



AETERNUM

World's First Science and
Intellectual Property driven ICO

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WHITE PAPER
V0.9.5, 27.02.2018.
SUBJECT TO CHANGE

THIS IS A LIVING DOCUMENT THAT WILL BE UPDATED CONSTANTLY TO ANSWER THE QUESTIONS RAISED BY THE COMMUNITY AND TO KEEP TRACK OF PROMISES MADE DURING OR AFTER THE ICO.

THE GOAL OF THIS DOCUMENT IS TO DEMONSTRATE THAT OUR UNDERTAKING IS WORTHY AS WELL AS TO RECEIVE YOUR FEEDBACK. PLEASE JOIN OUR COMMUNITY TO ASK QUESTIONS AND MAKE SUGGESTIONS.



Yours faithfully,

Aeternum Foundation

The tokens have not been and will not be registered under the United States Securities Act of 1933, as amended (the "Securities Act"), and may not be offered or sold in the United States or to or for the benefit of US persons (as defined in Regulation S under the Securities Act) unless they are so registered, or an exemption from the registration requirements of the Securities Act is available. One such exemption allows the resale of tokens purchased for their own account and for investment purposes only by investors who (i) are not otherwise affiliated with the Aeternum Libertarian Foundation, (ii) have been exposed for some time to the economic risks that ownership of tokens entails, and (iii) are not part of the distribution of the tokens.

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PREFACE

Look at the device you are currently using to read this white paper and imagine the scientist who first thought of the possibility to create something so amazing. Without the curiosity of human mind and the dedication of thousands of scientists we still would be living in caves and you wouldn't be reading this proposal.

Then think about John - a young and aspiring scientist who wakes up one morning with the idea of a Superdrug that will cure cancer once and for all. He eats his breakfast and goes to the corporate lab and tells the idea to his boss. However, his idea ultimately fails to be executed as he must continue his daily dealings for the corporation and the corporation is not interested in trying risky ideas of young and inexperienced scientists.

But wait – there is the Aeternum Ecosystem that helps such scientists by providing backing for their ideas and support to commercialize them. Here scientists have a place where they and their families can continue research (home, food, funding) and there are experts that help these bright minds bring their projects to market. Moreover – this is a place where the greatest minds meet to share their ideas and further help humanity leap forward in technological progress.

Additionally, Aeternum and its proceeds is open to everyone and controlled by the community since everyone who owns an Aeternum token can take part in decision process on which ideas to finance and help raise money for future projects.

Also, since the IP rights are owned by the community we avoid making some drugs or technologies inaccessible to humanity as it happened a while ago when AIDS drug was purchased by a company that raised the price tenfold¹.

We truly believe that the development of such system will make everyone happier – the scientists who now can freely execute their ideas, the people who receive the proceeds in the form of new goods or services and the community that receives return from their investment. Become an investor by buying Aeternum Token and profit both from better society and the proceeds the token will bring.

¹ <http://www.dailymail.co.uk/news/article-3243938/Ex-hedge-funder-32-hated-man-internet-defends-jacking-prices-AIDS-medication-5500.html>

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CHALLENGE AND MARKET OPPORTUNITY

Lack of funding and space for science projects

Curiosity based research has often been the game changer that allowed humanity to leap forward. However, modern times more than ever make it challenging for scientists to fund the development of their ideas. Locked in labs scientists work on projects that often are shelved in the shelves of unused patents. They are slaves to the modern economy that foremost demands for them to figure out how to make living and support their families rather than focus on the research of scientific projects.

Globalization of available capital

There is a lot of capital available to be invested in various finance instruments or lent for interest throughout the developed world. However, often there are barriers that hinder the deployment of these funds to the ideas that require them the most.

Necessity to decentralize using blockchain

Blockchain has brought new opportunities to bring higher levels of transparency and utilize the community to jointly make decisions. Just like ants jointly form a super-organism people in blockchain can jointly become a super-brain that makes the best decisions possible.

SOLUTION – AETERNUM ECOSYSTEM

Our goal is to create a platform, through which every individual will be able to invest in intellectual property rights of scientists around the world. This platform will be open to anyone owning Aeternum Token not just a select group of investors and no contribution will be too small to reap the return from deep science project realization.

Aeternum fund



Invest in deep science based start-ups through a crowd funding platform accessible by a smart phone app for every ecosystem user.

Important notice: crowdfunding platform is an instrument for Aeternum team to attract investments for deep science projects. It is a pool. Aeternum Users can invest only into the offered pool and cannot choose individual projects. Aeternum team is responsible for maximizing the value out of the pool and providing transparent ROI for every Aeternum user. However, Aeternum Token holders will be able to vote which projects we should invest in first. We will perform the screening of the projects/scientists to improve the return and check their credibility.

The centerpiece of ecosystem is deep science start-ups in robotics, fintech, biotech, nanotech, AI (artificial intelligence) and IT fields. After many years of research and development a large part of the planned start-ups are already close to the implementation phase. Some start-ups just need a financial push to get to “the moon”. We already have many deep science-based start-ups ready for investments through Aeternum crowd-funding platform. This is only available through Aeternum platform.

We will utilize the technologies brought by the blockchain to provide full transparency of investments made. Also, we will use smart contracts to ensure that qualified partners can review and approve applicants that want to join and contribute to Aeternum Ecosystem.

Since Aeternum token (ALF) will serve as proof of membership in the Aeternum Fund you will be able to sell your membership via exchange or at our finance app.

Your value: ROI (paid out once per month)

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BitLats

Investments in companies supported by Aeternum Fund will be made only through the new cryptocurrency “BitLats” and companies will be able to exit by buying themselves out with BitLats. BitLats will also be used within the Aeternum Ecosystem as a means to settle payments for rent, utilities and other bills. Therefore, Aeternum Fund will create a constant supply and demand for BitLats.



The core exchange mechanism within the Aeternum Ecosystem will be a new IP backed cryptocurrency called BitLats

Some planned BitLats features:

1. Proof-of-individual concept. It will be safe from others and if you lose your account or wallet it can be returned to you. We have already figured out the solution how not to lose your BitLats.
2. Scalable and fast transaction proof.
3. Milli-sec payments. You will be able to use it for immediate shopping transactions.

We will be adding BitLats to an Exchange therefore it will be possible to trade it and profit from the value increase driven by the coverage of science projects.

Your value: Coin with IP coverage, secured and rising value, limited edition with unlimited opportunities*

Finance App

We will create simple to use one-stop application for all Aeternum Ecosystem users. In this modern age, the convenience and speed is the key factor. It is important that all available information is in one place and today that medium is a smart-phone.

Aeternum Finance App will connect Aeternum Ecosystem users and help them exchange with values as well as help access the goods and services provided by the ecosystem. The growth of ecosystem will ensure that the app will bring more value as more goods and services will be available for purchase more cheaply through this app.

Aeternum Finance App Features

- Smartphone payments. Daily transactions from Offline Mobile App.
- Services. Integration with selected third-party service providers.
- Asset management. Opportunities to invest money in promising startups.
- Multi wallet. Crypto and fiat currencies in one place.
- Multi token wallet. Storage space for tokens of various platforms.
- Exchange. Fiat, crypto currency and token management and exchange.
- Direct sales. User to user crypto and token exchange.
- Multi-signature vault.
- Segwit ready.
- Multilanguage.
- P2P and direct loans for Aeternum Ecosystem users
- Loyalty services
- Open API

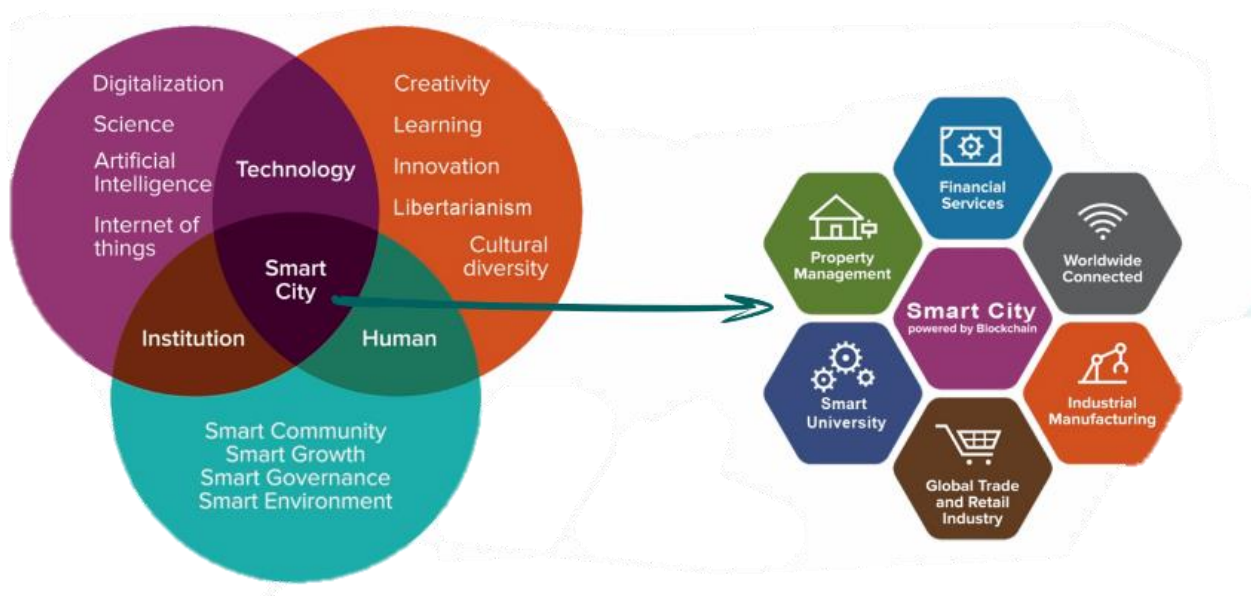
Your value: ROI, goods and services

Smart City

THE CONCEPT

The first step in the development of The Aeternum Ecosystem will be the development of cryptocurrency, Aeternum Fund and Aeternum Finance App.

Then Aeternum Foundation will set up a network of physical cooperative workspaces where participants can work, meet, develop new startups and do research with the support of experts attracted by the Aeternum Foundation. This will resolve issues with blockchain and science start-ups that struggle to find affordable and suitable locations to house their business.



One of the Aeternum project goals is to create a Smart City. The goal is to develop the world's best ecosystem for blockchain and other cryptographic technologies and businesses.

THE LOCATION

One of potential locations for a Smart City is Freeport of Ventspils. Freeport of Ventspils is one of EU's special economic zones (SEZs) that promotes all kinds of investments in production, research and development. As a SEZ, it is one of the Baltic Sea ports with especially favorable conditions for foreign investors. The accessibility of the infrastructure and qualified labor force of the port and production parks has been appreciated by partners in the fields of engineering, chemical industry, wood processing, electronics, IT and others that have favored production in the Ventspils industrial zone. This will be the intermediate step between the virtual environment and the Crypto City, so that the Aeternum ecosystem could begin to successfully function in the very near future. Science based startups need a physical environment where they can perform experiments and develop new products. The goal is to create seeds for the foundation of the Aeternum Smart City.

Our architects have created a great vision. In 30 hectares of land Aeternum will build Smart City where the core will be the blockchain technology companies and Commercialization Reactor with 35+ deep science based startups. With low income tax (just 3%) and local government support. We can attract all of the crypto community's attention and create infrastructure for this community.

Establishing your business in this global industry cluster brings enormous advantages: Network effects, economies of scale, access to the world's best talent, deep pools of capital, a rich ecosystem of resources and know-how for both start-ups and mature companies, a nurturing entrepreneurial culture, infectious energy, and strong trust relationships that make the impossible possible. Not to mention the fantastic quality of life.

- Visionary entrepreneurs and cryptographic technologies
- Deep pools of capital and world-class engineering talent
- Low taxes (3%) and friendly regulations
- Deep-seated culture of privacy protection and decentralized institutions
- It supports the BitLats by only accepting it in payment for Smart City in order to function in this business environment
- Supportive start-up ecosystem with world-class service providers
- World-leading educational and research institutions
- Friendly, accessible and supportive government
- Vibrant community and fantastic quality of life

The part of the token crowd sale proceeds will be spent on real-estate acquisition. Think of it as a sort of elite co-working membership where your ALF tokens give you access to this ecosystem of business functions such land, buildings for offices, production facilities, utilities, internet and any other business needs. The more tokens you have, the more possibilities are open to you. These facilities will be rented or leased using BitLats as the currency of exchange.

Aeternum Network

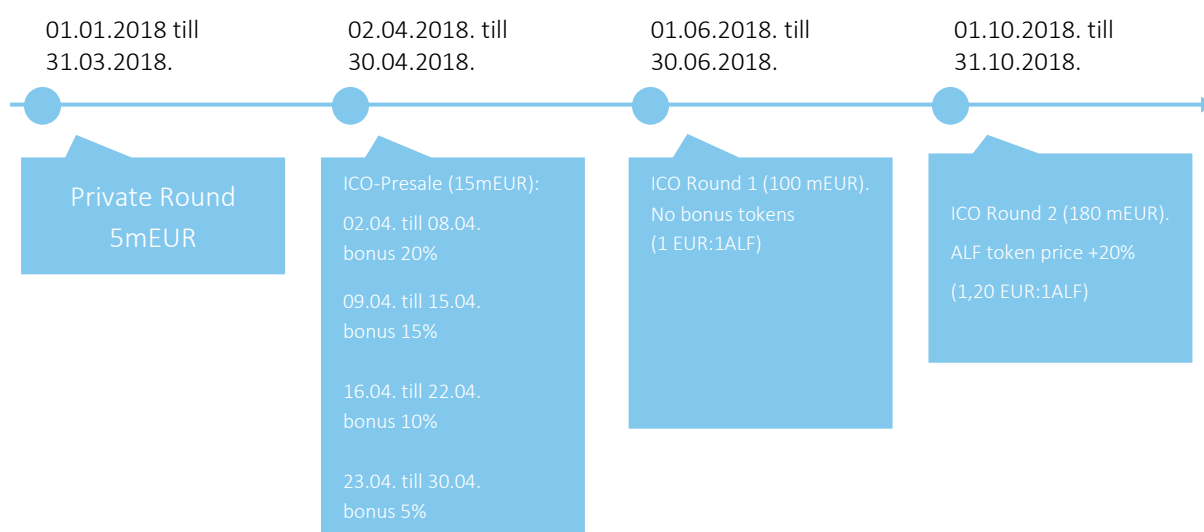
The Aeternum Ecosystem in Ventspils will serve as a proof of concept and trial of technologies used. We plan on developing technologies how to transfer the know-how to other locations and how to join them into one big crypto-economy that exchanges real goods and services with the help of crypto currencies.

TOKEN SALE

Aeternum Token (ALF)

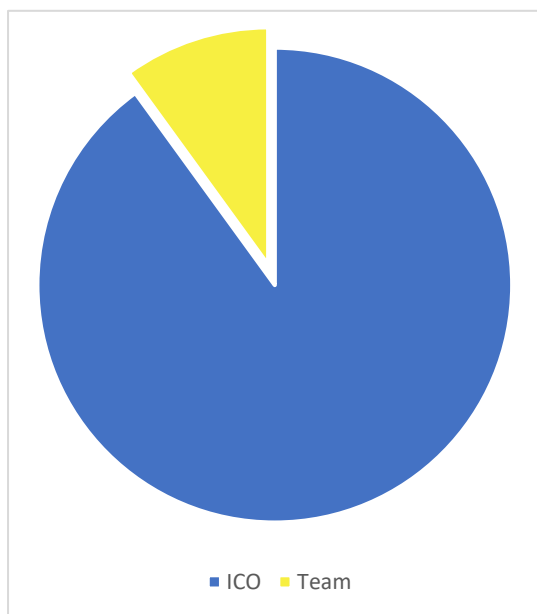
Token function	Utility token
Token symbol	ALF
Tokens created	300 million tokens
Sale volume	270 million tokens (90% of total tokens)
Price of the token	1 ALF = 1 EUR
Payment methods	Crypto
Soft cap	1 mEUR
Hard cap	300 mEUR
Distribution of tokens	90% Crowdsale 10% Reserve tokens held by company
Date of pre-Sale	02.04.2018. till 30.04.2018.
Limit of pre-Sale	15mEUR mUSD
Sale start ICO round 1	01.06.2018. till 30.06.2018.
Sale start ICO round 2	01.10.2018. till 31.10.2018.
Bonuses	Yes
Sale finish	01.11.2018.
Restrictions	There is no maximum amount restriction of purchase during the ICO
Accepted Nationalities	Any nationality except US, North Korea

ICO Timeline



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Aeternum token sale structure



TOKENS OFFERED THROUGH ICO: 90%.

The funds raised will be used to finance the development of the Aeternum Ecosystem for the next 5 years. Including 3% for bounty program.

FOUNDERS, TEAM & FUTURE EMPLOYEE

MOTIVATION PACKAGES: 10%

We believe that a company is only as strong as its team. Therefore, all Aeternum's current & future team members will receive motivation packages in the form of vested tokens. These will all be vested according to the employee's position/ scope.

Distribution of funds

Aeternum has set ambitious targets with its ICO. This means that after the ICO we will be expanding our teams, as well as creating new teams to achieve a wide set of set goals. The management team has identified an extensive list of tech, legal, financial, marketing etc. candidates to embark on the journey.

DEVELOPMENT OF ENVIRONMENT (PHYSICAL AND DIGITAL): 10%

We plan to grow a dedicated international team of 25 in-house professionals within the next 3 years. As talented and well-qualified engineers are expensive, we foresee that we would use a significant portion of the funds raised to establish this team. The remainder would be used to cover any other costs that arise due to the development of the environment platform.

NON-TECHNICAL MANPOWER: 20%

Banking or financial institution licensing, integrations & partnerships, Marketing and Sales, Legal, Finance, HR, Administrative, Customer Support and other.

RESERVED FOR DEEP SCIENCE STARTUPS: 30%

30% of tokens will be reserved for the users to make contributions in deep science projects. Also for users to use Aeternum offered goods and services.

RESERVED FOR SMART CITY: 40%

40% of tokens will be reserved for the users to build a real Smart City where all Aeternum offered goods and services will be available. Smart City will boost BitLats price.

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TOKEN ECONOMY

We understand that to attract funds for the Development of Aeternum ecosystem via ICO we must provide a way for the Aeternum Token to increase value. And the main method for doing that is incorporating the token in business model so that future demand would drive the ALF value upwards. In this section we shall describe how the utility of Aeternum token will help drive the demand and value for Aeternum token.

Demand Driven Value

AETERNUM TOKEN AS ENTRY TICKET

To participate in Aeternum fund an investor will have to acquire a set amount of Aeternum tokens.

VOTING RIGHTS

The management of Aeternum Foundation shall put certain decisions in the hands of Aeternum (ALF) holders. To execute the voting rights a certain amount of Aeternum tokens owned will have to be frozen in our App for a certain time to vote on the issue in question.

TRADABLE AND LIQUID

Aeternum tokens shall also be put on an exchange therefore future demand for the token will drive the value upwards.

PRIORITY ACCESS

Having an Aeternum Token will guarantee you priority information about the projects we support.

VALUE GROWS AS PROFIT IS REINVESTED

25% of return generated by Aeternum Fund will be reinvested in the development of Aeternum Ecosystem thus generating greater return in future.

BACKED BY MARKET READY SCIENCE PROJECTS

Most of the ICOs are driven by non-tested ideas. However, Aeternum Fund will invest in market-ready projects, some of which already have proven market demand.

SMART CITY

We will build a smart city to help the science projects reach fruition. Part of returns generated by Aeternum Fund will be from the Smart City.

BITLATS ECONOMY

Early token buyers will receive a new crypto currency (BitLats) as a bonus via air-drop. This section will cover the economy behind the new crypto-currency and the reasons for its appreciation in value.

Means of Investment

BitLats will serve as the only means to invest in companies supported by Aeternum Fund therefore investors will have to buy BitLats in order to profit from investment in these science start-ups.

Means of Exchange

Companies within the Aeternum Ecosystem will have to acquire BitLats to pay for rent and utilities as well as other services. We plan that the adoption of BitLats will become more widespread as more companies will use BitLats to settle payments for their goods and services.

Means of Buyout

When a company funded by Aeternum Fund will reach selling point part or all of the price will be settled in BitLats. Science start-ups tend to exit with a hefty price tag thus creating a great increase in demand for BitLats. Since Aeternum Fund aims to have hundreds of such companies we will manage the exit (or investment) into these companies so that the buyouts (and the respective high demand for BitLats) don't cause huge dips in price (while we will not control BitLats we will control how companies exit our fund to manage exchange rate risk).

Sentimental Value

By creating BitLats we want to save the memory of the previous national currency of Latvia "Lats" therefore we believe that there will also be demand from the people of Latvia to acquire the crypto currency just for the sentiment it brings by reminding of the era before eurozone.

ROADMAP

2016

- November ● Idea to create new ecosystem: Aeternum
- December ● Beginning of work: team building, market analysis and political consultations about support of project

2017

- January ● Development of detailed plan
- February ● Core partners search, agreements preparations
- March ● Financial and functional model of the ecosystem
- April ● Decision to attract financing via ICO
- May ● Structuring ICO campaign team
- June ● Start to create Aeternum program, agreement with Commercialization reactor
- November ● Aeternum program is ready. Agreement with China IIC for cooperation
- December ● Beginning of ICO private round

2018

- January ● Agreement with Latvian port city Ventspils special economic zone about cooperation.
Dev starts of Crowd-funding platform
- Q1 ● Dev starts of Aeternum Finance app
Dev starts of BitLats coin
- Q2 ● Alfa version of Crowd-funding platform ready. Start investing in deep science startups.
BitLats ready for Aeternum users only.
- Q3 ● Alfa version of Aeternum Finance App ready. Start controlling Your crypto and fiat finances Globally.
- Q4 ● Aeternum Finance crypto card ready. Be fully independent from the Banks.
Start Aeternum Smart city development

2019

- Q4 ● Aeternum bakers start using Smart city goods and services

And we will keep on setting new goals and delivering results for our supporters.

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PARTNERS & CONTRACTS SIGNED

China International Innovation Centre

In China on 18th of November 2017 agreement was signed between China International Innovation Centre (IIC) and Aeternum Libertarian Foundation in the framework of Silk Road to build smart city in Latvia's special economic zone.

Freeport of Ventspils

Intention protocol signed with Freeport of Ventspils for using EU's special economic zone to develop a smart city within the Freeport of Ventspils to drive the development of Fintech, Biotech, Nanotech and IT start-ups.

Latvian Fund of Science

Scientific expertise on deep science project evaluation and nourishing.

Commercialization Reactor

<http://www.commercializationreactor.com/>

The core for Aeternum ecosystem is the Commercialization Reactor and Fund of Sciences. This is Latvia-based international technology commercialization platform that successfully solves differences between entrepreneurship and science by effective combining scientific excellence with entrepreneurial spirit.

It is based on a process of making new high-tech companies and helping them to enter marketplace by unique combination of scientists wishing to commercialize their scientific achievements, venture entrepreneurs who are ready to start knowledge-based business and the Commercialization Reactor's Team which consists of professional experts in commercialization process.

Key factors about Commercialization Reactor

- scientific teams from 50 + universities with potential to pre-validate their team & science
- world-class scientific competence
- 400+ industrial experts around the world
- 70 teams formed in 7 years
- 50+ startups based on deep science include Big Data, AI, Nanotech, Bio tech, other
- In collaboration with NASA to join LUNA27 MISSION, LAUNCH IN 2021
- Experience of exits (Dec. 2015, Naco Technologies, Germany)

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PROJECTS IN AETERNUM FUND

NOTICE: These are the projects we plan to invest part of the funds raised through the ICO. We have a non-binding agreement with The Commercialization Reactor on the possibility to invest in projects that are joined under The Commercialization Reactor.

Eventech project



Eventech is specialised in doing ground and space ready picosecond precision **event timer** (part of LiDAR system for LUNA-27 mission). Also, applicable for Altimetry, Deep Space Optical communication, etc. and can be used as clock (synchronisation and syntonisation).

A picosecond is an SI unit of time equal to 10^{-12} or $1/1,000,000,000,000$ of a second. That is one trillionth, or one millionth of one millionth of a second, or 0.000 000 000 001 seconds. A picosecond is to one second as one second is to 31,710 years.

Eventech is a “spin-off” from the Institute of Electronics and Computer Science of Latvia (IECS) with a team of 7 professionals operating in Riga, Latvia. Eventech’s core competence lies in repeatable, extremely accurate and environmentally resistant signal processing and interpretation via Analogue to Digital Conversion (ADC).

On the ground Eventech is holding >50% of the SLR market and are recognised by NASA as a standard for this application.

Starting February 1st, 2016 Eventech was awarded with its first European Space Agency (ESA) contract for on-board multi-purpose event timer development for space applications supported by Institute of Electronics and Computer Science (IECS) and Czech Space Research Centre (CSRC)

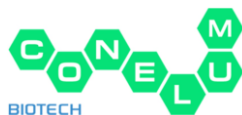
Proof links:

https://ilrs.cddis.eosdis.nasa.gov/technology/groundSegment/timing_devices.html

Proof articles:

http://www.esa.int/Our_Activities/Human_Spaceflight/Low-cost_clocks_for_landing_on_the_Moon

Conelum Biotech project



Focused on development of rapid microbiological diagnostic tests for food and drink industry companies.

This Early-Warning System for microbiological contamination & spoilage prevention via means of proprietary state-of-the-art Ultra-Fast Microorganism Visualisation & Enumeration Technology.

Conelum Biotech is a start-up project (spin-off from Riga Technical University) which has developed a disruptive proprietary technological solution that enables Ultra-Fast Quantitative Diagnostics of Microorganisms & Spores in various types of substances via a unique merge of enabling technologies: Molecular Biochemistry, Bioinformatics, Artificial Intelligence.

Snowision project



Snowision helps ski resorts to reduce snow production costs and to increase ski days by providing information of snowpack quality on slopes for smart snow management.

Snowision develops fully automatic, remotely operated small sized sensor for projecting 3D map of snow cover and its properties.

Snowision sensor allows predicting snow behavior by showing through wide area the depth of snow cover as well as multiple snow properties like snow water equivalent, temperature, melting and freezing points, water intensity and ice crust.

Other Projects



Adaplab is developing new generation software products for industrial controllers in oil, gas and wind farm industries.



Manufacturing of high performance ceramics and alloys such as carbides, nitrides, oxides and many others.



Organic light emitting diodes (OLEDs) is the most promising and cost-effective light-emitting technology that can be used not only for light sources but also for the information screens and panels, including flexible surfaces.



Platform to assess professional competence using person's eye movements.



Arlabion is developing new generation agrochemicals for sustainable intensification of crop management



Provide cost effective, energy effective and environmental friendly technology for HDG!



Offers a new generation of ultra-high performance metrology instruments based on a unique and patented technology of white light optical interferometry



Shortens and simplifies process of new types of nanomaterials and noncompounds production as well as production of known nanomaterials with controlled properties.



Have developed several applications for using Carbon nanotubes (CNTs) with extremely high purity (99.5%) and stable technical characteristics.



Fully automated web page content and design optimization system that is driven by Artificial intelligence.



Innovative method allows to identify defect sources of hard alpha inclusions in titanium alloys with close to 100% accuracy.



Introducing to the market new technology to improve industrial catalysts.



Has developed an incredible, new, unprecedented heat pump technology with up to 8 times higher efficiency than existing systems.



Vacuum Coating Systems for a wide variety of different applications (including metal deposition on any other metal).



Technology is ionic polymer hydrogel that is both: highly absorptive and non-adhesive



Provides artificial intelligence powered platform that accelerates scientific research processes in drug development early stages.

These are only a few of the startups we can already make available on our platform for investments. We will add more projects soon to our portfolio. There will much more like these, all based on deep science knowledge.

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OUR PEOPLE



Igors Zlotnikov

Member of the Council
Fund of Sciences

Aeternum position

CEO



Valentīns Jeremejevs

Chairman of the board
Fund of Sciences

Aeternum position

Science Expert



Dainis Stikuts

Deputy head of Economic analysis
department
Ministry of Finance

Aeternum position

Bank & Financial
Advisor



Aigars Rostovskis

President
Chamber of Commerce

Aeternum position

Future Economic
Advisor



Maksims Antonovs

Managing Director
Core IT Group LTD

Aeternum position

IT and Marketing
Advisor



Ingus Staltmanis

Managing Director
AndIT Solutions LTD

Aeternum position

Strategy and
Marketing Advisor



Viktors Kasjanovs

Partner
We Advocates Agency

Aeternum position

Legal Advisor



Lev Bass

Board Member
Latvian Blockchain Development
Association

Aeternum position

Blockchain Advisor



Petr Pogorodny

ROTA Technology Innovation
Center

Aeternum position

Innovation Advisor



Martin Schottenloher

Professor (emer.), for
Mathematics (Germany)

Aeternum position

Blockchain
Mathematic Advisor



**Prof. Peter
Sachsenmeier**

President
International Innovation Center
(China)

Aeternum position

Smart City Advisor



Sam Dwivedi

International Council for
Commercial Arbitration - ICCA

Aeternum position

Legal Advisor

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