



Blue Frontiers, Pte. Ltd.

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varyon.io

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1 Executive Summary

1.1 Seasteads = Decentralizing Governance

Blue Frontiers is decentralizing governance by launching a seasteading industry that will provide humanity with new opportunities for organizing more innovative societies and dynamic governments.

1.2 Seasteads = Solution to Rising Seas & Crowded Cities

The same technologies we are developing for seasteads will provide environmental resilience to the millions of people threatened by rising sea levels, and allow crowded urban areas to expand onto the sea without harming the environment.

1.3 Varyon = Blue Frontiers Token

Varyon allows holders to exchange goods and services in the Blue Frontiers ecosystem, other ecosystems, and between themselves. Blue Frontiers will exclusively provide goods and services in exchange for Varyon where it is legally able to do so, including – but not limited to – purchase or rental of dwellings on seasteads, timeshares on seasteads, seasteads for outright purchase, services for people and businesses located on seasteads, such as business registration, administrative services, utility services, transportation, shipping, service industry activities, etc.

Seasteads are mobile floating homes, businesses, and community spaces that can be moved and reconfigured in relation to other seasteads, allowing for the formation, reformation, and dissolution of networks, neighborhoods, cities, and eventually nation-states in international waters. Seasteads will offer residents and businesses liberties and regulatory frameworks that allow for rapid innovation in societal and political structures.

SeaZones are Special Economic Zones at sea. SeaZones will create legal and regulatory environments within the territorial waters of host nations, granting seasteaders substantial flexibility or exemptions in fiscal, customs, labor, permits, and other select regulatory matters. **Cryptocurrency and Blockchain Technology** users and companies will benefit from these regulatory regimes for certainty, liberty, and taxes. Blue Frontiers is in active discussions with French Polynesia and is pursuing locations there, as well as seeking additional SeaZones in other countries.

Blue Frontiers, Pte. Ltd. was founded by the executive team and ambassadors of The Seasteading Institute. We have taken an ambitious long-term vision and established pragmatic steps toward developing the first seasteads. Blue Frontiers will create spaces for the advancement of novel societal structures, first within SeaZones, and ultimately on the high seas. Through agreements with host nations for the right to administer SeaZones, Blue Frontiers will provide SeaZone residents, and persons and businesses that register with the SeaZone, significant opportunities to form social orders in alignment with their personal preferences. Varyon will represent the central element to access this ecosystem.

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Contents

1	Executive Summary	2
1.1	Seasteads = Decentralizing Governance	2
1.2	Seasteads = Solution to Rising Seas & Crowded Cities	2
1.3	Varyon = Blue Frontiers Token	2
2	Seasteads = Decentralizing Governance	7
3	Blue Frontiers, Pte Ltd.	8
3.1	Seasteads	8
3.2	SeaZones	8
3.3	We Produce Land!	9
4	Governance	9
4.1	Cryptocurrency & Blockchain Technology	9
4.2	Societal Experimentation	9
4.3	Dynamic Geography	10
4.4	Technological Advances	10
5	Sea Level Rise Adaptation & Coastal Expansion	10
5.1	Sustainable Development	11
6	Near-Term Strategy	11
6.1	Pilot Project	11
6.2	Services	12
6.3	Seastead Demand	12
6.4	Host Nation Diplomacy & Research	12

	5
6.4.1 Economic Impact Assessment	13
6.4.2 Environmental Assessment Framework	13
6.4.3 Legal Analysis	13
6.4.4 Host Nations	13
6.5 Blue Frontiers Global & Blue Communities	14
7 The Future of Seasteading	14
8 Varyon	15
8.1 ERC20 Token	15
8.2 Uses & Ecosystem	15
8.3 Referenda	16
8.4 Access to Blue Frontiers Global & Blue Communities & Events . .	16
8.5 Sale	16
8.6 Distribution	16
8.7 Use of Proceeds	17
8.8 Seastead/SeaZone Construction, Development, Administration .	17
8.9 Reserve Currency Diversification	18
9 Roadmap	18
10 Team, Advisors, Strategic Partners	18
10.1 Founders	18
10.2 Blue Frontiers Advisors	19
10.3 Blue Frontiers Teams	20
10.4 The Seasteading Institute	21
10.4.1 The Seasteading Institute & Blue Frontiers Collaboration Agreement	21

10.5 Strategic Partners	21
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11 Legal Opinion 23

11.1 Information Only	23
11.2 No Guarantee of Value, Income or Profit	23
11.3 No Guarantee of Utility or Success	23
11.4 Risks Associated with Ethereum [or Other Blockchains or Chains]	23
11.5 Regulatory Uncertainty	24
11.6 Assumption of Risks of Change or Failure	24
11.7 Quantum Computers	24
11.8 Risk of Losing Funds	24
11.9 Returning Funds	24
11.10 Risks of Using New Technologies	25

12 Conclusion 25

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Blue Frontiers is making it possible to decentralize governance by launching a seasteading industry that will provide humanity with new options for organizing societies and governments. Seasteads will provide environmental resilience to the millions of people threatened by rising sea levels. Through the Varyon, we invite people to participate in realizing this fascinating endeavor.

2 Seasteads = Decentralizing Governance

A core structural feature of current models of government is centralization. Too much centralized authority leads to inefficient bureaucracies and representatives disconnected from the people they are meant to serve. Given a suitable technological solution, governments are ripe for decentralization. That technological solution is seasteading.

Seasteading brings decentralization beyond the digital world of bits and into the world of atoms by providing modular, floating structures – seasteads – on which the evolution of new societies and forms of governance can occur. Promising solutions can branch off at any time by physically separating to create new seasteads – enabling a high level of evolvability and quick rate of adaptation. Mimicking nature's time-tested method of variation and selection, the process of decentralizing governance through seasteading will spark the creation and evolution of new advancements in civilization.

When our homes and businesses can float to locations we choose, we can relatively easily rearrange our cities and sail our residence to other locations. Governments will no longer have a monopoly on the space where citizens live and businesses conduct their commercial activities. Instead governments will need to act like service providers, competing to attract citizens and businesses. Consequently, we will have an ever-evolving marketplace for government in a decentralized world.

Since 2008, Blue Frontiers precursor The Seasteading Institute (a 501(c)(3) nonprofit) has promoted the development of seasteads, new cities or settlements on the ocean. Supporters of this concept, "seasteaders," have proposed moving to the sea – outside of territories controlled by existing governments – to establish new societies and to engage in new rules for government.

3 Blue Frontiers, Pte Ltd.

3.1 Seasteads

A seastead is a floating human habitation, designed to remain in the sea indefinitely. Seasteads are designed to be mobile so they can be reasonably moved and reconfigured in relation to other seasteads. This allows for the formation, reformation, and dissolution of networks, neighborhoods, cities, and eventually nation-states in international waters. Seasteads will offer residents and businesses liberties and regulatory frameworks that allow for rapid innovation in societal and political structures.

The seasteads planned by Blue Frontiers are designed with the latest technology available to be sustainable and aesthetically attractive. Our concern for the well-being of the oceans is baked into our seasteading plans, and our designs will have a positive impact on the seas and sea life around our developments.

3.2 SeaZones

Blue Frontiers, Pte. Ltd. ([Blue Frontiers](#)) was founded by the executive team and ambassadors of The Seasteading Institute. Our team's cumulative experience and knowledge, network, government and media relations make us the best suited company to usher in the era of seasteading. We have taken an ambitious long-term vision and established pragmatic steps toward developing the first seasteads.

We are pioneering experimental economic SeaZones where political, social, and technological innovations can be implemented by those who choose to opt-in. With the creation of SeaZones and seasteads, Blue Frontiers is addressing two critical problems:

1. Lack of innovation in governance systems.
2. Loss of land and homes due to rising seas and a shortage of real estate in coastal areas.

Blue Frontiers is an international company, registered in Singapore, made up of staff and professionals from all over the world. At the time of the publication of this white paper, aside from the founders, we employ 15 staff, and have 100 active and accomplished professionals working on critical issues in their fields of expertise necessary to the development of seasteads and the creation and administration of SeaZones.

3.3 We Produce Land!

Our team of designers and engineers are developing floating platforms that can be manufactured and mass produced, while maintaining comfort and affordability. We will create the ability to produce these platforms all over the world to fit the growing demand from people seeking choice in society as well as those needing to adapt to rising seas and climate change. Our products will become the “Legos for assembling floating islands.” The Blue Frontiers family of companies will license, produce, lease, and rent out entire seasteads and dwellings on seasteads.

4 Governance

While institutions and businesses continue to become more innovative thanks to decentralization, evolution and growth, governments of the world struggle to adapt and change. For those interested in attempting new ideas for governance, there is currently little space for experimentation in new societies. SeaZones and seasteads will provide this much needed space to implement innovative governance models.

4.1 Cryptocurrency & Blockchain Technology

Blue Frontiers’ aim is to offer cryptographic currencies and blockchain technologies with a legal environment that encourages innovation, rather than undermining it with overregulation. Our SeaZones will offer cryptocurrency users and developers significant latitude for experimentation within a legal framework that provides certainty and protection from hostile regulatory regimes elsewhere.

4.2 Societal Experimentation

Blue Frontiers will create spaces for the advancement of novel societal structures, first within SeaZones, and ultimately on the high seas. Through agreements with host nations for the right to administer SeaZones, Blue Frontiers will provide SeaZone residents, and persons and businesses that register with the SeaZone, significant opportunities to form social orders in alignment with their personal preferences. At minimum, a SeaZone will empower its administrators with authority over economic activity, which is a significant opportunity to decentralize authority further and empower SeaZone residents and businesses.

SeaZones can be home to numerous seasteads, offering groups voluntary opportunities to implement novel or untried ideas. Seasteads can be organized along specific political, technological, economical, cultural, and other preferences, potentially offering a large variety of options and models.

4.3 Dynamic Geography

A significant advantage of floating architecture is the relative ease people have to rearrange their communities and move their homes using the fluidity of waterways. The ability to easily adjust living arrangements will ultimately create marketplaces where governance services compete to attract residents.

4.4 Technological Advances

Because seasteads will operate with a large degree of autonomy, they will have the ability to optimize internal rulesets to favor the adoption of specific innovations, such as blockchain technologies. Due to dynamic geography and the ability for seasteads to reconfigure entire neighborhoods or cities, what would be considered too risky or disruptive by some communities can be embraced by groups seeking new opportunities. In real world situations, societies can be peacefully forked, as groups can choose to separate and establish new seastead clusters.

5 Sea Level Rise Adaptation & Coastal Expansion

We are integrating and developing blue technologies that islands and coastal communities can use to improve resilience to rising seas and expand the utility of their coastal waters. The majority of humans live near coasts and waterways, and our technologies will allow overcrowded urban environments to safely and sustainably expand onto water.

According to the French Government¹, France could lose two thirds of its islands in the Pacific and entire nations in the Pacific will disappear in the next century. Already, issues with brackish water, land salinity, regular flooding, and battered infrastructure are compelling them to find innovative solutions today.

Blue Frontiers is creating an entirely new industry, developing seasteads and

¹[French National Center of Scientific Research \(CNRS\) study](#) (2013; in French) *French islands and their biodiversity threatened by rising sea levels*

floating solutions that can be deployed around the world to places impacted by rising seas.

5.1 Sustainable Development

Our development plans focus on sustainability, long-term environmentally safe materials, effective and carbon neutral energy systems, and waste and wastewater systems that don't harm the seas or sea life around the seasteads. We are heavily invested in creating [seastead designs](#) that plan for longevity, durability, aesthetic appeal, and environmental care. Our next steps in the design process are to create engineering blueprints, conduct wave modeling tests, and detail our construction and operational cost estimates.

6 Near-Term Strategy

Our near-term strategic approach for developing seasteads is multipronged. We put great emphasis on these four key areas:

1. Host nation diplomacy.
2. Legal research and structuring.
3. Community engagement and growth.
4. Design, engineering, and environmental planning.

Ultimately, these four pillars of near-term seasteading will lead to our unique position of being the first company to secure SeaZone concessions from host nations, produce sustainable floating islands, provide turnkey solutions to seastead residence and businesses, and partner with other businesses to supply products and services related to the seasteading ecosystem.

6.1 Pilot Project

Our first project consists of a plan to build approximately 14 floating platforms, ranging from small villas to larger community properties, connected by floating walkways. The total usable space is estimated at 7500 square meters

and will house 200-300 people. Each platform is estimated to cost on average \$5 million (USD)².

6.2 Services

Blue Frontiers will offer physical infrastructure for seasteads, sustainability consulting, SeaZone administrative services, SeaZone logistics services, business registration, events, tourism, partnership programs, and more. Blue Frontiers will³ require Varyon in exchange for our services and products. We will further work with alliant businesses and neighbors of SeaZones and seasteads to incentivize the acceptance of Varyon for products and services.

6.3 Seastead Demand

We believe there is significant demand for residence on seasteads based on survey research, media attention, and direct contact with potential customers. The Seasteading Institute has collected survey data from thousands of people expressing interest in living on a seastead⁴. Blue Frontiers receives daily inquiries about acquiring a residence on a seastead.

6.4 Host Nation Diplomacy & Research

In cooperation with The Seasteading Institute, Blue Frontiers is party to a Memorandum of Understanding (MOU) with the government of French Polynesia to create the first SeaZone, located in the protected waters of French Polynesia. The MOU required us to conduct an economic impact analysis, create an environmental assessment framework, and undertake legal research to aid in the creation of a SeaZone. If a SeaZone is created in French Polynesia, Blue Frontiers will fulfill its obligations, develop the seasteads, and administer the SeaZone, without requiring any public funding.

²These figures come from our internal parametric studies, and have been referenced in our [Economic Impact Analysis for French Polynesia](#), and are similar to the forecasts found in [The Seasteading Institute's Floating City Project report](#) authored by members of the Blue Frontiers team.

³In some markets and for some services, Blue Frontiers will be legally required to accept other payment methods for its services. In order to service such customers, Blue Frontiers will hold a corresponding amount of Varyon and account for such transactions as if it sold those Varyon and then accepted them as payment. Blue Frontiers will always require payment in Varyon wherever able to do so.

⁴The Seasteading Institute [Survey](#)

6.4.1 Economic Impact Assessment

Blue Frontiers hired [Emsi](#), a notable economic modeling firm, to conduct the economic impact analysis. Emsi determined that our proposed *Floating Island Project* would create 760 jobs in the land and sea zones, supporting an additional 1400 jobs in French Polynesia, and infuse \$500 Million USD into the local economy through wages, taxes, and supply chains⁵. While this economic model is specific to French Polynesia, the conclusions are implicative that our projects will bring considerable economic activity to the hosts of other SeaZones.

6.4.2 Environmental Assessment Framework

Blue21 led development of our “Environmental Assessment Framework for Floating Development”⁶, a step-by-step guide for floating infrastructures within a SeaZone, with recommendations for infrastructure characteristics for maintaining key ecosystem parameters within benchmarks reflecting good environmental stewardship. This framework is transferable to any SeaZone.

6.4.3 Legal Analysis

To assist our in-house counsel, we hired GB2A⁷, a leading French law firm in Paris, to conduct legal research and prepare a comprehensive report for the French Polynesian government. The research created a legal framework for the creation of SeaZones. This body of work is particularly useful to Blue Frontiers for potential host nations that use Napoleonic code.

6.4.4 Host Nations

Blue Frontiers intends to develop seasteeds in a variety of locations, starting with the tropical and protected waters typical of the Pacific and Indian Ocean regions. Our team is well situated to leverage our government and business contacts in several suitable nations to pursue the implementation of SeaZones.

⁵Emsi July (2017), [Economic Modeling Specialists International](#), Emsi Impact Analysis, The Floating Island Project

⁶Blue21, [Environmental Assessment Framework for Floating Development](#)

⁷GB2A, [Legal Counsel](#)

6.5 Blue Frontiers Global & Blue Communities

Blue Frontiers is managing and accelerating a global seasteading initiative, known as Blue Frontiers Global and Blue Communities. Through an online platform and related services, individuals can create or join communities of like-minded people toward the realization of societal or business goals on actual seasteads later made available to them as they are produced. These endeavors organize and gather people and communities who seek to benefit from products and services associated with seasteading. Members of these groups will have access to system features, including an online platform, group services, community shops, participation in events and gatherings, and more.

7 The Future of Seasteading

Experimental. Seasteading will give individuals the freedom to create or join communities, to have sovereignty over their own bodies, and ultimately the freedom to create a life free from involuntary pressures.

Connected. High speed, inexpensive satellite internet is imminent. This technology will allow seasteaders to stay connected to the decentralized world from remote locations.

Self Sufficient. Integration and development of various technologies will ultimately allow us to reach self-sufficiency, made possible by an abundance of energy, potable water, food, and building materials.

Independent. The freedom to opt out of governments that one does not wish to participate in will be available to the masses with modular, moveable seasteading. Seastead communities will employ sharing economies where many goods are available under subscription model.

Beyond Sustainable. By living on the seas, humans will have a strong incentive to stop treating them as hunting grounds and ocean highways for supertankers, and start taking better care of them. The seasteads are designed to attract and revive coral and marine life habitats.

Global. The remotest parts of the world's oceans will become attractive living locations, specifically near the equator where fierce storms are unlikely and sunshine is abundant.

8 Varyon

Varyon is a general purpose token that allows holders to exchange goods and services in the Blue Frontiers ecosystem, other ecosystems, and between themselves. Varyon will play an important role in the long-term autonomy of seasteading and the ability to exchange value between seasteading communities. Blue Frontiers is planning to use the proceeds of the sale to expand its ecosystem and create SeaZones and seasteads.

8.1 ERC20 Token

From a technical point of view, Varyon is an ERC20 token, living on the Ethereum blockchain, for the foreseeable future⁸. ERC20 tokens have a proven record of adoption and use – more than 40,000 ERC token contracts have been issued on the Ethereum blockchain. Taking volatility into account, ERC20 tokens account for well over ten billion dollars of the cryptographic currency and token market.

8.2 Uses & Ecosystem

Blue Frontiers commits to exclusively⁹ accepting Varyon for payments and use within the Blue Frontiers ecosystem. Blue Frontiers commits to providing nearly all goods and services in exchange for Varyon, including – but not limited to – purchase or rental of dwellings on seasteads, timeshares on seasteads, seasteads for outright purchase, services for people and businesses located on seasteads, such as business registration, insurance, banking, administrative services, utility services, service industry activities, etc.

The prices of these goods and services are not, and cannot be, known in advance, but will be determined using fair and transparent procedures such as auctions and spot prices from sufficiently deep and liquid markets. Blue Frontiers will not fix the value of the Varyon directly, nor will it necessarily be the only entity to accept them, nor does it commit to accepting a specific amount of them for specific things.

Varyon is used as a general purpose token and its use is not limited to specific

⁸Blue Frontiers reserves the right to switch to a different blockchain in the future, in which case ERC20 tokens will be exchanged at equal value for tokens that live on the corresponding blockchain.

⁹In some markets and for some services, Blue Frontiers will be legally required to accept other payment methods for its services. In order to service such customers, Blue Frontiers will hold a corresponding amount of Varyon and account for such transactions as if it sold those Varyon and then accepted them as payment. Blue Frontiers will always require payment in Varyon wherever able to do so.

products, services or for a specific company, organization, or community. Blue Frontiers will cooperate with ally businesses and SeaZone neighbors to encourage the use of Varyon beyond just Blue Frontiers owned services and businesses. It is expressly designed to be independent from Blue Frontiers after issuance.

8.3 Referenda

Holders of Varyon will enjoy opportunities to express opinion about Blue Frontiers activities and consequential decisions.

8.4 Access to Blue Frontiers Global & Blue Communities & Events

The online platforms and offline events Blue Frontiers hosts and manages such as Blue Frontiers Global, Blue Communities, and seasteading gatherings may be limited to Varyon holders. Blue Frontiers will determine – and adjust over time – the minimum amount of Varyon a holder must have to participate in these platforms and events.

8.5 Sale

Varyon will be distributed in a crowdsale to buyers who have been whitelisted through our anti-money laundering (AML), know your customer (KYC), and selection process. The public sale is anticipated to take place in June.

The sale will be held entirely in Ether (ETH). The soft cap of the combined pre-sale and public sale will be 4,000 ETH and our hard cap will be 22,000 ETH.

Presales will be sold ahead of the public sale in Bitcoin and Ethereum, with a bonus of 15%.

There will not be bonuses in the public sale.

Time to Issuance: Tokens are issued upon successful KYC / AML checks, with a transfer freeze until a deadline set shortly after the sale (in order to fully process all sales and KYC / AML checks).

8.6 Distribution

- 4%-28% Public sale*

- 6%-8% Presales
- 5%-6% Blue Frontiers seed funders
- 12%-15% Blue Frontiers team
- 45%-70% Seastead/SeaZone Construction, Development, Administration

* The amount of Varyon allotted to seastead/SeaZone Construction, Development, Administration is inversely correlated with the amount purchased in the public sale. That is, the more Varyon sold in the public sale, the less Varyon held for seastead/SeaZone Construction, Development, Administration.

Team member tokens will be vested, locked, or distributed for months or years after the crowdsale.

8.7 Use of Proceeds

The funds raised from the crowdsale will be used to implement Blue Frontiers' mission. Proceeds from the token sale will be divided among the following activities:

- Design & Engineering
- SeaZone Legal & Administration
- Community growth
- General Administration

The amount of proceeds used for each activity will depend on the level of proceeds raised.

8.8 Seastead/SeaZone Construction, Development, Administration

Blue Frontiers plans to prototype the first seastead with funds raised from the Varyon Crowdsale, and to fund additional seasteeds through sales. The Varyon Blue Frontiers holds for seastead and SeaZone Construction, Development, and Administration will be used only as needed, in order create seasteeds and SeaZones and to strengthen the ecosystem of products and services available to Varyon holders.

8.9 Reserve Currency Diversification

Blue Frontiers will spend the funds it raises in the crowdsale to actualize its mission in a conservative and pragmatic manner. We will diversify our expense account, by exchanging Ethereum for Bitcoin, United States Dollars, and Euros. Our directors and financial officers will determine an appropriate allocation across currencies and cryptocurrencies, and will rebalance, exchange, and/or add new assets periodically as deemed prudent.

9 Roadmap

- 2017: Signed MOU with French Polynesia; launched Blue Frontiers; held researchers Floating Island Research: Science & Technology meeting at the UC Berkeley Gump Station on the Island of Moorea. Co-hosted first international seasteading gathering in Tahiti. Conducted significant economic, legal, and environmental research; developed new seastead designs; built a global team
- 2018 Q1: launched Blue Frontiers Global & Blue Frontiers Communities
- 2018 Q2: launch Varyon
- 2018 Q3-Q4: acquire a SeaZone from a host nation; continue negotiations for additional SeaZones; engineer and blueprint seastead designs
- 2019 Q1/Q2: prototype seasteads; wave-model testing; manufacturer and supply chain assessments
- 2019 Q3/Q4: manufacturer and construction team selection. Construction/manufacturing begins
- 2021: first seasteads deployed

10 Team, Advisors, Strategic Partners

10.1 Founders

Randy Hencken (San Francisco Bay Area). Director at The Seasteading Institute since 2011; creator and leader of the The Seasteading Institute's *Floating City Project*; Real estate investor, business investor, early Bitcoin, Ethereum and altcoin adopter, philanthropic trustee.

Joe Quirk (San Francisco Bay Area). President and Seavangelist of The Seasteading Institute; Co-author with Patri Friedman of *Seasteading: How Floating Nations Will Restore The Environment, Enrich The Poor, Cure The Sick, and Liberate Humanity from Politicians*.

Marc Collins (Tahiti, French Polynesia). Serial entrepreneur and former politician. Over the past 20 years, Collins founded and incubated more than a dozen companies. He also served as the Minister of Tourism of French Polynesia in 2007-2008.

Nicolas Germineau (France/England). Information Technology and Services, Web Entrepreneur; Co-founder and Owner of 2NAPPS; Former software development and project management for Actio Corporation, Apple, and INFOVIVE; Ambassador for The Seasteading Institute since 2011.

Egor Ryjikov (Republic of Belarus). Co-founder and co-owner of Weber CoMechanics Group, consisting of 16 companies employing more than 600 people in engineering, robotics, manufacturing, and the development and application of new technologies; Inventor, serial entrepreneur and business angel investor, including cryptographic blockchain investments; Ambassador of The Seasteading Institute since 2009.

10.2 Blue Frontiers Advisors

Dorjee Sun (Singapore). COO of Santiment; co-founded 17 companies with 2 acquisitions and 4 exits and assets sales. Director of Carbon Conservation, a leader in carbon financed conservation projects; one of TIME Magazine's Heroes of the Environment.

Yuri Lobyntsev (Russia). CTO & Co-founder Cindicator. Inventor, entrepreneur, and distributed applications developer.

Daniel A. Nagy Ph.D. (Hungary). Founder ePoint Systems Ltd. Cryptographer, author and researcher Budapest University of Sciences, Information Theory. Ethereum developer.

John-Paul Thorbjornsen (Australia). CEO and Co-founder of CanYa, technology enthusiast, aeronautical engineer, former Royal Australian Air Force pilot, early Bitcoin adopter and Ethereum ambassador.

Robert Viglione (USA). Co-founder of ZenCash, President of the Zen Blockchain Foundation, PhD Candidate, Finance.

Maciek Ziolkowski (UK). Co-founder of Coinfirm. AML and KYC for Blockchain.

Susanna Dokupil (USA). CEO Paladin Strategies. Formerly Special Counsel to the United States Senate Judiciary Committee and Assistant Solicitor General in the Office of the Attorney General of Texas.

Wang Chien Ming Ph.D. & M.Eng.Sc. (Australia). Professor of Civil Engineering at University of Queensland; Former Director for the Engineering Science Programme, National University of Singapore. Foremost expert of Very Large Floating Structures.

Matatea Changuy (USA). Tahiti-born entrepreneur and management consultant for complex sustainability and space ventures. Founder of Space2Leap – a boutique consultancy for ideas ahead of their time. Oxford University Alumna.

Tom W. Bell (USA). Special Economic Zones expert, Professor of Law, Chapman University; President, ArchimEDIATE LLC.

Lara Stein (USA). Executive Director Women's March Global; Founder TEDx, The TED Conferences.

Pascal Erhel Hatuuku (French Polynesia). Culture, tourism and environment consultant.

Gaspard Koenig (France). Philosopher, journalist, and president of the think-tank 'GenerationLibre'.

Neil Davies Ph.D. (French Polynesia). Director of the University of California's Gump South Pacific Research Station in Moorea, French Polynesia.

Gabriel Rothblatt (USA). United Therapeutics, Space Exploration Advocate.

10.3 Blue Frontiers Teams

Beginning in May of 2017, Blue Frontiers launched a network of international professional teams.

Blue Frontiers has assembled the expertise required to handle legal challenges, regulatory hurdles, engineering and architecture, business development, and all other aspects associated with the creation and deployment of SeaZones and seasteads. Blue Frontiers employs aquatic engineers, researchers, lawyers, technology partner specialists, marketers, and others. Blue Frontiers benefits from the professional services of numerous volunteers working across teams on critical technical solutions for building and operating seasteads.

Blue21¹⁰ (Netherlands). Water architects, researchers, real estate develop-

¹⁰Blue21 [Floating Architecture](#)

ment, entrepreneurship.

Biomimicry (global). Design and inclusion of materials, structures and systems modeled on biological processes.

Food Systems (global). Sustainable agriculture (i.e., closed-loop systems), aquaculture, aquaponics, mariculture, vermiculture, and other techniques for growing healthy food in the SeaZone.

Utilities (global). Integrating effective and efficient water, energy, and waste management solutions in order to be in harmony with the environment.

Informations and Communications (global). Internet, data transfer and storage.

10.4 The Seasteading Institute

Patri Benjamin-Friedman, the grandson of Nobel Prize-winning economist Milton Friedman and son of David Friedman (the author of *The Machinery of Freedom*) founded the nonprofit [The Seasteading Institute](#) in 2008 with philanthropic funding from venture capitalist and PayPal co-founder Peter Thiel. Patri serves as the chairman of the The Seasteading Institute's Board of Directors. Beginning in 2012, under the leadership of Randy Hencken and Joe Quirk, the Institute launched Floating City Project. This initiative is the predecessor to the Blue Frontiers near-term strategy, and laid the foundational work for seeking a host nation to allow the development of seasteads in protected, territorial waters, under the governing structure of a Special Economic Zone. In turn, seasteaders would offer the host nation many environmental, social, and economic benefits.

10.4.1 The Seasteading Institute & Blue Frontiers Collaboration Agreement

Blue Frontiers and The Seasteading Institute have a collaboration agreement wherein the two companies share resources within the constraints of United States' law and the governance of 501(c)(3) nonprofit corporations. Many of Blue Frontiers staff, advisors, volunteers and community have joined Blue Frontiers by way of The Seasteading Institute.

10.5 Strategic Partners

- Alpinehash
- American Rainwater Catchment Systems Association

- ArchimEDIATE LLC
- Balloun Law Professional Corporation
- BERGE
- Blue21
- Center for Innovative Governance Research
- Cindicator
- Clean Tech Open
- Click Ventures
- Coinfirm
- Cryvo
- Deltasync
- Digital Raign
- EnergiPlant
- Everflux Technologies
- Floating Solutions LLP
- GB2A
- LBRY
- Owlized
- Primowind
- Pyramid Foods
- ReCivitas
- Solar Head of State
- Startup Societies Foundation
- The Seasteading Institute
- UIX Global
- ZenCash
- ZyCraft

11 Legal Opinion

11.1 Information Only

This document is for information purposes only, and is not an offer or a call to sell stocks or securities of Blue Frontiers or any other affiliate, or related or associated company. It therefore cannot be accepted or thereby turned into a binding contract. Neither does it offer any warranties, guarantees, or conditions. Except as to the factual representations in this document, Blue Frontiers disclaims any other representations on the same subject matter, whether written or oral. Given the present disclaimers, Blue Frontiers does not and cannot reasonably foresee that any party will rely to its detriment on the information in this document, thus foreclosing any claims to detrimental reliance thereupon.

11.2 No Guarantee of Value, Income or Profit

Blue Frontiers makes no representations or warranties about the value of Varyon – in the short-term or the long-term. There is no guarantee that the value of Varyon will grow or remain steady in value. The price of Varyon may decrease – perhaps significantly – due to unforeseen events, events over which Blue Frontiers has no control, and events amounting to force majeure. Varyon's value may drop to zero.

11.3 No Guarantee of Utility or Success

There is no guarantee that Blue Frontiers will succeed in its goals in the short term or the long term. Blue Frontiers makes no representations or warranties about whether it will be able to succeed in launching seasteams or the creation of a seasteading ecosystem or economy. If Blue Frontiers fails in its primary endeavors, the value of Varyon be diminished or drop to zero.

11.4 Risks Associated with Ethereum [or Other Blockchains or Chains]

Varyon will be issued on the Ethereum blockchain, and may migrate to another blockchain in the future. Therefore, any failure or malfunctioning of the Ethereum [or other(s)] protocol may lead to the network of Varyon not working as expected.

11.5 Regulatory Uncertainty

Blockchain technologies are subject to supervision and control by various regulatory bodies around the world. Varyon may fall under one or more requests or actions on their part, including but not limited to restrictions imposed on the use or possession of digital tokens such as Varyon, which may slow or limit the functionality or repurchase of Varyon in the future. There is profound regulatory uncertainty in certain major jurisdictions in the world with respect to the sale and issuance of tokens such as Varyon.

11.6 Assumption of Risks of Change or Failure

In the event that unforeseen circumstances and business judgement counsel, the objectives stated in this document may be changed. Despite any intent or goal described in this document, all persons and parties involved in the purchase of Varyon do so at their own risk.

11.7 Quantum Computers

Technical innovations, including but not limited to the development of quantum computers, may pose a danger to the security or stability of blockchain transactions, including Varyon. While it is understood that blockchains will be able to adapt to such technology (probably faster than the many financial institutions and Internet sites that would also be disrupted), any disruption made by such advances will be addressed as they come up.

11.8 Risk of Losing Funds

Funds collected in fundraising are in no way insured. If they are lost or lose their value, no private or public insurance provider is obligated to offer compensation. Parties who purchase Varyon may insure them themselves, if at all.

11.9 Returning Funds

If the fundraising campaign does not end successfully, or is canceled by its creators, or if users send insufficient funds or send funds in an untimely fashion, funds paid in Ether are returned by smart contract to the wallets of those users who transferred funds to the wallet of the campaign.

11.10 Risks of Using New Technologies

Varyon rely on new and relatively untested technologies. In addition to the risks mentioned in this document, there are certain additional risks that the Blue Frontiers team cannot foresee. These risks may manifest themselves in other forms of risk than those specified herein.

12 Conclusion

Blue Frontiers believes that the future is floating and that seasteading is inevitable. The choice today is whether to actively bring seasteading into fruition, including the dynamic world of cryptocurrency early adopters in the development of a decentralized system of floating cities, or to sit back and wait for another group to do so in the future.

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