Titanium Blockchain

INFRASTRUCTURE SERVICES

TBIS

WHITE PAPER

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY

Version	Modifications Made	Author(s)
v1.0	Initial Draft	Michael Stollaire/Jason Brink
v1.1	DEXchange Added to Titanium's List of Products and Services	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v1.2	Titanium BAR Token distribution percentages modified to leave more to reserve, Referral Bonus program added, Titanium Storage added as a potential strategic partner, ZCash added as an approved currency to purchase BAR with, Pre-Sale period extended, due to the rapid increase in Bitcoin's (BTC) price causing a subsequent dramatic decrease in Ethereum's (ETH) value and the minimum amount of BTC/ETH raised to consider the ICO a "success" decreased, because of BTC's rapid price increase (doubled in price since release of v1.0 of this White Paper). Also, added a new section: "The EHI Advantage."	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v1.3	Increased the bonus for using the BAR within The Titanium Ecosystem to 10% from 5%. Also added verbiage to "The EHI Advantage" Section of the White Paper. Added verbiage about a defined soft cap of money that the project must raise for the project to be viable.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v1.4	Added Table of Contents	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v1.5	Moved Content, Added New Citations, Client Logos, etc.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v1.6	Changed security cap to 350,000 ETH.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v1.7	Added a figure of $35,000,000 for a hard cap.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)

v1.8	Added emphasis on Titanium being the first blockchain start-up ever, to obtain D&B and BBB accreditation.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v1.9	Replaced old roadmap Figure 1 image with new roadmap image.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v2.0	Based on audit results, added more corporate information, such as Federal Tax ID, California Corporation ID, etc. Also, added more Titanium Core Team information as well.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v2.1	Corrected DEXchange information, regarding the number of cryptocurrencies listed, the number of fiat currency pairs supported, and the guarantee that DEXchange could potentially charge the lowest transaction fees in the world, guaranteed.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v2.2	Added Five-Year Financial Projections for the Titanium Project.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v2.3	Re-Corrected an Incorrect Statement about the BAR Token, as it could potentially be the only currency that can be used in the Titanium Ecosystem.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v2.4	Added verbiage for Platform as a Service (PaaS), as an augmentation and synergistic element of IaaS.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)

v2.5	Added additional verbiage, regarding PaaS, more information about what cloud-based issues that Titanium would solve, greater detail as to how Titanium's deployment on blockchain functions and solves current problems, removed a subsection of EHI-based verbiage, pegging BAR to the USD vs ETH, Added "Why Titanium?" section, added verbiage about what happens in the case all BARs are not sold, the incentive for providing decentralized hardware, etc.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v2.6	Added Graphics for Payment Incentives for High-End Hardware in the Titanium IaaS/PaaS infrastructure and an overview graphic of IaaS/PaaS itself. Also, added graphics as to how decentralized resources, e.g., processor, memory and storage are delivered to the Titanium Infrastructure.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)
v2.7	Various wording changes, format changes, content moved/updated, etc.	Michael Stollaire/Artem Chupkhin (Legal)/Vincent Fullerton (Technical Advisor)

WHY TITANIUM?

- Titanium is first-to-market, regarding providing Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) on blockchain, our core competencies.
- Decentralized resources could potentially allow Titanium to charge at least 50% less than our competitors.
- Because of its decentralized nature, Titanium could potentially be able to promise customers uptimes of 99.99% for all services, applications, devices, etc.
- Cloud-based IaaS and PaaS are centralized, and therefore prone to outages, performance degradation, and typical hacker attacks, such as Distributed Denial of Service (DDoS).
- Titanium is the sister company of EHI, the first technology company that our Founder and CEO started, which has been in business close to two decades and can give a warm handoff of Fortune 500, Education and Government clients to Titanium.
- The Titanium Core Team has over two-hundred (200) years of experience, and are considered to be in the top 1% of their respective technology fields.
- Titanium is the very first blockchain start-up to achieve both Dun and Bradstreet (D&B) and Better Business Bureau (BBB) accreditation.

Figure 1: Titanium ~ Setting a New Precedent in Blockchain Technology

EXECUTIVE SUMMARY

Titanium Infrastructure Services:
The Ultimate Strength of the Blockchain… Unleashed™

- Titanium Blockchain Infrastructure Services (TBIS) finally answers the question: "What if an entire IT enterprise could be decentralized, including data centers, firewalls, load-balancers, routers, switches, network appliances and servers?"
- TBIS intends to disrupt the current market leaders in the provisioning and virtualization space.
- Our core product, Infrastructure as a Service (IaaS) will potentially be released as a Minimum Viable Product during Q1 2018, before March 1st
- TBIS is developed on the blockchain platform, so all changes in the environment and assets could potentially be recorded on an immutable ledger, to correlate with standard IT change management and ITIL methodologies.
- Follow-the-Sun enterprise management and monitoring services, autonomous healing, and optimized disaster recovery and redundancy mechanisms could potentially allow TBIS to potentially provide a significantly higher percentage of uptime of devices, applications and services, making them a market leader.
- Since TBIS would operate on the blockchain, the days of Distributed Denial of Service (DDoS) attacks and other black hat hacker exploits would effectively be over.
- Most, if not all, of the issues associated with similar cloud server products would be solved.
- The TBIS Administrative User Interface (UI) is intuitive and the simplest to use in the industry, and could potentially be available as a thick client, web-based thin client, and mobility applications on both Apple's iOS and Android platforms.
- UI wizards could potentially allow administrators to create any component of their infrastructure in mere minutes, designed in alignment with their growth factors, technical requirements and business drivers.
- Mean Time to Repair (MTTR) is projected to be significantly hastened, minimizing the cost of outages.
- Cost of ownership (COO) could potentially be reduced to minimal levels.
- Return on Investment (ROI) for clients that migrate to the Titanium IaaS platform, could potentially be achieved far faster than with traditional cloud-based solutions.

TITANIUM: The first blockchain start-up ever to acquire both Better Business Bureau (BBB) and Dun and Bradstreet (D&B) Accreditation

D&B Number: 080926636

Better Business Bureau (BBB) - Business ID: 756765

Federal Tax ID: 82-3126792

California Corporation Number: 4073241

TITANIUM: The EHI Advantage

What does EHI stand for? Excellence, Honesty and Integrity, because that is what we stand for.

Unlike 99.99% of Blockchain start-ups and Initial Coin Offerings (ICOs), the Titanium Core Team is not composed of relative newcomers to technology. In stark contrast, the Titanium Core Team has over two-hundred (200) years of combined experience. This is also not the first technology company that Titanium's Founder and CEO, Michael Stollaire, has ever formed. In 1999, Mr. Stollaire founded EHI, a technology consultancy specializing in enterprise infrastructure management, which is still thriving and growing today with Michael at the helm.

Two decades of experience taught EHI's personnel the strengths of infrastructure-based enterprise management, but it also unveiled the weaknesses of several solutions and problems that had to be minimized at several past customers.

Taking these problems and weaknesses under consideration, The EHI Team formulated a new architectural design on an entirely new bleeding-edge platform, The Ethereum Blockchain, which mitigated all of these issues. It was called Titanium, because the objective was to make our clients' technology infrastructure stronger than steel.

Also, EHI and its consultants are known in the industry as top-tier, elite personnel, as shown by their impressive Client List and Testimonials.

Most Blockchain start-ups and ICOs face a very serious problem after they develop a viable product and or service: finding companies and people that could actually purchase them and use them.

Titanium could potentially not have this problem. As EHI's sister company, Titanium could simply inherit EHI's clientele, and since EHI is considered a trusted source of excellent customer service and personnel, Titanium could potentially also be held in high regard.

In the eyes and opinion of Mr. Stollaire, in fact, Titanium is an organic evolution of EHI, and should effectively be considered "EHI v2.0."

What follows is a short excerpt of some of EHI's customers, which Titanium could potentially leverage immediately.

THE TITANIUM TEAM

TWO CENTURIES OF COMBINED EXPERIENCE

Titanium has many excellent assets and advantages, but nothing stands out more than The Titanium Core Team. Combined, The Titanium Core Team holds over two-hundred (200) years of combined experience in global infrastructure enterprise environments. Throughout seventeen years of experience in the technology sector, specializing in enterprise infrastructure management, Founder and CEO of Titanium, Michael Stollaire, made it a habit of identifying the most elite talent in technology, and made sure he kept in close contact with these individuals throughout the years. Over the course of time, Mr. Stollaire called in a favor or two to a handful on the list, to assist him with projects at Accenture, Boeing, Devon Energy, etc. However, with the advent of The Titanium Project, every resource that was accumulated over two decades was brought into the fold, forming an "A-Team" of the finest technology talent in the world.

MICHAEL STOLLAIRE

President & CEO

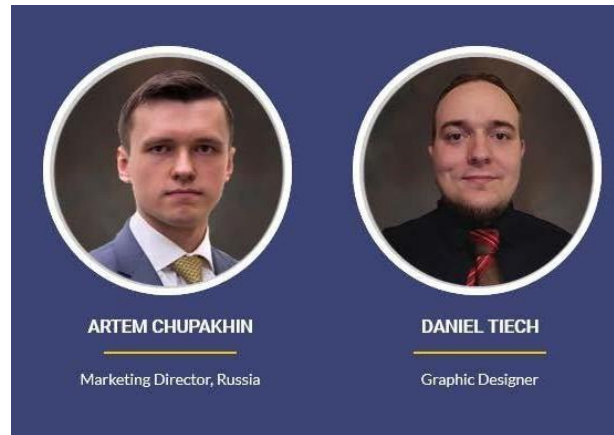**RICHARD SILVER**

COO/Director of Marketing

Figure 3: Team Titanium

BACKGROUND

Since the advent of the idea of an interconnected network in the 1960s, very little has changed regarding internet infrastructure. While today's internet has infinitely more interconnected servers, home computers, and most importantly, users, the functional technological framework has not changed since it was first envisioned by the computing pioneers of the '60s and '70s. Of course, server technology has improved since the first network arrays such as ARPANET, but the fundamental infrastructure hasn't changed – it is still based on large data centers and is centrally controlled by large companies who have their own interests at heart; these interests are not necessarily yours.

In 1999, the invention of virtualization software allowed for the creation of virtual machines (VMs) on high capacity servers. This saved companies around the world billions of dollars and allowed for the rapid growth of the consumer web hosting industry as hundreds of low traffic websites could be hosted in a very small amount of rack space as "servers" could be brought into being with the touch of a button. However, even in this situation, a disproportionate amount of power was placed in the hands of relatively few companies. Even today, up to 70% of internet traffic passes through server farms concentrated in Northern Virginia and operated by a single company. [1] While the status quo works, it is far from the ideal decentralized and democratized internet envisioned by our technological progenitors and which is only now becoming a possibility.

Welcome to the new world brought to you by Titanium Infrastructure Services (TBIS); We Are the Revolution.

A NEW ERA

Today, the largest transportation company in the world owns no cars (Uber), the largest hospitality company on the face of the planet owns no hotels (AirBnB), the largest retailer carries no stock (Alibaba), and the world's most popular media network creates no content (Facebook). Clearly, we are living in a time of radical change. Why should internet infrastructure be any different?

TBIS is proud to introduce decentralized/distributed Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) on the Ethereum blockchain platform. Today the internet, considered collectively, represents an estimated 11.5 million petabytes of data. As enormous as this it, it is dwarfed by the potential of a fully integrated and

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[1] As of the time of writing, roughly 70% of all Internet traffic passes through Amazon Web Services (AWS) server farms scattered throughout Northern Virginia. This centralization introduces a fundamental weakness to the entire infrastructure of the Internet; TBIS was designed to solve this problem.
Source: htps://www.washingtonian.com/2016/09/14/70-percent-worlds-web-trafc-fows-loudoun-county

interconnected global network scattered throughout the billions of desktops, servers, and networked devices. It is the leveraging of this system to which TBIS is dedicated. With completed proof-of-concept models created and functioning infrastructure forged by the greatest minds in the distributed computing industry, TBIS could potentially completely revolutionize internet infrastructure.

Just as steel changed the building industry forever, Titanium could potentially usher in a new era of network construction. With TBIS' proprietary IaaS, every device, from enterprise level on down, can be virtualized; routers, firewalls, and specialized equipment such as cryptocurrency miners, can exist in an entirely cloud-based environment. With Titanium Hydra Fault Tolerance, if a device falters, TBIS could potentially have already shifted load away and onto another network of redundant nodes. If a potential security problem arises, the TBIS system could potentially work automatically to limit the potential impact of attacks such as DDOS or other address-specific attacks; it is impossible to overwhelm a piece of equipment that exists only on the ether.

The backbone of the TBIS system is the Service Level Agreement (SLA) which can be constructed to optimize uptime of all devices, applications, and mission-critical services. The Titanium Control Panel could potentially make it possible for even an inexperienced user to create SLAs that could potentially be able to support enterprise-level support and network infrastructure for any person or company that has decided to be a part of the coming Titanium Revolution.

In short, TBIS IaaS could potentially render current infrastructure services, from web hosting to any network support device, archaic, obsolete and utterly useless. Just as iron supplanted bronze, Titanium is elemental to the future of the internet.

MISSION STATEMENT

"Our mission is to leverage the power of the immutable blockchain to provide virtual infrastructure services for businesses and individuals, creating a Titanium clad guarantee of reliability which had previously been wholly impossible."

Our team firmly believes in the disruptive power of the blockchain. Already, global business and finance are being transformed and disrupted by blockchain technologies. TBIS has already completed trials that demonstrate that it is possible to create entire infrastructure systems on distributed and redundant systems. Imagine a world in which businesses no longer need to have a networking closet full of expensive and temperamental equipment that rapidly becomes obsolete, requires tender care and reduces productivity through downtime or general digital surliness. All of the decaying equipment with yellowing casings can be replaced with digital titanium for a fraction of the cost of acquisition and maintenance of hardware

infrastructure, all while increasing uptime and reliability and completely eliminating maintenance.

TBIS's Infrastructure as a Service (IaaS) is a powerful and timely platform which is needed to usher in a new era of productivity for companies and individuals around the world by providing end-to-end internet infrastructure.
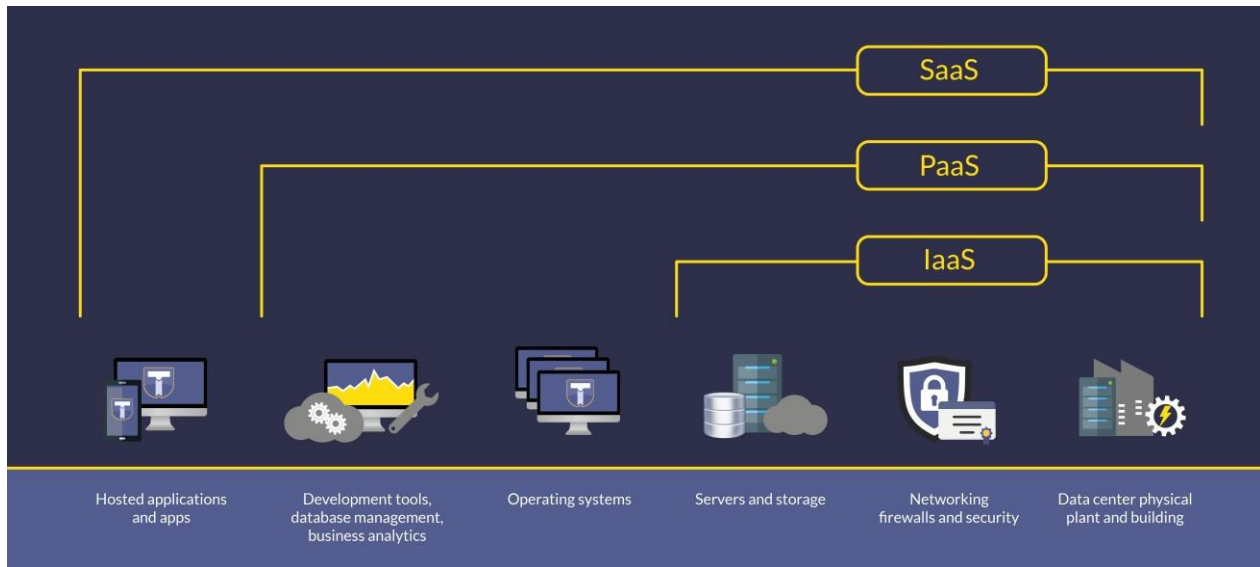
CORE OBJECTIVES, PRODUCTS AND SERVICES

Figure 4: Decentralizing the Entire Technology Infrastructure

Titanium Infrastructure Services (TBIS) has the following core components:

Infrastructure as a Service (IaaS)

The core competency objective and primary goal of TBIS is the creation and propagation of a shockproof distributed network infrastructure capable of replacing the bloated and inefficient hardware foundation upon which the internet of today is based. In essence: to build a better internet that cannot be controlled or destroyed by anyone and is open for all.

This could potentially include but is not limited to:

a) Maintaining and Enhancing TBIS' existing enterprise virtualization software package which enables the creation of network components such as servers, routers, switches, etc., in a distributed environment

b) Building and remaining as the de facto platform for creating, maintaining, patching and upgrading distributed enterprise IT environments
c) Making it quick and simple to virtualize entire enterprise-level infrastructure environments while simultaneously decreasing the cost-to-consumer and downtime while increasing network reliability, security, and convenience
d) Website hosting through the Titanium Virtual Server System could potentially be more reliable than existing shared hosting because unlike a traditional server, which can go down, the TBIS servers could potentially guarantee constant uptime and dramatically increased security
e) Implement the cutting-edge TBIS Enterprise Management Software with autonomous healing and security functions include in the Titanium Hydra Fault Tolerance Suite for all monitored elements and network components

Repurposing Legacy Hardware

First and foremost, we must point out that only enterprise-class resources could potentially become part of the Titanium infrastructure. This can and should include legacy equipment such as older versions of servers, storage arrays, etc.

Legacy Mining Equipment

A significant advantage of IaaS and the decentralized resources that it could potentially be composed of, is that it could potentially allow for repurposing of legacy hardware, including older versions of cryptocurrency mining equipment. Instead of them essentially being "expensive paperweights," we will potentially make them part of the Titanium infrastructure.

The Bar's (BAR) Role Within the Titanium Ecosystem

The Titanium BAR is a utility token and is the only currency that can be used within The Titanium Ecosystem, to pay for products and services.

The Titanium Bar (BAR) Token is a core component of Titanium and is designed to ensure flexibility and control over the future evolution of the project. BAR is created during the crowdfunding period (described in this whitepaper) and, following the first major release of Titanium, BAR could potentially be attributed a variety of functions in the Titanium network.

The supply of BAR is limited to the pool of tokens created during crowdfunding period.

TOKEN MECHANICS AND SALE DETAILS

This Token Mechanics and Sale Details summary does not constitute an offer to sell or a solicitation of an offer to buy TBIS's token, called "BAR", and is provided for informational purposes only in respect of TBIS's platform. The following summary reflects TBIS's current expectations with respect to token mechanics and sale of BAR, which are subject to change.

The Titanium BAR is a utility token and is the only form of currency that can be used to purchase products and services in The Titanium Ecosystem.

The Titanium BAR is not a security.

Soon, the TBIS token (BAR) could potentially be sold. As part of this sale, a fixed pool of BAR could potentially be generated. No further BARs could potentially be created in the future. BAR could potentially be a deflationary currency. Once the sale concludes, a portion of BAR tokens could potentially be allocated and given to the TBIS team as an incentive for the success of our platform, and a separate portion could potentially be held as a reserve pool and expenditure fund. The community could potentially hold 60% of all BAR, the TBIS team could potentially hold 20% of BAR (subject to a freeze period), 10% of BAR could potentially be reserved for various community bounties and 10% of BAR could potentially be allocated for the reserve pool.

Titanium BAR Token Sale

BAR tokens will be offered at a rate of 1 BAR for the equivalent of $1 USD of cryptocurrency for a sale duration of approximately sixty (60) days. During the first 72 hours, all BAR purchased could potentially be sold at a reduced rate. The sale is slated to begin on January 1, 2018, at 1 PM (GMT-7) and will end on March 1, 2018, at 11:59 PM (GMT-7).

The TBIS team has pre-determined a minimum goal (denoted in US Dollars) that represents the runway necessary for the core TBIS platform to be finished and released. If the minimum goal is not reached by the end of the sale duration, then all contributed Ether could potentially be marked for a refund. Anybody who contributed could potentially be able to withdraw their Ether from the sale contract. The soft cap figure is $1,000,000. The hard cap figure is $35,000,000.

Titanium BAR Pre-Sale and "Early Bird" Bonus Periods

Before the January 1, 2018 BAR token sale, a pre-sale period of approximately one month will transpire. During that time, investors that are willing to purchase a minimum

of $5,000 in the project will receive a 20% bonus. This would equate roughly to 1.2 BAR for $1 USD.

Three (3) bonus periods will be offered at the beginning of the sale to provide early bird contributors a small incentive. During the first 24 hours of the funding period, the exchange rate will be 1.15 BAR for $1 USD, a 15% bonus. For the 48 hours after that, the exchange rate will be 1.1 BAR for $1 USD, a 10% bonus. For the 48 hours after that, the exchange rate will be 1.05 BAR for $1 USD, a 5% bonus. After the early bird periods, the price of BAR will remain at 1 BAR for $1 USD for the rest of the sale.

Note: The exact start date, duration of the discount period, and duration of the sale will be determined by block numbers, and thus are approximated with an accuracy of a couple of minutes.

Half of the tokens (10% of the total token pool sold) retained by the TBIS team will be frozen for one year (12 months) from the end of the sale, with the other 10% remaining frozen for an additional year (a total of 24 months). This freeze period ensures that no developer tokens could potentially enter circulation before the TBIS platform is live.

Any tokens purchased as part of the sale will be immediately allocated to the buyer, but could potentially be locked from transfers until the minimum goal has been reached. In a short amount of time after the sale starts, these tokens could potentially be spendable in the TBIS mainnet demo app, once the minimum cap is reached.

Unsold BAR Tokens

Titanium BAR tokens are created as they are sold. The team and bounty, etc. allocation gets created at the same time. Once the sale is over we could potentially terminate the crowdsale contract, which could potentially prevent new tokens from being minted. Therefore, BAR tokens could potentially not be "burned."

Referral Bonus

During the pre-sale and general ICO crowdfunding periods, a referral bonus of 5% could potentially be paid to existing Titanium BAR Token owners, if they refer other individuals to the Titanium BAR Token sale that proceed to purchase the minimum amount of Titanium BAR Tokens, equivalent to 0.01 ETH or greater.

OPERATIONS AND ROADMAP

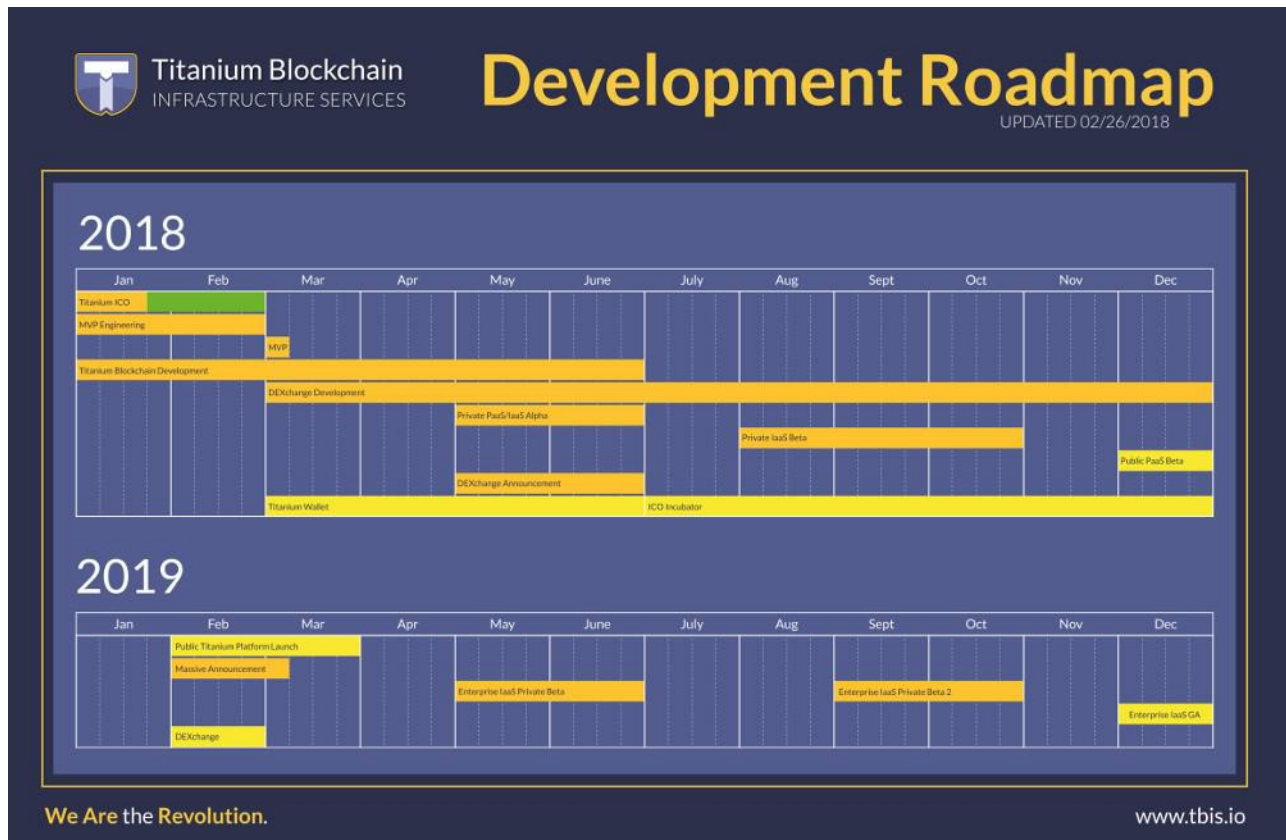TBIS features could potentially be released in the following order:

Figure 1: The feature release schedule for the TBIS platform.

KEY ACTIVITIES

Platform Development, Testing, and Maintenance

Further development and continued maintenance of the core TBIS platform is the primary cost that TBIS could potentially expense in the near future. This allocation of resources could potentially be put towards the compensation of the core TBIS team, and any future personnel who are signed onto the TBIS team, as necessary. This could potentially primarily consist of Software Engineers, Platform and Infrastructure Engineers, Customer Service and Support Specialists, and Product Strategists.

Auditing

To minimize risks to TBIS users, we have reached out to multiple trusted security and software verification firms which specialize in smart contract auditing. These auditors could potentially be responsible for verifying our smart contracts before deployment, in addition to the rigorous set of internal testing performed by the TBIS team. Given the sensitive nature of TBIS's platform, we believe that it is better to err on the side of caution and could potentially devote all of the necessary resources to ensuring a safe and secure platform for all TBIS users.

Business Growth and Development

We could potentially be marketing our platform to ensure healthy growth. This is not only important for ensuring that TBIS remains the best platform for deploying smart contracts, but also for marketplace participants, as their ability to earn BAR could potentially depend entirely on the size of the user base. We intend to acquire new users via targeted marketing, first focusing on targeting early adopters and businesses already building on blockchain technology. We could potentially quickly extend our efforts towards additional channels to bring new users to both the TBIS platform and Ethereum in general. We intend to appeal both personal uses as well as businesses. That said, we view business growth in a holistic manner. We believe in demonstrating value first, as well as attracting attention through collaboration. As noted in our roadmap, we intend to organize at least one hackathon to jump-start the contract marketplace. For this event, we intend to create voter tokens and to have participants choose winners. These winners could potentially receive free auditing and early availability of their developed smart contracts on the marketplace. We could potentially also form partnerships with other blockchain innovators to create mutual value for our users. We could potentially focus our business development efforts on those technologies with identifiable synergies and compatibilities with TBIS. We put

open and honest relationships first, and seek to mutually encourage innovation and growth.

Legal

Our platform could potentially require users have a clear understanding of the rights and responsibilities of all parties involved in using TBIS. Once our token sale has concluded, we could potentially invest the necessary time and capital in developing user agreements for smart contract deployment and marketplace sellers. Future legal costs are also accounted for here.

Future Goals

Bugs and unforeseen flaws are an inevitable risk with any programming code, regardless of how thoroughly they have been vetted and reviewed. TBIS could potentially strive to provide its users with the maximum amount of assurance possible by implementing enhanced security measures in any contract where appropriate. The ability to stop a rogue contract in a structured, pre-determined way could potentially prevent high-value losses and ensure a safe platform for everyone, without resorting to or relying on controversial hard-forks. We also recognize that the technology landscape is quickly evolving, and that our platform infrastructure must remain agile and adapt to changing conditions. As new technology and solutions such as decentralized hosting and storage stabilize and gain adoption, we intend to move more and more of the TBIS platform to these services. This could potentially ensure that our platform remains the preferred solution for smart contract deployment.

LEGAL CONSIDERATIONS

The most current version of this document, accessible on the web at:

https://tbis.io

The version available at that URL represents the only valid version of our whitepaper.

BAR are only functional tokens intended to be used to compensate TBIS for use of its platform. These tokens could potentially give access to the TBIS mainnet demo app as soon as the minimum cap is achieved. BAR are not for speculative investment. No promises regarding value or future performance are made regarding BAR. No promises regarding any particular value of BAR are made. No other rights associated with holding BAR are given. Proceeds of the token sale may be spent as the company sees appropriate, which may change as deemed necessary in the maturation and advancement of TBIS.

Our team is investing heavily in the safety and security of the services TBIS provides, as detailed previously. However, we cannot protect against all possible sources of error, especially those in parts of the technology stack we cannot control. Therefore, all risks assumed by using the TBIS platform in any capacity, including but not limited to deploying smart contracts, creating and destroying virtual devices, and collecting BAR through the marketplace are solely assumed by the user. Users must measure the gravity of potential value loss against their trust in the services TBIS could potentially provide and act as they see appropriate. Never trust anything that one cannot afford to lose to any entity, TBIS or otherwise, without fully understanding all of the mechanics involved in the whole procedure. BAR tokens are meant to be held and used by those well-versed in cryptographic tokens, only for the purpose of accessing the services offered on the TBIS platform.

TBIS and its team must abide within the laws set forth in its operational country(ies).

We intend to provide our services in as decentralized a fashion as reasonably feasible, but our legal entity must act according to the rules and bounds encoded in applicable laws. This includes but is not necessarily limited to laws governing financial operations, employment, fee charging, and sales.

APPENDIX A: Example Solidity Escrow Contract

```solidity
contract decentralisedAuction{
 struct auction {
                uint deadline;
 uint highestBid;                        address
highestBidder;                       uint bidHash;
        address recipient;
            }
        mapping(uint => auction) Auctions;   uint
numAuctions;

        function startAuction(uint timeLimit) returns (uint auctionID){
 auctionID = numAuctions++;
                Auctions[auctionID].deadline = block.number + timeLimit;
 Auctions[auctionID].recipient = msg.sender;
            }
        function bid(uint id, uint biddersHash) returns (address highestBidder){
 auction a = Auctions[id];
                                if (a.highestBid + 1*10^18 > msg.value || a.deadline > block.number)
{
                         msg.sender.send(msg.value);
 return a.highestBidder;
                    }
                     a.highestBidder.send(a.highestBid);
                     a.highestBidder = msg.sender;
                    a.highestBid = msg.value;
                    a.bidHash  = biddersHash;
                   return msg.sender;
        }
             function endAuction(uint id, uint key) returns (address highestBidder){
                    auction a = Auctions[id];
                 if (block.number >= a.deadline && sha3(key) == a.bidHash) {
 a.recipient.send(a.highestBid);
                                clean(id)
                    }
        }
          function clean(uint id) private{
                auction a = Auctions[id];
 a.highestBid = 0;
                     a.highestBidder =0;
                    a.deadline = 0;
                    a.recipient = 0;
                    a.bidHash = 0;
        }
}
```