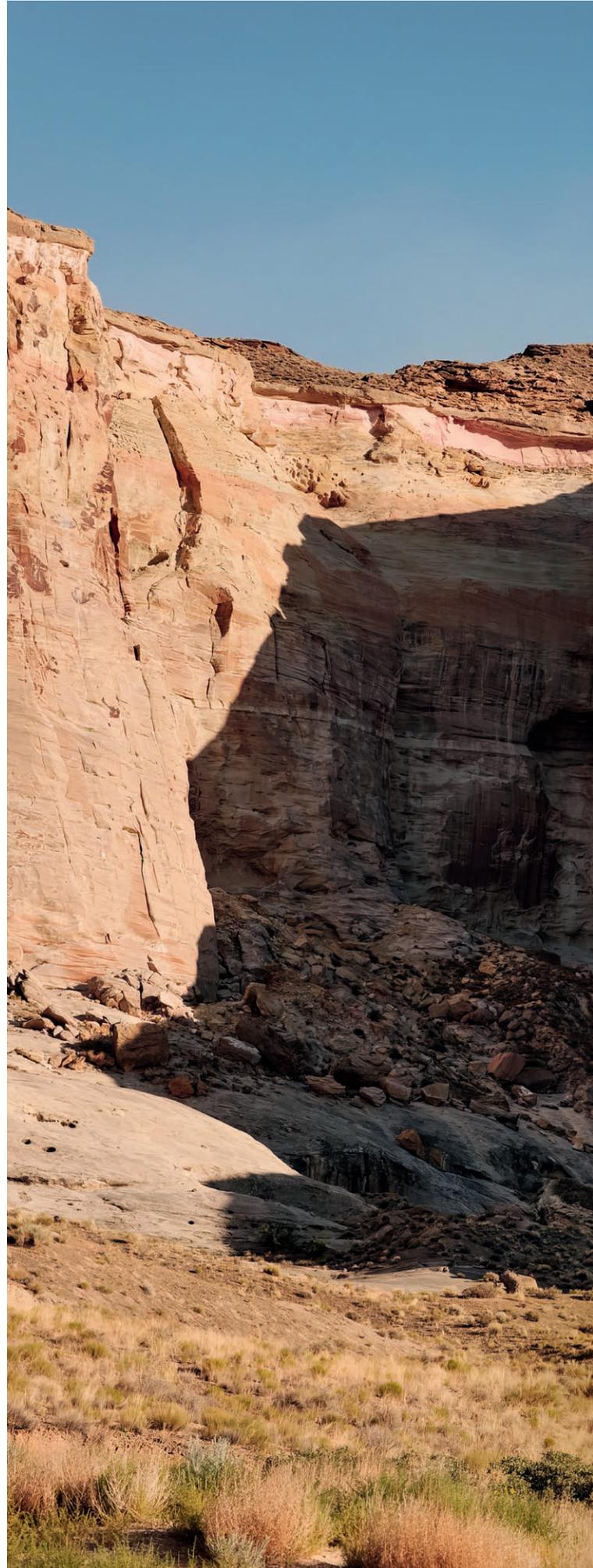
Utah always feels like a well-kept secret. Although its scenery is some of the most dramatic in the U.S., it often plays second fiddle to neighboring Arizona and New Mexico. But it's precisely that lesser-known quality that makes it so appealing. Wide open spaces, awe-inspiring vistas, crowd-free landscapes, and the peace and quiet of true remoteness are all on offer in the Utah desert—a place where real disconnection is not just possible but encouraged.

The most spectacular scenery—the flat-topped mesas, the slot canyons, the endless sky—is concentrated in and around the Grand Circle region of the Colorado Plateau. Within a two-and-a-half-hour drive of three national parks (Bryce Canyon, Zion and Grand Canyon) and the Navajo Nation Reservation, this area is still isolated enough that the brain downshifts almost immediately, settling into a lower gear with pleasure.

Here, visitors seek time and space, connection with nature and tradition. One of the places dedicated to fostering that connection is Camp Sarika by Amangiri, the first-ever all-weather, year-round camp in North America. Surrounded by 600 acres of unadulterated desert, this is a place where immersion into the environment is immediate.

STAYING STILL

The number of guests in the camp is limited to 30, meaning that disconnection from the outside world comes naturally. Designed by San Francisco/Johannesburg-based firm Luxury Frontiers, each of the 10 one- and two-bedroom tents has its own deck and private plunge pool, as well as a firepit that encourages languorous nights of storytelling and stargazing. The tent layouts, designed to optimize natural light and views of the desert, are geared towards indoor-outdoor living, constantly bringing the beauty of the sandstone formations into the eye line. The





WOROS Nora Walsh, IMAGE Courtesy of Amangiri

Amid an unearthly 600-acre landscape of towering mesas, slot canyons and rust-coloured sands, the tented retreat of Camp Sarika promises an intimate, back-to-the-wild experience



custom furnishings, such as walnut desks and etched timber headboards, were constructed by local artisans. And everything was crafted with an eye to sustainability.

“We really pride ourselves in taking a well-rounded approach to sustainability, including both environmental and social responsibility considerations,” said Luca Franco, the camp’s developer and the Founder and CEO of Luxury Frontiers. “At Camp Sarika, not only did we integrate environmentally conscious materials, such as recyclable tent membranes, which give the rooms their iconic form and a sophisticated interior canvas partially composed of recycled plastics, but we also made sure to employ local artisans in the immediate communities to manufacture all the bespoke furniture. Of particular note, a local blacksmith, Iron Maegan, was instrumental in bringing many of the design’s steelwork to life, including 30 hand-forged vanity mirrors.”

Connection means more than taking in the majesty of the red-rock landscape from a poolside lounge. The original settlers of

the Southwest, the Navajo people, built their culture around the land, and immersion in a few of these experiences—a true privilege—is a way to link oneself to the long history of the territory. In cooperation with Amangiri, locals offer a number of ways to delve into the Navajo culture, from fireside storytelling to weaving workshops to dazzling, high-energy hoop dancing performances. Set against the majestic background of the Utah desert, participating in these local-led cultural practices can feel like stepping not just out of the 21st century but out of time altogether.

GETTING ACTIVE

While gazing at the extraordinary sandstone formations and imperious mesas could easily occupy a week, getting out into that landscape is best done on foot. Twelve miles of designated trails threading through the desert are linked to Amangiri. Alternatively, hikers can join a Navajo-led tour of Monument Valley and the multi-colored Navajo Nation Slot Canyons, endlessly fascinating explorations of a landscape that has hardly changed over centuries. Guests of Camp

Above: Reaching a height of 400 feet, the Cave Peak Stairway—essentially a hanging ladder-like bridge—uses 120 steps to reach a distance of 200 feet

Right page (top): The Mesa Pavilion features two bedrooms with ensuites and a shared living area leading to an oversized pool terrace

Right page (bottom): Under the large tented canopy, an elegant soaking tub and rain shower ensures comfort and privacy following a day of exploration

Sarika can discover the valley by helicopter or take private flyover tours of Bryce Canyon and Zion National Park, viewing some of the most geographically vivid landscapes on Earth from the air.

Another off-the-ground experience is one that's unique to Amangiri: the Cave Peak Stairway. This 120-step steel suspension bridge stretches across a canyon 400 feet below, connecting to the Via Ferrata, a system of iron handholds and steps that enables climbers to access new heights. To tread the stairway, with the canyon yawning underneath, is to experience another incredible form of disconnection—one from the very Earth itself.

FOCUS ON WELLNESS

Hours spent taking in the expansive skies, and rock-studded landscape can be supplemented by experiences that enhance a sense of self. A 30-minute hike or quick drive from camp, the Amangiri Spa offers a full menu of treatments designed to pamper. Facials and massages begin with a Native American smudging ritual and end with a crystal sound bath so that the experience treats multiple aspects of health, soothing the soul and mind as well as the body.

Bookending the day are two rituals that fully immerse guests in the spirit and silence of the desert. At dawn, yogis can greet the sun with an outdoor yoga session on a rocky outcrop overlooking a heart-lifting view of the Grand Staircase-Escalante National Monument. When the sun retires, guests can join an astronomer-led tour (complete with an Orion telescope) of one of the darkest skies in the U.S. and count their lucky stars in the glittering firmament. ←



EMBRAER TIP

Travel from Vail, Colorado, to Canyon Point, Utah, in a Phenom 300E while carrying up to 10 passengers in the world's best-selling light jet for 10 years running.



NATIVE AMERICAN EDUCATION EFFORTS



This past November, Amangiri celebrated Native American Heritage Month with daily cultural programs focusing on the rich traditions of the Navajo people. Guests were invited to discover and donate to the impactful initiative spearheaded by Mylo Fowler, a NatGeo Photographer, Writer and Activist of the Navajo Nation. Currently, about 18,000 Navajo homes are without electricity and running water. His project with Heart of America aims to connect these houses to solar power within the next five years. It is particularly critical for younger generations to ensure families can charge their school-issued devices, do homework and read stories after dark. heartofamerica.org



LEADERSHIP

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Space Perspective is driven by a desire to share the transformative power of space travel with as many people as possible. Read more on pages 36-37.



WATER-TIGHT SOLUTIONS

With the widespread global water crisis, business leaders and industries are turning to digital solutions to stay at the forefront of water innovation, improve resource use and protect the Earth's fresh water supply

“Water, water everywhere, nor any drop to drink.” In his poem, “The Rime of the Ancient Mariner” (1798), Samuel Taylor Coleridge describes a sailor being surrounded by salt water but not a drop that he can drink. Indeed, we are surrounded by water on our blue planet, with 80% of the Earth's surface covered by water. However, 97% of that is salt water, leaving only a tiny 3% fresh water available (and of that 3%, 68.7% is locked up in the ice of the North and South Poles).

Coleridge's cautionary tale reminds us about humanity's symbiotic relationship with nature as we increasingly experience global water stress and flooding caused by climate change. The ethical and financial considerations of sustainability are tangible through the lens of water as it is so central to human activity across our lifestyles and industry. However, our poorly managed demand is putting immense stress on the global natural system, and the UN forecasts that water demand will outstrip supply by 40% by the end of the decade.

How we use and conserve water is now in the spotlight, so naturally, innovation to

mitigate this risk has seen a rush to invest in the water sector. There are many drivers for this innovation, such as increasing demand for water, aging and underfunded centralized water infrastructure, and the impacts of climate change.

Will Sarni, CEO of Water Foundry and Founder and General Partner of Future of Water Fund, stated: “The American West is being crippled by a ‘permanent drought’ and Europe is facing droughts resulting in low river levels impacting navigation and commerce. Meanwhile, water scarcity—driven by the impacts of climate change on our hydrologic cycle—poor water quality and lack of access to safe drinking water are widespread. These trends are fuelling interest by entrepreneurs and investors to identify innovative technologies and business models to address these water challenges.”

Underpinning the growing interest is the rise in Environmental Social Governance (ESG) reporting as a business valuation metric. The “E” (environment) disclosures have been dominated by carbon, but the global water crisis is now taking center stage too. CDP is a global environmental disclosure system that

Above: Known for its vast reach and powerful currents, the Mississippi River has withered to levels not seen in decades, choking shipping lanes and endangering drinking water supplies

Right: Will Sarni, CEO of Water Foundry and Founder and General Partner of Future of Water Fund is an internationally recognized thought leader on water strategy and innovation

provides an annual score for companies so that investors can measure and track organizational performance in key environmental sustainability areas. CDP stated that 3,370 companies disclosed on water in 2021, up from 176 in 2010.

Traditionally, the front line of water risk has been sectors with high levels of water usage, such as oil and gas, electric utilities, coal, agriculture, metals and mining. However, all industry now needs to be aware of water practices. Diana Verde Nieto of Positive Luxury, the company behind the Butterfly Mark Certification, works on ESG strategies with global retail brands and explained: “A ‘business as usual’ attitude will not work for the future. Water tables are being depleted by production progress, such as mining and agriculture, and water tables are not being replenished fast enough because of the constant droughts in many areas of the world. Business leaders need to understand their water consumption across the entire supply chain and innovate to manufacture products and production processes that are waterless or take significantly less water.”

With USD 15.5 billion reported as being stranded or at risk because of the global water crisis, fixing water problems has become big business. Digital technologies are creating impressive solutions in the utility and private sectors to vastly improve resource use, reduce carbon emissions and manage infrastructure manufacturing assets and supply chains. ←



WORDS | Ilana Adamson, IMAGES (left page) © Justin Wilkens, (right page) © James Strukenberg

THREE WATER INNOVATIONS THAT ARE DRAMATICALLY SHIFTING THE NEEDLE IN WATER MANAGEMENT

FIDO

Working across cities and islands, FIDO uses artificial intelligence (AI) as water leak detection technology. It is estimated that 15 to 35 million gallons of water are lost daily in New York through aging infrastructure. This is a trend that is repeated around the world in highly urbanized areas; the dual pressure of increased populations and pipe systems at the end of their lives are overwhelmed. Traditional methods for detecting leaks are often ineffective and costly, but one of FIDO’s solutions is “FIDO Bugs,” and they have “superpowers!” The tiny robotics are dropped magnetically into a water network where they travel the pipes, recording acoustic and kinetic signatures to give data points such as flow, pressure and leak resolution information with over 92% accuracy. FIDO technology has thus far had success in the U.S. with DC Water and United Utilities, as well as Thames Water in London.

Yellow Sub Hydro

Yellow Sub Hydro is a relative newcomer to the water industry, having developed “Periscope,” a Software as a Service (SaaS) cloud-based application that helps their clients assess and avert ESG risk in the water use that underpins their business activities. By pulling together expertise from geologists, hydrologists and technology, they provide highly technical data alongside real-time simulators to help high-water use industries to navigate the volatility of water tables and disrupted hydrological impacts. For industries with a high dependency on water, this information can significantly reduce financial risk and the potential for stranded assets by enabling a tool to assess or re-assess a project across a broad range assessment of “what if” scenarios around water availability. Developed for the mining industry, they aim to “roll out support across multiple sectors and industries, including regulation, agriculture and livestock, forestry, minerals and extractives, water utilities, thermo-electric, and more.”

Hydraloop

Each Hydraloop unit is deceptively simple in appearance (similar to a fridge in size), but it has the potential to reduce water demand in homes, commercial buildings and hotels. Used predominantly in dense cities, rural areas and off-grid situations where water supply is unstable or insufficient, this smart system collects, treats and reuses the water from showers, baths, washers and dryers, heat pumps, and air conditioning units to provide an in-house water recycling resource—an incredibly efficient (and affordable) way to use less tap water. Instead, the recycled water is safe for reuse in toilet flushing, laundry, garden irrigation, and topping up swimming pools.

GUARDIAN ANGELS

Since 2010, AeroAngel has made flights possible for hundreds of critically ill children to reach life-saving medical treatment across the United States. Advantage spoke to Mark Pestal, Founder & Volunteer Executive Director at AeroAngel, to understand the growing need for safe, private jet charters and the impact a single Phenom 300 can have when a child's life is on the line.



Left page: Based in Denver, Colorado, AeroAngel was founded by retired Attorney and professional Pilot Mark Pestal

Right page: Since 2010, AeroAngel helps seriously ill children access distant, life-saving medical care with free, private jet flights



What makes AeroAngel a successful angel flight organization?

It's really our niche mission that fills an unmet need to assist families with a seriously ill child to travel to distant, life-saving medical care. We're providing free, private jet flights only to children with no other safe travel option. Our team is motivated by what's best for the child, and if that means working after hours and on weekends to get a flight airborne, that's what we do.

The genesis of AeroAngel's unique model actually grew out of my experience as a board member for an angel flight group. I saw a need to be able to provide long-distance flights in weather conditions in which only high-performance, pressurized aircraft can fly, and in situations where there are multiple passengers and heavier payloads in cases where a flight nurse, medical equipment or supplies were needed on a flight.

Of course, without our network of generous jet donors, aviation business

partners and supporters, we would not be able to fulfill AeroAngel's critical mission. We're committed to establishing solid working relationships with our donors to accommodate even short-notice flight requests. When we reach out to jet donors, they know we've vetted the medical necessity for a private flight, and there are no other safe options.

The children you fly can't travel safely on commercial flights due to severe medical conditions. How is AeroAngel integral to ensuring these children can travel to specialized medical care?

Our goal is to serve more of the over 250 children's hospitals across the country, which are increasingly specializing in treating rare diseases, but a seriously ill child must be able to access that care safely for it to make a difference. And, beyond access to care, an AeroAngel flight benefits medical providers by enhancing patient safety and improving patient outcomes. For example, a child traveling to Boston Children's Hospital for critical heart

surgery can't arrive compromised because of a viral bug picked up on a commercial flight, consequently delaying, canceling or adversely affecting the surgery's outcome.

We recently helped a Fresno, California family travel to and from Duke University in Raleigh-Durham so that their three-year-old son could receive a life-saving thymus-cell implant to cure his lack of natural immunity and break him out of his "bubble-boy" confinement. The incredible FDA-approved therapy pioneered by one of Duke's doctors is giving these "bubble-boy" kids a chance to lead normal lives, but only if they can safely access the care. For Leo, his only opportunity to access this life-saving care was on a private, roundtrip flight.

With over a decade of experience assessing flight requests and providing hundreds of flights, we can quickly determine whether air medical transport is necessary. We work with a family's medical provider to ensure that a child is medically safe to fly on a pressurized aircraft for the duration of the flight and obtain a letter of medical necessity to that effect.

What challenges do you encounter when flying critically ill kids? How do you make sure flights operate smoothly?

Our team is mindful that all but a few of our passengers have ever boarded a business jet and the novel logistics involved. So, to make the flight as positive an experience as possible, our flight coordinator thoroughly briefs the families on the entire process, from meeting at a general aviation facility or corporate hangar to having transportation brought planeside at the destination airport. We also provide a detailed itinerary to parents and crew so everyone is on the same page.

Because the flights we're doing are essential, we started an Emergency Flight Fund to purchase a charter flight when a flight request is received on short notice, or we encounter a scheduling or mechanical issue. Our goal is to fulfill 100% of the flight requests we receive, so having funding for the Emergency Flight Fund is critical.

But logistics aside, what we love most is to provide a fun experience to each child for whom an AeroAngel flight is often their first. In a recent case, one of our jet donors provided a large cabin class jet on short notice for a Florida teen fighting relapsed bone cancer. Ryan and her parents were blown away by the "rock-star" treatment she received on her flight up to Children's Hospital of Philadelphia, an all-the-more amazing gift given that she had just spent two months in the hospital.

Can you elaborate on the value of having a jet available for short-notice flights and how this asset is essential to your service model?

Even with over 350 participating aircraft on our donor list, filling flights can be challenging given current utilization rates, the pilot shortage, supply-chain issues affecting maintenance schedules, among other factors. With the availability of a dispatch-ready aircraft, we would be able to reach out to more children's hospitals to offer flights knowing we have an aircraft to fulfill a flight request. To date, we've not reached out to some children's hospitals because we do not have a sufficient number of jet donors in an area. We do not want to promise more than we can deliver.

Beyond expanding capacity, being able to schedule a flight also relieves pressure from the family, who would know that their transportation need is met, as well as our flight coordinator and the hospital. Our ultimate goal is to be able to fill flights on hours' notice anywhere in the country when a child's life is on the line, and a dedicated jet would certainly help us to meet that goal.

What makes the Phenom 300 series the right aircraft to transport kids and their families to life-saving medical treatment?

We've done AeroAngel flights on jets ranging from entry-level to long-range aircraft; however, the Phenom 300 series has the versatility we need for most flights, which typically carry two to four passengers, a crew of two pilots and covers more than 1,000 miles. And, the air-stair on the Phenom 300 makes boarding easier for passengers with physical challenges.

The large-capacity baggage area is also important. We do not have to worry about running out of cargo space in the Phenom 300 series. Families planning a long hospital stay away from home are able to transport significant amounts of medical equipment and supplies.

In addition to its dispatch reliability, the Phenom 300 series has the speed and capability to easily cross the country with one stop, as we have done a number of times. Beneficial for both the crew and pilots is the industry-leading low cabin altitude. Even after a several-hour flight, I do not feel as physically taxed as in other aircraft with higher cabin altitudes.

As a pilot, you have flown many different aircraft types. Can you tell us about your experience flying the Phenom 300?

The Phenom 300 series tops the list of jets I've flown. It's just a fun jet to fly. There's never been a flight when the performance was lacking, even loaded to max take-off weight on a warm day. When we're filed for Flight Level 450, it's always a straight climb to level off regardless of operating conditions.

Especially appealing are the large screen cockpit displays that can be split to allow the presentation of critical information. I've flown both Garmin's G3000 and G1000NXi ensuring continual situational awareness and systems monitoring.



JOIN AEROANGEL'S MISSION



Fuel Our Emergency Flight Fund

Made possible by the generosity of its partners, AeroAngel's mission is never to have to tell a family a flight to their child's life-saving medical care is not available. However, when a donated flight isn't available, AeroAngel must purchase charter flights to fulfill critical requests ranging from USD 10,000 to 25,000.

Flight Donation Program

AeroAngel's goal to partner with more children's hospitals and provide more flights for children with serious medical needs is only possible by acquiring a light business jet (such as the Phenom 300 series) and new partners. By expanding its unique flight donation program, AeroAngel can serve more of the 250 children's hospitals nationwide.

Become a Jet Donor

Becoming a jet donor is as simple as letting AeroAngel know your interest in flying a mission. While striving to fit into an owner's existing schedule, AeroAngel handles all passenger communication and coordination, including flight logistics for the trip. With most flights, an AeroAngel volunteer will meet the passengers before departure; in some cases, a medical volunteer will accompany the passengers on the flight.

To take the next step toward a mutually beneficial partnership, contact Mark Pestal, AeroAngel's Founder & Volunteer Executive Director, at: (303)-548-3426 or by email: mark@aeroangel.org. More information is available at: aeroangel.org



Left: AeroAngel recently flew Eliana and her parents, Bernie and Kaylee, to Boston Children's Hospital to receive heart surgery

Above: The foundation of AeroAngel's flight program is built upon flights donated by jet owners across the country

Having an anti-ice system that utilizes engine bleed air on all leading edges has given me a higher comfort level when operating in icing conditions, knowing that the tailplane is kept completely free of any residual ice.

The Phenom 300's wing design combined with gross weight helps to noticeably dampen the effects of turbulence, which is particularly beneficial for flights in and near the Rocky Mountains.

Sustainability is a major topic within the aviation industry. How does AeroAngel intend to make positive changes and reduce its impact on the environment?

Resource stewardship is part of our corporate culture, whether it be financial or environmental. We're in the early stages of developing a multi-prong approach to achieve the goal of our flights being emissions neutral.

To start, operating newer aircraft like the Phenom 300 makes meeting that goal more readily achievable. With the greater availability of sustainable aviation fuels, this will further complement our program.

The next step is to develop an environmental stewardship program. One of the corporate flight departments that donates flights to AeroAngel on its Phenom 300 based in Chicago is developing its own sustainability program. Initially, their plan is to offset the carbon footprint of their donated AeroAngel flights through the purchase of carbon offsets. This beta case will hopefully provide a model that we can share with other jet donors in the future.

Given that we are a relatively small organization, we are looking to partner with 4AIR, which has developed unique turnkey programs to assist those in the general aviation sector

in implementing a comprehensive, verifiable sustainability program. What is very appealing about 4AIR's program is its simplicity and ease of implementation, which will not slow our commitment to building our unique flight donation program.

While we are working on expanding funding to do more flights, we are looking to provide an opportunity for individuals and companies to donate carbon offset credits that we can apply to our flights, including past flights.

Once developed, we believe that a demonstrated commitment to environmental stewardship in our operations will be as valuable to our donor community as our Gold GuideStar rating. Yet, much more importantly, it will be the contribution we make toward creating a better and healthier future for the special passengers we fly. ←



OUT OF THIS WORLD

In a world-first, Space Perspective is on a mission to give intrigued travelers a new perspective on planet Earth, promising a safer, more comfortable, carbon-neutral stratospheric experience

“We lived sealed off from the Earth for two years,” said Jane Poynter, Explorers Club Fellow and Founder and CEO of Space Perspective, recalling her time spent in prototype space base Biosphere 2 with Co-founder Taber MacCallum. “We knew, moment by moment, that our oxygen was coming from the plants around us, and the CO2 we exhaled was making the food that we ate. We could see the edges of the tiny world we built. It was so fundamentally visceral. We recognized more powerfully than ever that we are all part of our planetary biosphere on Earth as one human family—and we knew that we needed to get as many people as possible to space to have this transformative experience.”

Poynter and MacCallum’s revelation led to the foundation of Paragon Space Development Corporation, which creates thermal management and life-support systems and has technology on every spacecraft in operation today. “Paragon is where we first worked with our team on StratEx,” shared Poynter, “which demonstrated

the viability of using balloons to gently lift people to space. Now, here we are at Space Perspective to democratize human spaceflight.”

Space Perspective’s craft, due to begin commercial flights in 2024, utilizes a combination of technologies to reach the edge of space—a world-first in carbon-neutral space travel. It starts with the SpaceBalloon™, a recyclable vessel filled with 18 million cubic feet of hydrogen, a volume large enough to comfortably fit a sports stadium inside. Below that is an innovative spherical capsule named Spaceship Neptune, surrounded by the largest windows ever flown to space. It’s fitted with a comfortable, spacious interior large enough for eight passengers, a pilot and a bar. This is not the cramped, restricted experience of other space tourism operations: Space Perspective’s six-hour flight—rising for two hours at 12 mph and spending a further two hours at its 100,000 feet apogee—is a comfortable and calm experience which requires no training or physical fitness beyond the ability to board the craft.

“We have rewritten the engineering playbook to create a carbon-neutral, zero-emissions journey to space without g-forces or rocket fuel.”

This truly is a democratized view of space; its price is less than a third of competing alternatives, and the journey is one of serenity rather than adrenaline. “Every aspect of the experience we’ve designed is gentle and safe, including the impact on the environment,” explained Poynter. “We have rewritten the engineering playbook to create a carbon-neutral, zero-emissions journey to space without g-forces or rocket fuel.” Space Perspective is a company bucking the space tourism trend of fuel-hungry launches. Instead, it utilizes responsibly sourced hydrogen to fill its SpaceBalloons™, powering its marine recovery vessels with bio-diesel, and partnering with Cool Effects to offset the carbon output of its entire company operations.

Even the spacecraft is built with a commitment to sustainability. Space Perspective says every component of the vehicle is recoverable and its reserve descent system has, like that of the balloon technology, been flown and tested thousands of times. The company has developed a splashdown cone that ensures a soft water landing and ensures the capsule is entirely reusable—and while the lifting portion is necessarily single-use, it can be recycled and, indeed, the capsule’s luxurious bar top is crafted from material sourced from previously flown SpaceBalloons.

Space Perspective’s direction is not only pointed at the personal revelations that come from breaching the atmosphere and seeing Earth from space, or even its sustainability angle. The company pitches its unique vehicle (and, more importantly, its place in the stratosphere) as the world’s first laboratory at the edge of space. “Spaceship Neptune offers unique opportunities to researchers. We anticipate having research instruments on every flight performing ground-breaking research such as atmospheric and climate science, astro and solar physics, astrobiology, astronomy and so on,” explained Poynter.

It is likely that there will be ample opportunity for such science to occur. Space Perspective anticipates that a Spaceship Neptune capsule will be able to make around 50 ascents per year following its 25-flight schedule for 2024. One capsule may not be the end of it either; in addition to the company’s existing base of operations at Florida’s Kennedy Space Center, they have recently revealed plans for MS Voyager, the world’s first marine spaceport. The industry-changing breakthrough will allow Space Perspective to quickly reach a global scale by offering flights from nearly any waterway in the world.

“Imagine,” said Poynter of the company’s potential for global expansion, “one year seeing the incredible view over the Bahamas where land and sea meet—a view astronauts point to as one of the most incredible things to see from space—and then watching the aurora borealis from space on your next journey.” This may be the most sustainable and achievable way to truly see the world in all its glory. ←

Left: Spaceship Neptune is lifted to space, propelled by renewable hydrogen, with no rockets and none of the associated carbon footprint

Below: The pressurized, roomy capsule’s lounge allows Space Explorers to experience the majesty of gliding through space while sipping their beverage of choice



DIVING DEEP

Stockton Rush was the youngest type-rated jet transport pilot in the world when he qualified at just 19 years old, launching a career path that placed him in the pilot's seat in the air and the deep ocean. As his passion for ocean exploration grew, Rush founded OceanGate Inc., now a leading provider of crewed submersibles for charter and scientific research, and OceanGate Foundation, an independent nonprofit that makes grants in support of emerging marine technologies that further discoveries in marine science, history and archaeology.

You've flown aircraft and descended more than 13,000 feet beneath the ocean. What do you get from being able to travel to such heights and depths, personally and professionally?

When you're piloting, you're making decisions in real-time about the weather or take off, all kinds of things. A lot of the aviation stuff changed my level of self-confidence. In the plane, you have to be the solution to the problem and are in turn very dependent on the systems around you. You understand that you get a good outcome if you follow the process. Panic doesn't help you—you have to stay cool. In the sub, things look different, sound different and smell different. It's an alien world, and you make real discoveries because no one else has been there before. When you're down in the sub, it's your machine. While it is true you have support on the surface, ultimately, you need to find solutions and decide whether to go forward on a wreck, back to surface or work around the problem. I see every problem as an opportunity and enjoy looking at these things and solving them bit by bit.

Can you share where your passion for flying came from?

How did you channel this passion into qualifying in aerospace engineering?

At age 16, I wanted to be an astronaut and the first person on Mars. A friend of my father, Pete Conrad—who captained Apollo 12 for The Sixth Mission: The Second Lunar Landing in 1969—told me that if I want to be an astronaut, I must learn how to fly because most astronauts are test pilots. And that's what I did.

What I love about flying is landing at a little airport in a little town in the middle of nowhere and just exploring. Without my passion for being an astronaut, I would never have made it through engineering. Looking back and knowing what I know now, I should have done marine engineering or marine biology because I ultimately wanted to be more of an explorer than an astronaut.

At what point did you develop this passion for the marine world and decide to venture into subsea exploration?

I started scuba diving when I was 14 but only did warm-water diving (with no wetsuit or a very light one). I love that freedom of scuba diving. When I became more interested in ocean exploration, I took a cold-water dive

class on Vancouver Island. Suddenly, I had this dry suit with all this gear and weight, and it felt like I was wearing my submarine! I hated all the gear. So, I decided to go online and find a sub to rent, but I ended up buying an unfinished sub instead. I bought it from a friend in London who knew I had built my own plane and had the skills to complete the sub. That first time in the sub was an epiphany. It was just so different. I spent two hours watching crabs fight. Then, when you come to the surface, it's like you have come up to a new planet. After the first dive, I thought more people must go into the sub...to understand the underwater environment. It's the only way we'll get people to give the ocean the research, exploration and consideration it needs.

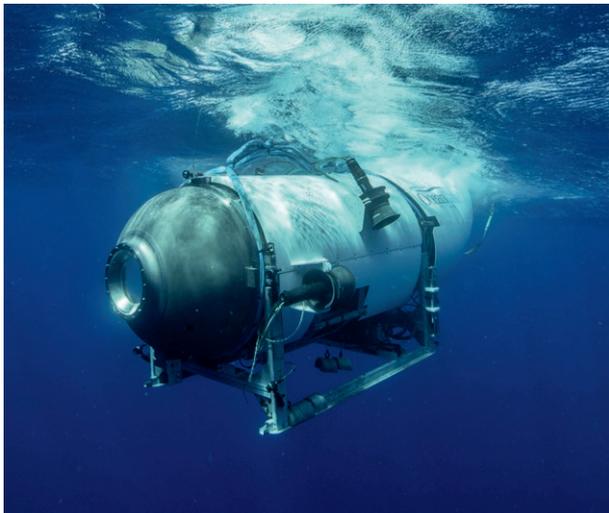
You founded OceanGate back in 2009. What was your vision? And can you tell us about a few of the organization's most prominent subsea expeditions?

When I decided to get people underwater, I abandoned the idea of space exploration and started looking at my options. I found researchers who wanted to go into subs, and I knew people who wanted different travel experiences and were paying to visit archaeological sites. I thought

INTERVIEW Margaux Daubry, WORDS Debbie Hathway, IMAGE Courtesy of OceanGate Expeditions



Stockton Rush is CEO and Founder of OceanGate, a leading provider of crewed submersibles for charter and scientific research



EMBRAER TIP

With its generous cabin space and revolutionary interior, the **Phenom 300E** offers plenty of head and legroom—providing comfort for your travel to St. John’s, Canada.

maybe there was a crossover there. So, I commissioned a marketing study and found that people with money could support researchers and have an exploration experience. That was the differentiator. In the end, the RMS Titanic was what everybody wanted.

OceanGate Expeditions’ research of the Titanic and surrounding areas has confirmed that bacteria are eating the iron and creating rusticles. So, it’s not rusting; it’s being consumed. At some point, it will be unrecognizable as the Titanic, but it will remain an artificial reef for centuries. We have taken seawater samples that will allow us to analyze the environmental DNA on the site and better understand what animals live there.

What led to the formation of the OceanGate Foundation in 2012? What are the most significant discoveries by the Foundation in marine science, history and nautical archaeology, and what learnings have they brought to the world?

I started the Foundation to support ocean research, share our discoveries, and inspire people to learn more about the ocean. Today, the Foundation is helping to facilitate and fund research on several sites around the world.

Recently, we completed a first survey dive of a natural reef we found near the Titanic. The reef is 66 feet high, about 330 feet long and is covered in corals and sponges. There were glass

sponges three feet in diameter, fan corals, rattail fish, shrimps, and squat lobsters on this ridge that nobody had ever visited. The science team is studying every frame of every video and still image taken on that dive to come up with a statistical analysis of what was there. And that’s not cheap. So, the Foundation is doing a matching grant to the University of Edinburgh to allow these learnings to happen. The biologists are super excited. They hope the UN will designate the reef as an environmental hotspot so it can hopefully get some recognition and protection.

What have been the most life-changing extreme adventures in your career?

In 1989, when I was in my 20s, I built a Glasair III experimental aircraft. Flying it for the first time has got to be one of many life-changing adventures.

I also owned a float plane for several years. I had some amazing experiences flying with my son when he was young. Once, we landed in a mountain lake when a cloud layer came in. We were about 9,850 feet above sea level and fogged in. What was supposed to be a one-night adventure with the family dog was extended for a few days, but we survived on granola bars until the fog lifted enough to take off and return to Seattle.

Also, my first subsea dive to 13,100 feet was a lifelong dream. I had wanted to be [like] Captain Kirk, exploring space,

and here I was in the sub all alone. I had lost communication with the surface, but I was going to get to 13,100 feet. This was the test dive. And I had to be in the front of the dome, with the lights on, cruising down, and I could see all these particles they call marine snow. I was diving into something that looked like it was out of “Star Trek” with screens up and these “stars” (particles), and I realized this was my dream. This is what I wanted to do. It was a fantastic experience.

In your opinion, what’s the role of ocean investment in fighting climate change?

Ocean investment is key to fighting climate change. If you don’t understand how the ocean responds to increased temperatures and changes in weather patterns, you can’t get your head around what’s happening on land. For example, one of the biggest challenges of diving to the Titanic is that other than surface currents, we don’t know what the current is on the way down. Two-and-a-half miles of water might have shifted 20 or 30 degrees the day after the first dive. The amount of energy it takes to do that is staggering. And that says nothing about these deep-sea, cold corals and weird creatures in the mid-column that live there. We don’t know what’s happening down deep. To understand the Earth, the climate, the future of our food supply, and everything, we need more research. ◀



Left: Lighter in weight and more cost-effective to mobilize than any other deep diving submersible, Titan is designed to take five people to depths of 13,123 feet

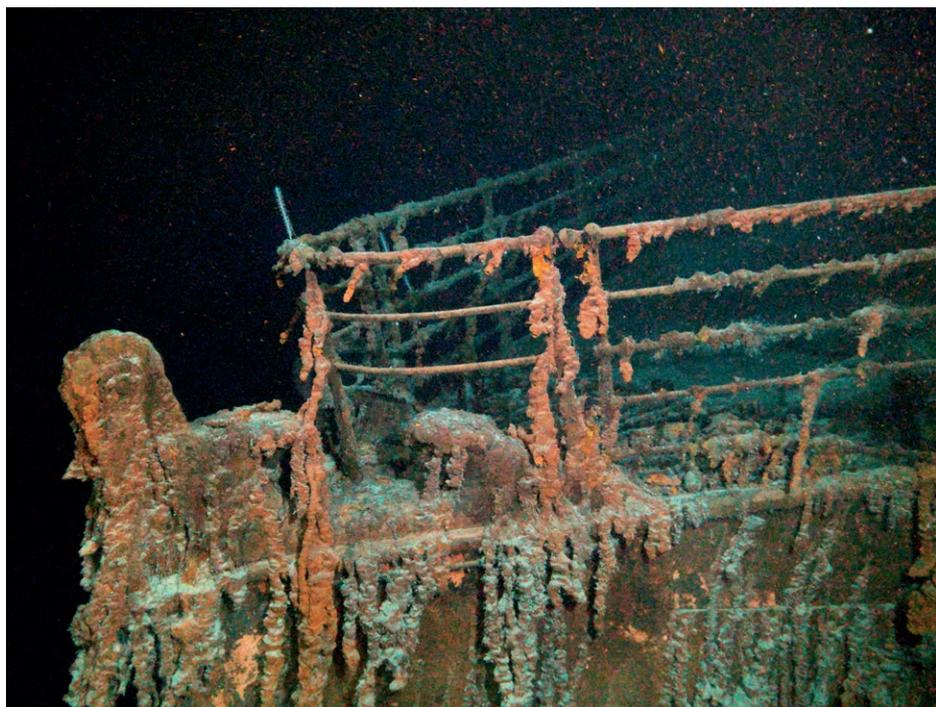
Above: Qualified explorers have the opportunity to join OceanGate Expeditions as Mission Specialist crewmembers to conduct scientific and technological surveys

Below: OceanGate Expeditions continues to return annually to further document the Titanic and the ecosystem that has made the artificial reef its home

EMBARK ON A CREWED MISSION TO THE HISTORIC TITANIC SITE

From May to June 2023, you can be one of less than 300 people, since the discovery of the wreck over 35 years ago, that have ever dove to and explored the wreck of the RMS Titanic. There are five planned eight-day expeditions during that period in which explorers will sail from St. John's, Newfoundland, Canada, to the dive site that lies 380 miles offshore and 12,467 feet below the surface. The experience includes one submersible dive, accommodations, all required training, expedition gear, and all meals on board.

For more information, visit:
oceangateexpeditions.com/titanic



PRAETOR AIRCRAFT TRAINING EXPANDS

Both the Praetor 500 and Praetor 600 offer a level of commonality to allow a pilot type-rated on one also to operate the other

With more than 200 aircraft in the Praetor platform in operation, the demand for training has grown. There are currently two full-flight simulators (FFS) available through FlightSafety International, and a third FFS will begin operation in the second quarter of 2023 in Orlando, about one hour from the Embraer Executive Jets headquarters in Melbourne, Florida.

There are now more than 5,000 Praetor pilots since Embraer partnered with FlightSafety in 2015. “With Praetor jet deliveries increasing consistently, we have realized the need to offer additional capacity for training to our customers worldwide. The new full-flight simulator will provide Embraer’s customers with the latest technological aircraft updates, bringing the highest level of service to the market,” said Johann Bordais, President & CEO of Embraer Services & Support.

The FFS is currently located at FlightSafety International locations in Dallas, Texas, and St. Louis, Missouri. Orlando was chosen as it has a high concentration of aircraft and operators, offers a comprehensive network of hotels and attractions, and is easily accessible from domestic and international locations.

“FlightSafety is pleased to offer expanded capacity at a customer-centric location for the growing fleet of Praetor operators,” said Nate Speiser, Executive Vice President of FlightSafety Sales and Marketing. “This program is a key element of our 33-year relationship with Embraer on aircrew training,” he continued. ←



To learn more about Embraer's Services & Support, scan this code.

“The new full-flight simulator will provide Embraer’s customers with the latest technological aircraft updates, bringing the highest level of service to the market.”

PRAETOR 600
BY EMBRAER

FlightSafety
INTERNATIONAL

Simulation



A large, rugged rock wall made of dark grey and brown stones. At the top, a single palm tree stands against a clear blue sky. In the foreground, a black metal railing runs along the edge of a ledge, with several green plants growing in a planter box. The scene is brightly lit, suggesting a sunny day.

INSPIRATION

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FOOD FROM THE HEART

Leonor Espinosa has just been crowned the best female chef in the world, but her real passion lies in working with indigenous people in her native Colombia





WORDS: Melissa Twigg, IMAGES (left page) © Felipe Pardo, (right page) © Jorge H. González

Would you care for some mojoy larvae fresh from the jungle, or would you prefer a few big-bottomed ants from Santander? Or how about tasting mocambo, coquindo or cacay seeds foraged from the Amazonas?

These are questions that you might reasonably be asked at Bogota's restaurant Leo. Here, the hugely talented Chef, Leonor Espinosa, combines an array of flavors and cooking traditions from around Colombia while encouraging diners to use more of their senses by creating meals that look as spectacular as they smell and taste.

This trailblazing Colombian has also been named the World's Best Female Chef at the World's 50 Best Restaurant awards gala in London, in 2022. For Espinosa, it was a great accolade—although the most important work of her career will always be centered in the South American country she calls home. Her commitment to preserving Colombian

heritage is what sets her apart from many of the innovative chefs around the world and has made her one of the most talked-about restaurant owners in the Americas.

Her success is also illustrative of how much power there is in sometimes keeping to local traditions. As globalization brings Japanese food to Nairobi and Peruvian food to Paris, Espinosa is choosing to keep her focus firmly on what's happening at home.

Happily, home for Espinosa is one of the most extraordinary places on Earth. Raised in the colorful Caribbean-facing city of Cartagena, she has traveled the length and breadth of the country from the humid Amazon basin to sun-drenched coffee bean fields to learn about long-standing food traditions and regional delicacies. Meeting people from these communities made her realize not only how many incredible ingredients were being slowly forgotten about but also how forgotten these people were by the government.

Left: Leo's Sommelier, Laura Hernández-Espinosa, with her mother and award-winning Chef, Leonor Espinosa

Above: Chef Leonor Espinosa builds a new narrative of Colombian gastronomy exalting the biodiversity of the territory



Above: Leo offers a journey through the biocultural richness with tasting menus in two spaces: La sala de Laura and La sala de Leo

Below: Leo's tasting menu offers esoteric and exciting delicacies from all over Colombia, including the occasional crunchy ant



EMBRAER TIP

With its generous cabin space and revolutionary interior, the **Phenom 300E** offers plenty of head and legroom—providing comfort for your travel to Bogota, Colombia.



“My kitchen makes cultural territories visible, which envelop culinary magic, knowledge and flavors,” said Espinosa. “Not only the potential the territories have at a gastronomic level, but also the potential that the country has in terms of its natural wealth, traditions and the worldviews of different communities.”

Central to her menus are the unusual ingredients that have been sourced from around Colombia—ingredients she now acquires through an NGO that she has been funding since 2008. Called FunLeo, the organization is committed to working with ethnic communities around Colombia—a country that is home to 87 indigenous communities and 51,330 species of flora and fauna, which makes it the second-most biodiverse country in the world. Alongside sourcing food from around the country, FunLeo gives social and financial support to people living in remote Colombia.

“All chefs should be obliged to participate in reducing economic and social conflicts and confronting the terrible production, trade and consumption policies,” shared Espinosa. “I want to create a type of cuisine that uses ingredients to generate social cohesion in invisible communities.”

“I want to create a type of cuisine that uses ingredients to generate social cohesion in invisible communities.”



Top: La Sala de Laura's cocktail selection is based on the "Territorio": seven different distillates that are based on Colombia's myriad ecosystems

Bottom: Espinosa's love of anthropology, contemporary art and culture is evident in both her cooking and the restaurant itself

RECIPE FOR CHANGE



FunLeo is a nonprofit organization that seeks to identify, claim and empower the culinary traditions of Colombian communities based on their biological and intangible heritage. Started in 2008 by Chef Leonor Espinosa, FunLeo works with a specialized team of anthropologists, chefs, researchers, bearers of tradition, historians, and volunteers across Colombia to protect ancestral culinary knowledge, support local production and sustainable agriculture, improve nutrition in vulnerable communities, train local chefs and develop culinary products.

To learn more and to find out how to support FunLeo in implementing gastronomic projects throughout Colombia, head to: funleo.org

This work is her passion, and the results she has created are particularly impressive if you take into account the fact that Espinosa only entered the culinary world at the age of 35. Prior to that, she worked in advertising and only swapped her suit for a chef's hat when she realized there was nothing else she would rather be doing than cooking.

“After several years working in the corporate world, I took a break along the way,” she said. “I understood that the true path was my origins and the experiences lived both in my childhood and with my studies in fine arts, which made me understand that art goes beyond what's in a museum. My kitchen began to emerge from these other perspectives.”

Unlike most restaurateurs, Espinosa was busier than ever during the lockdown. Though forced to shutter the restaurant temporarily, she decided to use the break to entirely refurbish her establishment and create two dining spaces under one single roof: La sala de Laura and La sala de Leo—Laura Hernández-Espinosa, being her daughter who has been a long-time sommelier at her restaurant.

The pair is very close, and this entirely female-run restaurant feels very refreshing in a country where haute cuisine has always been a male dominion. “I believe that women grow by breaking paradigms and entering a world which historically has not belonged to us,” said Espinosa. “And symbolically, cooking has no gender. The most important thing is [about] revealing those hidden flavors and the stories behind each one of the ingredients that I use in my kitchen.” ◀





RESIDENCES FOR RETREAT

Created for more than just occasional leisure, traditional holiday destinations are becoming home for good with an increase in demand for architecturally designed homes in remote locations that work with the landscape and embrace sustainability

What makes the perfect holiday home? For Scandinavians, it's often a summer cottage on a windswept archipelago; the British tend to favor somewhere hot—Spain, Italy, Greece; for Americans, Hawaii, the Caribbean and Baja California are gold standards. But regardless of culture, climate and topology, the perfect retreat must offer escapism, excitement and rejuvenation in all its forms.

No one understands this quite like Walker Warner Architects. The San Francisco-based practice has spent more than two decades creating retreats on the magical Pacific coast from the Bay Area to Baja, Mexico. Founding Partner Greg Warner grew up in Hawaii, so he was a natural fit when nearly 20 years ago, a client asked for a holiday home on Big Island. Since then, Walker Warner has created homes all over Hawaii, from Maui to Kauai. But this is not without its challenges. Walker Warner Partner Kathy Scott explained: “The communities in Hawaii are often smaller and more isolated than the ones we work with on the mainland. Design collaborators are limited, and everything needs to be shipped in

from elsewhere, so planning is key to lining up resources in a timely manner. We've also understood our role as mainlanders, trying to listen and respect the local culture so that we're not imposing design ideas from elsewhere that don't make sense for the local community.”

Hawaii's exquisite beauty comes with intense UV, humidity and salt air that can take its toll on materials and systems. Over the years, the architects have learned what is durable and lasting. “The homes we design in Hawaii must accommodate the hot and humid climate, so we prioritize air flow and physical and visual connections to the ocean (*makai*) and mountain (*mauka*) sides of a property,” said Scott. “In mountain areas, it's important to look for ways to provide cozy, comfortable spaces that aren't impacted by intense UV and temperature differentials at high elevations.” Kua Bay Residence on Kona is a case in point; through its direct connections to the volcanic landscape and dramatic vistas of the Pacific Ocean, it embraces the spirit of *mauka-makai*—the symbolic flow of lava from mountain to sea.

Left: In harmony with its surroundings along the coast of Mexico, this vacation home embraces beauty and durability

Above: The courtyard acts as the heart of the home, blending the lines between indoor and outdoor living while framing expansive views of the Pacific Ocean

Northern California, with its wildflower-laden bluffs and churning Pacific, is also a siren call to many who crave an escape in nature; Walker Warner’s Coastal Retreat, designed for a couple from Massachusetts, marries traditional Cape Cod architecture—peaked roofs, shed dormers and white trim—with streamlined minimalism. The architects toyed with traditional lines, designing the asymmetrical gables and minimal window frames, fusing two styles with striking results.

Who wants the effort of running a second (or third, or fourth) house when they’re on holiday, especially when they’re without guests? Vacation homes need to be adaptable; day to day, their occupants need to be able to live in just a few rooms. When the party starts, however, these spaces need to open up and welcome arrivals with open arms. The Oak Woodland Residence in the San Francisco Bay Area is organized into flexible public and private zones. Mike McCabe of Walker Warner explained, “The private parts of the house are about retreat and family time, while the public parts allow them to mingle with their guests and enjoy all the site has to offer,” which is a lot, given the forest of majestic 80-year-old oaks on its doorstep.

At a holiday home in Baja for a family with four children, the primary suite can be closed off with metal-studded doors when the owners seek refuge, but its color-popping interiors by San Francisco-based Interior Designer Ken Fulk, scream party pad when the mood requires it. Built to withstand seasonal storms and hurricanes along the coast of Mexico, the vacation home is equally beautiful

“Now more than ever, we’re being asked to think about the lifecycle of a building and ways to minimize resources needed to maintain them over time.”



Above: The mountain side of the Kua Bay Residence is cut into the lava field to limit its visual impact and establish privacy from surrounding neighbors

Left: Situated along a rugged stretch of coastline, the Kua Bay Residence embraces the spirit of mauka-makai—the symbolic flow of lava from mountain to sea



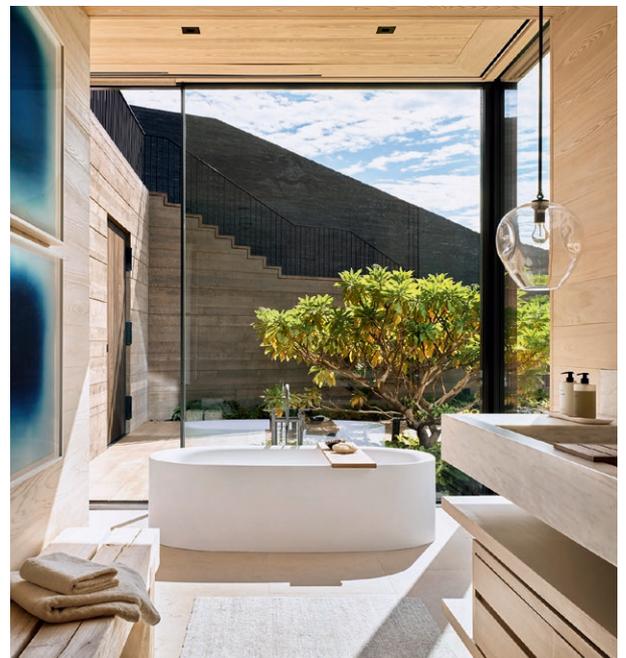


Above: Walker Warner's Coastal Retreat in Northern California reinterprets classic Cape Cod architecture while expressing more modern interiors

Below: Sitting boldly along the Hawaiian coastline, the Makena Residence is designed to balance openness with privacy, and sunlight with shadow

and structurally durable, with sand-colored concrete walls that reflect the light as the sun shifts. By respectfully reinterpreting traditional Mexican indoor and outdoor living, the courtyard is the heart of the home, framing the Pacific Ocean and integrating into the natural coastal environment.

Climate change is driving stricter requirements and higher levels of oversight from local communities, and not just in Hawaii. "On Kauai, recent flooding has caused the need for buildings to be elevated one story above ground, and sites must now be designed so there's no impact on existing drainage patterns," said Scott. Clients, too, are eager to embrace sustainable design strategies. The firm's Makena Residence is cooled by Hawaiian ocean breezes flowing through open windows while roof overhangs and high-performance glazing stop the house from getting too hot. Good insulation is a key feature, and photovoltaic panels and copper mesh rain curtains on the roof manage solar energy and rainwater run-off. All of these measures have led to a LEED Silver certification.



"Now more than ever, we're being asked to think about the lifecycle of a building and ways to minimize resources needed to maintain them over time," said Scott. "This translates directly into sustainability." Since the pandemic, she has seen more demand for homes in remote locations as people realize they can work from anywhere. And when we can live and work remotely in amazing places, why have a vacation home just for vacation? <

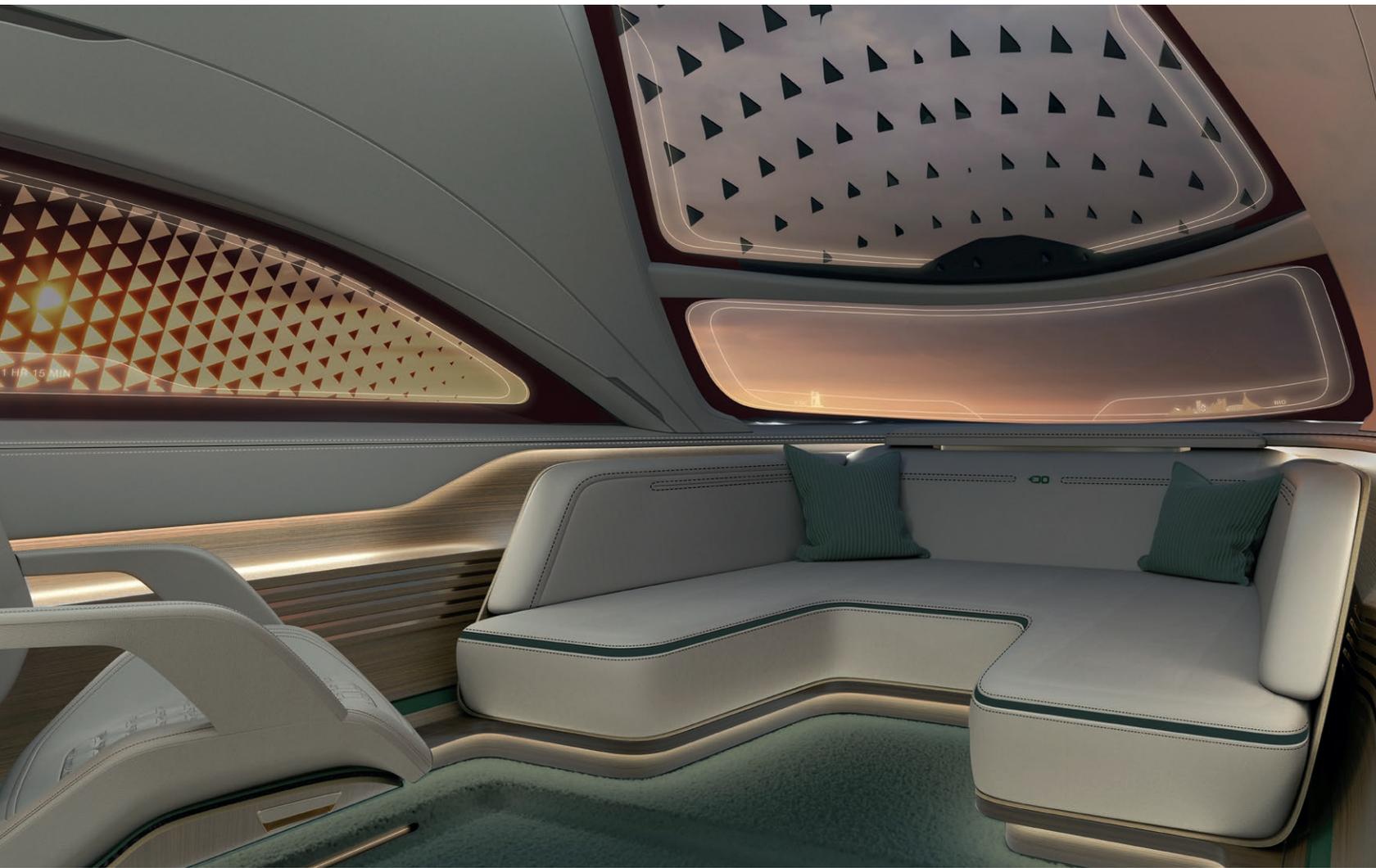
THE FUTURE OF AIR MOBILITY

As an industry leader, Embraer's innovative mindset continues to disrupt the aviation status quo with a bold concept that inspires the future of private air travel



To view more about Embraer's vision for the future of private air travel, scan here.

Travelers are prioritizing a healthier, greener and more efficient flight, driving Embraer to innovate and deliver the ultimate experience in business aviation.



Left page: With a range greater than 4,200 nm and 0.92 MMO, this aircraft enables travelers to go further and faster than ever before

Above: Embraer's provocative concept includes a fully autonomous, three-cabin zone medium cabin jet, including a forward lounge in lieu of a cockpit

The air travel ecosystem continues to evolve into a lifestyle travel experience. Travelers are prioritizing a healthier, greener and more efficient flight, driving Embraer to innovate and deliver the ultimate experience in business aviation.

As Embraer looks ahead to the coming decades, we invite you to immerse yourself in a daring idea of what the future of air mobility could look like. Getting from where you are to where you want to be will never be easier, and the experience from sky to ground will be seamless.

AN INSPIRING NEW CONCEPT

Demonstrated by the evolution of our Paradigma concept, Embraer's latest aircraft concept teases disruptive technologies, sustainability-led design, and green innovations that may one day make it into the company's product portfolio, but today, serves to inspire the industry to think boldly about the future of private air travel. This provocative

concept includes a fully autonomous, three-cabin zone medium cabin jet, including a forward lounge in lieu of a cockpit.

Following Praeterra's approach, combining what's digital with sustainable materials, this mindful interior introduces disruptive technologies, such as smart windows, that will inspire the most digitally connected and comfortable in-flight experience.

Maximum efficiency will be achieved through innovative aerodynamics and tandem engines that fly on 100% sustainable propulsion, reinforcing Embraer's commitment to mitigate the carbon emissions associated with business aviation. With a range greater than 4,200 nm and 0.92 MMO, this aircraft enables us to go further and faster than we ever dreamed possible.

At this point there are no commitments from Embraer Executive Jets to develop and manufacture the presented aircraft. ←

SPIRIT OF EXPLORATION

Internationally recognized Photographer and Director Mark Fisher sets off on remote expeditions to capture fleeting yet vivid moments of movement, which he reveals through his distinct landscape and action photography

In the photograph “Magic Kingdom,” a lone skier glides down a smooth mountainside towards looming dark shadows and a glacier below after landing a perfect flatspin 360.

“The ‘in-between’ moment [is] where authenticity is most vivid. I try to capture the scale of the environment as well as the immensity and audacity of the activity,” reflected Mark Fisher, U.S. award-winning landscape and action photographer. With a small subject frame, the balance of simplicity and contrast lures the viewer to appreciate the sheer “scale and significance of the moment,” he explained. “The human element gives context to the landscape. It’s almost jarring in the sense that the human element is out of place.”

The black-and-white image earned a coveted place in Gail Buckland’s book: “Who Shot Sports: A Photographic History, 1843 to the Present,” featuring Fisher alongside the greatest photographs and photo-graphers from the past 150 years.

Nearing two decades as a professional, Fisher has climbed Gamlang Razi in Southeast Asia to produce the award-winning film “Myanmar: Bridge to Change,” filmed a three-part series on Ben Fogle and Victoria Pendleton for CNN and appeared in over 75 publications and 10 books. Adventurous by nature, Fisher even climbed Mount Everest with

two weeks’ notice to film an entire documentary single-handedly.

Accustomed to life abroad, Fisher spends months on the road and on assignment. The physical challenge is staying fitter, faster and carrying more gear than his subjects—who are professional athletes. “My years working as a mountain guide helped hone my skills because the basic ‘stay alive’ elements of remote expeditions must be second nature so I can focus on my craft.”

Behind the lens, editing forms a crucial component of Fisher’s work, which leans towards black and white with a focus on contrast, tone, grayscale, and composition. “There is so much nuance in an image...It could be a hand position, the arc of the turn, the moment the subject is experiencing in the frame, the spray of the powder,” he shared.

Influenced by his extensive travels, Fisher continues to extract inspiration from the simplicity of the natural world and the different cultures, food and people he experiences. “I try to communicate about our fleeting and tenuous existence, the power of nature, the power of the human spirit, and the spirit of exploration. I hope my images inspire people to push themselves towards a rich life and take risks, while also appreciating and loving the wild places and adventure that exists on our planet.” ◀

Check out more of Fisher’s work at: fishercreative.com



"Magic Kingdom," 2010. Sage Cattabriga-Alosa skiing near Petersburg, Alaska, as he executes a flawless, natural flatspin 360 over a huge crack and continues down through the heavily crevassed and steep glacier below. This photo was featured in Gail Buckland's book: "Who Shot Sports: A Photographic History, 1843 to the Present."



"Playground," 2013. Sage Cattabriga-Alosa—arguably one of the most talented, diverse and graceful skiers in the world—getting creative on skis in big terrain in the Neacola Range, Alaska.



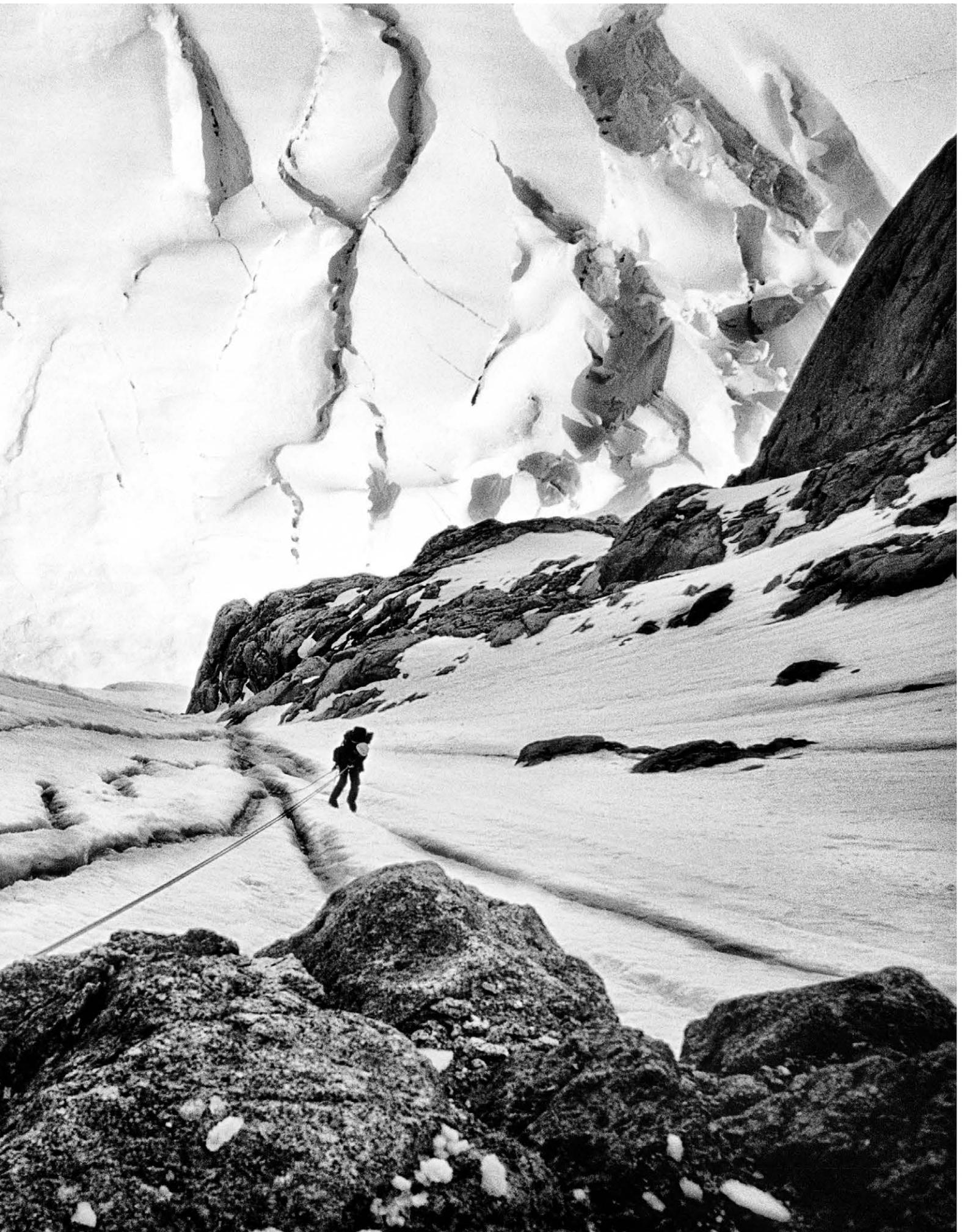
"Speed," 2012. Professional big-mountain skier Todd Ligare as he outran his sluff towards the bottom of a huge face in northern Chugach, Alaska.



"Grace," 2010. Sage Cattabriga-Alosa shredding near Petersburg, Alaska.



"Descent," 2002. During Mark and CJ Pearson's first and unsuccessful attempt to climb the Cassin Ridge of Denali, CJ rappels down the lower section of the Chicken Couloir on the West Rib climbing route in Denali National Park, Alaska.





POWER FOR GOOD

After recently celebrating her first year as Head of Corporate Social Responsibility and the Embraer Foundation, Monica Newman McCluney reflects on the Foundation's impact and key milestones for 2022 and shares a bold vision to support the future of the aviation industry through equitable, mission-aligned programs



Corporate Social Responsibility has changed dramatically since its inception. Can you tell us about your current responsibilities? What does this role mean to you?

Corporate Social Responsibility (CSR) has evolved since its inception, but the core of its purpose has remained the same, to be a power for good. In today's corporate climate, it is simply the way we do business.

As Head of CSR and the Embraer Foundation, I am responsible for all U.S.-based corporate social investments and community grants,

employee engagement through volunteerism, and mission-aligned programs across education, aviation, sustainability and diversity, equity and inclusion. I manage the day-to-day operations of the Embraer Foundation, provide strategic guidance to its officers and directors to ensure the Foundation remains in compliance and is achieving its mission, and that all administrative functions are properly managed and documented. In addition, I serve as the Embraer Foundation liaison to external communities globally, to Embraer subsidiaries and all departments and employees company-wide.

The CSR role at Embraer is an opportunity to connect the framework of CSR and the emergence of ESG to drive consumer and employee choice. Most importantly, it is an opportunity to help develop the next generation of aviation industry professionals. I think it is this part of my role that excites me most each day.

You recently celebrated one year as Head of CSR and the Embraer Foundation. What are you proud of achieving this past year?

It is hard to believe that one year has come and gone so quickly. The Embraer Foundation has achieved some incredible milestones this past year, from a complete operational realignment to expanding our base of grant-funded community partners.

The increased visibility of the Embraer Foundation across communities nationwide through our local and national grant programs has made an impact in the communities where our employees live and work and throughout our mission-aligned sectors. Still, the achievement I am most proud of this year, is the Embraer Educational Partnership Program (EPP).

EPP is the first of many new programs providing social investment through scholarships, grants and employee volunteer hours to select aviation high schools, technical colleges and universities throughout the U.S. Through EPP, Embraer is implementing an industry-focused scholarship and internship program to inspire and recruit students into aviation careers. This structured program provides Embraer the opportunity to hire entry-level talent and retain a more diverse workforce, which are key components of Embraer's environmental, social and governance commitment.

Additionally, Embraer employee volunteers will visit each school to provide academic support and serve in an advisory capacity related to the school's aviation curriculum. Other benefits—dependent upon location—include hands-on training programs and on-site visits to Embraer's Melbourne, Florida campus.

What are some exciting new projects for the Foundation for next year? What's your long-term vision for the Embraer Foundation?

One of the most exciting projects the Foundation has launched is with the Embraer Design Operations team, who recently collaborated with Senna Brands and Metalcrafters Inc. to bring to life: The Senna Cockpit. This special-edition iteration of Embraer's Paradigma office chair is inspired by the enduring spirit of Ayrton Senna, the iconic Brazilian Formula One race car driver. Influenced by our 50-plus years of aerospace expertise, this chair is designed to take "drive your truth" to a whole new level, backed by sustainable design solutions, exceptional ergonomics and Embraer's disruptive Design DNA. Only 22 of these chairs will ever be produced, with Embraer's proceeds going to the Embraer Foundation.

Throughout the next year, the Embraer Foundation will also co-host a number

of aviation and STEM-based outreach events, including Girls in Aviation Days and Embraer Aviation Days at the Airport. The outreach events are targeted to middle school and high school students, with a core focus on girls and minority youth, in an effort to expose them to the vast number of opportunities across the aviation industry. These events will take place throughout the country, coast to coast, with community partners like the National Aviation Hall of Fame, Experience Aviation, Aviation Community Foundation, Eagle Mount, and Women in Aviation.

My long-term vision for the Embraer Foundation is to ensure the future of our workforce by fostering innovation in education, aviation, sustainability and diversity, equity and inclusion. We will continue to do this by inspiring the next generation of aviation industry professionals through impactful workforce development programs, developing outreach programs that elevate underserved communities and by building internal pathways that strengthen our diverse employee pipeline.

What are some of the challenges you face in your role? And what lessons have you learned by way of overcoming these challenges?

The greatest challenge I've faced in my role is finding balance across priorities when faced with limited resources and meeting needs across multiple lines of business that ensure long-term return on investment.

I've learned from the history of Embraer's commitment to education about the impact and value we bring in the sustainability space through advanced technology and the incredible opportunity we have to heighten our impact on the future of aviation, both in sustainability and workforce development. We must continue to lead in sustainability and become more proactive in talking about our successes. We must hold others accountable for their role in

our industry's sustainable future. Our vendors, suppliers and partners should have similar sustainable goals so that our impact is aligned. We should continue to seek new and innovative ways to assist our customers in giving back and doing good when doing business with us.

How is your role as Head of CSR evolving to meet the needs of the future?

CSR should be directly aligned with the company's mission, vision and values. Doing good should be an integral part of our business model because CSR directly manifests an organization's impact through sustainability, social, diversity, and governance.

My role allows Embraer to ensure its investments remain aligned and focused on aviation programs, youth and workforce development. Programs that strengthen the aviation industry are paramount to our success as a company.

As one of the leading companies in the aerospace industry, Embraer is invariably focused on innovation and education. Education has always been at the core of our social responsibility initiatives, which reinforces our commitment to inspiring youth through aviation and developing a high-performing and diverse talent pipeline.

We must help develop tomorrow's aviation workforce from the ground up...and we are doing that one student at a time. ◀



To support the Embraer Foundation through a monetary donation, by hosting a fundraiser or networking event, or through partnership, like donating your aircraft and pilot to a cause the Foundation supports, contact us at: info@embraerfoundation.org

THE YEAR OF AVIATION

Looking back on 2022 and the significant global events attended by Embraer, our customers and aviation leaders, we showcased our industry-leading portfolio of business jets and explored the future ecosystem of air travel

EBACE

GENEVA, SWITZERLAND | MAY 23-25, 2022

After a two-year hiatus, Embraer returned to Europe for EBACE. The energy was palpable as we welcomed the industry and customers to view our industry-leading portfolio of aircraft, including the Phenom 300E, Praetor 500 and Praetor 600. Inside our booth, guests were welcomed to personalize their very own Embraer business jet with our all-new configuration tool.



LABACE

SÃO PAULO, BRAZIL | AUGUST 9-11, 2022

Embraer welcomed so many familiar and new faces to the 17th annual LABACE, the largest business aviation event in Latin America. Throughout the show, we showcased our commitment to delivering the ultimate experience in business aviation, as well as our best-selling light jet for 10 years running, the Phenom 300E, and the world's most disruptive and technologically advanced super-midsize jet, the Praetor 600.



NBAA

ORLANDO, FLORIDA | OCTOBER 18-20, 2022

For the first time since 2018, NBAA-BACE took place in Orlando, Florida. Embraer's Phenom 300E, Praetor 500 and Praetor 600 arrived using Sustainable Aviation Fuel, supporting our commitment to a more sustainable future. During our time together, both with the business aviation industry and our customers, we witnessed the continued disruption of our product portfolio as well as the evolution of our industry as we foster the innovations that will create tomorrow's ecosystem of air travel.

EMBRAER CUSTOMER EVENTS

Throughout 2022, Embraer created one-of-a-kind events for guests to attend and discover our industry-leading portfolio of business jets. One event included a flight on the midsize Praetor 500 and super-midsize Praetor 600. The jets landed at the Kennedy Space Center, the same runway used for the space shuttle missions, and included a first-ever tour of the Gateway Experience and an unforgettable opportunity to hear from Astronaut Andy Allen and his experience flying the Atlantis space shuttle.





EMBRAER COMMITMENTS

Learn more about the new ESG targets
at the heart of Embraer's purpose

Embraer is actively committed to environmentally responsible solutions as part of our efforts towards a more sustainable ecosystem of air travel. The most significant step is civil aviation's commitment to fly NetZero by 2050, and we went beyond this with our commitment to fly carbon neutral by 2040. Throughout 2022, we took tangible steps to lessen our global impact, including:



To view more of Embraer's ESG initiatives, scan this QR code with your phone's camera.

- Introduced Sustainable Aviation Fuel (SAF) to our headquarters in Melbourne, Florida.
- Committed to increasing our access to SAF in partnership with Raízen, supporting our goal to increase adoption of SAF in operations to reach at least 25% by 2040.
- Completed test flights utilizing 100% SAF on Embraer's E2 commercial jet, with plans to extensively test executive jet platforms in 2023.
- Flew demonstration aircraft on SAF to industry events (including book-and-claim when SAF was unavailable).
- Provided Embraer Executive Care customers with a carbon offsetting program (25 flight hours) in partnership with 4AIR.
- Developed nanotube technologies to be tested in our aircraft. ←

CUSTOMERS TAKING FLIGHT

In an ever-evolving world, Embraer Executive Jets continue to lead the way with an industry-leading portfolio that serves a global customer base. A plane spotter captured this photo of an Embraer jet in motion.



Praetor 600 / © Sami Niemeläinen



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BUSINESS JET PORTFOLIO

Embraer is creating tomorrow's world of bespoke private air travel today, utilizing industry-leading innovation, design and technology—all the while incorporating sustainable and socially responsible practices. As a global company with more than 50 years in aerospace, Embraer delivers the ultimate experience in business aviation through aircraft that feature disruptive performance, technology and comfort. Its portfolio consists of the Phenom 100EV, which offers the business aviation experience in its purest form; the Phenom 300E, which is the best-selling light jet for the past 10 consecutive years; and the Praetor 500 and the Praetor 600, which with best-in-class flight range, are the most disruptive and technologically advanced midsize and super-midsize business jets, capable of continent-crossing and ocean-spanning missions, respectively.

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For more information, visit: executive.embraer.com



Use your phone's camera to scan the QR code to configure your own jet

PHENOM[®] 100EV

BY EMBRAER



The Phenom 100EV is the perfect distillation of the private jet experience—an entry-level aircraft completely designed in the 21st century to offer the most comfort and convenience to the modern business leader.

Occupants: 6/8
Range (4 pax, NBAA reserves): 1,178 nm
High-Speed Cruise: 406 ktas
 M_{MO} : M 0.70

PRAETOR 500

BY EMBRAER



The world's fastest and furthest-flying midsize jet is built to break boundaries and defy convention with class-exclusive technology, best-in-class performance and unprecedented comfort on continental flights.

Crew + Standard Pax/Max. Pax: 2+7/9
Range (4 pax, NBAA reserves): 3,340 nm
High-Speed Cruise: 466 ktas
 M_{MO} : M 0.83

PHENOM[®] 300E

BY EMBRAER



The best-selling light jet for the last decade, the Phenom 300E combines best-in-class speed and range with innovative technology and uncompromising comfort to achieve the highest residual value in the industry.

Occupants: 8/11
Range (5 pax, NBAA reserves): 2,010 nm
High-Speed Cruise: 464 ktas
 M_{MO} : M 0.80

PRAETOR 600

BY EMBRAER



The Praetor 600 breaks the mold of what a super-midsize jet can do, offering class-exclusive technology, best-in-class range and unprecedented comfort on intercontinental flights.

Crew + Standard Pax/Max. Pax: 2+8/12
Range (4 pax, NBAA reserves): 4,018 nm
High-Speed Cruise: 466 ktas
 M_{MO} : M 0.83

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