The Future of Digital Health



Bowhead Health

For a Happier and Healthier World

July 13th, 2017 **V3.4**

Abstract

The world's healthcare is broken and needs to be fixed. Per the World Bank, global spending on health is expected to increase to \$18.28 trillion. Despite this, many people do not know how to keep healthy and prevent diseaseⁱ. Many developing nations do not even have the most basic of healthcare services and technology. Generic drugs, which are more cost effective, often do not reach people who need them most. However, times are changing. Leaps are being made in digital health technology and preventive medicine, and generally speaking, human lifespan is increasing. Remote at-home testing and diagnostic devices are seeing rapid advances and will revolutionize convenient and accessible healthcare at home.

We believe that lack of access to convenient personal healthcare services is a barrier to humans around the world, keeping them from having longer, healthier and happier lives.

Beyond these challenges are opportunities. We are in a stage where large-scale incumbent healthcare providers, hospitals, technology firms and pharmaceutical companies are competing to *control* patients' data in a centralized system for their own benefit. Naturally, this reduces the portability of data for patients and further entrenches the incumbents and solidifies their grip on patient data. Bowhead envisions a decentralized Blockchain-based health data repository controlled by the patient to ensure optimal security, portability and personal benefits.

Blockchain is a perfectly suited transparent system upon which customers can use Bowhead Tokens to pay for healthcare practitioners, nutritional supplements and medicine. Customers will also receive Bowhead tokens for participating in health-promoting activities or clinical studies as part of an integrated program to incentivize preventive health and better treatments.

Bowhead believes personalized, secure and high quality healthcare is possible for **everyone**.

A Proven Leadership Team

Bowhead is a Canadian-based company with a team of medical doctors, biochemistry and data scientists, software and robotics engineers, designers and wellness coaches.

Dr. Rhea Mehta, Chief Executive Officer in

Dr. Mehta is a Molecular Toxicologist and Nutritional Biochemist and Integrative Nutrition Coach. Rhea has over 10 years of experience in health-related research and practice, and as a wellness community builder. Rhea graduated from University of Waterloo and the University of Toronto.

Dr. Francisco Diaz-Mitoma, Chairman in

Dr. Diaz-Mitoma is a certified physician, scientist and cofounder of Variation Biotechnologies (NASDAQ: VBIV). Francisco has over twenty years of experience building healthcare solutions. Francisco graduated from the University of Alberta and University of Guadalajara.

Saúl Bueno, Chief Technology Officer in

Saúl is a robotics engineer whose team won the Latin American Robotics Championship in 2013 after designing an autonomous beach cleaning robot. Saúl most recently designed BMW's intelligent HUD. Saul graduated from Tecnológico de Monterrey.

Francisco Diaz-Mitoma Jr., Head of Product in

Francisco is a software architect with over 15 years of experience building scalable online technology products. Francisco is the cofounder of Playsino and Revenue.com. Francisco graduated from McGill University and was honored as a Forbes 30 under 30.

David Bueno, Manufacturing Lead in

David is currently the COO of Plasticos Arcoiris, a plastic manufacturer with over 600 employees and a certified FDA-approved facility. David is a product engineer who graduated from Tecnológico de Monterrey.

Advisors

Raja Jindal in

Raja is the cofounder of BIOIQ. BIOIQ simplifies health measurement for organizations and empowers individuals to take action to improve their health. BIOIQ has screened over 2.5M people. BIOIQ provides health services to health plans, wellness providers, employers and government. Raja graduated from MIT and UC Santa Barbara.

Cristina Randall in

Cristina is the cofounder of Conekta. Conekta is one of Mexico's leading financial companies. Cristina has worked in Asia, Africa, and Europe in a range of fields from investment banking, economic development in the non-profit sector, and coding software for some of the fastest-growing technology companies. Cristina studied Systems Engineering at the University of Waterloo and is passionate about cryptography.

Peter Kroll

Peter Kroll is the inventor of the Bitcoin Paper Wallet (<u>bitaddress.org</u>). A novel and secure open-source method for safe guarding your bitcoins in a cold storage wallet. Peter is a software developer and blockchain advisor heavily involved with Bitcoin since 2011. Peter founded the Atheist & Agnostics community on the Kiva.org platform; one of the largest communities of micro-lenders in the world.

Market and Industry

Per Deloitte's 2017 report, the global healthcare market is predicted to reach \$8.7 Trillion USD by 2020.

In vitro diagnostics is medtech's largest segment and it is projected to remain so for the next several years, growing annually by 5.1 percent between 2014 and 2020, generating sales of \$67.3 billion, or about 14 percent of the global market¹¹.

For healthcare startups in 2016, below are the most funded categories:



GENOMICS AND SEQUENCING

Sequencing technologies, including hardware (e.g., sequencing on a chip) and software (data aggregation)



ANALYTICS AND BIG DATA

\$341_M

Data aggregation and/or analysis to support a wide range of healthcare use cases



WEARABLES AND BIOSENSING

\$312м

Wearable or accessory devices that detect specific biometrics and are designated for consumers



TELEMEDICINE

\$287м

Delivery of healthcare services (synchronous or asynchronous) through non-physical means (e.g. telephone, digital imaging, video)



DIGITAL MEDICAL DEVICES

Hardware/software designed to cure/mitigate/treat/prevent a specific disease or condition



POPULATION HEALTH MANAGEMENT

Comprehensive delivery system tools to manage the health of populations under the shift to ACO models

Source: Rock Health Funding Database

Note: Only includes U.S. deals >\$2M; data through December 31, 2016

Largest acquisitions in digital health of 2016

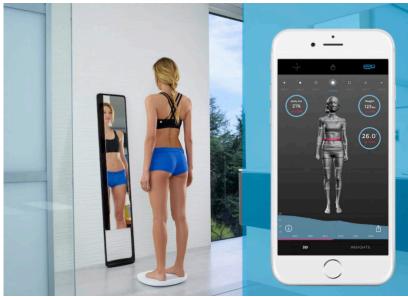
	Acquired By	Transaction Value	Prior Venture Funding	Investors
Truven Analytics	IBM	\$2.6B	Undisclosed	InvestMichigan
Netsmart Technologies	Allscripts	\$950M	\$4.5M	Andrew Carter Capital, Mosaix Ventures
Brightree	ResMed	\$800M	Undisclosed	Battery Ventures
Assurex	Myriad Genetics	\$410M	\$86.7M	Sequoia Capital, Claremont Creek Ventures
Cardon Outreach	MedData	\$400M	Undisclosed	Serent Capital
RevSpring	GTCR	\$400M	Undisclosed	CIP Capital
Valence Health	Evolent Health	\$219M	\$45M	Heritage Group, North Bridge Venture partners
Emmi Solutions	Wolters Kluwer Health	\$170M	Undisclosed	Primus Capital Partners
CenTrak	Halma	\$140M	\$832K	Undisclosed
HealthiestYou	Teladoc	\$125M	\$30.1M	Frontier Capital

Source: Rock Health M&A Database

Note: Only includes U.S. targets; data through December 31, 2016

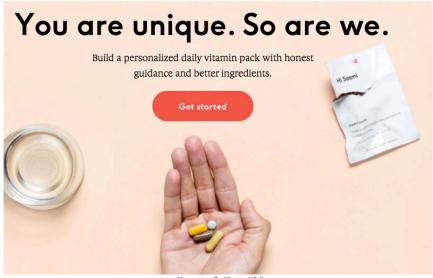
Current and Upcoming Trends

Technology is rapidly entering into healthcare and personal wellness. Some health insurers are providing their customers with Apple Watches to monitor fitness and heart rate. Other companies even create a smart scale that maps out a user's body and streams data back to their smart phone. These technologies have proven to be vulnerable to hackers - unlike the Bowhead Blockchain model.



Source 1 naked.fit

Some startups are even turning to online surveys to receive dosage recommendations:



Source 2 Care/Of

Although the packaging above is personalized with a customer's name, the startup Care/Of does not provide doctor-recommended dosages based on biometric testing. Over-supplementing on vitamins and minerals and nutrient-to-nutrient or nutrient-to-drug interactions can be as dangerous as under-supplementation. Despite this clear problem, the supplement and vitamin industry remains unregulated and claims annual sales of \$230B USD globally.ⁱⁱⁱ

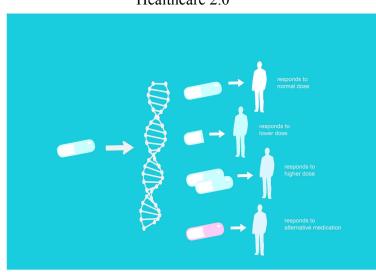
Vitamins and nutritional supplements are effective when they are delivered in appropriate dosages and quality formulations based on data received from biometric testing. The Bowhead team has compiled years of well-researched evidence here.

People need personalized health

Healthcare 1.0



Healthcare 2.0



Some consumers have started taking matters into their own hands by ordering at-home test kits directly from labs. The process involves pricking their fingers and/or producing saliva and then shipping the samples to laboratories in order to receive data on specific biomarkers. While this is a step in the right direction, the results consumers receive in return are difficult to understand and probably overwhelming to most lay people. Bowhead solves this problem by making data easy to digest and comprehend.

While our full product advances towards FDA approval, we will ship third-party at-home test kits with a prepaid return envelope. Once tests are received and analyzed, our customers will receive easy-to-understand lifestyle suggestions and supplement recommendations provided by a certified healthcare professional.

High quality supplementation and vitamins

Many of the supplements and vitamins on the market are made with animal products without consumers even knowing the source. For example, most <u>vitamin D3</u> is made from <u>lanolin</u>, <u>which</u> comes from sheep sebaceous glands.

Bowhead will be sourcing pharmaceutical grade vegan supplements as it develops its ecoconscious product line. Bowhead is committed to providing the highest quality of products, including non-medicinal ingredients. We will ensure our community and customers are able to make educated and informed decisions by being transparent about our manufacturing and production process.

Bowhead Platform

Over the last 18 months we have developed working prototypes of the following:



The Bowhead test reader and dispensing device is connected to the internet and can monitor the health of individuals at home and can also be a remote resource used by healthcare professionals to provide timely advice to people in need of health attention and direction. The Bowhead device can dispense personalized selections and dosages of nutritional supplements and medicine based on a customer's unique needs.

Eventually the instrument will be able to receive data from other biometric sensors used by customers, such as wearables, mobile health tracking applications, heart rate monitors, blood pressure devices, pedometers, and other smart devices that could assist Bowhead practitioners in monitoring and providing recommendations to customers.

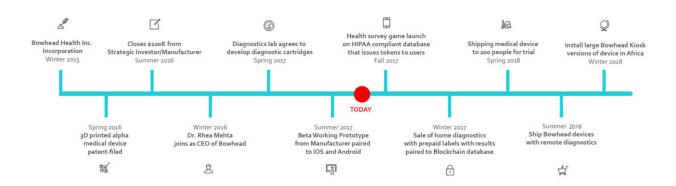
Through Blockchain technology, users will have access to their own secured personal health information while benefiting from an ever-growing knowledge base of anonymized collective health data curated to deliver wellness and longevity solutions.

How it works*

- 1. User provides a blood prick (similar to glucose test) or saliva sample that is placed in the test cartridge
- 2. User follows instructions and inserts cartridge into the side of the device for reading
- 3. The Bowhead device uses computer vision and an algorithm to determine strength of signal and test results, then it interprets the results for that user
- 4. Based on the test result and the qualitative data provided by the user, a licensed healthcare professional provides a recommendation and dispensing occurs
- 5. All signals are monitored securely and stored using Blockchain technology

*pending FDA approvals

Roadmap



Blockchain database

According to Harvard Business Review, interoperability of medical data among institutions has followed three models: push, pull and view. Blockchain offers a fourth model, which has the potential to enable secure lifetime medical record sharing across providers^{iv}.

Below is the full text (HBR.ORG, March 2017):

Push is the idea that a payload of medical information is sent from one provider to another. In the U.S. a secure email standard called Direct is used to provide encrypted transmission between sender (for example, an E.R. physician) and receiver (for example, your primary care doctor). Although this has worked for health care providers in the past, it assumes that infrastructure is in place to actually make it work, such as the existence of an electronic provider directory for the community and a set of legal agreements enabling widespread sharing of data. Push is a transmission between two parties, and no other party has access to the transaction. If you end up being transferred to another hospital, the new hospital may not be able to access data about your care that was pushed to the first hospital. There is no guarantee of data integrity from the point of data generation to the point of data use — it is assumed that the sending system generated an accurate payload and the receiving system ingested the payload accurately — with no standardized audit trail.

Pull is the idea that one provider can query information from another provider. For example, your cardiologist could query information from your primary care doctor. As with push, all consent and permissioning is informal, ad hoc, and done without a standardized audit trail.

View is the idea that one provider can view the data inside another provider's record. For example, a surgeon in the hospital operating room could view an X-ray you had taken at an urgent care center. Security approaches are ad hoc, not audited in a standardized way, and not necessarily based on an existing patient-provider relationship.

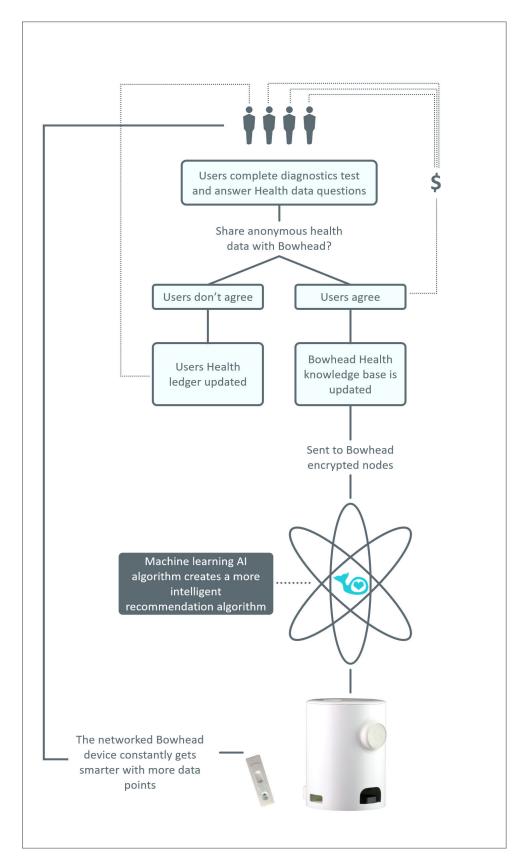
All of these approaches work technologically, but the policies surrounding them are subject to institutional variation, local practice, state laws, and the rigor of national privacy policy enforcement.

Blockchain is a different construct, providing a universal set of tools for cryptographic assurance of data integrity, standardized auditing, and formalized "contracts" for data access.

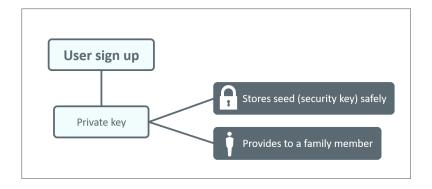
By using Blockchain, health records can be interoperable across different organizations, while remaining secure and up to date.

Blockchain is already being successfully used to manage healthcare records in Estonia^v. Bowhead will use a similar model with a patent-pending Bowhead innovation called the *Anonymized Healthcare Token* which uses smart contracts to produce this enforceable flow:

- 1. Research institutions or pharmaceutical companies will contract Bowhead services and make query profiles of clinical attributes they are looking for in their research and offer a leasing bounty
- 2. The decentralized system will have an intermittent function where anonymized patient records are compared against the institution's research attributes
- 3. Patients will have the option to participate in the clinical study upon consent
- 4. Patients and an independent ethics committee will review the leasing offer for anonymized patient data and any additional characteristics of the study
- 5. If a patient consents to participate in a study, they will have full control on what is leased using a smart contract. We envision customers keeping personal data such as their full name, address or personal identifiable information secure and private
- 6. Patients will have access to the Bowhead network of healthcare professionals for consultations and patients will be able to control who has access to what personal/medical information

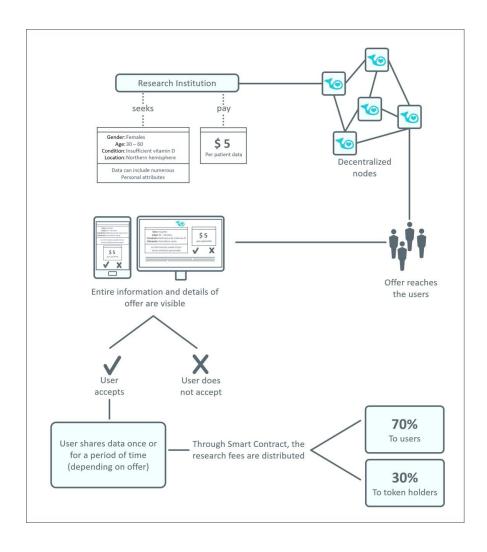


Users have full control of their health data. They decide if, when, where and how it can be used. Any access or study privileges that the user has configured could also be revoked by them at any time.



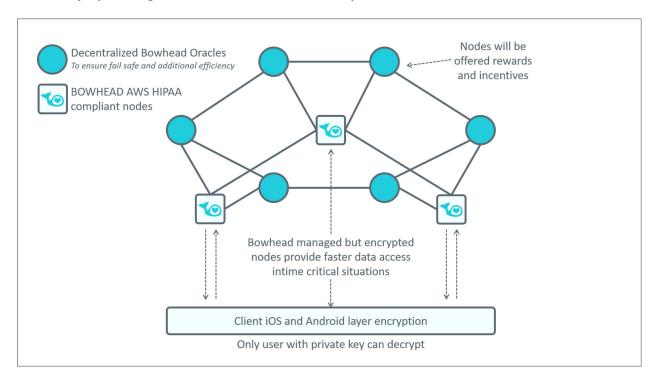
Below is an example of how customers could be anonymously rewarded via tokens by sharing their health data.

This eliminates the need for middle person companies who provide clinical study leads, often times handling sensitive patient data. Perhaps most importantly, the customer becomes the one who can control the who, what, when and how of that data. Bowhead intends to give individuals this power back and let them keep it.

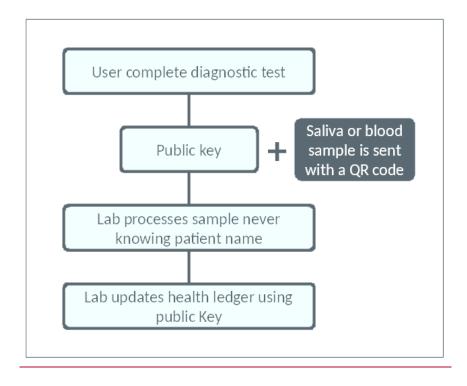


Using health data to fuel crypto economics

We believe health data is some of the most valuable data in the world. Bowhead will use anonymized customer health data to add value, while ensuring data is protected using cryptography. Customers benefit by gaining access to quality healthcare and may also benefit financially by leasing access to their data in an anonymized manner.

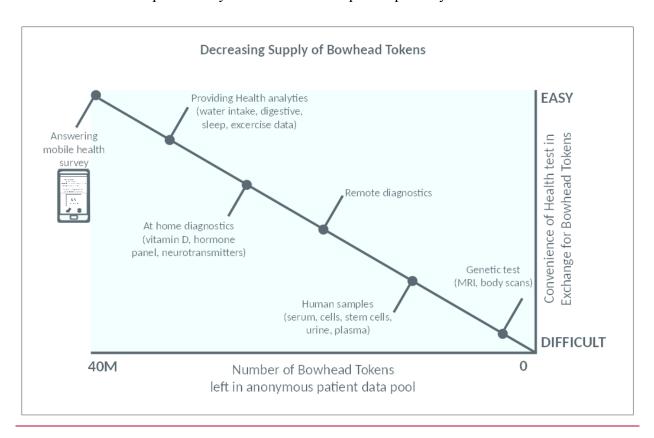


For example, every new customer that completes a health-focused survey or completes a biometric test may have the option to receive Bowhead tokens.



If a research institution or pharmaceutical company would like to purchase data, participants and the token holders can greatly benefit. Our current proposal is to provide 70% of the funds paid by the research institution for a particular data set to the customers who provided data and 30% of the funds go to the Bowhead token holders.

Because the Blockchain cannot access data outside the network alone, an oracle (also known as data feed) is also required. This is a service provided by a third party for use in smart contracts. The supply of the Bowhead tokens will decrease, with an oracle embedded into the Bowhead system architecture to update token payouts for different activities stipulated in smart contracts. These amounts will update every two weeks and be posted publicly.



We understand the complexities of developing this system alongside The Health Insurance Portability and Accountability Act or HIPAA compliance. Therefore, we will work with Medstack (a cloud-based hosting platform for Healthcare Apps), which currently has HIPPA compliant AWS (Amazon Web Services) infrastructure and roll out the entire Bowhead infrastructure gradually to remain in compliance and mitigate risks.

Biometric Tests

Bowhead is developing its testing platform in partnership with an FDA-certified laboratory and manufacturing facility in Southern California. The technology used is called lateral flow assay, which is the same technology currently used in over the counter pregnancy and fertility tests. Bowhead's partner develops the fertility and pregnancy tests for the leading pharmacy in the United States.

We have received non-binding estimates to develop the tests below. In addition, we expect a one year waiting period for the Food and Drug Administration in the US to authorize our tests for:

- Vitamin D
- Cortisol and DHEA (biomarkers for stress)
- Malaria
- Tuberculosis
- Sex hormones

We also see an excellent opportunity to work directly with foreign governments such as Ghana to help solve the health burden of Malaria and to alleviate the pressure on the local healthcare system. According to the World Malaria Report 2011, malaria accounts for 40% of public health expenditures vi. We believe that Bowhead could have a positive impact by saving lives and by reducing expenditures through accessible testing and dispensing of medicine without the need for hospital care.

We have signed a formal agreement with a laboratory and a manufacturer that are suited to delivering our vision. Key terms of the development agreement are:

- Bowhead maintains the exclusive right to use cartridges where an automated dispenser is part of the user flow
- Bowhead co-shares on expenses (listed on Use of Proceeds)
- Stock options are provided to manufacturer once the tests (except for malaria and tuberculosis) receive FDA clearance

Bowhead hardware device



Bowhead currently has a prototype device that has the following functional operations:

- Communicates with a Bowhead OpenCV implementation for use of computer vision in a colorimetric analysis of strips. In other words, the computer can read and understand particular colors exhibited in the cartridge due to biometric response
- Refills, counts and dispenses spherical gel capsules
- Pairs with iOS and Android devices
- Indicates the percentage remaining of a particular nutritional supplement or medicine

The prototype was designed using auto-cad, 3D printing, raspberry Pi and CNC plastic molding. Bowhead's first investor and device manufacturing partner provided all the plastic components and worked in tandem with Bowhead's engineering team during the assembly process. They have extensive pharmaceutical experience providing plastic products such as eye droppers and pill bottles to leading companies such as Bayer, GSK, and Sanofi Pasteur.



Bowhead is currently working on reducing the number of moving parts from 53 to 12 in the next version to reduce the costs of tooling and molding. Although we have a strategic partner that has the capability to efficiently design, develop and manufacture molds and parts en-masse, there will be significant fixed costs incurred.

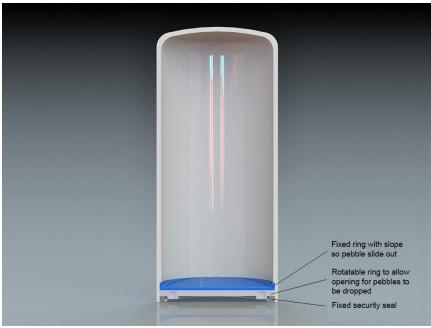
There will also be security features added to the dispenser to prevent child access to supplements and medicine or tampering to override the systems designed use.

Proprietary capsule feeder

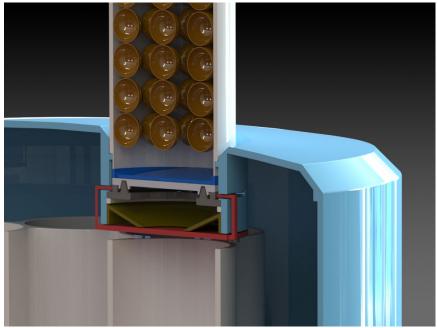
The proprietary capsule feeder is a refillable plastic cartridge that arrives in the mail when a customer is out of nutritional supplements or medicine.



Source 3 The Bowhead Capsule Feeders are designed to be tamper proof



Source 4 Pebbles (vitamins/medicine) arrive in a recyclable tube to be fed into dispenser



Source 5 Bowhead Device's Proprietary Feeder System

The capsule feeders shown above are designed to hold a 90-day supply of capsules or pebbles.

To protect the environment, and if economically feasible, we plan to offer a return label so customers can ship back cartridges to reduce plastic waste.

Bowhead envisions the capsules arriving in a box that fits up to 6 different feeder cartridges:

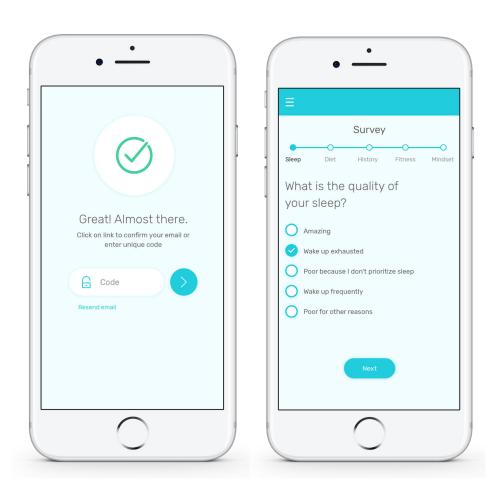


Mobile software application

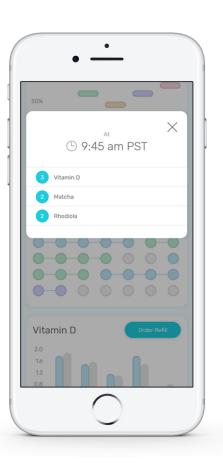
Like all elements of this project, it is important to note that the Bowhead mobile software application will be a constant work in progress.

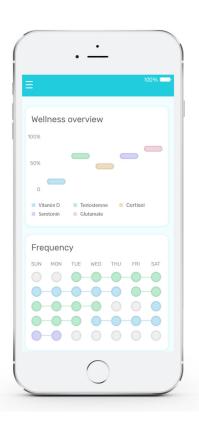
We envision an advanced version of the Bowhead mobile app being available on iOS and Android with the following features:

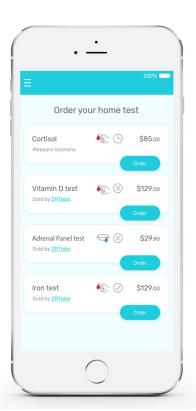
- Ability to pair with the Bowhead device
- Add/manage cryptocurrency and fiat credit cards
- Track frequency of supplementation and medicine
- Enable the addition of family members or roommates with different viewing settings
- Notifications and reminders for dosing
- Secure chat with medical or naturopathic doctors
- One click ordering of vitamins/supplements and diagnostic tests
- Communicate directly with chat and help topics
- View Anonymized Patient Token offers
- Gamified interaction to promote healthy activities throughout the week incentivized by tokens

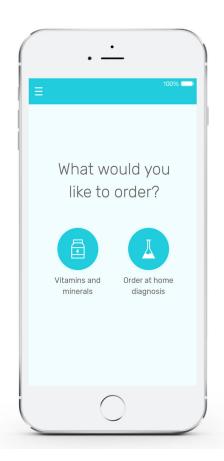


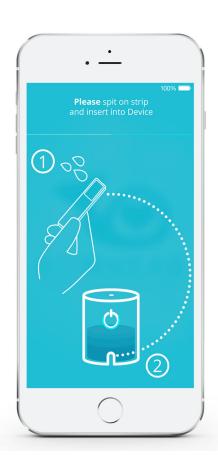












Supplements and Medicine

All supplements will be vegan and free from irritants or disruptive fillers and manufactured in pharmaceutical grade facilities in Japan that have FDA and GMP (good manufacturing practice) certified facilities.

The first nutritional supplements we plan to sell will be priced at \$29 per month each or \$129 for six types of supplements per month. Below is the list of supplements we plan to offer:

Supplement	Helps support
Vitamin D	Overall health
Probiotics	Gut health
Curcumin	Gut health and longevity
B-complex	Overall Health
Diindolylmethane	Hormone health
Magnesium	Glucose metabolism and sleep
Rhodiola	Adrenal health

Global ambitions

We intend to launch consumer devices in developed markets where people can more conveniently and cost-effectively detect disease-promoting vitamin deficiencies and hormone imbalances. We also believe that our platform and tests could benefit the developing world, particularly in areas where malaria and tuberculosis are prevalent. For example, we believe we can install kiosks that have solar panels and anti-vandalism systems with biometric logins, and larger cartridges for medicine that could service small villages and communities in remote areas without the need for a doctor

Benefits to people: User Scenarios

At Bowhead, we believe people should conveniently and frequently be able to test for wellness and disease prevention and receive the most personalized supplementation or medicine available. We also believe in the security of health data and in giving the power back to individuals. We see this advancement in healthcare access, delivery and security bringing significant benefits to a wide range of people.

Worker in Nigeria

Simon is on his way to work but he is not feeling that well. He runs to a local Bowhead kiosk that is 12 feet tall and 5 feet wide on each side. The roof of the Bowhead kiosk is solar paneled and on the front there is a touch screen.

Simon enters his username and password into a touchscreen and a saliva sample cartridge is ejected from the machine. Simon places his saliva sample into the cartridge and re-inserts the cartridge into the machine.

Bowhead instantly diagnoses that Simon has malaria and dispenses medicine to help him. His patient data is updated using Blockchain technology and he is provided with instructions on how to take his medicine and when to follow up with the Bowhead Kiosk again.

Vegetarian athlete in Manhattan

Samantha feels more tired than usual and orders a vitamin B12 test from the Bowhead application which arrives on her doorstep a couple of days later.

After opening up the package, Samantha takes a small lancet, pricks her finger and places a few drops of blood onto a cartridge, which she places inside the device. Samantha is informed that she is B12 deficient, a common issue with vegetarians. Samantha orders B12 vitamins via her mobile application, along with a few other nutritional supplements that are recommended to her for general wellness based on her qualitative survey. A couple of days later, her supplements arrive and Samantha places the cartridges in her Bowhead device.

Samantha takes her B12 and other supplements regularly thanks to the notifications on her app and is prompted in 30 days to repeat the test.

Benefits to Researchers

Researchers will have the ability to securely request user data and reward users without engaging any middle-people. Besides the obvious efficiency gain, all of these transactions will be trusted and secure through enforcement of cryptographic smart contracts.

Benefits to doctors

Doctors will benefit from Bowhead's system because information is easily reconciled. They will have access to data relaying their patients' level of compliance and then view the results of user-friendly surveys completed by those same patients in order to measure the outcomes of treatment.

Benefits to governments and NGOs

Governments will be better empowered to monitor the health of their population and know where they need to invest before epidemics break. Governments and Non-Governmental Organizations who loan aid to other governments in the developing world can use the Blockchain to ensure that funds are not lost before funding their intended programs and track instantly with analytics how efficiently health dollars were used.

State of Intellectual Property Rights

Bowhead Health Inc. filed a patent pending April 21, 2016 with the USPTO and again on April 21, 2017 an International PCT Application for a PERSONALIZED MEDICAMENT DISPENSING SYSTEM AND METHOD.

André Merizzi is a registered Canadian and U.S. Patent Agent who is supporting Bowhead with Intellectual Property related activities. André holds a graduate degree in physics from the University of Ottawa, focusing in semiconductors, optics, solid state and laser physics. His aptitude for all-things-science and drive to secure market-relevant claims for his clients has led André to advise clients in a gamut of highly technical fields, from ICT and software start-ups to universities, government and medical research agencies and established high-tech companies.

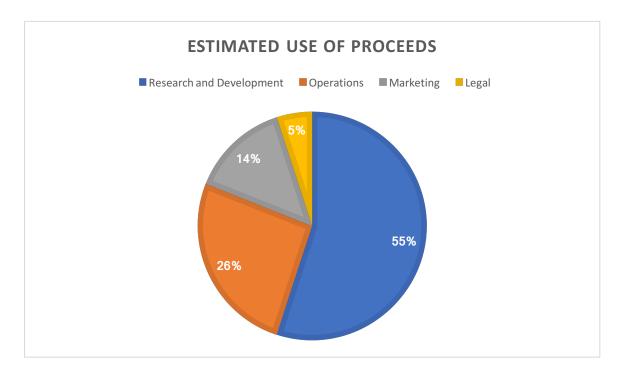
An esteemed expert in Canadian patents, André advises foreign associates in the prosecution of Canadian patent applications. He is an active participant and committee member of the American Intellectual Property Law Association and the Intellectual Property Institute of Canada and is a current instructor for the Patent Agent Training Course and a member of the Patent Agent Examination Board for three years.

Regulatory Compliance

Bowhead leadership has a demonstrated history of meeting the rigorous regulatory requirements to obtain FDA approval, however that approval does take time.

Bowhead plans to strategically enter other foreign markets to establish an immediate revenue stream, allowing the company to grow while waiting for approvals, which our manufacturing partners estimate could take a year.

Use of Proceeds



Analysis of Competition

There are several companies who are working on either dispensing or biometric testing, but our analysis has not identified any turnkey consumer solutions.

We do believe that the community widespread adoption of the Blockchain trust system and our growing IP will help place and keep Bowhead as a leader in the healthcare space.

Below is a chart we have compiled to facilitate comparison of what is being offered by competitors:

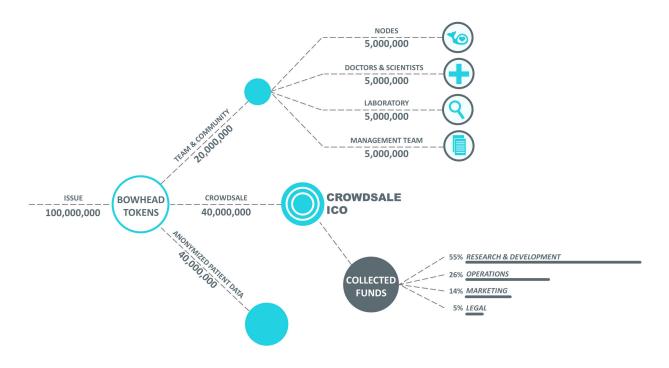
	Focused on medication	Focused on senior care	Remote, near real- time diagnostics	Sells proprietary supplements	Uses Blockchain	Connected Device
Bowhead	X	X	Х	Х	Х	X
Hero Health	Х	Х				
Pillo	Х					Х
Line Health	X	X				X
Tespo				Х		
Doctor on Demand						
Cue.me			X			X
Vitameter			X			

Terms and Conditions for Bowhead Token Crowd Sale

Bowhead Token Crowd Sale is not available to US or Canadian citizens or residents.

Bowhead Token holders will be part of a closed-end fund based in Singapore Bowhead Tokens Pte. Ltd.

Bowhead will issue a maximum fixed supply of 100M WAVE-based tokens. Bowhead will open its crowdsale on July $17^{\rm rd}$, 2017.



Users may choose to receive compensation for the leasing of their anonymized health data to research institutions and pharmaceutical companies. The user earns 70% while 30% is

distributed back to token holders on a quarterly basis. The 30% revenue share will be distributed to all Bowhead token holders proportionally.

40M Bowhead Tokens in Crowdsale (Delivered within 2 weeks after close of crowdsale)

Bonus Schedule	Period	Bonus	Amount
\$.25 USD	Earlybird	60%	
\$.30 USD	Earlybird	54%	
\$.35 USD	Earlybird I	46%	1M Tokens
\$.40 USD	Earlybird II	38%	
\$.45 USD	Earlybird III	31%	
\$.50 USD	Presale	23%	4M Tokens
\$.55 USD	First 10M tokens	15%	10M Tokens
\$.65 USD	Remainder	No bonus	25M Tokens

20M Bowhead Tokens for Bowhead team, community and partners:

- o 5M nodes
- o 5M doctors and scientists
- o 5M laboratory
- o 5M management team

40M Bowhead Tokens for Anonymized Patient Data (Lockup for 1 year)

- o Tokens are released on a decreasing schedule of issuance that follows similar Bitcoin's decay of supply, however, using health data as the value store.
- o Tokens can be burned by Bowhead
- o Tokens can be sold by Bowhead at no less than 1.1X token market value

All Bowhead token sale participants must abide by the Terms and Conditions. If you need a copy please email support@bowheadhealth.com.

Frequently Asked Questions

Has your team been involved in the medical or health industry?

Bowhead cofounder and CEO Dr. Rhea Mehta has a PhD in toxicology and is also a certified wellness coach. Bowhead cofounder and chairman Dr. Francisco Diaz-Mitoma has a medical degree and cofounded a company which is currently on NASDAQ (VBIV).

What is the economic function of the token?

The token has two purposes:

- Provides capital to the company via a tokensale in order to develop products and services
- Enables early tokensale buyers to receive payments from future anonymized health data requests being completed by users
 - Eventually, we expect the tokens to be used for products and services offered by Bowhead

Why does this project need a token?

This project needs a token in order to track those who have been supporters of Bowhead's efforts as well as provide a value store for people completing anonymized health data requests

How do you plan on storing data on the Blockchain securely?

Users will be granted a private key to a multisignature wallet. In simple terms, users can choose to provide licensed healthcare professionals with a key for a specified period of time.

Are there any patents or patents-pending on your technology?

Bowhead has two-patents pending.

Will the system require FDA approval?

Yes, it will for any US/Canada sales and this is a large barrier of entry. We'll need approval from European regulatory agencies as well. We believe we may be able to enter developing countries faster. We will pursue both avenues in parallel.

If an individual is willing to provide their anonymized information for research do they initially submit all their information or do they simply withhold identifiable information?

We plan to allow as much health data as people feel comfortable encrypting on the Bowhead Blockchain. In the beginning it will be basic health data.

HIPAA usually works on a need-to-know basis. When information is requested between providers, only a specific set of required information is shared. How will this process

work? Will there be a set of codes that the requestor has to input or is sharing of data allor-nothing?

The sharing will be tailored to what the requestor is seeking.

We are currently working with Medstack from Toronto, Canada. They have HIPAA compliant AWS services to mitigate the risk of any HIPAA compliance issues.

How will you deal with the notoriously traditional healthcare professionals?

We will begin by focusing on our own tests and updating people's health data. We plan to work with other companies who are focused on achieving an open standard to make health data more portable.

Can individuals participate in this by providing their data directly for research in exchange for rewards, or will the data need to come directly from a provider?

The vision is to have enough of a data set where they would provide it directly to the researcher via a health survey, medical device or in the future, human samples.

What is to stop someone from going in and creating fake users for research? Are there any validators?

At the beginning data falsification is an issue. We can't prevent people from answering a survey in a bogus manner but eventually with biometric tests it becomes harder and harder to falsify. We are also working on several other approaches to mitigating fraud. In the future Bowhead could use artificial intelligence to monitor user inputted data to ensure reliability and decrease fraud.

Will a customer be checking a box on the application when registering with a provider that it is okay for his or her anonymous data to be shared? If so, does the customer get a portion of the payment or does it all go to the provider?

The customer will be able to set up their profile settings so that their data is shared by default and receive 70% of the payment. If the profile setting is not set to default sharing then the client may receive a prompt for requesting data access.

Could you have some type of ID management system to vet the data a verified user provides before you anonymize it without breaking privacy laws?

We will be working with partners specializing in digital identities and believe there is a way to vet the data with the user's permission without breaking privacy laws.

You describe many different products in the whitepaper (hardware sensor, research platform, inter institution data exchange, etc). What is your focus?

Our focus is to provide access to personalized health. To achieve this, we will be working alongside our partners to develop a turnkey solution that integrates biometric tests, data, dispensing and artificial intelligence.

Why will this token appreciate for investors?

We don't make any claims that this token will appreciate. However, we can't think of another more valuable data store for the Blockchain than human health information.

Why do you need Blockchain technology for this project and not just a good centralized architecture?

We believe in a hybrid model of architecture with a few managed Bowhead nodes for speed but existing within a decentralized system that is founded on the zero trust model where patients can control their own data.

Are the nodes incentivized through tokens? Will there be an inflationary aspect to the supply?

We plan to allot 5M tokens to the masternodes. Qualifiers are 23 hours online per day, 50K Bowhead tokens.

You've allotted 20M Bowhead Tokens for Bowhead team, community and partners. What portion of that goes to the team vs community and partners and how will they be distributed after a year?

5M nodes, 5M doctors and scientists, 5M laboratory, 5M management team (management team includes community managers, admins, designers, engineers, scientists, marketing).

Are you using Ethereum to build smart contracts?

We are developing on the hyperledger smart contract platform.

What is Bowhead's business model?

Bowhead intends to monetize from hardware sales, nutritional supplements, medicine and biometric tests. We are committed to making personalized healthcare as accessible as possible and will therefore price our products fairly without compromising on quality.

Why Waves vs Ethereum?

Waves allows Bowhead token holders to have a decentralized exchange where they can trade waves tokens from day 1 of token issuance.

Why no escrow?

After analyzing the escrow providers we felt that providing 10-30% of our funds raised didn't seem like a good deal for our token purchasers.

¹ http://www.healthdata.org/news-release/global-spending-health-expected-increase-1828trillion-worldwide-2040-many-countries

ii https://www2.deloitte.com/content/dam/Deloitte/global/Documents/Life-Sciences-Health-Care/gx-lshc-2016-life-sciences-outlook.pdf

iii https://globenewswire.com/news-release/2017/01/11/905073/0/en/Global-Dietary-Supplements-Market-will-reach-USD-220-3-Billion-in-2022-Zion-Market-Research.html

iv HBR.org, The Potential for Blockchain to transform electronic health records

^v http://pwc.blogs.com/health matters/2017/03/estonia-prescribes-blockchain-for-healthcaredata-security.html

vi http://www.ivcc.com/who-malaria-fact-sheet