

CLIMATECOIN WHITEPAPER

The first cryptocurrency that allows everyone to participate in the fight against Climate Change.

Creating value by incentivizing environmentally responsible businesses and sharing the results through our tokens.

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1.- INTRODUCTION

1.1.- CLIMATE CHANGE & BLOCKCHAIN FACTS

Climate Change is getting worse by the minute and it affects every part of the Earth. It is not a matter of debate as concrete scientific evidence shows the reality of it.

- 1) **Carbon dioxide levels in the air is at its highest in 650,000 years (406,17 parts per million).**
- 2) **16 of the 17 warmest years on record have occurred since just 2001.**
- 3) **In the summer of 2012, Arctic sea ice had shrunk to the lowest level ever recorded in history.**
- 4) **Satellite data shows that Earth's polar ice caps are losing mass (287 gigatonnes per year).**

The reality is that governments and politicians are not prioritizing climate change, even though they have the power and resources to do so. Also, the resources of any organization or individual are obviously not enough to solve the problem. Since the authorities are not taking the initiative to lead the fight against Climate Change, our organization will do it instead.

Are individuals going to solve it?

Most People see climate change as a real problem. They are becoming more aware of what is at stake and are willing to contribute to this problem more and more by changing their habits. Of course, this is not enough, so most people are also willing to financially contribute towards efforts to save the Earth. If the climate change problem could be quantified on a per person basis, like a relatively low amount of \$15 USD per person, everybody would want to contribute.

In reality, two problems appear that keeps everyone from embracing the obvious solution:

1. Human nature. People will start thinking they are donating an unfair amount with the thought that other people are contributing very little money in comparison. They might think, "If everybody else is not bothering to contribute \$15, why should I put forth \$15?"

At the same time, people will think governments and public organizations should be the one to bear the financial burden and feel powerless as an individual. This would be what economists call the "tragedy of the commons."

2. Who is going to organize this? Who is going to collect data and detail all of the total efforts needed and all of the efforts currently being made? Governments surely will not!

Even with the positive sentiment of the Paris Agreement, it isn't enough to solve the problem. At the very least, it was the beginning of uniting countries in the world to face Climate Change. But recently, USA had left the agreement and is the country with the second highest emissions in the world at 5.172.338 kilograms/ton in 2015.

THE BLOCKCHAIN

The Blockchain is the technology originally used in **Bitcoin**. Which pioneered the cryptocurrency market. It is able to transport secure and reliable financial transactions between two parties without the need of intermediaries

Think of the blockchain as a type of distributed ledger that uses encryption to store permanent and tamper-proof records of transaction data. The data is stored via its peer-to-peer network using the consensus of peers to validate each transaction.

One of the major benefits of a blockchain system is that it eliminates, or vastly reduces, costs in a wide variety of applications and most prominently in financial services. It eliminates having a central authority (e.g., [a clearing house](#)) in conducting and validating transactions. Instead, transactions will go straight from sender to receiver.

The Blockchain has been proven to be a groundbreaking technology in society today and is being adopted by big multinational businesses around the world. Some of the biggest corporations are making significant investments and even patenting their blockchain-based ideas in order to remain ahead of other fintech companies.

Also, blockchain synergizes well with **the internet of things (IoT)**, which is the inter-networking of physical devices (also referred to as "connected devices" and "smart devices"). Vehicles, buildings, and other items are embedded with electronics, software, sensors, actuators, and network connectivity. These objects are able to collect and exchange data within their internal networks. The IoT allows objects to be sensed or controlled remotely across existing network infrastructure and creates opportunities for more direct integration the physical world with computer-based systems. This results in improved efficiency, accuracy and economic benefit in addition to convenience by reducing the need for human interaction.

Imagine if those concerned about climate change had one centralized medium in which they can contribute funds to battle Climate Change. This would empower individuals who want to make a difference in this struggle while also receiving a share of the profits in return.

1.2.- MEET CLIMATECOIN

The CLIMATECOIN token is a new and unique cryptocurrency based in Ethereum that permits any citizen in the world to participate in the fight against climate change. It utilizes blockchain technology for that purpose while also giving back quarterly profits to its token holders.

The CLIMATECOIN Foundation will collaborate with companies that create solutions against climate change and they will utilize blockchain technology to do so. We will provide investment and business consulting to these companies to make their environmentally friendly products more economically feasible. The main goal for these companies is to remain profitable, in which they may be able to redeem dividends from the organization. The profitability of these partnered companies is essential to appreciating the value of the currency.

At the same time, CLIMATECOIN negotiating an agreement with the United Nations and is already capable of buying companies that have carbon credit selling authorization. This will be another means of profit for the organization, token holders and partnered companies.

Carbon credits and carbon markets were made as an international collaboration to mitigate the growth in concentrations of greenhouse gases (GHGs). (https://en.wikipedia.org/wiki/Carbon_credit)

With the money Climatecoin Foundation gets from the CLIMATECOIN token sale, it will be buying stakes in companies that have ground-breaking products for fighting the current climate change crisis. **CLIMATECOIN** may buy companies that are already profitable, make seed investments in early-stage companies, create its own companies or projects, or buy solutions from other organizations to implement into the foundation's projects.

Our mission is to create a symbol for the common man to be able to participate in this struggle against Climate Change, while also utilizing the revolutionary blockchain technology to do so. This is a cryptocurrency that will continually appreciate over time as we will be reinvesting part of our annual profits back into the market and paying out quarterly dividends. As our partner companies grow and generate more profit, we will sell dividends and stakes in order to reinvest into the organization (but only after both the foundation and the company achieve the desired goal). Token holders will receive a part of the profits and we will reinvest back into the market so that the currency will appreciate.

We will install an IoT-based tracking system that will be used with participating companies so token holders will be able to track the progress of CO₂ and methane reduction in the atmosphere. This will be done through our CLIMATECOIN mobile application and our Climatecoin.io website. The website and application will also track the company's financial investments and financial statements of these companies. Thanks to blockchain and IoT technologies, information will be transparent and updated efficiently. A discussion forum will also be implemented so that token holders may make suggest investments that the foundation should make.

We know that companies that are focused on environmental projects will typically have difficulties in receiving investments and proper management to make their products competitive. We will aid them with investing while also advising them on how to manage their companies. With our help, they will hopefully be able to produce competitive solutions against products that harm the environment.

The foundation will be hiring a highly reputable audit company to assure that funds are being invested in the right places when acquiring companies, products, or services. The auditing process will be thorough before any investments are made.

Any money raised will be locked into cold storage with a company that will be disclosed after the launch.

At the same time, we are closing agreements with large organizations that adhere to the best and most innovative companies in the environmental preservation world.

We have created a **board of advisors** with highly experienced professionals from the energy, venture capital, and technology industries. This will assure that the company will remain on track to achieve its mission.

2.- ECONOMIC FACTS POTENTIAL

2.1- MARKET POTENTIAL

The OCDE estimates that around 103 trillion USD of cumulative investment between 2016 to 2030 is needed to mitigate climate change. This means the potential for huge profits for those involved in this industry.

Since the Paris Agreement was adopted in December of 2015, a total of 189 countries have submitted their national plans that to combat Climate Change. This includes investments in renewable energy, low-carbon cities, energy efficiency, sustainable forest management, and climate-smart agriculture. These plans, called nationally determined contributions (NDCs), offer a clear roadmap for investments that will aim to produce climate-resilient infrastructure and offset higher upfront costs through fuel savings.

An IFC report launched in November shows that the historic global agreement on climate change adopted in Paris helped **open nearly \$23 trillion in opportunities** for climate-smart investments in emerging markets between now and 2030.

IFC's study, based on the national climate-change commitments and underlying policies of 21 emerging-market economies, representing 48 percent of global emissions. The study had identified sectors in each region where the potential for investment may be the greatest. This includes:

- **East Asia and the Pacific:** Green buildings will be produced in China, Indonesia, the Philippines, and Vietnam. These countries show a climate-smart investment potential of \$16 trillion.
- **Latin America and the Caribbean:** This region particularly offers potential in the growth of sustainable transportation. The combined potential for investment in Argentina, Brazil, Colombia, and Mexico is about \$2.6 trillion.
- **South Asia:** Opportunities are mostly seen in climate-resilient infrastructure, where \$2.5 trillion in opportunities exist in India and Bangladesh.
- **Sub-Saharan Africa:** This region represents a \$783 billion opportunity, particularly for clean energy in Cote d'Ivoire, Kenya, Nigeria, and South Africa.
- **Eastern Europe:** The biggest markets in this region, which are Russia, Serbia, Turkey, and Ukraine, shows a combined investment potential of \$665 billion. It is mostly in energy efficiency and new green buildings.
- **The Middle East and North Africa:** The total climate-investment potential for Egypt, Jordan, and Morocco is estimated at \$265 billion, in which over a third of is for renewable-energy generation. 55 percent (\$146 billion) is for climate-smart buildings, transportation, and waster solutions.

World Bank Investments

At least \$16 billion a year, from the World Bank, which and other development and finance institutions, will be directed towards Climate Change projects. These projects will include renewable energy and energy efficiency. The group will aim to mobilize \$13 billion in extra funding from the private sector within four years through joint funding programs. By 2020, these efforts should amount to about \$29 billion a year, which is nearly a third of the \$100 billion a year in climate finance promised by developed countries to the developing world as part of global Climate Change agreements.

2.2- THE POTENTIAL OF CRYPTOCURRENCIES

Businesses across the globe spent \$2.5 billion in 2016 on blockchain solutions. Many reports predict that it will rise to over \$19.9 billion by 2025. The financial services sector accounts for the majority of the future market growth.

"Blockchain technology is one of the most promising upcoming technological trends in the information technology domain," according to Grand View Research.

"Not only does the technology hold the ability to disrupt the way the financial sector often works but it will also have ramifications on many other industries including consumer goods, technology, and media and telecom, among others," says the report.

Using blockchain technology as a way to approach more people in the world in a simpler, faster, more reliable, more confidential and safer way. Because of this, it maximizes the potential growth for our initiative.

At the moment in which this paper was written, Bitcoin has a value of 3,451.20 USD and Ethereum of 235.59 USD. Ethereum has a Market Cap of \$22 billion USD, with roughly \$550.8 million worth of Ether being exchanged daily. Due to the programmable ability to run smart-contracts on the blockchain, large international institutions are beginning to find ways to leverage this network to reduce business costs.

This is the primary advantage that Ethereum has over Bitcoin. Ethereum has experienced tremendous growth over the past year that out-paces Bitcoin. Such tremendous growth rates highlight a growing need for experienced, honest and reliable business based in blockchain technology.

Ethereum is being adopted by big institutions, like the HYPERLEDGER Project hosted by Linux Foundation. This project has large corporations involved like American Express, BBVA, the Bank of England, Airbus, SAP, Wells Fargo and Thomson Reuters.

3.- OUR VISION

3.1- OUR PURPOSE

With Climatecoin, we want to reverse the slow destruction that is happening to your planet from Climate Change. We believe that nature, which is essential for our survival, deserves to be protected by the citizens of the Earth. We aim to help this cause by giving everybody the chance to contribute into CLIMATECOIN as a means of investing into the survival of the planet.

3.2- CLIMATECOIN INVESTMENT DIFFERENTIATION

A large amount ICOs recently went public, which generated a great deal of expectation for the long-term speculation of cryptocurrencies. Without really having any tangible assets or any real-world applications for most of these currencies, many of them had been short-term profit schemes by their creators and early investors.

Climatecoin was created to go against the grain and to bring blockchain technology to real world applications. The main differences between our ICO with other ICOs are:

1. The money raised in our ICO will be mostly *used for acquiring tangible assets with real value*. As we stated above, the money is destined to buy shares in companies with ground breaking products to fight climate change. Our organization will have shares of companies with real value and real assets.

We believe our token may appreciate for a few reasons:

- a) It is built upon a *profit-sharing smart contract design*. CLIMATECOIN presents itself as a Token-as-a-Service business model, which allows for contributors to have a share in the foundation's income. The smart contract allows token owners to collect 25% of quarterly profits, which will be paid in Ethereum. To grow the capital pool, the rest of the profits will be reinvested back into the foundation to fund the acquisition of new companies. This allows the net asset value (NAV) of a token to increase over time, making CLIMATECOIN a blockchain token to have its value explicitly tied to the performance of a parent project.

The above is possible as the foundation will get a quarterly basis dividend, which is paid by the companies that participate with the foundation. The foundation will also receive profits with capital gains of the shares they have in other companies. The companies will primarily make profit with the sales of their products, but a significant amount will also be made in the form of Carbon Credit sales. (https://en.wikipedia.org/wiki/Carbon_credit).

b) **DEPLETION PROGRAM:** 2% of the total amount invested by the Foundation in any company will be reinvested into CLIMATECOIN CO2 tokens to allow the net asset value (NAV) of the token to increase over time. This program will function as a locked smart contract that will be locked in perpetuity to guarantee that the funds will be spent in this manner.

c) We hope to become a widely-recognized international symbol. Producing big results from our efforts will increase recognition of the coin's brand and will invite more investors.

2.- Unlike other ICOs, our project will be using one of the top auditing companies in the world to give transparency to the customers. This should give an ease of mind to customers knowing that their investments will be spent in the right place.

Following Vitalik Buterin's article regarding token sale models, revenues generated from the token sale will go to a multisig wallet managed and controlled by curators. Funds will only be handed out after due diligence of the company willing to acquire.

We will provide up-to-date information about our investments, the money that our partnered companies are making, and the environmental impact that we are creating. These results will be made public thanks to blockchain and IoT solutions. At the same time, we will also integrate our blockchain and IoT system with other participating companies.

It must be clear that CO2 token holders are not owners of the CLIMATECOIN Organization's shares. They will neither own shares in the companies that will be acquired. Our main goal is currency appreciation by growing assets, distributing dividends, and capital gains. If our goal of becoming a worldwide symbol for climate change action, this must help the value of the currency to appreciate.



EXECUTION AND FUTURE

Business acquisitions and development will be the main source of the funds raised since investing in companies/projects must be our main objective. Depending on the amount raised in our token sale, having more funds will give us access to invest in a wider variety of climate companies and it will mean a greater IRR. Our determination is to think big in order to be able to make impact, and therefore, 255 million CLIMATECOIN units is the total we are seeking to sell in our token sale. This entire amount will be used to invest in the different projects we will select. As stated previously, every acquisition will be preceded by an audit – Due Diligence - and will then allow the funds held in the multisig wallet to be released.

We will prioritize the growth of the companies that we invest in so that profit will be maximized. After a determined period of time, we may exit the companies by selling off our shares and leave with capital gains. We use venture capital fund strategies in order to reduce our risk.

Our investments may be divided between 2 types of venture business:

- Early Stage investments (Start-up firms - those with less than \$1 million in revenue)
- Later-stage investments (those that have raised capital at valuations greater than \$100 million)



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THE TYPE OF SECTORS CLIMATECOIN WILL BE INVESTING IN

ELECTRICITY

- Next-Generation Nuclear Fission
- Enhanced Geothermal Systems (EGS)
- Ultra-Low-Cost Wind Power
- Ultra-Low-Cost Solar Power
- Nuclear Fusion
- Ultra-Low-Cost Electricity Storage
- Ultra-Low-Cost Thermal Storage
- Ultra-Low-Cost Transmission
- Low-Cost Ocean Energy
- Next-Generation Ultra-Flexible Grid Management
- Fast-Ramping, Low-GHG Power Plants
- Low-GHG, Reliable, Distributed Power Solutions
- CO2 Capture
- CO2 Sequestration and Use

MANUFACTURING

- Low-GHG Chemicals
- Low-GHG Steel
- Low/Negative-GHG Cement
- Waste Heat Capture/Conversion
- Low-GHG Industrial Thermal Processing
- Low-GHG Paper Production
- Extreme Efficiency in IT/Data Centers
- Fugitive Methane Emissions from Industry
- Extreme Durability for Energy-Intensive Products and Materials
- Transformative Recycling Solutions for Energy-Intensive Products and Materials
- Increasing Biomass Uptake Rate of CO2
- CO2 Extraction from the Environment

AGRICULTURE

- Reducing CH4 and N2O Emissions from Agriculture
- Zero-GHG Ammonia Production
- Reducing Methane Emissions from Ruminant Animals
- Developing Low-Cost, Low-GHG New Sources of Protein
- Eliminating Spoilage/Loss in the Food-Delivery Chain
- Soil-Management Solutions for GHG Reduction and CO2 Storage
- Manure
- Agriculture-Related Deforestation

TRANSPORTATION

- Batteries for Gasoline Equivalent EVs
- Lightweight Materials and Structures
- Low-GHG Liquid-Fuels Production—Non-Biomass
- Low-GHG Gaseous Fuels Production—H2, CH4
- High-Energy-Density Gaseous Fuel Storage
- High-Efficiency Thermal Engines
- High-Efficiency, Low-Cost
- Low-GHG Liquid Fuels Production—Biomass
- Transportation-System Efficiency Solutions
- Technology Solutions that Eliminate the Need for Travel
- Technology-Enabled Urban Planning and Design
- Low-GHG Air Transport
- Low-GHG Water-Borne-Goods

Two key factors driving returns for these categories are loss rates and holding periods. The likelihood of achieving expected returns depends on risk profiles, loss rates and holding periods, having always a good exit strategy. We have to be clear that talking of early stage investments, some of the projects must result unsuccessful

For **early stage investments**, as *most early stage funds net annual returns average are 20% over a 30-year span*, there will typically be 20 investments – where the average holding in our case must represent less than 30% of the fund. The downside risk is reduced through diversification. How capital is invested and subsequently recaptured through exits can have a meaningful impact on returns.

The average holding period of a VC investment is 8 years. Our simulations state that for the total of investments, for a 30% of the total amount raised, 76.5mm would likely yield a gross expected return multiple of 4.3x or an IRR of 30%.

Our experienced team, together with several venture capital and business experts being hired before the end of the year, will be considering the most innovative and disruptive companies, projects and teams from more than 1000 candidates that will come from different sources (UNFCCC, Universities, website, partners, own research, etc.). After the initial selection, the 1.500 projects will end up in 100 to be studied together with our Investment Committee composed by some members of the board of advisors, and some more from experts selected from CLIMATECOIN partners. The total projects/companies to be invested may be normally a total of 20 to be invested each round for early stage investment. This process will depend on the quality and expectation of future profitability of projects, so amounts and number of projects invested yearly may vary.

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Early stage	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Project end
Avg.Deployment Pace	20,0%	30,0%	20,0%	20,0%	10,0%	0,0%	0,0%	0,0%	100,0%
Avg.Proceeds from Exits	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	100,0%
Capital called	-\$9,95	-\$14,92	-\$9,95	-\$9,95	-\$4,97	\$0,00	\$0,00	\$0,00	\$49,73
Proceeds	\$0,00	\$0,00	\$0,00	\$0,00	\$0,00	\$0,00	\$0,00	\$213,81	213,81
Total CF	-\$9,95	-\$14,92	-\$9,95	-\$9,95	-\$4,97	\$0,00	\$0,00	\$213,81	

Return	330%
Multiple	4,30
Annual return	20%
IRR	30%

Funds raised

-Marketing	7,65	10%
-Legal	3,83	5%
-Reserve	7,65	10%
-Core Dev	7,65	10%
-Business Development	49,73	65%
	76,5	100%



Later-stage venture investing typically involves less risk than its early-stage counterpart. Among other things, more mature entities are typically generating significant revenue (though they may still be unprofitable) and have moved beyond the market and product development stages. They are also less risky because the odds of a successful exit are higher. Here, our average holding periods will be shorter – between 3 and 5 years. The 30-year average annual net return for late and expansion-stage investments may be around 12.6%. Our simulations state that the total of the investments is 70% of the total amount raised in the token sale, e.g., 178.5mm would likely yield a expected return multiple of 2.3x or an IRR of 22% that equals 410.55mm.

The valuation of our investments, the dividends and the capital gains in case of disinvestment will create a floor for our currency and as people appreciate our investment strategy and IRRs generated, our token should get high appreciation.

Our experienced team, together with several venture capital and business experts being hired before the end of the year, will be considering the most innovative and disruptive companies and teams from more than 200 candidates that will come primarily from our own research, partners or advisors referral. These late stage candidates, will end up in 100 companies to be studied together with our Investment Committee. The companies to be funded may be normally also a total of 20 each round. This process will depend on the quality and expectation of profitability of projects, so amounts and number of projects invested yearly may vary.

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Late stage	Year 1	Year 2	Year 3	Year 4	Year 5	Project End
Avg.Deployment Pace	60,0%	40,0%	0,0%	0,0%	0,0%	00,0%
Avg.Proceeds from Exits	0,0%	0,0%	0,0%	0,0%	100,0%	100,0%
Capital called	-\$69,62	-\$46,41	\$0,00	\$0,00	\$0,00	\$116,03
Proceeds	\$0,00	\$0,00	\$0,00	\$0,00	\$204,48	\$204,48
Dividends	\$3,48	\$3,90	\$4,37	\$4,89	\$5,48	\$22,11
Total CF	-\$66,13	-\$42,51	\$4,37	\$4,89	\$209,95	

Return	76%
Multiple	1,76
Annual return	12%
IRR	22%

Funds raised

-Marketing	17,85	10%
-Legal	8,93	5%
-Reserve	17,85	10%
-Core Dev	17,85	10%
-Business Development	116,03	65%
	178,50	100%



3.3. TEAM MEMBERS



JAMES HAFT

CLIMATECOIN CEO

Emory University - Goizueta Business School

<https://www.linkedin.com/in/jameshaft/>

Entrepreneur and Merchant Banker with broad experience in all aspects of forming, managing, advising, fund raising, and biz dev for entrepreneur-powered businesses, including, business strategy and M&A. Advisor or co-founder of global ICOs and Token offerings.

Significant and relevant experience with Internet apps and platforms, Cryptocurrencies & Tokens, integrated media, online advertising & online metrics, mobile apps, telecom, energy, emerging markets, financial consulting, real estate and venture capital.



JUAN BOLUDA SOLER

CFO & COO

IE Business School SPAIN – MBA Executive

<https://www.linkedin.com/in/juanbautistaboluda/>

He is an entrepreneur and senior executive with more than 12 years of experience in a wide variety of business sectors. He had gone from the nautical industry all the way to the cinema industry, while also passing through the real estate and property business.

He started working for his family-owned corporation. He developed operational and financial management skills while working on various projects for the company.

Juan has contributed greatly to every company that he had worked for with his skills in process optimization and labor management. His theory is that a business may be optimized through motivation, teamwork, resilience, and continuously learning.

He had recently finished an Executive MBA at the IE Business School, where had acquired hard and soft skills that allows him to tackle any problem.

Juan is very interested in learning about the latest technology on the market and he especially holds and interest in Blockchain technology.



David Ortega
CLIMATECOIN CTO

<https://www.linkedin.com/in/dortega/>

David started working with Blockchain technology since 2016. He tested capabilities for blockchain technology in public and private applications. He spends his spare time studying the security of smart contracts. Before working with Blockchain technology, he had been an iOS developer in several big projects like FCBarcelona's official mobile app and Glassy Pro.

Specialties: Blockchain, design patterns, agile methodologies, team leadership, iOS development, Apple, MySQL, PostgreSQL, HTML5, CSS3, Django, and Web Standards.



Ana Karen ZS
CLIMATECOIN CMO

<https://www.linkedin.com/in/ana-karen-zs-67ba7697/>

- CLIMATECOIN
- *Universitat Politècnica de València (UPV)*

Ana is a marketing professional who started in the audiovisual and communication fields. She has expanded her knowledge considerably in the fields of strategy and online marketing, as well as WordPress content management. She is also proficient in PHP code, CSS, SEO, and internet marketing.

She is passionate about creating new forms of powerful advertising and internet marketing campaigns. She pours her passion and expertise into every project that she works on.



ANTONIO LIU YANG

CLIMATECOIN CCO

<https://www.linkedin.com/in/antonioliuyang/>

He is a Consultant who has managed the promotion of Spanish companies, like the Wanda Project for the Villarreal Soccer Club, using Chinese social media. He had coordinated the Asian Entrepreneurship of the European Center for Innovative Companies. He had managed the educational project of the Greenland Shanghai Shenhua S.C. in Spain. He is a service provider for Valencia Major Hall and Export Valencia Institute.

Antonio acts as a substitute professor, in Chinese and in Spanish, for a dozen different masters programs by different universities like the Madrid Complutense, Catholic University of Valencia, the Alcalá de Henares and business schools like ESERP or INEDE.

He had been awarded with the Prize of First Young Talent of the Valencian Community in 2013, the Gold Medal of the Forum Europe for his exceptional professional career in 2015, and many other prizes.



BORJA HERRERO

WEB DEVELOPER

<https://www.linkedin.com/in/borjaherrero/>

Borja is a software engineer with 8 years of experience developing web applications such as corporative websites, e-commerce and learning management systems. He is always using state-of-the-art web and mobile technologies for his projects. He is very demanding of himself and meticulous on his work. He specializes in front-end development, HTML5, CSS3, JavaScript, PHP, MySQL and CMSs such as WordPress.

3.3. TEAM MEMBERS

BOARD OF ADVISORS



EMMANUEL LAGARRIGUE
CHIEF STRATEGY OFFICER AT
SCHNEIDER ELECTRIC

<https://www.linkedin.com/in/lagarrigue/>

Member of the Board of the Executive Committee Schneider Electric. Expert in Business Management and an overall great leader.



GONZALO DE LA PEÑA CIFUENTES
CEO AND FOUNDER AT OPENFINANCE

<https://www.linkedin.com/in/gonzalodelapena/>

Gonzalo is an expert in systems for the analysis and management of investment portfolios.

He has more than 15 years experience in this field and has participated in famous projects like Invertia and Openfinance.

When he was 21, he was part of INVERTIA's founding team, which was the first Spanish language financial site in the world. He still remains a leader in this team.

Afterwards, he created Openfinance (<http://www.openfinance.es>), a financial software company for financial advising and portfolios management. In a short period of time, Openfinance became the leader in its segment in Spain being used by 70% of the companies in Spain.

In 2012, Openfinance sold most of its shares (62%) to Bolsas y Mercados Españoles (BME) and to the Deutsche Börse, as a way to find a strategic partner to permit international expansion of the business.

Gonzalo individually collaborates in other projects related to entrepreneurship that revolutionizes their sectors, like PLD Space (<http://www.pldspace.com/> Access to the Space for small payloads), Verse (<https://joinverse.com/> Mobile payment system).



ANTONIO BENEDITO SERRANO

Ex- Repsol Gas (SOLGAS) CEO and Ecuador Repsol Gas CEO

Industrial Engineer - IESE MBA

Antonio has broad range of experience in business management, having managing positions in Balanzas Cobos in Barcelona, Repsol Gas in different positions until becoming CEO, Ros Casares Sales Manager in Valencia and finally before retiring as the CEO of Grauforz Spain.



MARCOS MARTIN LARRAÑAGA

Co-founder & GP at Torret Road Capital

Co-Founder at Menorca Millennials

Torret Road Capital - MDT Executive Program

<https://www.linkedin.com/in/marcosmartin07>

Marcos has broad range of experience in business management, fundraising processes and investor relations. Has served as a board member at several early stage companies and has given strategic advice. Has more than 15 years of experience in the European energy sector. Co-founder of B-strategies, co-founder of the European Pellets Council, co-founder of Menorca Millennials, co-founder of Torret Road. Holds an executive degree from MDT, a master's degree in business administration from INDAE Business School and a master's degree in engineering

from the UVa, having specialized in the energy industry.

Among others:

4YFN - BARCELONA MOBILE WORLD CAPITAL judge

STARTUP CHILE judge

Forest Europe Expert al C&I SFM Forum

FAO consultant

World Bioenergy Association Expert

CLIMATECOIN



AMPARO SANCHIS

SENIOR MANAGER KPMG SPAIN

<https://www.linkedin.com/in/amparo-sanchis-85031810/>

Lawyer & Europe's most reputable VAT Expert.

Tax expert advisor for big companies, funds and multinationals. Desires to contribute to the climate change fight.



PEDRO J. GARCIA

VICE-PRESIDENT SOLMED ALLIANCE

ESTEMA UNIVERSITY VALENCIA

UNIVERSITY OF CALIFORNIA - BERKELEY PDD

SOLMED Alliance is a facility services company and leader in quality management. Their aim is to support their clients, adding value in every project and working with the maximum security to guarantee the satisfaction in each operation they manage around the world.



JOSE LINDO

IMPACT INVESTOR | UN-REDD | B-Corporation | HYPERLOOP | AR VR for Good

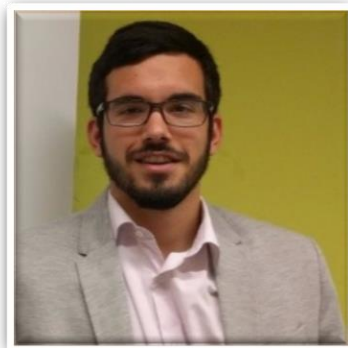
<https://www.linkedin.com/in/joselindosolis/>

INNOVATIVE SOLUTIONS FOR FINANCING NATURE'S CONSERVATION

Social entrepreneur with particular expertise in the fields of Fundraising and Corporate Responsibility Strategy. Master degree in Natural Resources Management and Social Marketing give a balanced profile combining knowledge of environmental problematics whilst understating politics and corporate dynamics.

Over the last decade, I have been working as fundraiser and advisor for the United Nations Environment Programme (UNEP) and governments. I manage a large number of institutional and fundraising campaigns which preserve natural resources. One of the most successful campaigns was Plant for the Planet by UNEP, where I was inspired by Nobel Peace Prize winner Wangari Maathai. He raised millions and was able to plant 47M trees in Spain, creating one the largest green Mediterranean corridors in Europe.

Advisor for Millennium Ecosystem, which analyzes the impact climate change holds for humanity. Investing in green projects and social innovation projects that can promote the social change humanity needs. Mainly in technology companies that add value to projects that he is working with.



ANDREU RODRIGUEZ I DONAIRE

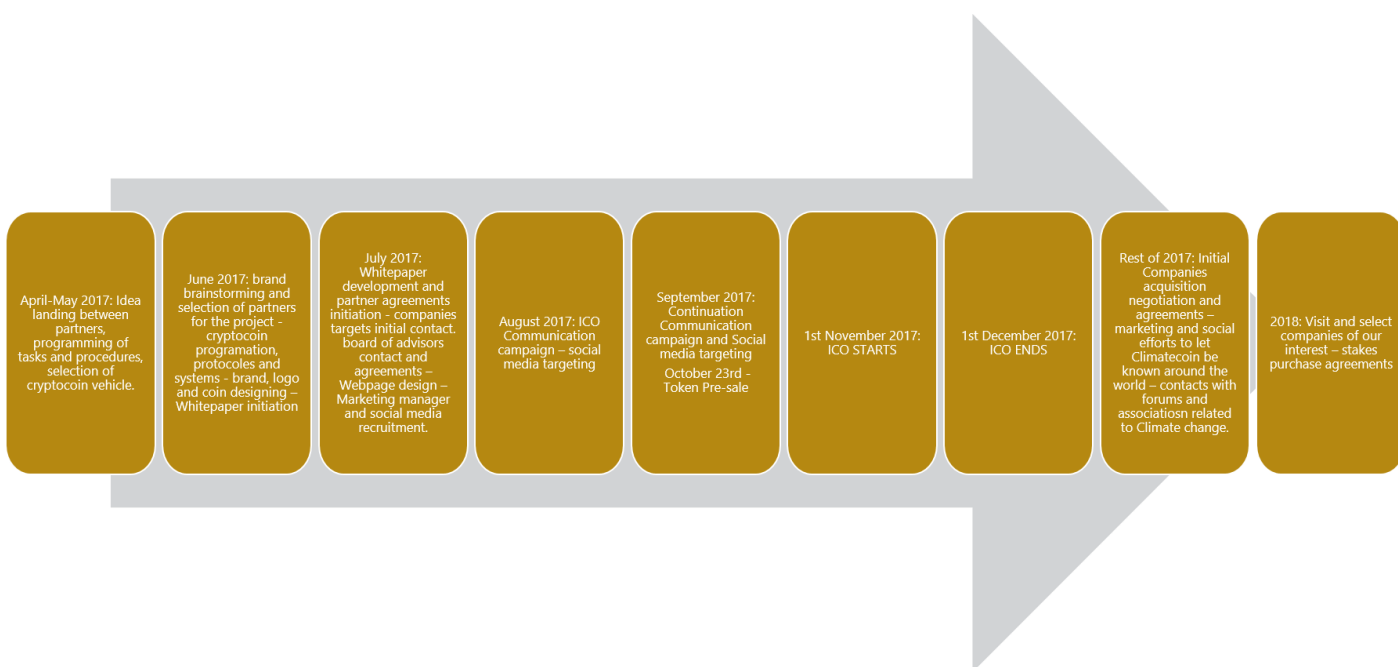
Blockchain | Innovation | Entrepreneurship
Nakima, S.L. - Universitat Politècnica de Catalunya

Technology passionate from Barcelona. My actual focus is the Blockchain technology, the next internet revolution.

A part from being the Blockchain Lead of Atraura, he is also the President of Barcelona Mobile Apps, one of the most important mobile app entrepreneurs association of Barcelona (www.bma.cat).

His current goal is to learn everything he can, to be able to build a beautiful future for everyone and the prosperous world where to desire to live in.

3.4.- DEVELOPMENT TIMELINE



FUTURE: Working every day to create a global brand, to identify companies and to invest in projects that fight climate change. We will become a symbol for this cause!!

4.- TECHNICAL ANALYSIS

4.1.- TECHNOLOGY USED

1. Token Contract as a basis for Climatecoin CO2 Token

CLIMATECOIN CO2 is a token issued within an eToken1 contract. There will be 500,000,000 CO2 tokens created in total. 51% of the total tokens created will be sold in the ICO (255,000,000 CO2 tokens). No further CO2 will be generated after this phase of the project.

CO2 Token is an Ethereum smart contract, written using Solidity2 programming language by the project's programmer³. It enables issuance of tokens in Ethereum network and provides a rich set of features:

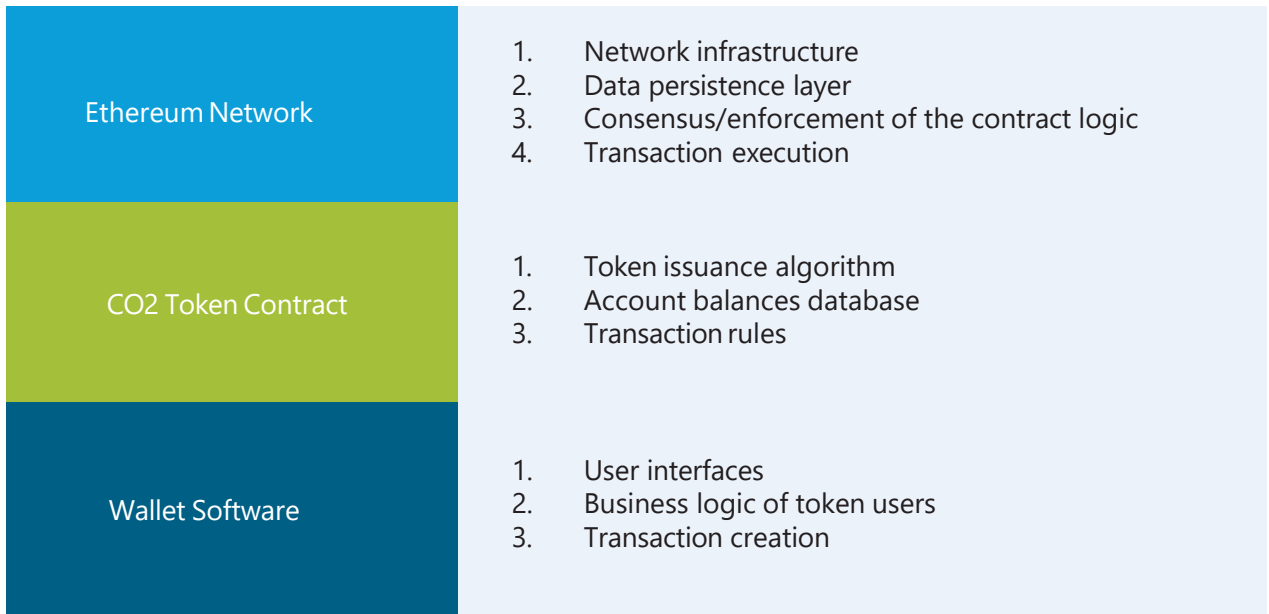
1. Implementation of ICAP4 for multi-layer transaction routing
2. Account recovery in the event of a lost key
3. Allowances
4. Automatic Ethereum network fee refunds
5. Integrated exchange with Ether currency
6. Ability to set transaction fees

eToken also implements EIP205, also known as Standardized Contract API. EIP20 compatibility ensures that integration with exchanges and other services will be not be any more difficult than for any other Ethereum-based token.

System Architecture Overview

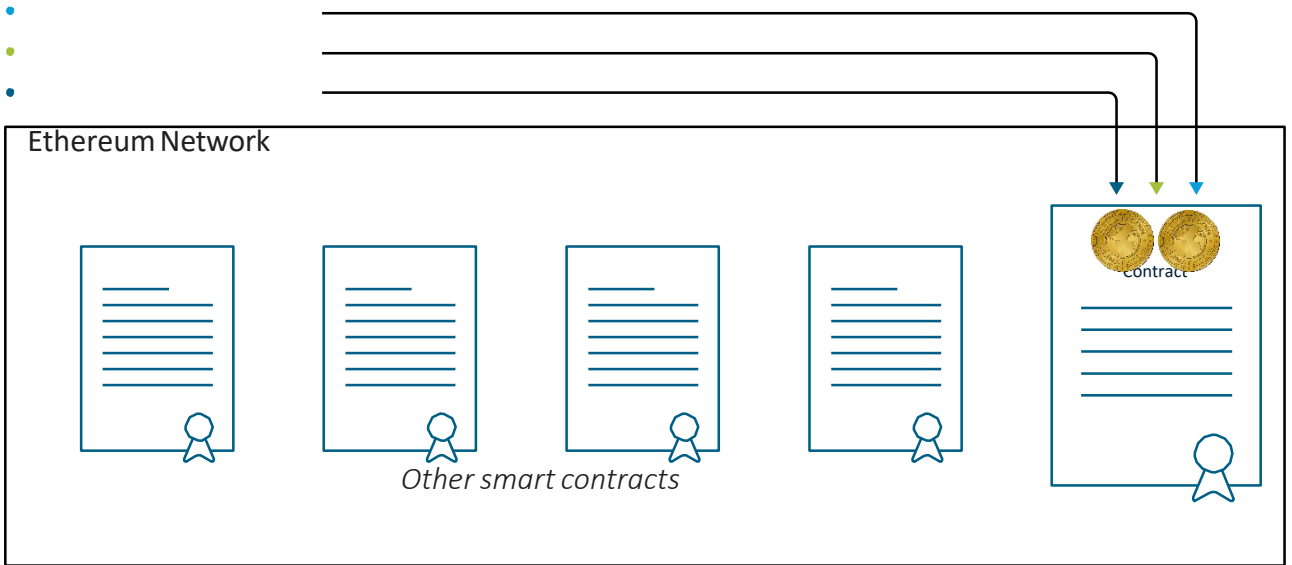
Concerns Breakdown

Climatecoin Project consists of 3 layers of software responsible for different concerns, as shown below:



Network-level Interaction Diagram

The Ethereum network provides a medium for interaction between companies and Parties interact by sending transactions to the Climatecoin contract. All transactions are valid by contract business logic and recorded into the blockchain. The Contract API is open to all users, and essentially anyone can become a user of the CO2 token.



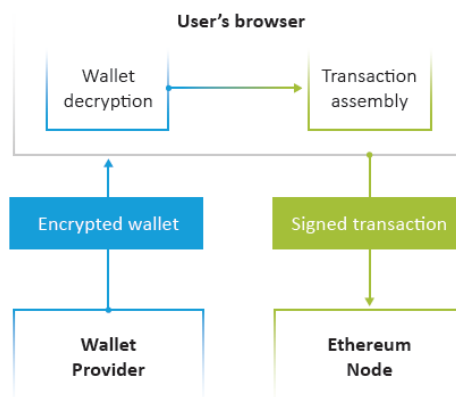
System Architecture Overview

System-level Interaction Diagram

The eToken protocol supports 2 primary account security models: user-side keys and hosted wallet.

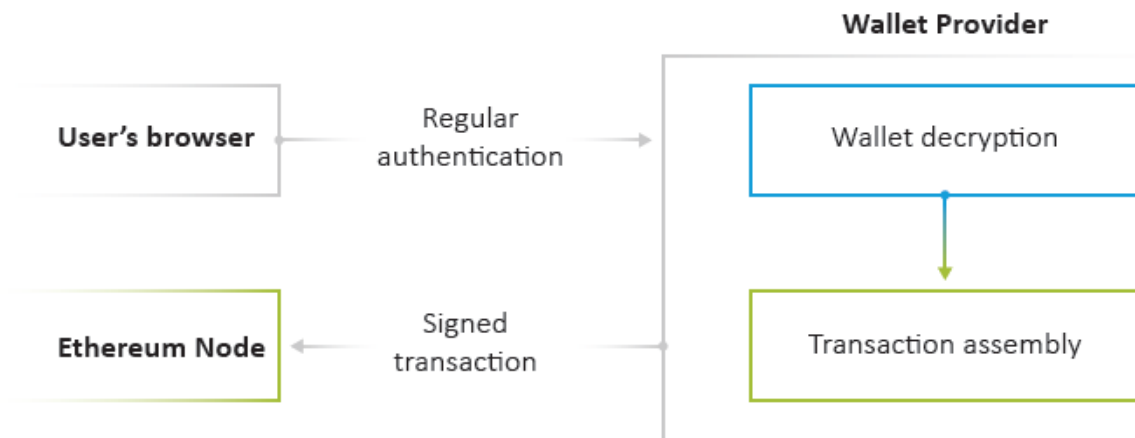
User-side Keys

In this case, private key that unlocks account is known only to end-user.



Hosted Wallet

In this case, the financial institution (exchange or wallet provider) is responsible for key security. Only 1-2 keys per institution are used and transactions are routed to specific user accounts using ICAP6 protocol.



5.- TOKEN SALE

5.1.- DETAILS

Climatecoin Organization is issuing CO2 tokens through the smart contract system operated by Ethereum (ref to Annex 1).

The Climatecoin Foundation is a publicly registered body in Switzerland with legal responsibilities and is subject to audits. This will ensure the transparency of operations and the secure custody of the funds.

The Foundation will hire a highly reputable audit company in order to take care of all audit issues.

We are corporate members of the Crypto Association in Zug Switzerland, much like many of the other great blockchain companies and successful cryptocurrencies.

Token name: CLIMATECOIN CO2 Token - Climatecoin Profit-Share Smart Contract

The tokens will be assigned pro-rata to the funds provided to *Climatecoin FOUNDATION in the Initial Coin Offering (ICO)*

The launch of the CLIMATECOIN CO2 Token is organized around smart contracts running on Ethereum.

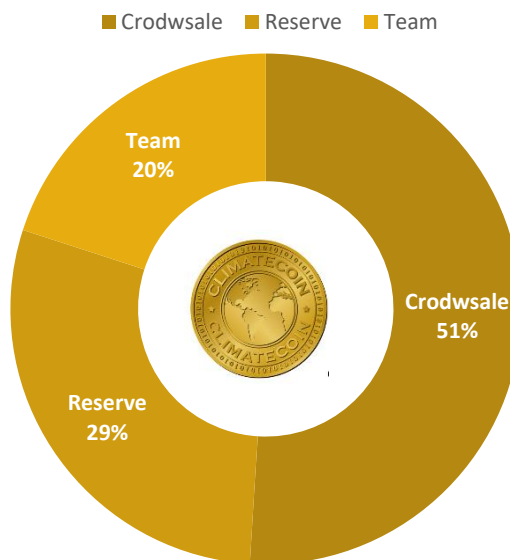
Summary:

- Participants willing to contribute to and support the development of CLIMATECOIN can do so by sending Ether to the designated address.
- By doing so, contributors create CLIMATECOIN CO2 Tokens at the rate of 210 CLIMATECOIN CO2 tokens per ETH.
- It will begin on October 1st
- The contribution period will run for 30 days (until November 1st, or within 36 hours of the soft cap being achieved).
- There will be a pre-sale on the 23rd of September during 7 days for contributors of more than 100 ETH and it is capped at 100.000 ETH.
- All unsold tokens will be burned.
- Climatecoin Foundation controls the contract and the address to which gathered Ether will be sent (implemented as a multisig address).
- CLIMATECOIN CO2 Tokens received by contributors will be transferable at 7 days after the end of the contribution period. (7 days Cliff)
- Security audits: To ensure beyond any doubt that funds will be secure, we are working with some of the most respected Ethereum security advisors. The results of the audits will be made public.

Token Sale Discount Bonus for early participants:

AVAILABLE TOKEN BONUS	ETH COMMITTED
25%	150,000 ETH
20%	150,000 ETH – 250,000 ETH
15%	250,000 ETH – 350,000 ETH
5%	350,000 ETH – 450,000 ETH
0 %	+500,000 ETH

5.2.-CLIMATECOIN CO2 Token distribution



80% of all tokens will be distributed to the public in the medium-long term. This will ensure the long-term growth of the Climatecoin Organization and of the CLIMATECOIN CO2 Token.

51% of all tokens will be distributed during the initial CLIMATECOIN CO2 Token sale.

29% of all tokens will be retained for future reserve: They will be held in a multi-signature wallet with the intention of being slowly distributed periodically at a later date for faster growth if needed. The Reserve will not be accessed for a minimum of 4 quarters (12 months) and will be re-locked or burned if deemed unnecessary for the growth of the business. We may need to use it for investments to reach certain milestones.

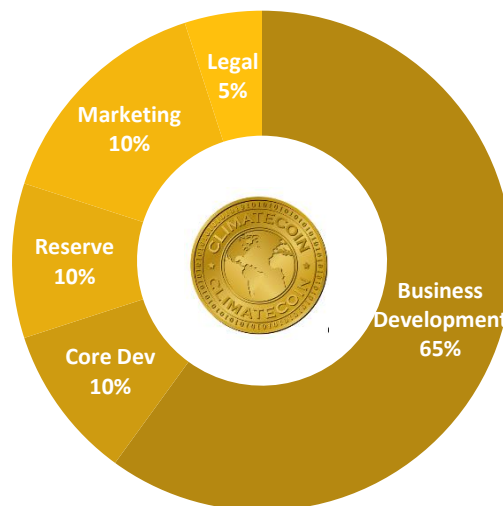
20% of CO2 Tokens created during the contribution period will be allocated to Climatecoin founders, the team, advisors and strategic partners over a 24-month vesting period. It will have a 6-month buffer period so that these tokens will not be immediately tradable.

Our Dynamic Size

The Blockchain and Environmental Venture capital current markets are in a very complex situation. Many organizations investing funds to enter the market in order to profit from it. Our job must be to find the best deals and the best companies that will allow us to succeed in our commitment to changing the world. This can be capital intensive and will consist of very hard work in the beginning.

We are aiming at an ambitious strategy to position CLIMATECOIN as a central authority of the fight against climate change. We will aim to be the central asset manager for the best and most innovative companies in the environmental market. Funds above our Core Operating Budget (80-90% of raised funds) will be used in investments to ensure our success and create a "floor" effect on the CO2 Token price.

DISTRIBUTION OF FUNDS AFTER CO2 TOKEN SALE



- 65% Business Development & Stake Purchases: The development of companies and/or stakes in acquisitions will be the primary focus.
- 10% Core Dev Team: The expansion of the Climatecoin development team will allow us to implement additional functions to the software. Venture capital experts, business managers, blockchain experts and other industry specialists will be hired.
- 10% Marketing: Online marketing in order to generate awareness in the blockchain and climate change market about CLIMATECOIN existence in order to become a symbol for the cause and attract attention for our currency and in the companies we approach.
- 15% Reserve: For future unforeseen costs.
- 5% Legal & Compliance: Most of which will be allocated for acquisition deals and the creation of the worldwide network of companies that will be acquired. A small portion will go into administration and accounting.

Core Operating Budget Projection: ETH 31.699,39 ETH Calculated at 210 USD=1 ETH ex.rate.

CORE OPERATING BUDGET	2018	2019	2020	2021
STAFFING				
Full-Time Employees				
PRESIDENT	850.00 ETH	863.00 ETH	876.26 ETH	889.78 ETH
CEO	850.00 ETH	863.00 ETH	876.26 ETH	889.78 ETH
Venture Capital Expert	500.00 ETH	510.00 ETH	520.20 ETH	530.60 ETH
Marketing & Social Media Manager	300.00 ETH	306.00 ETH	312.12 ETH	318.36 ETH
Business Manager	300.00 ETH	306.00 ETH	312.12 ETH	318.36 ETH
Programmer	300.00 ETH	306.00 ETH	312.12 ETH	318.36 ETH
Total Full-Time	3,100.00 ETH	3,154.00 ETH	3,209.08 ETH	3,265.24 ETH
Contractors				
Blockchain Engineer	300.00 ETH	306.00 ETH	312.12 ETH	318.36 ETH
Website & Internet Services	300.00 ETH	306.00 ETH	312.12 ETH	318.36 ETH
App Developer & Maintenance	300.00 ETH	306.00 ETH	312.12 ETH	318.36 ETH
Total Contractors	900.00 ETH	918.00 ETH	936.36 ETH	955.08 ETH
Total Payroll	4,000.00 ETH	4,072.00 ETH	4,145.44 ETH	4,220.32 ETH
OTHER OPERATING EXPENSES				
Rent	200.00 ETH	206.00 ETH	212.12 ETH	218.36 ETH
Accounting	50.00 ETH	51.00 ETH	52.02 ETH	53.06 ETH
Bank Service Charges	5.00 ETH	5.10 ETH	5.20 ETH	5.31 ETH
Marketing & PR Firm	1,500.00 ETH	1,530.00 ETH	1,560.60 ETH	1,591.81 ETH
IT Expenses	50.00 ETH	51.00 ETH	52.02 ETH	53.06 ETH
Travel	150.00 ETH	153.00 ETH	156.06 ETH	159.06 ETH
Other Consulting	150.00 ETH	153.00 ETH	156.06 ETH	159.18 ETH
Legal	600.00 ETH	610.00 ETH	618.00 ETH	630.00 ETH
Reserve	1,000.00 ETH	1,020.00 ETH	1,040.40 ETH	1,061.21 ETH
Total Other Operating Expenses	3,705.00 ETH	3,779.10 ETH	3,852.48 ETH	3,925.05 ETH
Total Operating Expenses	7,705.00 ETH	7,851.10 ETH	7,997.92 ETH	8,145.37 ETH

All funds raised above the core-operating budget will be used to consolidate and boost the CLIMATECOIN CO2 Token value and by purchasing stakes in companies and/or projects. Funds may also be used for marketing efforts to increase the worldwide presence of CLIMATECOIN. All this will create a "floor" effect on CLIMATECOIN CO2's price.

5.3.- HOW TO PARTICIPATE

Go to: <http://climatecoin.io>

Click the button that says "CONTRIBUTE."

Follow the instructions prompted by the site to select that you will be buying tokens with Ethereum. If you don't already have a wallet, you may need to create one.

Only Ethereum can be used to purchase CLIMATECOIN CO2 Tokens.

The creation of a new wallet is simple and you can follow the easy steps from our website climatecoin.io after clicking the CONTRIBUTE button. You may be able to claim your tokens once the crowd sale is over.

LONG-TERM VISION

About eight years ago, an anonymous cryptographic enthusiast known under the pseudonym Satoshi Nakamoto introduced Bitcoin as the digital-analog to gold. Just like gold, it is limited in supply but it is also secured by modern cryptography to make it viable for the internet age.

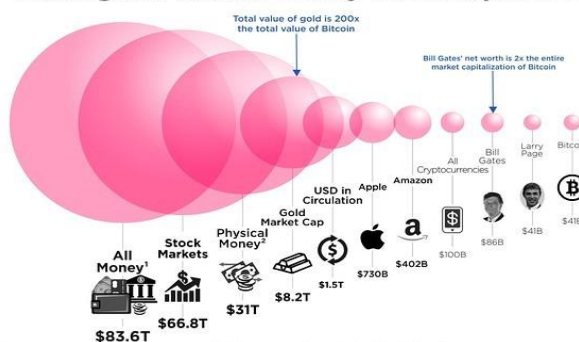
Since then, many have tried to improve on Satoshi's original vision and thousands of alternative cryptocurrencies have been born.

The value of all the cryptocurrencies in existence, including Bitcoin and Ether, amounts to \$50-\$100 billion. This just slightly ahead of Bill Gate's net worth. From a worldwide perspective, the market for cryptocurrencies still remains very niche. The high volatility and the difficulty of purchase make most cryptocurrencies hard to become mainstream.

There are many assets in the world that people choose as a store of value, transactional medium, or an investment. Currencies based on Blockchain technology is simply better at transacting, storing, and accounting assets. Most estimates measure global wealth around 250 trillion dollars with the majority of that being held by banks other traditional financial institutions.

The slow migration of the world's assets into Cryptocurrency represents a tremendous opportunity, and this migration may make the world a better place.

Putting the World's Money into Perspective



CLIMATECOIN technology will give the ability for anyone to participate in the fight for saving our Planet. As soon as this symbol gets known worldwide, it will become an exponential way to store and to create value for all citizens of the world.

CLIMATECOIN provides tangible assets to assure this currency's appreciation while also saving the planet from Climate Change.

Acknowledgements

We would like to thank everyone who participated in this Whitepaper, assisting and supporting us for the past months. We also want to thank Satoshi Nakamoto, the Ethereum Foundation, the entire Blockchain community, Mist, Metamask, Parity and MEW for paving the way for the past 8 years. *The best is yet to come.*