

A photograph of a laboratory setting, overlaid with a semi-transparent blue filter. A person wearing a white lab coat and blue gloves is using a white pipette to transfer liquid from a small vial into a multi-well plate. The background shows various laboratory equipment and containers.

**THE FIRST COIN LAUNCHED BY A BIOTECH COMPANY  
DEVELOPING NOVEL AIDS CURE RESEARCH AND  
DECENTRALIZED CLINICAL DATA**

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## OUR NOVEL AIDS CURE RESEARCH

Innovative Bioresearch is a privately held biotech company owned and founded by research scientist Jonathan Fior with the goal of bringing innovation to the field, with a focus on HIV, cancer and regeneration research. We are based in Italy and UK (<http://www.innovativebioresearch.com>). We launched the INNBCL token for expanding our AIDS (Acquired Immunodeficiency Syndrome associated with HIV infection) cure research, and the INNOC Token for expanding our cancer/regeneration research. They also support the development of our “You’re not Alone” application providing a on one hand a decentralized database for clinical data generated by our preclinical studies and human trials, to overcome the limitations of the current ancient centralized databases, and on the other hand a social platform for the HIV seropositive community to access our medical services. Let’s start by focusing on the first goal of INNOC, which is to support our AIDS cure research, with an overview of the current state of SupT1 cell infusion therapy, the novel cell-based therapy for HIV conceived by Jonathan Fior, owner and chief scientific officer of Innovative Bioresearch.

## SUPT1 CELL INFUSION AS A NOVEL CELL-BASEDE THERAPY FOR HIV

HIV infection usually leads to a progressive decline in number and functionality of CD4+ T lymphocytes, resulting in AIDS development. As explained in Jonathan Fior’s scientific publications [1–3], the HIV virus has a higher tropism for SupT1 cells than for primary CD4+ T cells. Several hypotheses have been proposed as an explanation, most notably the higher surface expression of CD4 and CXCR4 receptors in SupT1 cells. In addition, in vitro studies of HIV evolution show that persistent growth in the SupT1 cell line results in a less cytopathic virus with a reduced capacity for syncytium formation, a higher sensitivity to neutralization, improved replication in SupT1 cells and impaired infection of primary CD4+ T cells [4–6]. Accordingly, Jonathan Fior proposed the infusion of irradiated SupT1 cells as a cell-based HIV therapy to exploit the therapeutic potential of these phenomena [1–3]. The rationale behind this approach is that moving infection toward the inoculated cells should prevent infection and depletion of the patient’s own CD4+ T cells and, therefore, AIDS. In such a strategy, SupT1 cells would act as a “decoy target” for the HIV virus to prevent CD4+ T cell depletion as well as to render the virus less cytopathic. As previously mentioned, in vitro studies of HIV evolution show that prolonged replication in SupT1 cells renders the virus less cytopathic and more sensitive to neutralization. Accordingly, replication of the virus in the inoculated SupT1 cells should also have a vaccination effect; that is, the therapy should also induce the virus to become progressively less aggressive and harmful for the patient. The use of SupT1 cells as a decoy target for HIV has been investigated in vitro and in vivo, with interesting results [1,3]. In vitro data showed that, when primary CD4+ T cells are infected with HIV in the presence of SupT1 cells, the preferential infection of SupT1 cells can spare primary CD4+ T cells from infection and depletion. In vivo data in humanized mice showed that significantly lower viral replication (~10-fold) and potentially preserved CD4+ T cell frequency at Week 1 was scored in animals treated with SupT1 cell infusion. Of note, one animal exhibited a sustained decrease in HIV replication and CD4+ T cell depletion (no virus detected





anymore at Weeks 3 and 4), a result that may hold the key to future HIV treatments. Given the urgent and global need for a cost effective cure for HIV, we believe that the millions of people infected by this terrible disease deserve highly innovative HIV cure research strategies, such as SupT1 cell infusion therapy.

***In summary, these are some of the potential therapeutic benefits of this cell-based treatment that go beyond what can be achievable with traditional drug based therapies such as cART:***

- The vaccination effect. As previously mentioned, SupT1 cells have been shown to have a very powerful vaccination effect in vitro [4–6]. In this regard, in vitro studies of HIV evolution showed that upon prolonged replication in SupT1 cells, the X4 HIV-1 LAI virus evolves toward a less virulent phenotype with a reduced capacity for syncytium formation, thus losing the main cytopathic feature characterizing X4 strains, and most notably the virus adaptation to replicate in SupT1 cells results in gradually losing the ability to replicate in primary CD4+ T cells [4]. In addition, the variation to neutralization sensitivity after viral growth in tumor T cell lines has also been examined. Interestingly, one study reported that primary isolates that were initially resistant to neutralization acquired sensitivity to neutralization after continuous growth in tumor T cell lines, and that the sensitivity to neutralization progressively increased during the days of culturing [5]. Specifically, it was shown that after 14 days in continuous culture, 100 micrograms/mL of rsCD4 (recombinant soluble CD4) were needed to neutralize 1 TCID of primary isolate, while only 0.3 micrograms/mL of rsCD4 were needed to neutralize 1 TCID of the virus after 75 days in continuous culture. This means that there was a 300 fold increase in virus sensitivity to neutralization after prolonged replication in a tumor T cell line, which is really something remarkable. All these phenomena could therefore harbor a significant therapeutic potential that could be exploited with SupT1 cell infusion therapy to induce HIV infection to evolve into a more tractable state for therapy.
- Potentially no organ toxicity; cART is a drug based treatment and as such is associated with organ toxicity because the drugs are metabolized by various organs. By contrast, SupT1 cell infusion is a cell-based treatment and there is no chemical substance injected into the body that needs to be metabolized, which could significantly improve the quality of the patient's life.
- Be effective in patients in a terminal state of disease that developed drug resistant and very aggressive HIV strains. When a patient is treated with cART, the virus fights back because it strives to survive, which can result in the development of very aggressive and drug resistant HIV strains, especially in the terminal stage of the disease and in such cases cART becomes ineffective. By contrast, SupT1 cell infusion therapy provides the virus with a permissive cell-line in which it can preferentially replicate, so that a peaceful coexistence between virus and host becomes possible, which could dramatically improve the patient's health as the virus infection progressively moves toward the inoculated SupT1 cells and the virus becomes increasingly less pathogenic for its host.
- Possible association of the treatment with novel molecular compounds such as a Vif-inhibitor to act on HIV reservoirs. The HIV-1 Vif protein is essential for viral replication in primary CD4+ T cells but not in SupT1 cells [1]. Accordingly, pharmacologic inhibition of Vif could be combined with SupT1 cell



infusion to further restrict viral replication to the inoculated SupT1 cells. Considering that APOBEC3G is expressed by different cell types, such as neuronal cells, astrocytes, and macrophages [2],

pharmacologic inhibition of Vif may also have the benefit of acting on HIV reservoirs in the brain and other body areas. There are several molecules with promising anti-Vif activity currently being tested [2]. Similarly, other HIV-1 accessory proteins that are not essential for replication in SupT1 cells (e.g., Vpr, Vpu, and Nef [3]) may also be the target of pharmacologic inhibition. It is important to point out that these drugs would not affect virus replication in the inoculated SupT1 cells, and therefore in combination with SupT1 cell infusion therapy, there should not be development of drug resistance normally associated with drug based treatments.

- A cost effective AIDS cure solution. Our mission is to provide a cost effective cure solution for AIDS. In contrast with traditional cell-based and gene-based therapies that make use of modified autologous cells and are therefore very expensive and often unpractical for a large scale application, using a standardized T cell line such as the SupT1 cell line should significantly reduce the treatment costs associated with SupT1 cell infusion therapy, allowing access to the therapy where access to traditional HIV therapies is restricted by economic and social limitations. *The social and economical impacts of a low cost HIV cure solution would be enormous.*

#### ***Below some considerations with regard to potential issues:***

- Safety. We take this issue very seriously and are committed to performing very rigorous preclinical research to ensure there is enough data on safety to obtain approval from regulatory agencies for human experimentation. In this regard, injection of irradiated tumor cells as a therapy is already performed in cancer vaccination. In such cases, irradiating the cells prior to inoculation has been shown to ensure treatment safety both in animal and clinical studies [7]. We used the same protocol used in cancer vaccination studies (i.e., 30 Gy of radiation dose for the cells), which resulted in safe in vivo inoculation in our animal study as well [3]. Specifically, all animals successfully survived the treatment and presence of SupT1 cells was almost undetectable at late time points, which means that irradiating the cells prior to inoculation efficiently prevented SupT1 cell replication. Furthermore, we infused high doses of cells (40 million SupT1 cells were infused weekly), which in a highly immunodeficient mouse strain would rapidly lead to animal death in case of tumor development. Therefore, based on the clinical data we already have from cancer vaccination studies, and from the results of our first animal study, we believe that meeting the safety standards required for human trials is something feasible.

- Rejection issues. Tumors can develop because tumor cells are able to evade immune recognition. For example, SupT1 cells do not express HLA-DR, which is an antigen highly associated with immune recognition [8]. Accordingly, given the tumoral nature of SupT1 cells, they should be significantly less immunogenic than normal cells and as such should survive in the patient long enough to provide a therapeutic effect. However, it is possible that the HIV virus will eradicate the cells faster and more efficiently than the immune system itself in any case.



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## THE SALAMANDER REGENERATION PROCESS AS A MODEL FOR DEVELOPING NOVEL REGENERATIVE AND ANTI-CANCER THERAPIES

As previously mentioned, we issued the INNOC token for expanding our cancer and regeneration research, given that they require intensive resources, and thus we felt the need of issuing a sister coin entirely devoted to supporting our cancer/regeneration research projects.

Among vertebrates, urodele amphibians are the only tetrapods with the ability to regenerate complex structures such as limbs, tail, and spinal cord throughout their lives. Furthermore, the salamander regeneration process has been shown to reverse tumorigenicity. Fibroblasts are essential for salamander regeneration, but the mechanisms underlying their role in the formation of a regeneration blastema remain unclear. We believe that these cells are the key to develop novel therapeutic strategies for cancer and regenerative medicine. For more detail, we direct you to this review paper [9] written by Innovative BioResearch CEO Jonathan Fior, in which he discusses in great details these processes, posing the basis for our novel research (see the above reference).

9. Fior J. Salamander regeneration as a model for developing novel regenerative and anticancer therapies. *J Cancer*. 2014 Sep 20;5(8):715-9. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4174516/>

***Let's now talk about the application, starting from the function of providing a decentralized database for clinical data***

## THE CHALLENGE OF HAVING TO ACCESS CLINICAL DATA FROM THE CURRENT ANCIENT CENTRALIZED DATABASES

Traditionally, all data generated by scientific research is collected in the form of a scientific article, which is published in a peer reviewed scientific journal, and it is usually made available on a public database such as the NIH's pubmed database (<https://www.ncbi.nlm.nih.gov/pubmed>). When a novel therapeutic strategy, such as SupT1 cell infusion therapy, goes through the several stages of clinical research, different research teams all over the world may perform the research. And once the therapy is finally approved for human treatment, different clinicians all over the world may administer the treatment to patients. This means that when a research team wants to perform clinical research, they have to go through the tedious and time consuming process of searching for all the published data

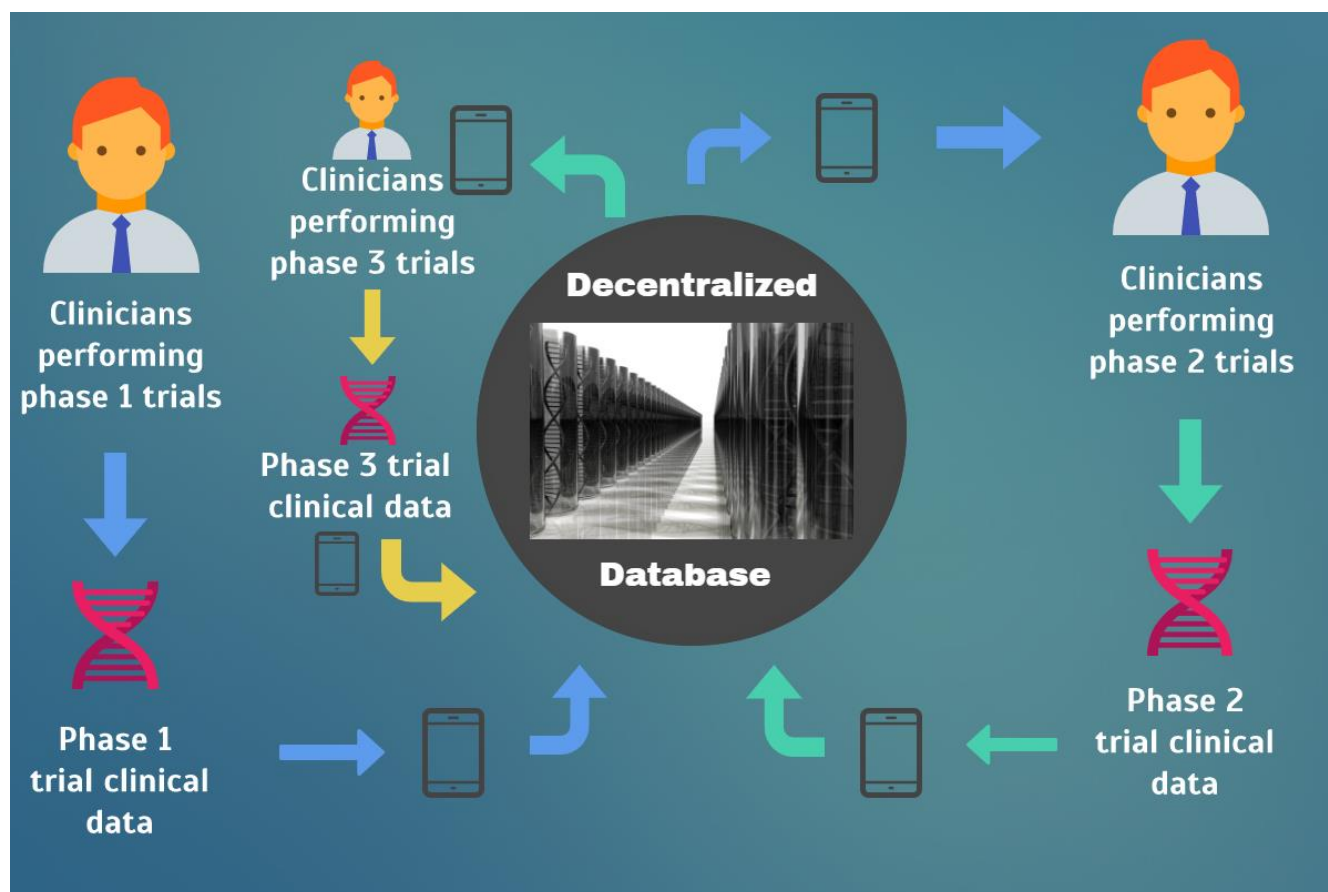
from previous trials, read all the papers, select the useful data, and make the best possible interpretation of the data to create a protocol for their trial, personalizing it for their typology of patients. In fact, every patient may have different individual characteristics (e.g., age, ethnicity, HIV tropism) and thus may require personalized treatment protocols. And the same issue is present when clinicians begin to administer an approved treatment to patients; they have to go through all the papers and make a best guess on what treatment protocol should be used. As mentioned, this process of





accessing clinical data can be quite tedious and time consuming, but it can also introduce human error.

***A Possible Solution: A Decentralized Database Using the Blockchain to Store and Access Clinical Data***



A possible solution to the challenge posed by having to access clinical data from the current ancient system could be provided by the creation of a decentralized database for clinical data using the blockchain technology. This is what we are proposing with the creation of the “You’re not alone” application. First, let’s focus on the blockchain aspect of the app, we will explain why it has such a

name later. The “You’re not alone” app would feature a user-friendly interface allowing any clinician running a clinical investigation to enter the data produced by their trials.

The application would allow the input of a broad range of individual parameters for each treated patient, such as age, ethnicity, disease progression stage, viral tropism of HIV virus carried, along with the clinical protocol used (e.g., dosage of SupT1 cells infused each week) and the outcome of the



treatment (e.g., viral load, CD4+ T cell count). The app would then access and elaborate the data on the fly; statistical analysis (means, standard deviations, correlations, power) and even the elaboration of suggested treatment profiles that could work best for each type of patient could be performed. This would take away the burden of having to manually search and process all the data from current centralized databases, which often involves printing hundreds of papers. And such an application would have an infinite potential for growing. For instance, an amazing feature could be to store in the database the genotypic information of the HIV virus carried by each patient, allowing to keep track of all mutations and genetic modifications caused by the treatment as well as the resulting viral phenotypic changes. Therefore, such a database would be constantly growing and evolving as new parameters are added to it, and it would be always available, anytime, anywhere, and to anyone connected.

Another important aspect is that usually in a scientific publication the raw data is not published but instead a graphical representation is used to summarize the data; another amazing feature of a decentralized database is that due to not having the editorial constraints of a scientific journal, the whole raw data generated by any research could be included in the database. Such an app would help speed up tremendously the clinical development stages of our AIDS cure research; it could be a game changer. We would still publish the data through the traditional peer reviewed system, but once reviewed and published, the data would also be made immediately available for easy access through the application.

*These are some of the potential advantages of using the blockchain technology for creating a decentralized database for clinical data*

- Immutability. Scientific data need to be immutable. Once a study is peer reviewed and published, its data must be permanently stored and never altered. In the blockchain, all data is stored in every single node, never ceasing to exist, and always staying on the blockchain. *It is immutability that gives the blockchain its openness and BFT (Byzantine Fault Tolerance).*
- Decentralization. The blockchain is designed to be distributed and synchronized across networks, making data freely available to anyone. *We believe that scientific data should be shared and not being hidden behind a firewall.*
- Security. The kind of transactions that can be performed are strictly defined in advance and stored in the blockchain as “smart contracts”; *this prevents fraudulent data from being added to the blockchain thus ensuring integrity of the database.* By contrast, it would be much easier to compromise a centralized database.

*Here are some of the potential drawbacks*

- Transaction slowness. Bitcoin has a limit of 7 transactions per second, while Ethereum has 15. This could be a limit for applications that may require thousands or even million database transactions per



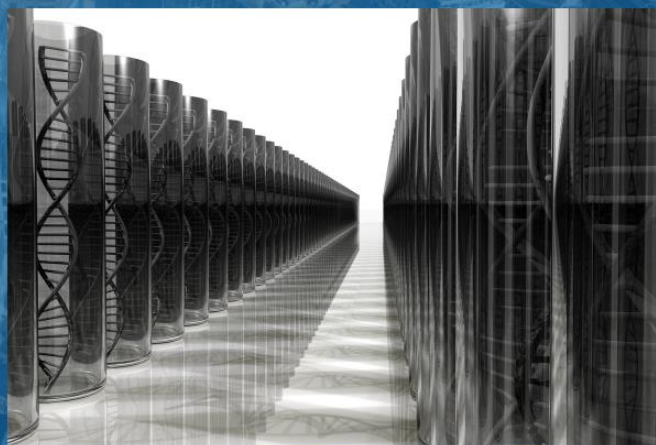
second. *However, this would hardly be the case for a scientific database where data would be entered at a much slower pace, given that it can require several months to years for a clinical study to be completed and new data to be produced.*

- Data storage is primitive. The blockchain uses a rather primitive key-value database. However, although this could be a problem for applications storing complex databases, *scientific data often consist of simple sets of alphanumeric data that could easily be stored in the blockchain by compressing and storing them in Hexadecimal format.*



**How can scientific data be stored in the blockchain?**

**Data can be stored in smart contracts...**



**...in a specific location reserved for contract data**

We are planning to use this application specifically for our AIDS cure research, to overcome the limitations of current centralized databases. However, we believe there may be interest in using our application by other parties. After all, this would be an application designed by a research scientist for research scientists. Our database will be open to any company or institution interested in using our app for storing their clinical data. *Moreover, we will encourage them to do so as we believe that scientific data should be shared publicly.*


Now, let's explain why we named the application "You're not alone". The application will also document the progress of our AIDS cure research project, featuring periodic updates such as articles, vlogs. This will create a community where HIV seropositive people can stay up to the date, comment, share, interact with us working on the cure, and with each other. Something that creates a bridge between HIV seropositive people and us, research scientists working on the cure. Something that allows the HIV seropositive community and anyone interested to be part of this journey. Something that can send the message that they are not alone in their battle. That we are fighting for them. That we care about them. A message of hope. Our vision and intention is therefore to create an application






that will also act as a social app for HIV seropositive people to participate and create new topics and discussions to support each others and stand together in the fight against AIDS.

## **“YOU'RE NOT ALONE” SOCIAL FEATURES**



### **App social features**

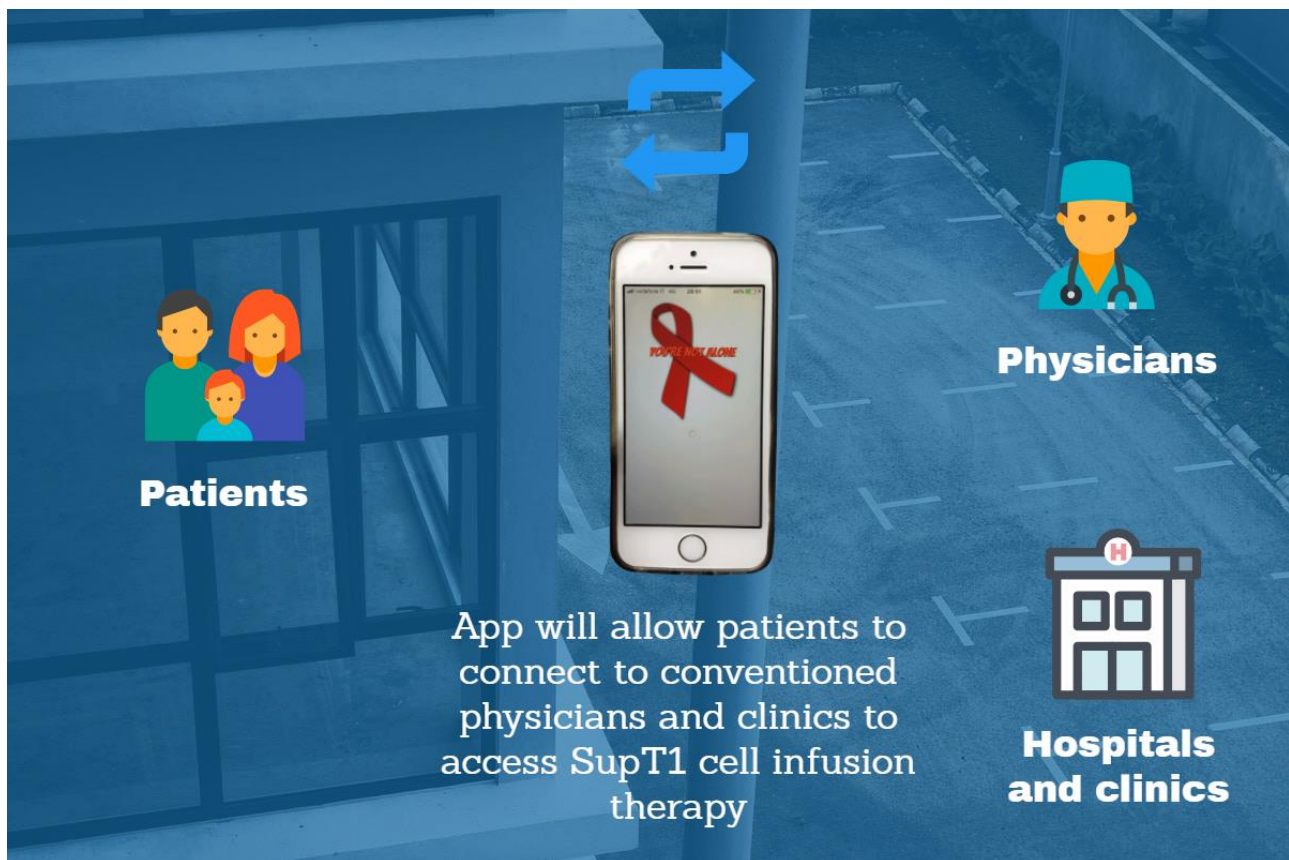


- Create a profile and join the community discussion forum, select a subforum and start a discussion on a particular argument**
- Connect to our update channel to receive the latest news, articles, vlog updates on our AIDS research, and discuss them on the forum directly with our scientists**
- Ask a question to a qualified physician on the dedicated subforum and get a free expert medical advice**





*The application will also provide our official channel through which patients will be able to access the therapy by providing information about all the ongoing clinical trials, how to participate, and once our HIV treatment is approved, it will provide information about the clinics and hospitals offering the treatment, and how to book appointments with legit clinicians that are officially collaborating with us, to offer the best services and rates.*





## TOKEN UTILITY

A first utility of INNBC\N and INNBC\N is designed for patients and it is to be used as means of payment to access all our medical services/products. This means also early access to all the ongoing human trials, as well as access to online medical consulting by our experts and early access to the results and latest updates (conferences, publications) for our research.

In addition, we will launched a series of partnerships with prestigious brands that will use our token as a means of payment and/or discount for their products

Another corporate partnership we established recently is with the French electronic multinational company Archos, which offers a 20% discount for INNBC\N Token holders for the purchasing of their hardware wallets, the best solution to store and keep your cryptocurrencies safe from hackers.

We are partening with

**ARCHOS**



Archos recognized the importance of the INNBC\N Token and wanted to take part in the development of our medicinal research through the blockchain.

The full text of the press release announcing the partnership can be found here: [https://www.archos.com/corporate/press/press\\_releases/EN\\_PR\\_ARCHOS\\_Innovative\\_Bioresearch\\_20180709.pdf](https://www.archos.com/corporate/press/press_releases/EN_PR_ARCHOS_Innovative_Bioresearch_20180709.pdf)

We are constantly working toward further future wonderful partnerships for further expanding our Token economy, making it constantly growing and successful.



*We believe that providing such a straightforward utility (i.e., you can directly use our Token to buy physical goods as you would with a fiat currency) can seriously help reaching those customers who are not normally into the crypto world.*

Another promising partnership was launched with the developer of the highly popular “WalkyFit” app Startbit International.

*Dubai / London – Thursday, November 22th 2018 – Innovative Bioresearch - A new approach to science with the goal of IMPROVING HUMAN LIFE - is proud to announce a new strategic partnership with WalkyFit, the innovative win-win results-driven Functional App.*

The full text of the press release announcing the partnership can be found here: <https://www.facebook.com/1229954083783989/posts/1825645397548185/>

At the second stage of the project, we will launch the first version of our “You’re not alone” app, where INNBC\N tokens can be spent to access a number of privileged features in the app ecosystem such as becoming moderator in the social communities. Token economy will be integral part of the reward point system of the social community. Users who will make particularly useful contributions will earn Tokens.



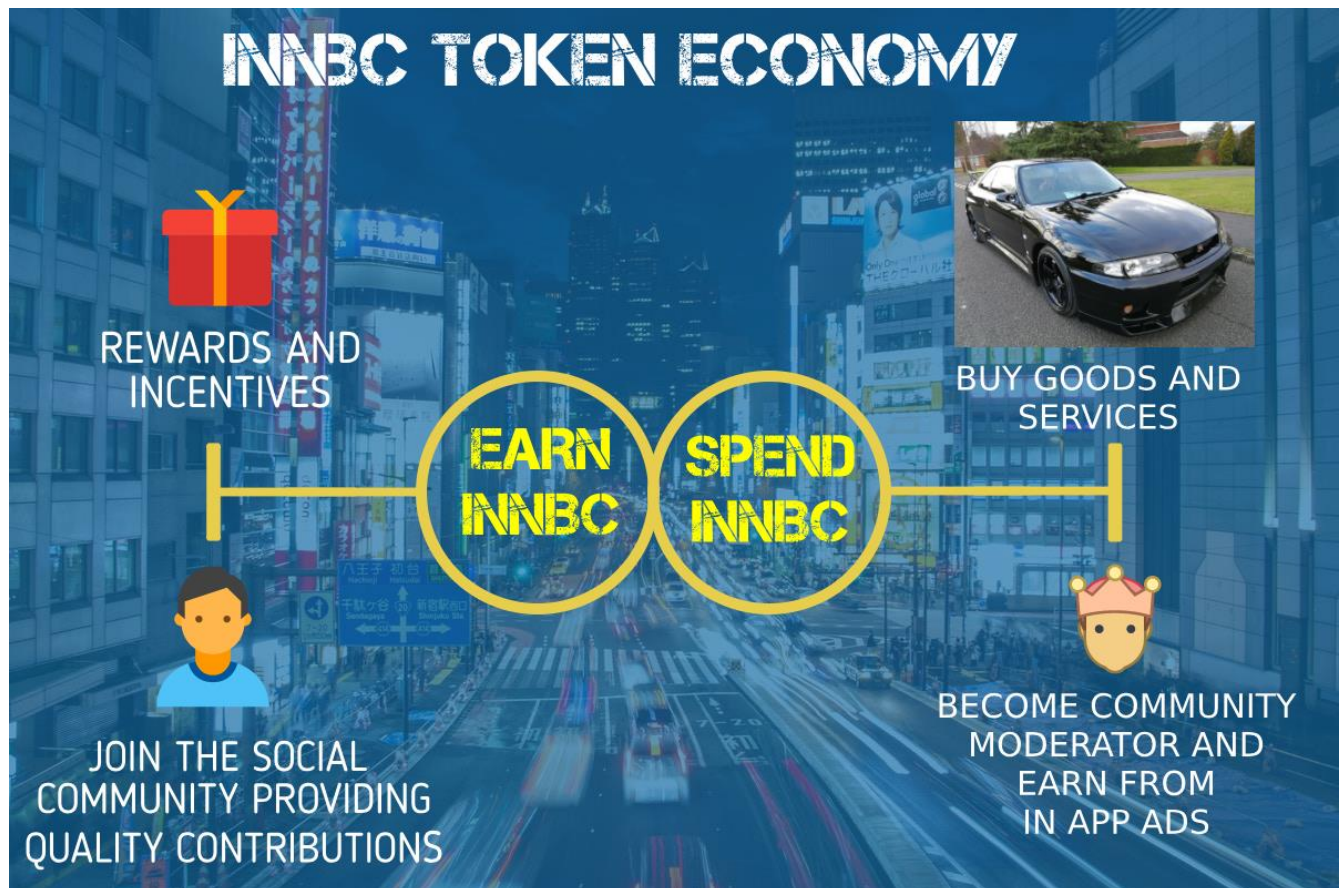
**Users who make high quality posts will be rewarded by other members with rep points**

**Only users with a certain amount of posts will be able to rep other users**

**After a certain amount of rep points, you will be rewarded with some tokens**

**Tokens will give access to moderation roles once a position opens up**





One of the main missions of our Token sale is to develop SupT1 cell infusion therapy, our low cost HIV therapy, to allow access to the treatment for those individuals who are normally left untreated due to social and/or economic limitations. *In order to gain greater control over the market price of our therapy, we will also accept the INNBC\ Token as a form of payment for all our future medical services and products. The "You're not alone" app will be the platform through which patients will be able to spend INNBC\ Tokens to access them.*





## INITIAL TOKEN DISTRIBUTION

A first distribution of the INNBC\L Token is performed as a reward to all those individuals who participated in our bounty campaign contributing with their hard work to the marketing of the token, which represents one of the main costs of the token launch, as well as to all team members and developers. The token is then gradually issued and distributed to the market, where the price is made by supply and demand on the crypto exchange market for public sale.

Our policy is to hold around 2-3% max of the total supply, to allow the market set the price. As such, Innovative Bioresearch will reserve the right to increase token supply for supporting Token economy. For instance, we may need to provide liquidity to a commercial partner using INNBC\L as a means of payment for their product/services, or for supporting initiatives such as airdrops. Supporting Token economy is an essential part of the project, and it's intended to support the development of our biomedical products, which is what, in turn, can really back the price of the Token, besides speculation on exchanges. Specifically, we will accept INNBC\L as a means of payment to access all our medical treatments/products. As our mission is to develop a low cost AIDS therapy, it is also to be noted that we reserve the right to issue additional INNBC\L to allow access to the treatment for those individuals who are normally left untreated due to social and/or economic limitations. In fact, it is important to also understand the humanitarian scope of the project. Understanding the dynamics of the development of a pharmaceutical product is also equally important before purchasing INNBC\L.

The token can be used right after purchasing, and all holders of INNBC\L tokens are free to sell their tokens to users who need those for access to our platform.



## TOKEN TECHNICAL INFORMATION

### ***INNBC***

Token name: InnovativeBioResearchCoin

Symbol: INNBC

Type: ERC20 Token

Token address: 0xB67718b98d52318240c52E71A898335da4A28c42

Decimals: 6

Block Explorer: <https://etherscan.io/token/0xB67718b98d52318240c52E71A898335da4A28c42>

### ***INNBCL***

Token name: InnovativeBioResearchClassic

Symbol: INNBCL

Type: ERC20 Token

Token address: 0x8CC3E2BdC17682c622eB789EDA23FbD6988C84Da

Decimals: 10

Block Explorer: <https://etherscan.io/token/0x8CC3E2BdC17682c622eB789EDA23FbD6988C84Da>

INNBC (InnovativeBioResearchCoin) is the original and main token issued by Innovative BioResearch for developing our novel AIDS cure research. INNBCL (InnovativeBioResearchClassic) is the sister coin we issued at a later time for further expanding our research for supporting cancer/regeneration research projects. Holding INNBCL makes you eligible for INNBC airdrop and bonuses, just like when we recently listed INNBC on top exchange BNiGOne, and INNBCL token holders were rewarded by INNBC bonuses.

We are developing the "You're not alone" application specifically for our research, to overcome the limitations of current centralized databases. However, we believe there may be interest in using our application by other research organizations. After all, this would be an application designed by a research scientist for research scientists. Our database will be open to any company or institution interested in using our app for storing their clinical data. Moreover, we will encourage them to do so as we believe that scientific data should be shared publicly.



## TIMELINE



- Token Sale. Completed by mid June 2018.
- Commercial partnerships. We launched a series of successful commercial partnerships starting from Aug 2018 with the French electronic giant Archos (<http://www.archos.com>) and the developer of the highly popular “WalkyFit” app Startbit International (<http://www.starbit.com>).
- CoinMarketCap. INNOCENT has been successfully listed on CoinMarketCap on March 2019.
- AIDS research. We expect to complete preclinical animal research on SupT1 cell infusion therapy by 2021. We expect to start human trials by mid 2022 and conclude human experimentation (Phase 1,2,3 trials) in 5 years. So we expect to have SupT1 cell infusion therapy commercially available by 2027.
- You’re not alone app. We expect to launch the application by 2020.

*Note. Timeline may be subject to change depending on the funding status of the project.*



## BUSINESS MODEL

We assume as a source of revenue the revenue generated by our “You’re not alone” application in the first stage, while a successive substantial source of revenue is assumed to be generated by our HIV therapy upon its approval and commercialization.



**Ads**

**A first source of revenues will come from in-app ads**

**We estimate an active growing community of 100-200k members within the first year**

**With an average 25-50k visits per day, and possible revenues of 50-100k\$ per month\***

**With a dramatic increase once our AIDS therapy becomes available**

\*Revenues are dependant on RPM, which in turn is highly variable and depends on many factors such as traffic, CRT (click-through-rate), CPC (cost per click). Average RPM can be as low as 0.5\$ for broad niches or as high as 100\$ for competitive niches. With a very narrow nice such as the HIV seropositive community, we estimated for our platform ads from specific HIV related products (e.g., PrEP medications used for a seronegative partner) generating an average RPM of 66\$, which with 25k visits/day would generate roughly 50k\$/month. *The key here is that we aim to have a highly targeted audience resulting in greater relevancy and therefore RPM.*





## Number of people living with HIV in 2016

<b>East and Southern Africa</b>	<b>19.4 million</b>
<b>Western and Central Africa</b>	<b>6.1 million</b>
<b>Asia and Pacific</b>	<b>5.1 million</b>
<b>W. and C. Europe and N. America</b>	<b>2.1 million</b>
<b>Latin America and Caribbean</b>	<b>2.1million</b>
<b>East Europe and Central Asia</b>	<b>1.6million</b>
<b>Middle East and North Africa</b>	<b>230,000</b>

**Source: UNAIDS Data 2017**

There were 36.7million people infected by HIV globally in 2016, 17.5million of which were left untreated, according to [UNAIDS](http://www.unaids.org). *Our mission is to develop a low cost cell-based therapy solution for HIV to allow access to the treatment for those individuals who are normally left untreated due to social and/or economic limitations.* We estimate our treatment to be significantly cheaper than antiretroviral therapy (ART), which is the conventional drug-based therapy for HIV, and substantially cheaper than any gene therapy product using modified autologous cells offered by our competitors.





**Average per patient cost for  
antiretroviral therapy (ART) in  
the US [\*1]**

**19,912\$/year**

**Estimated cost per patient of  
gene therapy autologous cell  
products by our competitors  
[\*2]**

**100,000-1million\$/year  
(depending on the  
number of infusions)**

**Estimated cost per patient for  
SupT1 cell infusion therapy  
[\*3]**

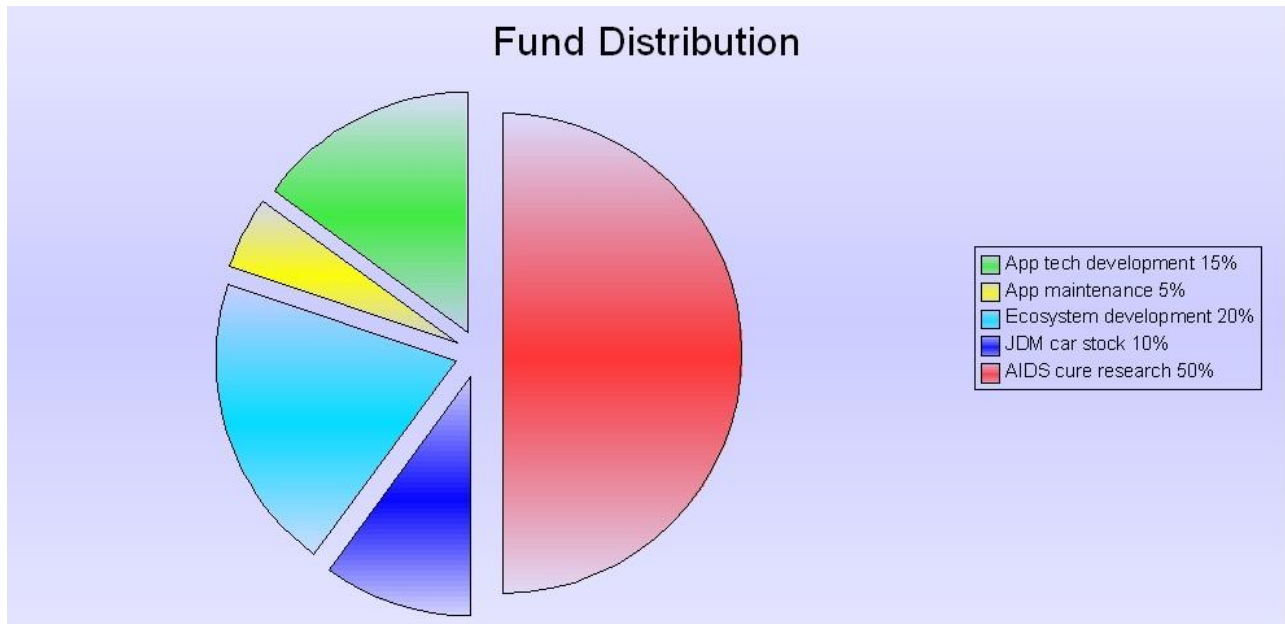
**1,200\$/year  
(with 4  
infusions per  
month)**

\*1)Source; Gebo KA, Fleishman JA, et al. Contemporary costs of HIV healthcare in the HAART era. AIDS. 2010;24:2705-15.

\*2)Estimated based on the complexity and costly operations required to produce and administer gene therapy autologous cell products for HIV; Stan R, Zaia JA. Practical considerations in gene therapy for HIV cure. Curr HIV/AIDS Rep. 2014;11:11-9.

\*3)Estimated based on our previous experience in propagating and administering SupT1 cells in humanized mice; Fior, J. SupT1 Cell Infusion as a Possible Cell-Based Therapy for HIV: Results from a Pilot Study in Hu-PBMC BRGS Mice. Vaccines. 2016, 4:13.

With a potential target of 36.7million HIV infected individuals globally, *our AIDS cure solution could generate 9billion/year in revenue by successfully targeting 20% of the global HIV infected population*, which if our therapy will prove to be safe and effective as an HIV cure we believe is a realistic goal.



- App tech development. Funds used to develop the application, which we expect to launch within the first 6 months after the ICO.
- App maintenance. Funds devoted to general maintenance of the application to keep it live and running.
- Ecosystem development. Funds devoted to creating the infrastructures to support the app (e.g., integrating the app within the information systems of hospitals and clinics partnering with us for administering our HIV therapy), as well as for promotion of the app within the community (i.e., marketing costs).
- Funds devoted to commercial partnerships for promotion and maintaining a reserved stock of available product.
- AIDS cure research. Funds devoted to developing SupT1 cell infusion therapy. This includes preclinical animal research, and human trials (phase 1, 2, 3).



## TEAM



### **Jonathan Fior**

**Owner and Chief Scientific Officer.** Jonathan Fior is a research scientist specialized in the field of virology, immunology, cancer and regeneration\*. He founded Innovative Bioresearch and conceived SupT1 cell infusion therapy, a novel cell-based therapy for HIV that uses SupT1 cells as a decoy target for HIV-1 to prevent CD4+ T cell depletion as well as to render the virus less cytopathic. Jonathan Fior is also a successful stock trader and thus he has a great financial competence as well.

### **\*Jonathan Fior publications**

Fior J. An Initial In Vitro Investigation into the Potential Therapeutic Use of SupT1 Cells to Prevent AIDS in HIV-Seropositive Individuals. PLoS ONE. 2012;7(5):e37511.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC22701517>

Fior J. Is a pacific coexistence between virus and host the unexploited path that may lead to an HIV functional cure? Viruses. 2013;5(2):753-7. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC23430684>

Fior J. Salamander regeneration as a model for developing novel regenerative and anticancer therapies. J Cancer. 2014;5(8):715-9. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC25258653>

Fior J. SupT1 Cell Infusion as a Possible Cell-Based Therapy for HIV: Results from a Pilot Study in Hu-PBMC BRGS Mice. Vaccines. 2016;4(2):13.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC27128948>



**Davide Bosetti**

**Social Media Manager.** Davide Bosetti is a social media expert and is responsible for all social/community related aspects of the projects at Innovative Bioresearch.



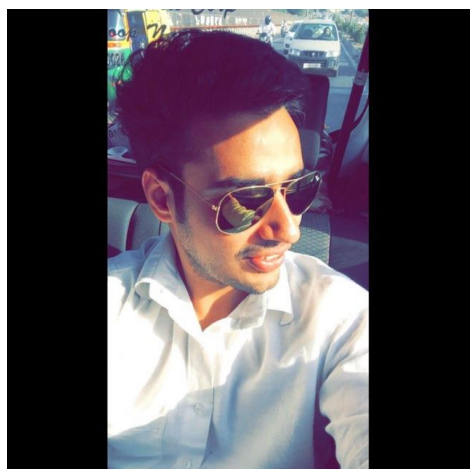
**Deepak Yadav**

**Marketing Advisor.** PR Strategic Advisor at Blockchainprbuzz, experienced marketer with a history of working in the marketing and advertising industry of ICO's. Skilled in Management, Growth Hacking, Business Development, Marketing, and blockchain knowledge. One of his strongest qualities is that he always puts myself in the client's shoes. Every project has its own target audience with their needs, expectations, taste, etc. When starting a project, he always takes his time to carefully plan, research and experiment, before kicking off with the final strategies to work.



**Alessandro Gatti**

**Chief Legal Officer.** Alessandro Gatti is a legal expert and he ensures that everything we do is in accordance with the law.



**Raghav Sawhney**

**Strategy Advisor.** CMO at [BlockChainPRBuzz](http://BlockChainPRBuzz) and where he have worked with around 55 ICO's, consulted them and holds the position of Marketing Advisor in several of these projects. Every customer should be provide with autonomy of valuable choice and I try to ensure value for all my clients. With the experience of working with many clients, he aspire to change the ideology that exists towards sales. A person with entrepreneurial skill set, he is looking forward to evolve various business processes.





### **Jatin Madhra**

**Business Development Advisor. CEO of**

[BlockChainPRBuzz](#), Jatin Madhra is an in-depth technologist, having built various products from scratch in Blockchain and Crypto Ecosystem including ICO consultancy, Cryptocurrency Exchange, Cryptocurrency market place, Crypto Algorithmic Trading Platform and a Crypto Payment Gateway, and he is on the constant voyage of building utility products which create impact in the lives of people.

## HOW WE OPERATE

For research projects, Jonathan Fior works as PI (principal investigator), conceiving the experiments and writing the experiment protocol. The work is then commissioned to a Contract Research Organization (CRO), which physically performs the experiments. Jonathan Fior then supervises all aspects related to the research communicating closely with the CRO. Once the experiments are completed, he analyzes the results and writes a scientific paper, which is published in a peer reviewed scientific journal. *We only publish on open access scientific journals as we believe in free information and don't want our data being hidden behind a paywall.* This means that although our team is not a big team, we actually have companies with 100+ people working for us. Therefore, our team does not need to be large. This way we can keep a small, yet strong and great, team.

*To maximize results and reducing costs, we perform our highly specialized research by partnering with state-of-the-art CROs and Institutions. Some CROs we hired in the past are listed below*



## SOFTWARE DEVELOPMENT

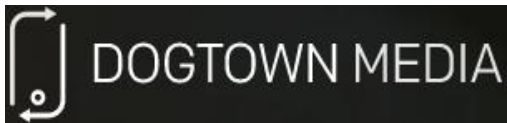
*Along with performing our AIDS cure research, the other important aim of this project is developing the “You’re not alone” application. For developing the application, a professional software development company will be hired for the job. Some potential candidates we selected are listed below*



[Patacaum](http://www.patacaum.com)



WillowTree, Inc.®



Dogtownmedia

*For this ICO, we are partnering with*



### **Risk Factors**

The purchase of INNBC token (hereinafter in this article “Risk Factors” referred to as the "Token" or "Tokens") may be associated with a high degree of risk. To protect the interests of Tokens’ potential purchasers, the Innovative Bioresearch (hereinafter in this article “Risk Factors” referred to as the "Company") team conducted an analysis of such potential risks and outlined the result of this analysis in this chapter of the Whitepaper. IMPORTANT: THE LIST OF RISK FACTORS DESCRIBED BELOW IS NOT EXHAUSTIVE. IN ADDITION TO THE RISKS DISCLOSED IN THIS WHITEPAPER, THERE MAY BE EXISTING OTHER RISKS WHICH THE COMPANY’S TEAM AT PRESENT CAN NOT REASONABLY FORECAST. These risks can materialize in other forms of risk than those specified here. Prior to acquiring Tokens, each potential Token purchaser is advised to carefully review all the information and assess the risks of such purchase, including but not limited to, the risks set forth in this Whitepaper and to decide upon purchase of Tokens based on such assessment.



## **1. Technical and technological risks.**

1.1. Risks of the blockchain. Tokens are released on Ethereum blockchain. In this regard, any malfunction of the Ethereum protocol may lead to a restriction in the use of Tokens, and / or to the fact that Tokens or the platform will function in an unforeseen manner.

1.2. Risk of hacker attacks on the platform, smart contracts, or Tokens. Tokens can be expropriated and / or stolen, by hacking Tokens, or otherwise. Hackers or other groups or organizations may attempt to intervene in a smart contract or Tokens in various ways, including, but not limited to, virus attacks, DDOS attacks, concerted attacks, network attacks, and denial of service attacks, and others. In addition, since the Ethereum platform is based on open source software, there is a risk that Ethereum smart contracts may contain intentional or unintentional errors or shortcomings that could adversely affect Tokens or lead to loss of Tokens, or loss of access or control Tokens. In the event of such an error or weakness of the software, there can be no remedy, and tokens owners are not guaranteed any compensation or compensation.

1.3. Risk of hacker attack on the computer of tokenholder, or loss of passwords / of private keys. Purchased Tokens can be stored by the tokenholder in her\his digital wallet or safe, for which a password, a digital key or a combination of digital keys is required. Accordingly, the loss of the necessary keys associated with such digital wallet or safe, can lead to loss of access to Tokens. In addition, any third party that gets access to such passwords and / or private keys (by way of getting (through hacking, or negligence of tokenholder) access to login credentials of tokenholders' hosting-wallet, or otherwise), will be able to use Tokens of the tokenholder. Company assumes no liability for such losses.

1.4. Risk of using new technologies, and changes in technology in the future. Tokens and blockchain are fairly new and relatively untested technologies. Although at the moment they have largely proven their efficiency, reliability and security, there is no guarantee that in future these technologies do not fail in any way. Further, as technological progress develops, flaws can be found in these technologies, which flaws will prevent their functioning in the way that they function at the moment.

Finally, there is no guarantee that these technologies will be compatible with any new technologies invented in future. In the event of such incompatibility, use of Tokens and blockchain can be found unreasonable and stopped.

1.5. Risk of incompatibility of the cryptowallet service. An electronic cryptowallet or wallet service provider that tokenholder has chosen \ will choose for obtaining and storing Tokens, must be technically compatible with Tokens. Failure to comply with this condition may lead to the fact that the tokenholder will not be able to get access to her\his Tokens. Tokenholders must independently determine the fact of the compatibility of the cryptowallet she\he registered, with the Tokens. Company assumes no responsibility for any errors related to wrong determination of the above fact.





## **2. Regulatory Risks.**

2.1. Risk of regulatory uncertainty. Regulatory status of cryptographic tokens, digital assets and blockchain technology, is unclear or not defined in many jurisdictions. It cannot be excluded that such technologies, and, in particular, Tokens, will in future become subject to one or more (adopted or new) interpretations of laws (or other regulations), court judgments, or actions by various regulatory bodies around the world, including, but not limited to, the imposition of restrictions on the use or possession of digital tokens, such as Tokens. Such changes can adversely affect Tokens in various ways, including, for example, by determining that Tokens are regulated financial instruments that require registration or compliance with other legal requirements and procedures. Company may stop distributing Tokens, developing a platform or terminating operations in a particular jurisdiction if the actions of regulatory authorities of the relevant jurisdiction make it illegal or not commercially viable to proceed.

2.2. Risk of inability to obtain, maintain or renew licenses and permits. As of the date of Tokens sale, there are no statutory requirements requiring Company to obtain any licenses and permits necessary for the sale of the Tokens, but the risk that such legislative requirements may be enacted in the future cannot be ruled out. In this event, possibility of sale and further use of Tokens will depend on the procedure of issuing such licenses and permits, and on compliance with their terms. We cannot exclude that requirements of the law will be technically or economically unachievable for Company. Company may stop distribution of Tokens, develop a platform or terminate operations in a particular jurisdiction in the event of economic, technological or other inability to obtain the required licenses or permits under such jurisdiction.

2.3. The risk of governmental action. The industry of blocking and reversing tokens is new, and simply by virtue of novelty can be subject to increased supervision and regulatory control, including investigations or enforcement actions. There can be no guarantee that the government will not study the activities of the parties. All this can be investigated, which in turn can have a significant negative impact on Tokens and / or platform development.

## **3. Business risks.**

3.1. Risk of failure in development. It cannot be excluded that for various reasons, including but not limited to, for reasons of insolvency of business or technological strategies or business arrangements, technological problems, emergence of new technologies, etc., that the model that Company developed and described in this Whitepaper, will not achieve the desired functionality, be inoperative, or work in a way different from what developers designed it for. Also, we cannot exclude the risk that for these or different reasons, development and implementation of the model can take longer than Company predicts at the moment, and when the model is ready, it will appear to be outdated and/or irrelevant.



3.2. Risk of insufficient implementation. It cannot be excluded that, for various reasons, including, but not limited to, for reasons of insolvency of marketing strategies, external constraints, or competitors' actions, the model developed by Company and described in this Whitepaper model may appear to be unpopular and/or unclaimed, lacking use and application.

3.3. Risk of dependence on third parties. Even after the launch, the model developed by Company and described in this Whitepaper will rely, wholly or partially, on third parties, for adoption and implementation of certain functions, as well as for continuing its development, maintenance and support. Though above-mentioned third parties are carefully selected by Company's team, there is no insurance or guarantee that these third parties will do their job properly, or otherwise meet users' needs, and this can have a significant adverse impact on the platform.

3.4. Risk of loss of cash. The project described in this Whitepaper, the model developed by Company, the platform being created, as well as any funds collected within the framework of the Token sale described, are not insured. In case of failure of the project for any reason, loss of functionality of the Token or platform, there is no private or public insurance representative to whom token holders can apply for reimbursement.

3.5. Risk of force majeure. In the future, there may be extraordinary circumstances that Company cannot reasonably anticipate or prevent and that may be subject to restrictions or impediments to the operation of the Company or Token platform. Company performance may be interrupted, suspended or delayed due to force majeure circumstances. For the purposes of this Whitepaper, force majeure shall mean extraordinary events and circumstances which could not be prevented by Company and shall include: acts of nature, wars, armed conflicts, mass civil disorders, industrial actions, epidemics, lockouts, slowdowns, prolonged shortage or other failures of energy supplies or communication service, acts of municipal, state or federal governmental agencies, other circumstances beyond Company's control, which were not in existence at the time of Whitepaper release.

3.6. Value of Tokens. Once purchased, the value of Tokens may significantly fluctuate due to various reasons. Company does not guarantee any specific value of the Tokens over any specific period of time. Company shall not be held responsible for any change in the value of Tokens.

#### **4. Other risks.**

4.1. Taxes. Token holders are solely responsible for determining if the transactions contemplated herein are subject to any applicable taxes whether in their home country or in another jurisdiction. It will be the sole responsibility of Token holders to comply with the tax laws of any jurisdictions applicable to them and pay all relevant taxes.



4.2. Disclosure of Information. Personal information received from Tokens holders, the information about the number of tokens owned, the wallet addresses used, and any other relevant information may be disclosed to law enforcement, government officials, and other third parties when Company is required to disclose such information by law, subpoena, or court order. Company shall at no time be held responsible for such information disclosure.

4.3. Risk of Insufficient information. Tokens are at a very early developmental stage and its philosophy, consensus mechanism, algorithm, code and other technical

specifications and parameters could be updated and changed frequently and constantly. While the Whitepaper contains the up-to-date key information related to Tokens at the date of the Whitepaper, it is not complete nor is final and is subject to adjustments and updates that Company may make from time to time. Company is not in a position, nor obliged to report on every detail of the development of Tokens and other elements of the system presented by Company and therefore will not necessarily provide timely or full access to all the information relating to the Tokens, but will use reasonable efforts.