NULLIUS IN VERBA
“On the word of no one”

Decentralize, Incentivize, Apply, Technology, Obviate, Mobilize, Solutions... Simplify, Mindfulness, Ownership, Theory, Adaptable, Imagine, Democratize... Data, Infinite, Accelerate, Think, Observe, Militant, Share...

DIATOMS INC
Technology Infrastructure To Heal Mother Nature

“Diatoms... The most important mediator of carbon dioxide and oxygen... The most important microorganisms that you’ve never heard of.”

White Paper
January 2019
## CONTENTS

1. **Introduction** .................................................................................................................. 4
2. **Motivation** .................................................................................................................... 5
3. **Implication** .................................................................................................................... 7
4. **Vision** ........................................................................................................................... 8
   4.1. Calling All Garage Dwellers
   4.2. Tokenomics
5. **Current Projects** .......................................................................................................... 11
   5.1. Food Waste
   5.2. Human Waste
   5.3. Microgrids Storage
   5.4. Fly Ash Reprocessing
   5.5. CO$_2$ Capture & Storage
6. **Philosophy** .................................................................................................................... 13
   6.1. Owning and Operating
   6.2. Theory of Perpetual Alpha (ToPA)
   6.3. Five Alpha Filters
7. **Epilogue** ....................................................................................................................... 17
8. **Leadership** ..................................................................................................................... 18
October 8, 2018:

**UN INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC) RELEASES ALARMING REPORT**

“Earth’s climate is now changing faster than at any point in the history of modern civilization, primarily as a result of human activities.”

November 25, 2018:

**FOURTH NATIONAL CLIMATE ASSESSMENT, 13 FEDERAL AGENCIES REPORTED**

“Without substantial and sustained global mitigation and regional adaptation efforts, climate change is expected to cause growing losses to American infrastructure and property and impede the rate of economic growth over this century.”

---

**Do we need a clearer call to action?**

Mother Earth and her abundant resources have been mismanaged for decades. We must attack and reverse this problem, and we must do it now. The above reports suggest that the universe would give the Human Race an F for failure in resource management. Thankfully, we live at a time when new technologies are born every day, so now is the time to both innovate and deploy available technology to reverse the impacts of past resource mismanagement.

DIATOMS Inc. has assembled a group of interdisciplinary pioneers to form a permanent capital source to attack these challenges: global technologists of all shapes and sizes, entrepreneurs, financial architects, engineers, scientists, political leaders, farmers, energy producers, academics, blockchain experts, economists, and working with federal, state, and local governments. Together we will create, structure, finance,
and own lucrative, mathematically-proven solutions. Measurable and powerful solutions that can truly impact society are, by definition, growth strategies—with opportunities counted in the trillions! Our *yin* is frightened while our *yang* feels optimistic. Ironically, while the cost of clean-up and transformation requires such a huge investment, it is as though we’ve discovered an unknown and mispriced ‘bond market’—completely disconnected from the usual forces affecting returns. Why do we say this? Because the counterparties to our clean-up efforts are governments and large corporations with whom we sign long-term contracts… at very attractive returns for our investors.

A combination of private capital, private ingenuity, and state assets has confirmed that we can reverse the environmental, social and economic damage caused by uninformed and wasteful practices of the past. Utilizing superior capital structure, securitization finance, creativity, and an enormous amount of capital, we have proven that helping the world can also generate the discovery of a whole new paradigm of investment; one that features returns that are substantial multiples higher than the average return on equity for the S+P 500. Thankfully, current global government bond markets yield, in aggregate, a paltry 1.9 percent. We expect to rotate a portion of this capital to a higher yielding and more purposeful asset allocation.

DIATOMS is hereby calling upon the collective skills and wisdom of the world to join us in a systematic attack on complacency and misunderstanding. Together, we can reverse myriad problems of mismanagement and waste. The notion that socially impactful investments necessarily involve a tax on return is simply wrong. It is *the* growth market of the 21\(^{st}\) century.

It’s time to take action.
INTRODUCTION

DIATOMS, Inc. is a technology-infrastructure company organized to finance and reverse the trajectory of environmental problems that plague humanity. Our areas of immediate focus include:

- Industrial waste minimization and treatment
  - Coal fly ash
  - Repurposing Plastics
  - Carbon Sequestration
- Agricultural waste minimization and recycling
  - Food processing waste
- Energy Generation
- Renewable energy through new storage technologies
- Reprocessing landfills
- Water reclamation and remediation

Many of these issues have risen from sub-optimal human interventions that created modern living. The gaping, underlying problem is that we have not kept up with modern technology. DIATOMS has identified multi-trillion-dollar gaps in the funding that is required to upgrade global infrastructure. Most importantly, we want to finance these upgrades using our own balance sheet.

Each project is supervised by industry experts, scientists and engineers who identify and pair the potential projects with the best technology available and identify best project delivery methods to negotiate long-term contracts and develop partnerships with governments, working in public/private partnerships to deploy the world’s most advanced and contemporary solutions. To ensure the benefits of compound return, DIATOMS owns and operates each of these projects. This produces economic performance orders of magnitude higher than corresponding municipal bond yields.
available from the same issuer (i.e. the returns typically available at present to investors in infrastructure). Our goal is to clean up profligate waste from the industrial revolutions by bringing the best technology to infrastructure projects. By doing so, we also expect to produce one of the greatest alpha generation engines of our time.

Ironically, the problems caused by industrialists of the 19th and 20th centuries will now present Millennials with the strongest investment thesis that they will ever likely see.

**MOTIVATION**

The private and public sectors created the infrastructure that exists today. High-speed internet, associated search protocols, telecom, and 4k entertainment, abundant electricity, stocked grocers, and clean(ish) water are all current successes that, one would think, would benefit from near-perpetual upgrade cycles. However, there are hugely toxic areas that have not been upgraded for decades, causing issues such as increasing: greenhouse-gas emissions, industrial-solid wastes, food and nutritional waste, human waste, mismanagement of materials such as plastics, and uneven access to information and communications. All of these areas have produced huge disconnections with an otherwise rapidly advancing, tech-driven world.

Imagine visiting a country where you were the only person with an iPhone—that’s what one feels when in the presence of aged energy, waste processing, and sewage facilities. You are immediately struck by the lack of technology and then by obvious waste and pollution. In the era of Apple and Google, you ask: why and how does this still exist? Why haven’t societies seen or created solutions?

We’ve asked ourselves the same questions, and the best we can surmise is that these aged and vexing negatives have remained virtually *unowned* by anyone or any entity,
so why would a rational person invest in the solution? There seems to be a palpable sense of, “It’s not my problem.” News flash: we all own the problem. A global pandemic has reached critical mass, and though we might just be realizing it, we need cures that can only be coordinated and discovered by the intervention of the private and public sectors. However, compared with prior years, the public sector is largely insolvent, while the private sector is awash with capital.

![Figure 1. How can the world bridge its infrastructure gap?](https://www.statista.com/statistics/724008/estimated-annual-worldwide-infrastructure-expenditure-by-type/)

![Figure 1. How can the world bridge its infrastructure gap?](http://www.ecc-conference.org/content/documents/resources/2016/IGC16_1_0825-0620_Kanna.pdf)

![Figure 1. How can the world bridge its infrastructure gap?](https://www.mckinsey.com/industries/capital-projects-and-infrastructure/our-insights/bridging-global-infrastructure-gaps)

![Figure 1. How can the world bridge its infrastructure gap?](https://www.reuters.com/article/us-global-infrastructure-report/world-needs-94-trillion-spent-on-infrastructure-by-2040-report-idUSKBN1AA1A3)
There is a $3 trillion surplus from U.S. tech companies alone!

DIATOMS combines new, scalable technologies with abundant private capital to solve the problems caused by the industrial revolutions as well as the negligence of current governments and underperforming conglomerates. Applying new technology to old, intractable problems, we chase the silver lining of a return profile with closer resemblance to a tech stock’s performance than to an industrial stock’s accretion pattern. We demand and expect returns to mimic the Law of Accelerating Returns, which posits that the rate of change in technology-based systems tends to increase exponentially. Ray Kurzweil take a bow. Your thesis is correct. And while most areas of infrastructure have yet to tap its potential, DIATOMS is ready to reimagine and deploy your methods for cleaning up the mess.

**IMPLICATION**

*Growing connectivity through the blockchain in a new era of urbanization*

Through its partnership with Y2x, DIATOMS is deeply committed to blockchain technologies. At this early stage of crypto and blockchain, many people feel that the blockchain is undeveloped and its full deployment a distant prospect. So, we ask: Why do we feel this way? When should we expect mass adoption of blockchain technologies?

DIATOMS believes that the functionality and transparency provided by blockchain will usher in an even greater era of rapidly evolving global economic disintermediation: an interval that will feature digitized, tokenized assets and transactions, all recorded in a rewards-based audit and accounting system. Centralized communications and media, largely controlled by big data companies led by Google, Facebook, and Amazon, have
produced an uneven access to information. The blockchain is about to replace these centralized systems with decentralized alternatives. In our increasingly urbanized world, with extreme growth of megalopolises, communication, and connectivity are “the assets of the 21st century.” Ushering in an era of decentralized communication, and thus economies, will contain profound solutions. People will finally be able to own and declare their own personal sovereignty. Basic human ownership rights (of personal data, medical records, intellectual property, personal identification, and property rights) will all be enabled and immutably stored in personal blockchain, with smart contracts and open ledgers to connect that IP for use in commerce.

This transformation has profound implications. By empowering people to move quickly and creatively, and to freely allocate their time, efforts, and cash, we also eliminate local disfunction. Indeed, we even profit from it. Although the precise economic impact of this development concept remains difficult to quantify, the unknown, illiquid (undigitized), and unpledged assets in our new economic paradigm, have the mathematical chance to double global GDP.

VISION

*Calling All Garage Dwellers…….*

As entrepreneurs ourselves, we recognize the frustration and mistrust caused by a world full of inequities. We have experienced first-hand the feeling of having a clear vision but remaining unheard. As the lyric goes, “your lips move, but I can’t hear what you’re saying.” We not only hear you, we feel you.

We recognize that there are millions of unseen faces and unheard voices who would like to find a home to practice their technologies and to offer their ideas to the world.
Think about all the innovations that have taken place in the proverbial ‘garage.’ DIATOMS invites all technologists and entrepreneurs to test their innovations, and invest with local knowledge and preference.

Compared to twenty years ago, the polymaths of our day seek like-minded, patient capital that is not required or motivated to exit the investment at any particular time. They seek real partners who can not only help develop their ideas but also assist in the identification of ‘brand extensions’ and business developments for these ideas. This approach, in stark contrast to the VC fund model, will empower the greatest minds of the world to thrive, in part by owning their specific outcomes. We believe that the best innovators have rejected the ‘trader’ aspect of VC funds, and instead look to partner with strategic investors. DIATOMS Inc aims to develop long-term partnerships and, instead of selling our partners, we can build solutions-based companies together, bound by open ledgers and smart contracts, and quickly get these solutions to the world.

DIATOMS envisions a human blockchain; a collective, creative class that not only has both shared and transparent economics, but also common and collective mentorship. We are convinced that this will be a paradigm shift away from centralized oligarchies, and a powerful indication that the decentralized economy has arrived.

Recall Sam Cook’s legendary prophecy that “a change is gonna come.” Well, it’s here!

Tokenomics

DIATOMS will be dropping the first-ever technology passport through which we will raise an initial $50 million through an ICO/STO. (We will announce the details of this in a subsequent release.) This passport will provide access to our balance sheet, our global investor network, and real time access to live projects. Buyers of our passports
have automatic entry to compete for our current projects. The winner of each ‘project drop’ will become our partner in a contracted initiative. Each contract will have unique features, but a reasonable proxy is our current effort to build a plant to clean up industrial exhaust such as coal-produced fly ash. A typical plant costs $50-100mm and each plant will feature a profits pool. All participants will then vote to determine the value of the tech contribution, and cash and equity rewards will be enjoyed by winners—much like the crypto-mining-incentive system.

We expect to finance projects worth tens of billions of dollars. Our counter parties tend to be investment-grade entities, such as state and municipal governments. We carefully masterplan a tech-driven cleanup, uniquely designed to each issue and location. Once a contract has been executed, between a government and DIATOM, in a sense, we’ve created a bond. At that point, the only question should be, ‘What is the value of that bond?’ versus comparably rated credits, including the ‘risk-free rate.’ For example, we may secure a contract to take toxic fly ash and convert it into cement and other byproducts and arrange a long-term offtake agreement to a highly rated corporation or state or local government. We can thus remove a toxic landfill by building a plant, with construction cost of $100 million (typical case study cost of a plant is between $300 million and $3 billion). DIATOMS is legally structured as a C corporation, which allows us to use our own capital base and to own and operate our ‘solutions’ for decades.

A C-Corp election is also consistent with the benefits found in the recent tax code allowing for accelerated depreciation and tax credits. And most importantly, by holding assets forever, as Warren Buffett has endorsed, we can compound our returns in disproportionate magnitudes.
With DIATOMS as the control shareholder, each project will feature winners of our tech competitions and local investors with tremendous local wisdom—essential for long-term and harmonious outcomes.

Due to the credit quality of the contracted parties, we expect to build a highly efficient capital stack for each project, with equity from investors willing to accept higher risk for higher returns and term debt facilities to follow. Each project will be under the highly principled aegis of DIATOMS to ensure that our intentions and strict academic principles are being met. We will not compromise on this. The world is sick and tired of the feckless pump-and-dump mentality.

The effect of this approach is much like that of any other company that originates assets. Take a mortgage lender or a banker. With a financing line that allows it to aggregate enough mass, they can then finance their inventories of assets through securitization. By adopting this approach to infrastructure, we are able to recycle our capital and move onto the next project with great efficiency. Having termed out the debt of an individual project, DIATOMS is then the proud owner and operator of each facility, with the noted inclusion of our tech partners and local investors. Through time, the DIATOMS balance sheet is intended to emulate the power of long-term ownership, which we call structural alpha. Upon examination, one will discover that our returns on equity will be multiples higher than those found in the S+P 500.

CURRENT PROJECTS

DIATOMS is currently executing a portfolio of projects and contracts. We have a target of $100 billion in projects funded through private investments and tokenized securities.
offerings, bridging the gap between the dynamic cryptocurrency space and the regulated global financial markets.

We have selected initial areas of profound size which need immediate attention.

- **Food waste:** In the state of Florida we are planning the construction of a 1mm-ton plant, bringing new technology to efficiently process discarded fruits and vegetables, improve farm results and yields, and attack the pervasive problem of invasive plant species. This will also have a material impact towards reducing methane at landfills.

- **Human waste:** The entire planet needs to upgrade its archaic raw-sewage systems. New technologies can be deployed to reimagine and re-engineer this aged practice, the end result will be reusable water and abundant fertilizers.

- **Resilient Cities:** In Rhode Island, we have a contract, along with our globally recognized engineering partners, to redevelop raw land of 50 to 60 acres, build a microgrid, and engage in hydroponic vertical farming.

- **Fly ash:** Coal supplies 40 percent of our energy in the USA. Coal ash, also referred to as coal-combustion residuals (CCR) is produced primarily from the burning of coal in coal-fired power plants. In the U.S., nearly 140 million tons of coal ash is generated annually making it one of the largest types of industrial waste. For generations, electric utilities have sent their CCR offsite or dispose of it onsite in landfills and surface impoundments, enabling them to be “in compliance,” with current EPA regulations. The EPA encourages the beneficial
use of coal ash in an appropriate and protective manner. DIATOMS has identified technologies that can repurpose the fly ash into high-value ceramic materials in a way that minimizes the CCR from escaping into the surrounding environment.

- **CO₂ capture and storage:** The “holy grail” in terms of energy use and pollution remediation capturing CO₂ and other greenhouse gas emissions and utilizing new technologies for storage and reuse. DIATOMS is identifying and supporting technologies that provide economically viable solutions, at scale. We will announce live transactions shortly.

**PHILOSOPHY**

**Owning and Operating**

To attack the world’s biggest problems and keep pace with the growth rate of technology while enjoying long-term compounding, we work within an “owning and operating” model. Instead of creating technologically driven solutions and selling them on schedule (standard procedure for venture capital and private equity firms), we work to create long-term outcomes with permanent capital. Depending on holding periods, it is far more profitable to own and operate, compared to a 2 and 20 fee structure of private equity.
We believe that the growth rates and returns associated with these markets will produce returns that emulate the growth rates of technology companies, which, again, will be multiples higher than the S&P 500.

**Theory of Perpetual Alpha (ToPA)**

DIATOMS invests in infrastructure and information technology companies capable of generating high, sustainable returns, which has a theoretical possibility to always outperform outdated measures of alpha (such as the S&P 500). ‘Perpetual Alpha’ is a new investment theory that we’ve developed which is predicated on the predictable, exponential growth of technology, recognizing that the world’s biggest problems are also its biggest business opportunities. By investing in this manner, the growth rates
imply a substantial outperformance to otherwise mature, low-growth indices. One example is the recent explosive growth seen in the solar energy industry. We are seeing growth rates and efficiency gains that directly follow the predictions of Kurzweil’s Law.

![Annual U.S. Solar PV Installations, 2000-2016](image)

**Figure 3. U.S. Solar Industry**

*Five Alpha Filters*

The key to mitigating risk is embedded in our own theory of identifying specific criterion when considering the value and viability of potential investments. Our investment methodology is governed by what we call the alpha filters.

- **Innovation**: Disruptive technologies and transformative ideas that demonstrate growth rates far in excess of returns typically found in most public equities
• **Mispriced Assets:** Cyclical investing that recognizes that the biggest opportunity for value creation is in the timing of the ‘buy.’ As Mr. Buffett has so deftly proven, we use capital at times of market contraction and disgorgement to buy measurable discounts to asset value. More importantly, we add value to existing assets through repurposing— turning lemons into lemonade, when the repurposed asset takes on unimagined values.

• **Social Impact:** Measurable social impact means that technology has reached a scale where a new deployment will have a positive and mathematically measurable good for humanity. This is, by definition, a growth strategy.

• **Structural Alpha:** Long-term ownership of companies with strong structural alpha allows us to recap the compounding advantages of permanent capital being continuously reinvested. We employ a financial architecture that allows us own and operate over the long term. By doing so, we ensure the awesome effects of compound interest... watching the snowball get bigger and bigger.

• **Human Capital/Mindfulness:** Mindful, self-aware leaders who act with intention and integrity have greater potential to lead their companies to success. We understand that Perpetual Alpha, social change, and extraordinary ideas originate in the mind. We therefore invest in the mind of the organization and its individual members. The blockchain will now insist that organizations and entrepreneurs state their intentions, through smart contracts, with open ledgers providing a whole paradigm of transparency and accountability.
An exact parallel can be drawn between our open invitation to the world and to San Francisco’s counterculture movement of the 1960s. By first welcoming the young people of the ‘60s—from the writers, architects, philosophers to the amazing culinary and wine culture, to the LGBTQ communities—the Bay Area eventually saw a massive influx of great minds advancing humanity through prolific technological innovation. Today, San Francisco and the Bay Area are perhaps the creative center of the world. They have presented us with a gift that continues to shake our world every day. It’s not much of a stretch to think that without this creative culture, the story of Steve Jobs and Apple would have turned out much differently than it ultimately did. Can you imagine if Steve licensed Apple instead of building a company that achieved the world’s first one trillion-dollar valuation? What the counterculture movement delivered was not simply a branded message, but a ‘lifestyle brand’ of deep significance; and this brand of freedom attracted some of the greatest minds in human history. DIATOMS can only strive to be so successful, and with that success, we can surely create a new era by reversing old behaviors that pollute our Mother Earth.
LEADERSHIP

DIATOMS Inc. is advised by a group of leading experts across different fields: structured finance professionals, logistics experts, political leaders, blockchain experts, engineers, academics, and economists.

J. Todd Morley

Todd is co-founder of Y2X as well as founder of G2 Investment Group. In 1999, Mr. Morley co-founded investment firm Guggenheim Partners LLC, which has over $300 billion assets under management. He served on the Guggenheim Board as well as on its Executive Committee.

Patrick McConlogue

Patrick is co-founder and core developer of Block Collider and more recently, he and partners launched the first decentralized exchange called Borderless. Patrick’s passion for alternative financial instruments started in high school when he created a prototype for trading musicians’ royalties, while in college this evolved into a venture backed stock market for trading lucrative advertising traffic. Six years later Patrick left his quantitative role at Citadel to build Block Collider, a new kind of exchange which permits blockchains to trade data, coins, and state without centralization of any kind. Beyond economic productivity Patrick believes in technology and its role in social activism, self empowerment through education, and philanthropic good.

Dick Gephardt

Dick Gephardt served for 28 years in the United States House of Representatives from 1976 to 2004, representing Missouri’s 3rd Congressional District, home to his birthplace St. Louis. Mr. Gephardt emerged as one of the

*David Sams*

Before taking the helm of Delaware Life, Dave was Vice Chairman of G2 Investment Group from 2011. Having earned degrees from Dartmouth College and The Wharton School at UPenn, Dave became president of Mass Mutual, and then ran Sampson Enterprises for 12 years before joining G2.

*David Shuler*

Prior to co-founding Y2x, Dave was managing director at Paxos/itBit. Previously, he was managing director, Alliance and Venture Management of CME Group Inc. and served as SVP and chief of staff for NYSE. He previously held leadership roles at Goldman Sachs & Co. in New York and Japan, and he spent over a decade as a diplomat in the U.S. State Department.

*Antonio de la Rua*

Antonio is a Co-Founder of G2 Investment Group. He is also the Founding Partner and President of Bonds Cay Company Ltd. Antonio is the eldest son of former Argentine President, Fernando de la Rua, who governed Argentina from 1999-2001. He was an advisor to his father during his father’s presidency and one of the heads of his father’s presidential campaign.
Matthew R. Kennedy
Matt is the founder and managing partner of Converge, specializing in the development of Public Private Partnerships. Previously, Matt served in senior roles in the Obama Administration at the Dept. of Commerce, Dept. of Treasury and the White House. As director of the Office of Strategic Partnerships, at Commerce, Matt worked closely with the Overseas Private Investment Corporation and Export-Import Bank of the U.S. to develop innovative public-private partnerships.

David Coleman
David has spent his career reinventing mature technologies and industries through the power of information technology and supply chain solutions. Singapore-based for the past 15 years, David has developed and sold software platforms, built bottling and packaging solutions and developed supply chain solutions for some of Asia’s biggest companies. Prior to his move to South East Asia, David had active service with the Australian Army where he developed solutions for the United Nations. Post-army, he created and implemented transport plans for the 2000 Sydney Olympic Games and worked with BP’s Knowledge Management Team in the UK.

Steve Watts
Formerly president and chief operating officer of SAP’s operations across Asia Pacific and Japan, Steve is widely acknowledged for his leadership success building high-growth businesses and his deep expertise in new digital business models. He is a keen advocate of innovation, entrepreneurship, and continuous improvement. The past 3 years have seen him helping to govern and grow Next Generation companies. He is a graduate of Southern Cross University, INSEAD, and the Australian Institute of Company Directors.
Tim Lang

Tim founded LangTech and invented the Counter Current Extraction (CCE) technology to extract juice, fiber, flavor, and color from fruits, vegetables, and sugar cane to be used as natural food ingredients. Tim has more than 40 years of experience in the food processing industry, was instrumental in developing technology improvements for the Australian wine industry and has consulted for many food processing companies in Europe, North and South America, Australia, and New Zealand. Tim implemented the technology platform for Ocean Spray which now runs more than 20 CCEs in its production facilities around the world.

Elena Panaritis

Author of Prosperity Unbound... Building Property Markets with Trust, with a Master’s degree in International Economics and Business Administration, began working at the World Bank in Washington DC in 1991 where she created and supervised ground-breaking privatization and debt-restructuring programs for the country of Peru. Ms. Panaritis also worked on property rights reforms in the Philippines, judicial rights in Trinidad and Tobago, and she designed the conditions for a $100 million loan to Morocco.

Gary Nicklaus

Gary is a managing partner of Nicklaus Brown & Co, leading a team that co-invests with management in technology and financial services companies. He is also the chairman of Camden Capital, a director of Ad Genius, Goods & Services, and Nearshore Technology Company. He is chairman of the Children’s Healthcare Charity, Inc., a non-profit organization that manages the operations of the PGA Tour’s Honda Classic and is the primary beneficiary of the tournament. Gary is currently a Florida Fish & Wildlife Conservation commissioner, and previously served on the Board of the Wildlife Foundation of
Florida. He played professional golf on the PGA Tour and European Tour and has designed golf courses through the US, Mexico, Spain, and the UK.

**Shauna Mei**

Shauna Mei Devand started her career at Goldman Sachs and has worked in the Global Alpha fund in Asset Management, then Leveraged Finance Investment Banking and finally private equity at Goldman’s Merchant Banking division. Shana is an MIT engineer turned commerce and media industry expert that advises family offices and corporations on innovation, blockchain and impact investing including One Asia US LLC, a multi-strategy hedge fund; DNA, a crypto-advisory and consulting company; Reserve, a stable coin and Good Money, a blockchain based token incentivizing consumers towards conscious consumption. She is also a co-founding member of SHEOS.org, a female EOS block producer. Most recently, she was the EVP of Global Operation of Binary Financial, a market leading crypto brokerage and OTC company. She serves on the board of LynQ, a location-based peer-to-peer off grid wearable technology company and on DV Labs, a proprietary video compression technology company for live video.

**Louis Berger, Global Engineering**

Louis Berger is a global professional services corporation that helps infrastructure and development clients solve their most complex challenges. LB is a trusted partner to national, state, and local government agencies, multilateral institutions, and commercial industry clients worldwide. By focusing on client needs to deliver quality, safe, financially successful projects with integrity, the company is committed to deliver on its promise to provide solutions for a better world.