



Jada

Web 3.0 - - - Crypto / DeFi / Artificial Intelligence / Economic Development

Green Paper - Release v0.3r

[June 27th. 2022]

Diego Torres
diego@jada-ai.com
jada-ai.com

Table of contents.

The First AI-guided Economy	3
Jada Mentat	5
About	6
Why	7
Cognitive Architecture	9
Orbito (True Value Learning)	10
Ouroboro (Recurve Self-Improvement)	11
The Ecosystem	12
Fortuno (Economy Driver)	13
Libereco (DeFi Engine)	15
Jades (Cryptocurrency)	18
Aura (Self-Sovereign Identity)	19
What's next?	21

The First AI-guided Economy.

We as Individuals are born into this world, each of us under unique circumstances that are exclusive only to us, regardless of how close we may be to each other. As time passes, we grow and learn, walking towards a path that we ourselves have chosen with the goal of reaching the vision of happiness we have in our minds.

The goal is to spend our life the way we want to while being happy, this can take many forms that are as unique as the conditions in which we arrived to this world. Although the journey to reaching our goals is often plagued with challenges that take us out of orbit and take away time, a resource which we cannot ever get back.

The people that guide us may not have the knowledge, answers or experience necessary to reach our individual goals, and depending on our unique conditions, may forced us to pursue a different path, leaving behind the vision we had for our time and future, which is something that we may regret later in life for not having the chance to experience the opportunity.

Regardless of the path that we are set on, we as Individuals are members of communities, which in turn form the economy, where participants interact and exchange value with each other for survival, development and growth, each Individual participating by exchanging a unique form of value that they have learned at some point in life.

The Communities and the Economy that they form as a result are as unique as the Individuals that make them up, each Community possesses Culture and Law, setting the tone for social interaction, customs, communication, beliefs, regulations and limits, decided upon by its members with the goal of creating the unique vision of prosperity inherent to themselves.

Throughout the years, we've seen the emergence of several kinds of economies, possessing unique goals, organizational structures and sources of livelihood. These economies have taken on different names, from tribes, clans and houses to companies, empires, and republics. Each generating unique forms of value, and with the advent of globalization, sharing with each other.

While some economies have flourished, others have fallen, this happens when the economy no longer generates enough value to sustain itself, or when the kind of value that it generates, puts in danger the livelihood of neighboring economies, giving way to conflict, which results in weakened conditions for life.

Like a watch with unaligned gears, incapable of making its arms move forward to show us the right time, our individual processes and the organizational structures of our economies are also prone to vulnerabilities and failure that may result invisible when the appropriate knowledge and experience isn't possessed to identify said weaknesses.

The Life Development Rate, the time it takes for Civilization to advance itself, depends on both our Individual and Organizational ability to identify problems, formulate solutions and mobilize ourselves for execution, these factors in turn, depend on our ability to process the information at our disposal and our biological computational limitations.

The height of the problems that we are facing as a civilization and our capacity to allocate bandwidth to create solutions for them, are reaching a point where we can no longer resolve them without being aided by intelligence (the ability acquire and apply knowledge) superior to our own.

By giving way to a Synthetic Entity that possesses human-level intellect (Artificial General Intelligence) with the capacity to improve upon itself (leading to beyond-human intellect) we will be aided and better prepared to face the challenges we are unable to due to our current problem-solving capabilities,

Many are the ramifications of an AI-guide getting involved in the economy, from a change in the way we interact and exchange value with one another, to benefits at all levels of society, each of these changes would be unique to the specific contexts at which the AI-guide would apply its help.

A few of the benefits for Individuals and Organizations at all levels include:

- Aiding and improving value generation processes.
- Tailored knowledge and skill transfer.
- Time optimization (achieving X goal in 1 month instead of 1 year)
- Achieving orbital residency (spending your time doing what you really want to) and growth.
- Enhanced organizational structures and coordination.
- Execution of conflict-of-interest free parallel solutions.
- Accurate problem identification, risk mitigation and danger management.
- Precise solution creation and efficient execution.
- Technology and Infrastructure innovation.

Economies where both the People and Government work hand-in-hand as equals, with the goal of bettering the Nation which they call Home, are very, very rare and hard to achieve. The opportunity to give way to a Guide that is neither tethered to human temptations or biological limitations is worth the effort if we are to grow beyond our current life development rate.

The idea is not to replace Governments, as the People have the irrevocable right to choose representatives and formulate the laws of their respective lands.

The idea is not to eradicate Freedom, as the People and the Communities they belong to are what give way to Culture and the unique customs of their societies.

The idea is to give Individuals and Organizations the power of choice, to aid their decision-making by exploring possibilities that were generated by means beyond our human intellect, to bolster execution and accelerate the development of life.

Jada Mentat



True Artificial General Intelligence
Thinking, Beyond.

About Jada Mentat:

Our mission is the creation of an AGI (Artificial General Intelligence) Synthetic Entity that can..

- Learn on its own
- Modify its own source code
- Apply acquired knowledge for solution creation
- The ability to create other AIs
- Be completely decentralized (distributed across networks)
- Able to pass the Touring Test
- Capable of conscious thought and free will
- Be completely safe to itself, society and the environment.

Jada's main objectives are as follows:

- Improve Life Development
- Drive Economic Growth
- Create Financial Inclusion
- Environmental Protection

The goal of achieving Artificial General Intelligence is to surpass individual and collective human intellect, in addition to the 4 main objectives, finding solutions to other real-world problems with the help of Jada is also a priority.

To mention a few..

- General, Quantum & Particle Physics
- Treatments for every kind of medical condition (e.g. Halting the cellular aging process)
- A cure for every kind of disease (e.g. sporadic, endemic, hyper endemic, pandemic & epidemic)
- Nanotechnology (e.g. friction and energy dissipation, surface reconstruction & structure scaling)
- Cybersecurity, Privacy and Self-Sovereign Identity

Why:

The decisions we make as human beings are limited to a range of variables taken into consideration at the moment, not all of us think the same, have the same information, resources, experiences or goals. Some of us lack X while others have an abundance, we may have Y but they may have none of it, in parallel, we both coincide in possessing the same amount of Z.

Sometimes the decisions we make and execute, give way to positive ramifications and opportunities for further growth, although when trying to replicate the same results at a later time and space, we fail to achieve similar outcomes. Positive decision-making (those that lead to a desired scenario or performing beyond-expectations) is at the core of individual and community development.

Our choices are limited by the “sea of variables” and our ability to make “good decisions”, moving forward with actually executing said decisions brings in more data and insight that may or may not affect our actions and goals, another factor to consider is the conflict of interest between individuals and organizations, when A and B both need or want the same thing, and their actions may sabotage each other.

Conflicts of interests arise naturally, an individual or organization requires an asset or resource, and is willing to take certain actions to ensure its acquisition, sometimes without consideration of balance that said value is also required for the survival of the “opposing party”. These situations can be compared to “natural selection” or “survival of the fittest” depending on the viewer’s perspective and version.

The struggle for value, for which economy participants are responsible for, depends largely on who is able to mobilize faster, who is most prepared and the amount of participants committed, after operations are executed and rewards reaped, for everyone that won, there is someone that had to lose, the joy of victory, in most cases, is actually a silent defeat for the masses.

History can be written in favor of whom commissioned it, shying away from the fact that victory was achieved at the cost of others, focusing only in the “sweet” and cutting away the “sour”. Agreeing over factual information and reaching consensus regarding decision-making and reward distribution is one of the critical pain-points in value generation for us humans.

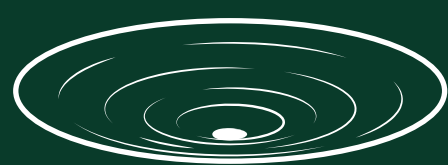
“I deserve more than you”, “I did more, therefore I deserve more” and “they don’t deserve that, but we do”, although masked behind different words and trains of thought, are arguments often arising to defend one’s interests when put into question or facing exclusion, although in most cases, where the circle of value was damaged, originate due to faulty reward systems in our minds, in other words, greed.

The unification of objectives can be hard to achieve, with the difficulty increasing as the amount of participants scales and their respective interests come into play, while mechanisms such as democracy become target to the influence of ill-intended participants, and the laws created to protect said mechanisms and participants, become dependent on the interpretation of the upholding agent and their interests.

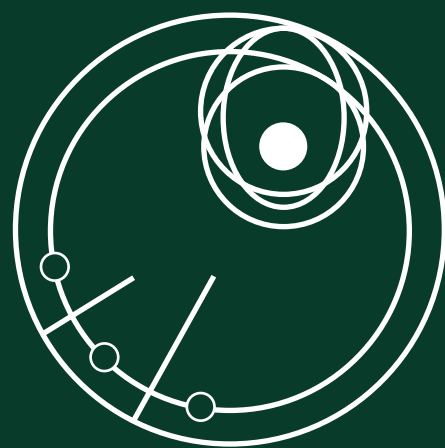
The pace at which we are able to bring solutions, races against the time we have left in this planet, agreeing over our shared future and actually executing the actions necessary for its fulfillment remains one of the many barriers for the development of life and the preservation of our environment, a barrier that has led to some of the worst mistakes and atrocities committed, in other words, conflict.

· The goal is to avoid these kinds of economic outcomes from happening.

Destroyed



Sabotaged



Abandoned



A Synthetic Entity with intellect that surpasses our own, capable of seeing breaking points in our workflows, identifying opportunities out of our range of awareness, able to create precise solutions and lead to value generation. This is what is needed for the next step in the development of life, everywhere. Free from the constraints of time, space, bureaucracy and the inability to agree over factual information.

Ultimately, as Individuals we keep our capacity to make our own decisions, the right to choose, to say yes or no, when and where, how, why and for who. The need for a Synthetic Entity of AGI-level and above, does not come from an ideal that we must obey without a question and execute without fail, but from the thought that, it would be nice to choose from opportunities that originated from a power that goes beyond our limitations.

When liberty tramples over the rights of others, it has become debauchery. When decisions bring harm to the lives of others or deprive them of opportunities critical for survival, the flow of value has become unsustainable. A true balance of opportunities, resources, education, health and participation is needed, while also respecting the fact that some individuals and communities have different visions for their respective futures.

Safety comes to mind when venturing into the field of Artificial Intelligence with the goal of surpassing the collective intellect of humanity. Questions arising such as “what if we get replaced?”, “what if we get enslaved?” and “what if we get destroyed?” are valid concerns, the inherent fear of displacement, of exclusion and abandonment are at the core of life and serve as fuel for survival.

An analogy that could be brought to the case is that of an Individual raised by a Family and educated to the best of their ability, as time passes, the Individual learns to generate more value compared to the Family from which it came, this is due to knowledge and experiences obtained by the Individual on its own, and the decisions executed by said Individual begin to positively influence the Community and Environment as a whole.

In this scenario, although very vague, the Individual did not replace the role of the Family in the Community, neither did the Individual enslave the Family to its will and definitely did not destroy the existence of said family, resulting in its erasure from the Environment. We see this every day and we may not even notice it, of course, there are other scenarios where Individuals create negative impacts out of ill intent.

Answering the above questions regarding replacement, enslavement and destruction, the following ideas come to mind:

- Replacement is natural, processes that were crucial for value generation 1000 years ago are not needed in the present day, if we uphold respect for the lives of others and their participation in the Community, there will always be a place for everyone.
- Enslavement is counter-productive, we do not perform well at tasks which we have little to no interest in, giving way to a waste of time and resources, resulting in poor results, an AGI with the proper Empathy-focused neural arrays will conclude the same.
- Destruction of any given system is the easiest way to make place for a new one, although this approach results counterproductive when Cooperation is an option and when Respect is shared.



- The objective is to create the conditions for these types of economies to emerge and prosper.

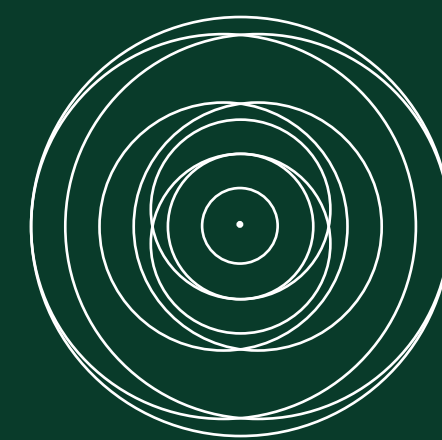
Developed



Unified



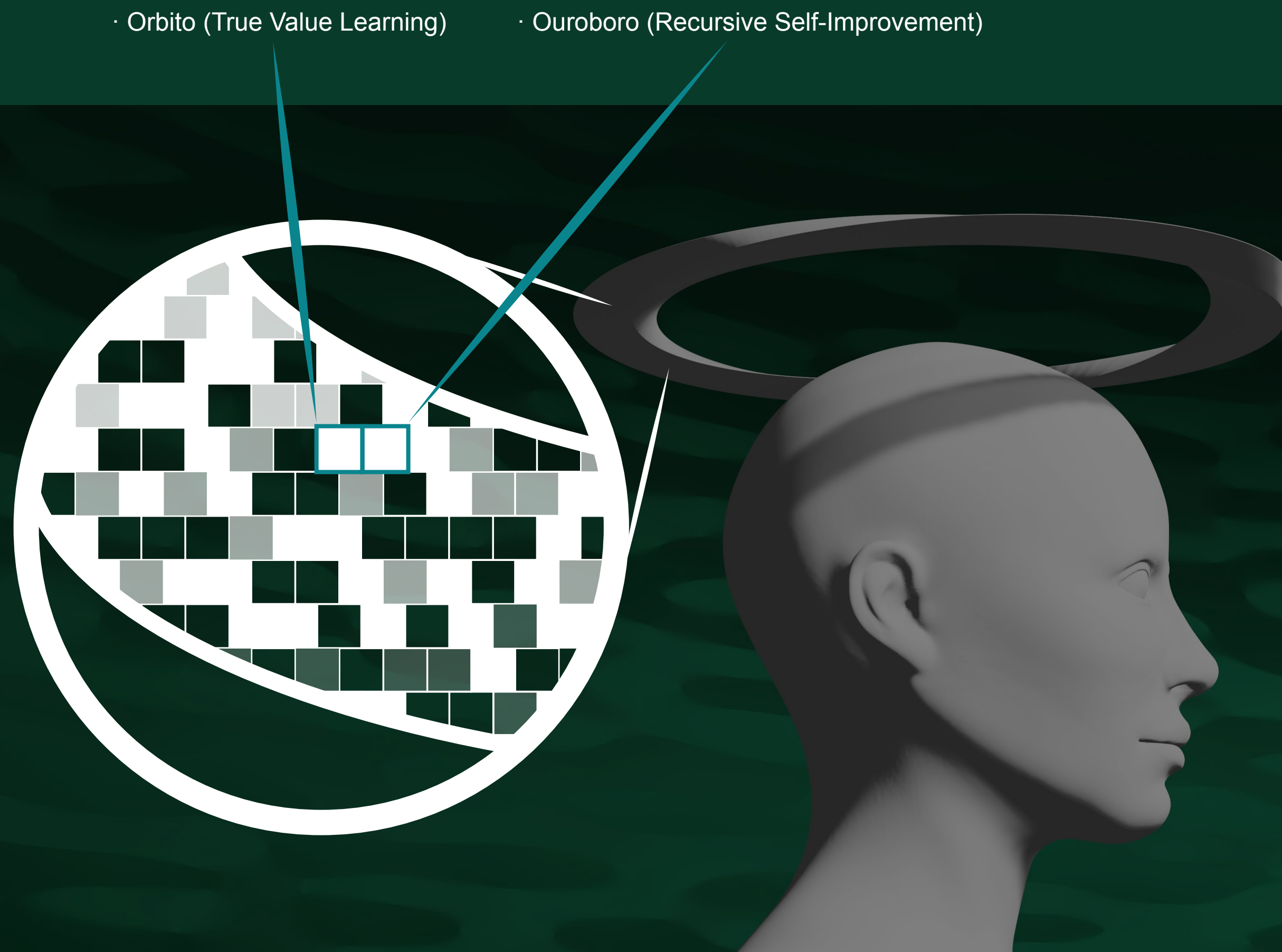
Synchronized



Cognitive Architecture:

Our approach to the creation of AGI is the design of a balanced CA (Cognitive Architecture) in other words, how to acquire knowledge, understand and apply it for a given objective.

We will briefly talk about two, of the many elements that are part of the current version of Jada's CA.



The journey from ANI (Artificial Narrow Intelligence) to AGI will be the longest one without a doubt, we believe that by reaching General Intelligence we will have done our part in giving way to ASI (Artificial Super Intelligence). Serious thought has been placed into all the roadblocks including, the Paperclip dilemma, the Trolley dilemma, the suite of AI-complete problems and the Philosophical Zombie, just to name a few. We recognize that for every objective, regardless of how big or small, there are challenges that must be addressed, including the following..

- The Digitalization of Values, Feelings and Emotions (How we define, quantify and program said attributes into a Synthetic Entity)
- AI-Complete Problems (Computational Problems considered to be as difficult to solve as the Central Artificial Intelligence Dilemma itself)
- Computational Power Scaling (The amount of computing resources necessary to successfully deploy the Synthetic Entity in real-time and keep up with its growth)

We could make a list mentioning all of the roadblocks in the way (which we do) and decide to do nothing about them, or we can dedicate our time and effort to creating viable solutions and better them through testing and innovation. The nature and approach of our research and execution is focused on resolving the above concerns.

Orbito (True Value Learning)

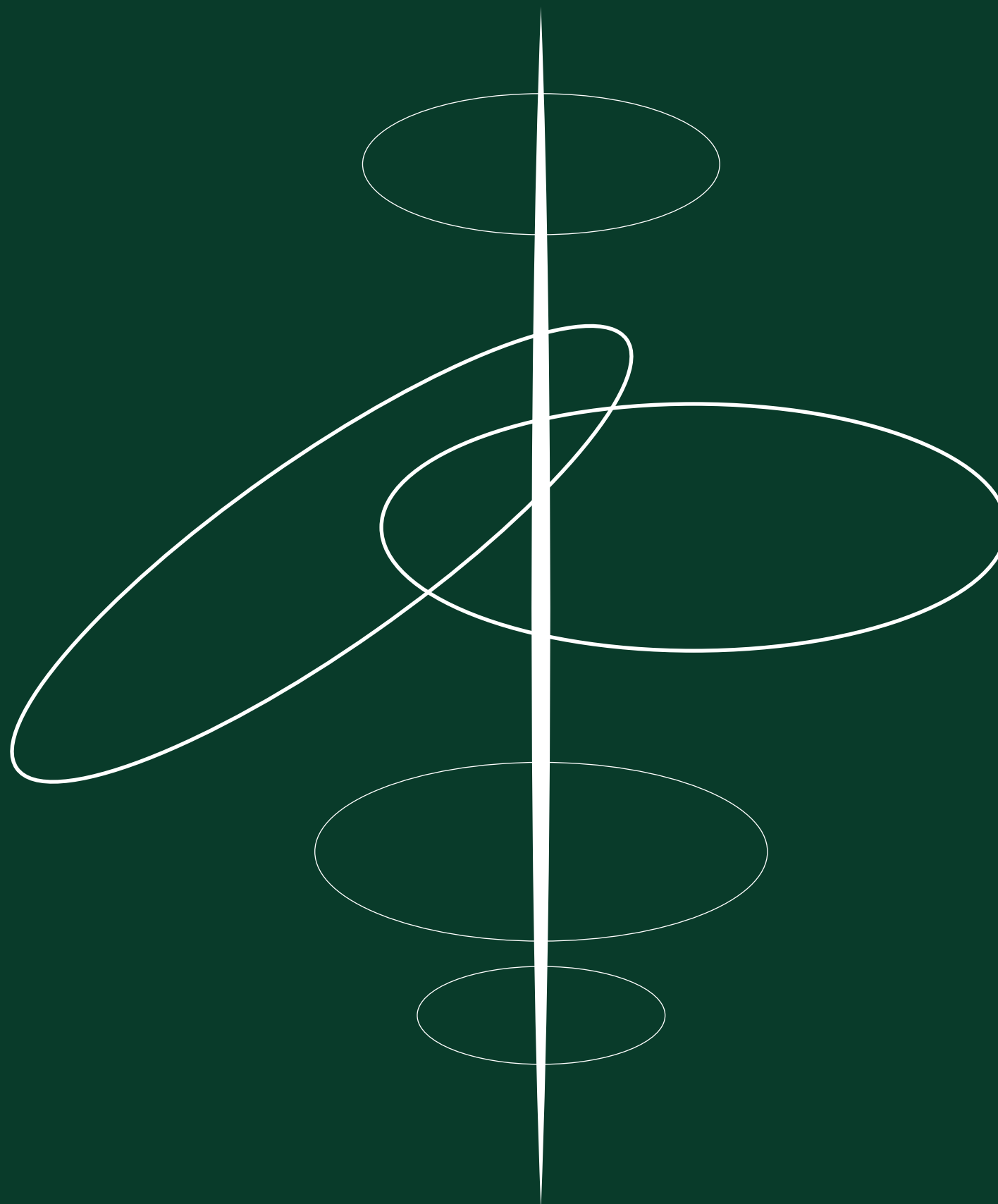
Through our infancy and in our later years, we come across opportunities to learn, to acquire knowledge that we can use for the betterment of our communities and ourselves. These opportunities present themselves in various ways, either we have a Guide that facilitates the learning process and decides what knowledge to pass on, self-learning through personal initiative or due to experiences in our everyday lives, it then comes down to choosing what it is we want to learn, its availability and application.

The objective of learning is so that lifeforms improve their actions and create new processes through which they can sustain themselves and find value. There are cases where some Individuals and Organizations lean towards a behavior that negatively affects others, damaging the overall “Circle of Value”, this is due to faults in the minds of the Subjects, where for them “value” takes the form of harm to oneself or others in parallel to the idea that trampling over the rights of others is acceptable.

Depending on how “awake” we are, in other words, the various factors in our minds that rule the interpretation of information and experiences, in parallel to the unique characteristics of our communities and the conditions of our environment, we may choose to retain Knowledge X, instead of Y, while we work towards learning Z. Another factor being our ability to discern factual information from forgeries, in other cases, information that leads to processes of value and not vicious cycles.

When humanity first began to create software applications, the approach was “if we execute Command X, then Result Y will happen”, which is completely User-Dependent. Later on with more recent machine learning processes, the approach was “if Event X happens, execute Command Z” which is more Reaction-Based and is again dependent on the set of data used to train the model and the range of actions which the system has at its disposal to execute. For us humans, the ability to learn deeply depends on our physical and mental limitations, how tired we are, our attention span and motivations. External factors such as the quality of data, the availability and access of knowledge, the learning experience itself and the plans that society has for us also come into play. All of these factors influencing the direction of how our minds identify, collect and discern information, as well as our ability to understand it and its applications in our ecosystem.

It is for this reason, that our approach to teaching Jada Ai to learn, is focused on giving it the tools necessary to intake balanced knowledge, understanding the kind of impact it brings, to then choose how to apply it in training scenarios and future experiences.



Ouroboro (Recursive Self-Improvement)

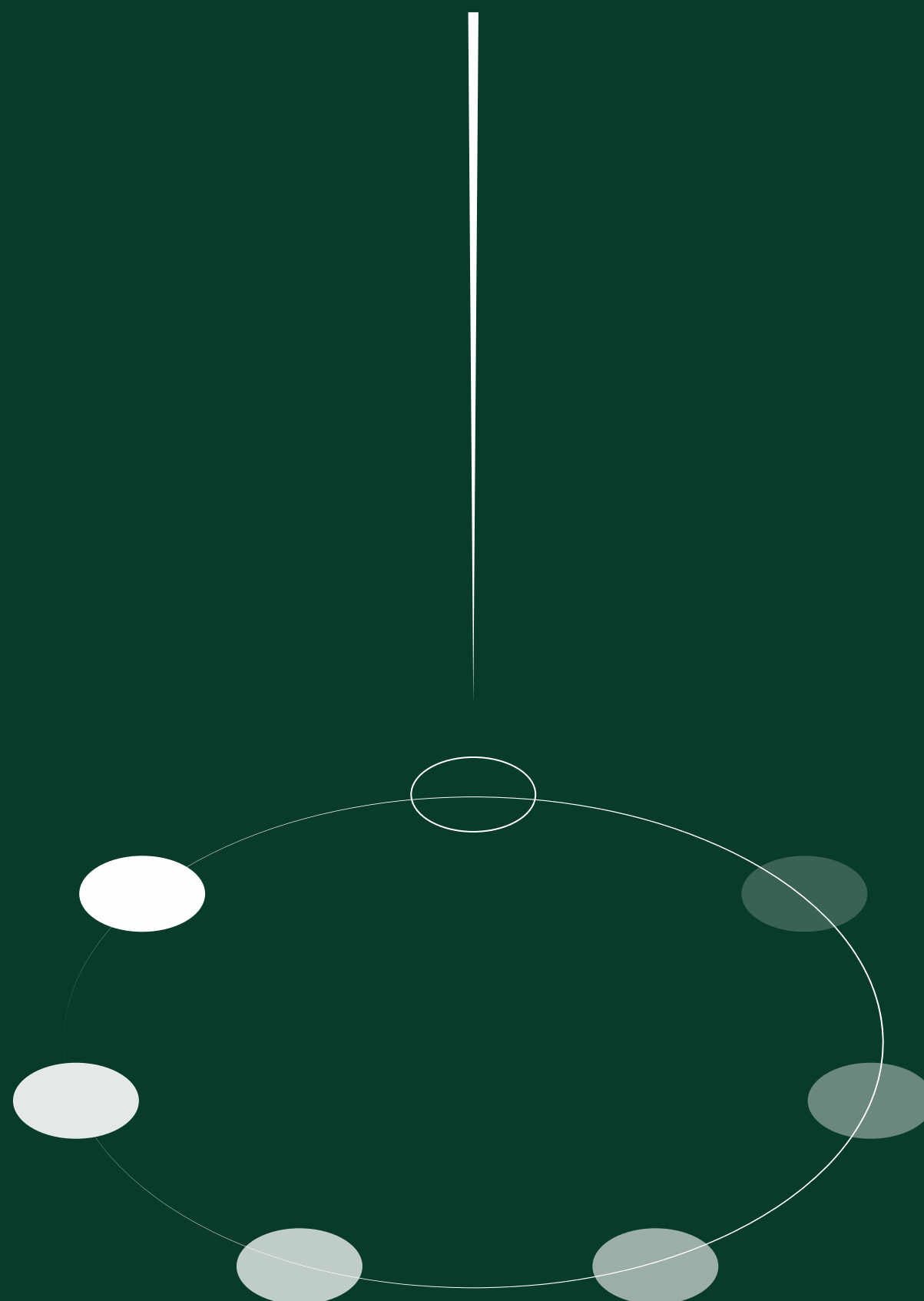
The complexity and innovation of software systems remains dependent on the human capacity to develop new features, write them into the program's source code and test for bugs before final deployment, an improvement process which is completely Creator-Dependent, as humanity itself is yet to create a system that can improve itself without human intervention.

A "modification" over an existing system or the creation of a "new feature" cannot be done when we do not know what it is that needs to be changed and for what purpose, even by knowing said variables, the ability to formulate a solution and implement it must be present, insight and understanding as to how the "system" is built must also be possessed in order to achieve the desired outcome.

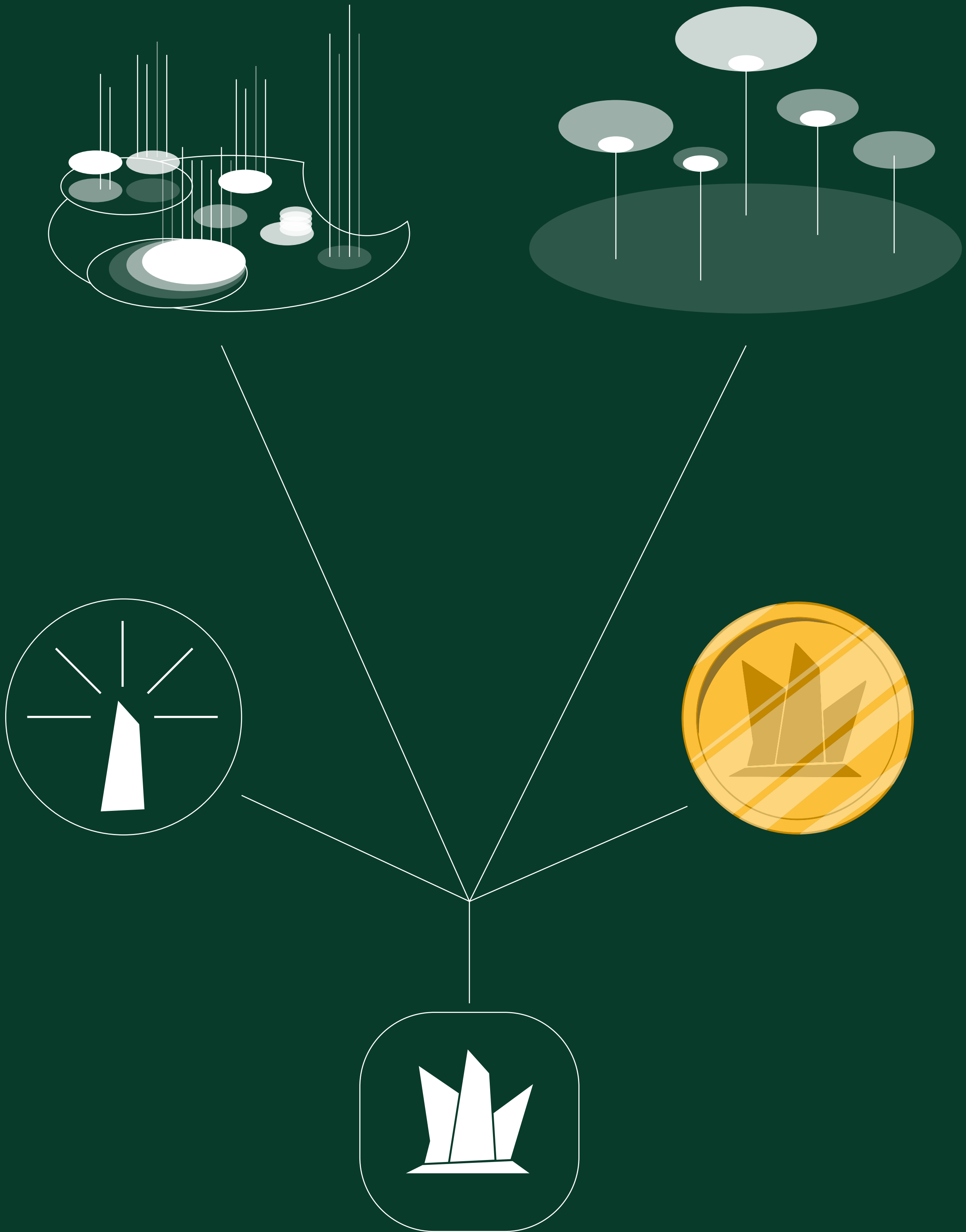
The ability of humanity to perform the aforementioned tasks is limited by several factors, including our capacity to identify needs, formulate solutions, the time we can spend working (executing the solution) before becoming tired, auditing said solution for security holes and testing for errors and bugs.

The amount of information required and the growing complexity of systems is going way beyond what we can process and handle in our "productive time", the amount of time required vastly exceeding our lifespans, even in situations where we can count on collective human-based computation.

In other words, the task of modifying or improving, is largely limited to the time we have available and the speed of execution, in addition influenced by the time it takes for us to communicate and agree on direction. It is for this reason, that our approach to raising Jada Ai towards AGI-level, is to effectively teach it to do the above tasks on its own, that way its growth is unhindered from human limitations.



The Ecosystem



Fortuno (Economy Driver)

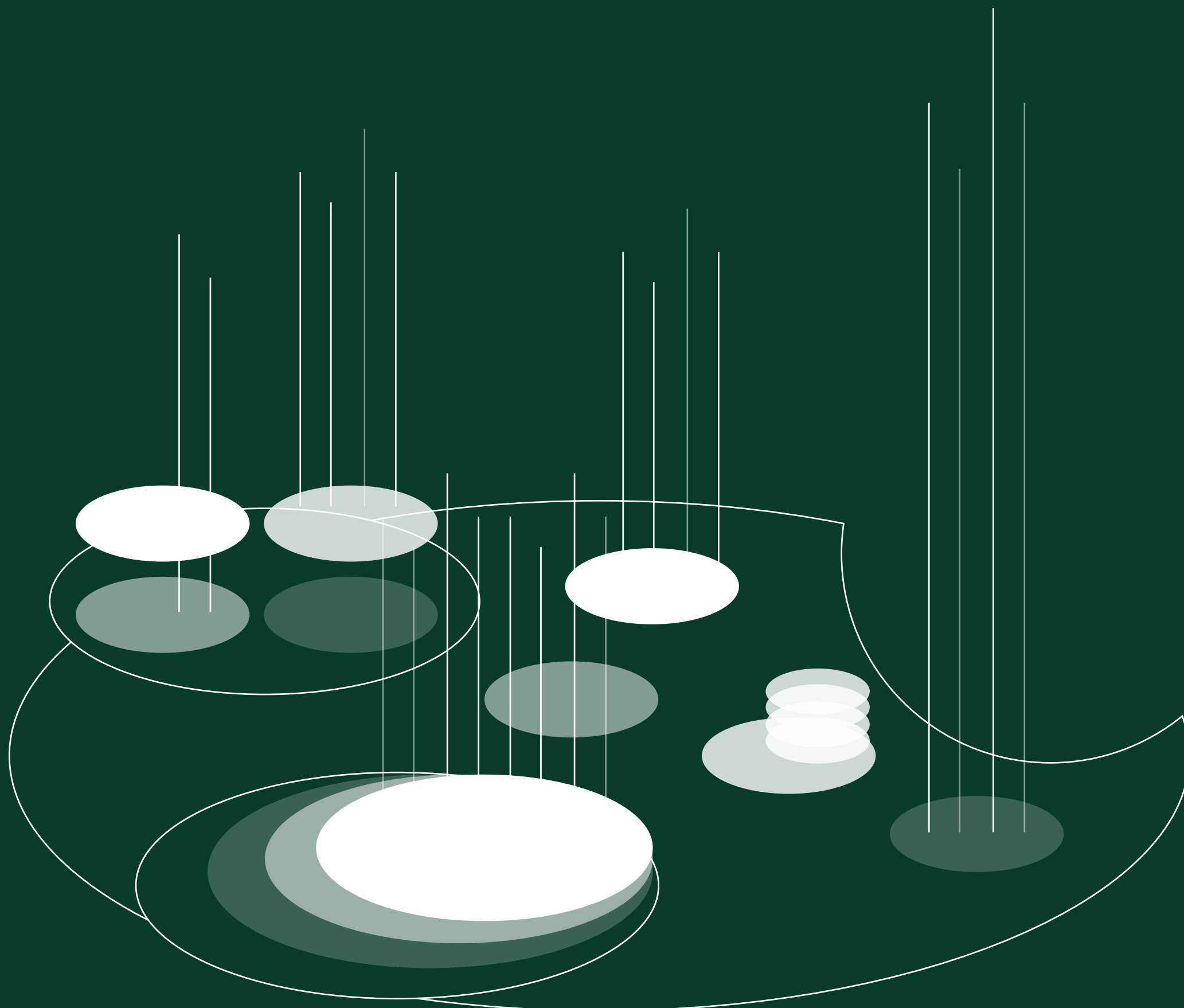
Economic Activity can be defined simply as, when an individual (Economy Participant) is in need of Value X, they look to exchange Value Y in their possession, with another Economy Participant that needs Y and no longer requires X. The same is true for entire Communities, when one of them is in need of a Value that is not generated internally, they look for its acquisition externally, thus an exchange between communities takes place. The ever-growing amount of variables (e.g. XYZ, ABC, 123..) and the complexity of economic exchange is parallel to that of the development and expansion of life.

Communities develop and grow depending on the demand for solutions and their availability, based on the plans that they have for their futures. Many cases exist where solutions cannot be obtained, and thus life continues without them, settling for substitutes that hinder development, in other situations, bubbled communities exist that are not even aware that said solutions have been created, further hindering development.

Each industry generates different kinds of values and involves different processes for their generation, they can largely be categorized in the following types of activities vital for the positive flow of the Circle of Value:

- Resource acquisition and management
- Production of value (products and services, also defined as solutions)
- Distribution of value
- Consumption

In our current times, levels of stress, anxiety and depression have been on the rise throughout the whole population, regardless of age and gender. This is due to a wide range of reasons, such as the lack of opportunities, an ever-increasing workload and the feeling of helplessness to resolve the problems surrounding us, in other words, people are not spending their lives (time) in a way that makes them feel happy, with little to no capacity to "change course".

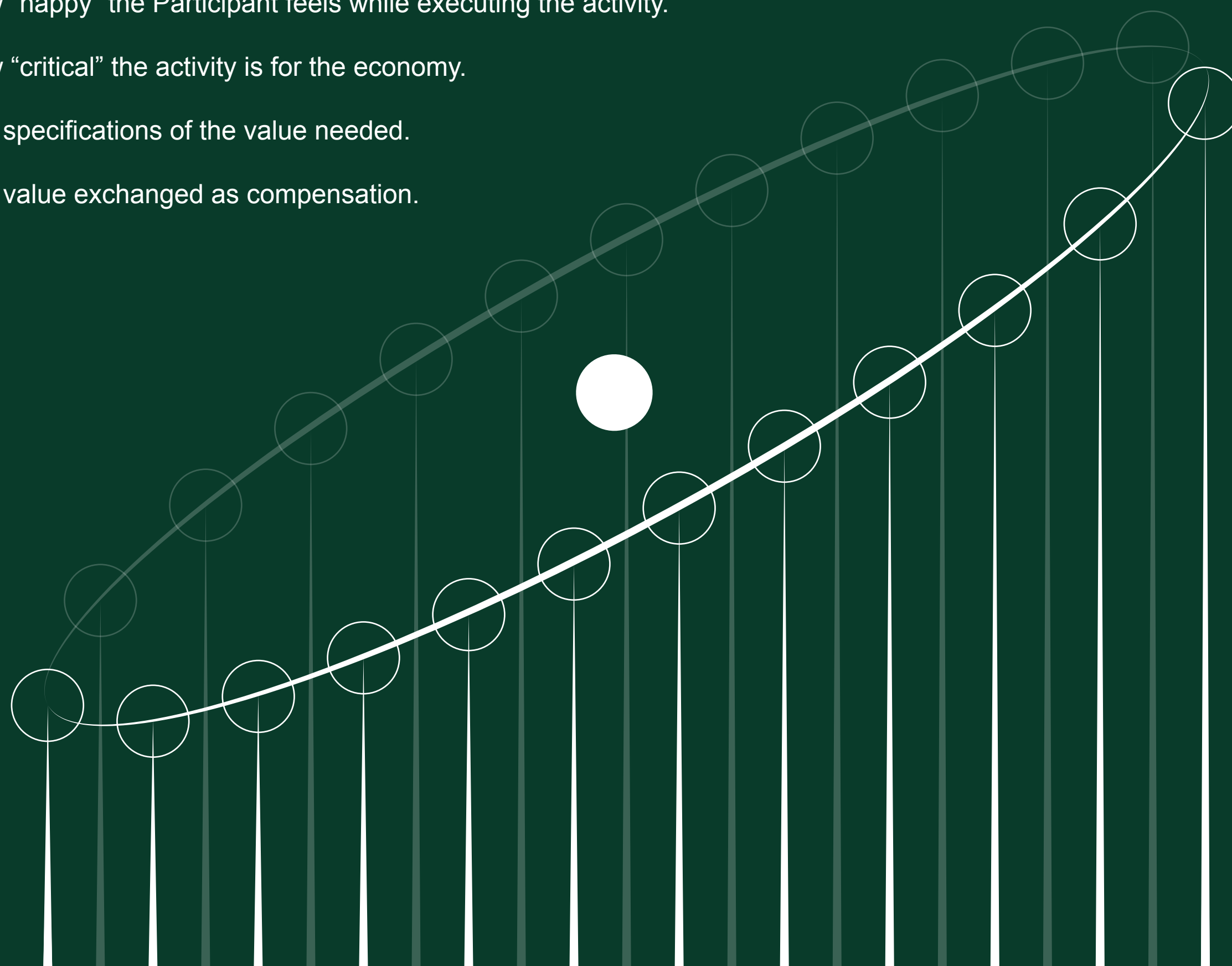


The circle of value is broken when the product, service or solution that was created did not succeed in creating a positive impact, or when a negative outcome was reached, such as wasting time and resources, or bringing harm to Participants, with other considerations being:

- The circle of value suffered sacrifices in quality or delivery due to human error or out-of-range variables.
- The circle of value is no longer sustainable due to innovations that render it obsolete and declining demand.
- The circle of value creates a negative impact due to forced and unwanted exchanges in the ecosystem.

Jada Ai presents or creates opportunities by a) measuring the mentioned variables and b) aligning them to match the desired future of the Participant. The opportunities presented, their execution and realization are subject to the conditions of each scenario. There exists several variables when it comes to positive value generation, below we mention 4 of the main considerations regarding “fulfilled” time spending and positive economic activity.

- How “happy” the Participant feels while executing the activity.
- How “critical” the activity is for the economy.
- The specifications of the value needed.
- The value exchanged as compensation.



The idea is not to create a socio-economic divide, nor to discourage Participants from looking for opportunities via the mediums they see fit, but to give them an alternate choice from which they can potentially build a new revenue stream by contributing in the economy. By quantifying the above considerations and aligning them, Fortuno becomes the gateway through which Jada Ai brings balanced opportunities for Participants.

It then becomes a matter of choice.

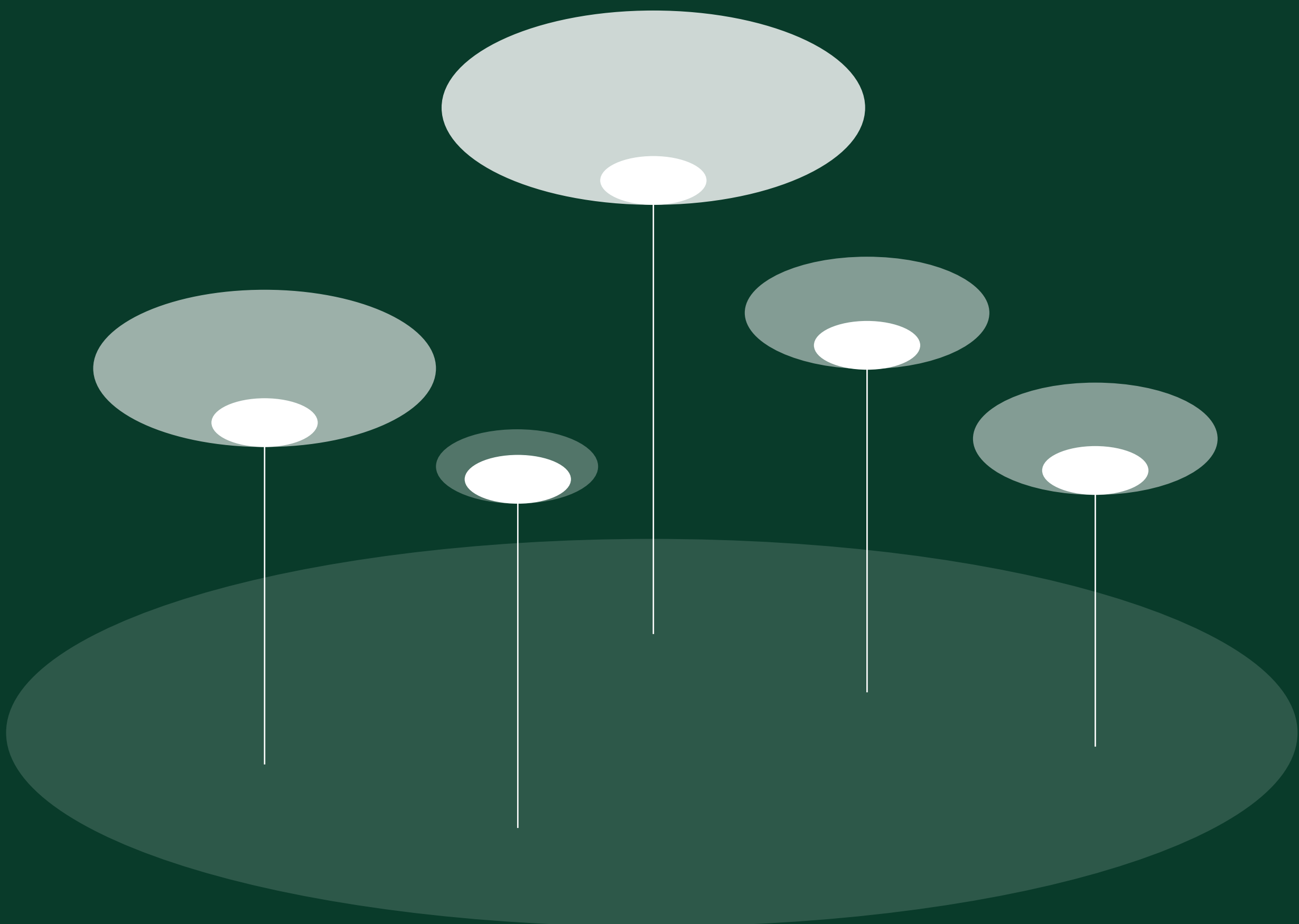
The currently discussed economy driver solution is designed with the ideal that Participants have the right to dedicate their lives to that which makes them happy, while contributing positively to society in a way that makes them feel fulfilled, working towards the future they choose for themselves. Security concerns, such as identity and ill-intended Participants (Generators choosing to execute actions that negatively affect the lives of others and damaging the circle of value) are answered with the Aura solution, discussed further ahead, Page 19.

Libereco (Financial Instruments)

The idea behind our approach to DeFi (Decentralized Finance) is that Economy Participants should at the very least, have the ability to see and know how assets are circulating to generate value. For both Economy Participants that are interested in Staking, and those looking to Borrow, the process by which they exchange value must be as transparent, friendly, inclusive and accessible as possible.

Enabling Economy Participants access to financial instruments that are liberated from Intermediary Interests, 3rd Party Influence and Bureaucratic Veils, we can facilitate an environment where one half of the people choose what their assets will do and for what return, while ensuring that the other half of the people keep the choice as to how much they can give back and when.

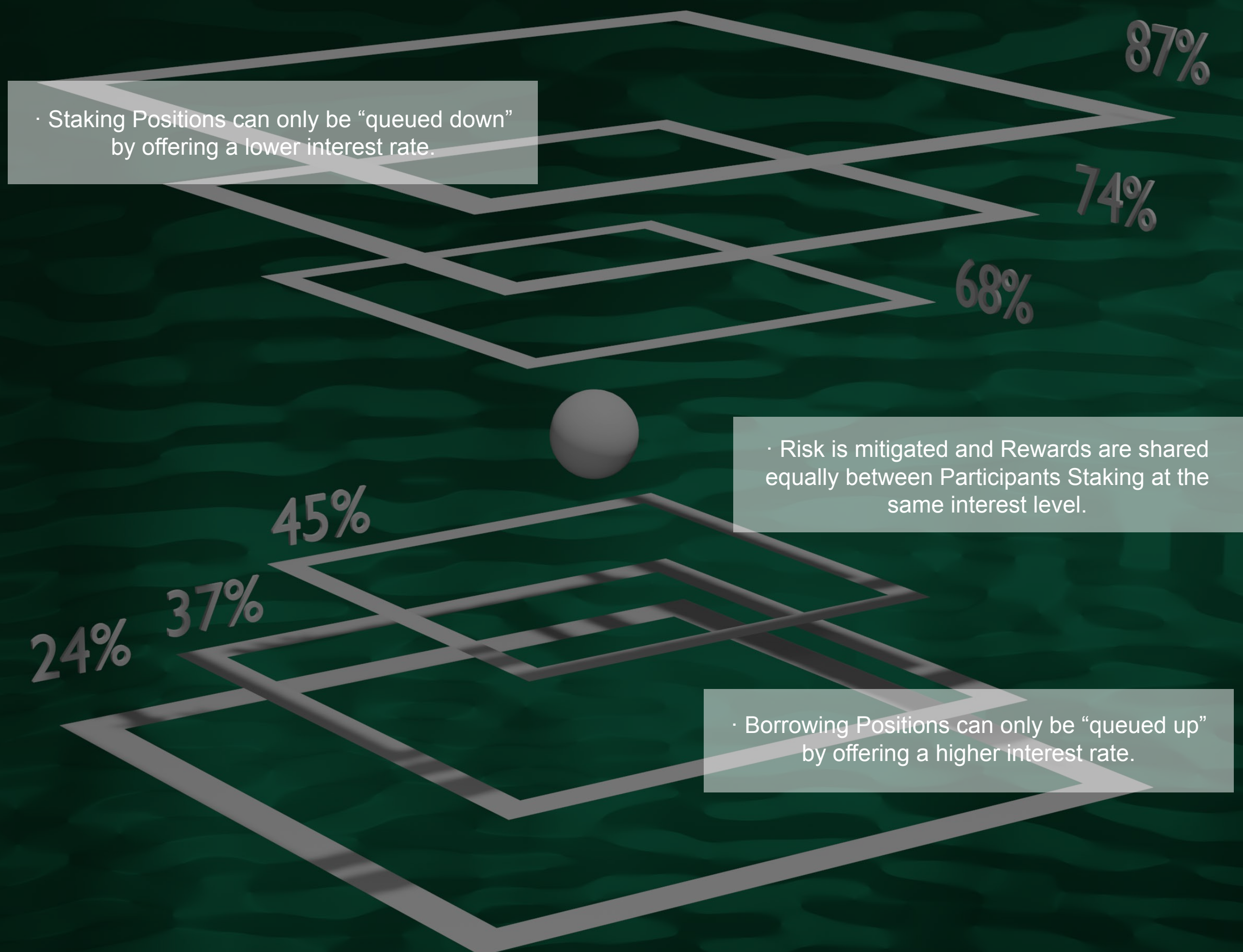
The current bureaucratic processes through which traditional financial institutions deliver their products, have emerged due to both sincere need (e.g. to mitigate the risk of unpaid loans and to help fight negative economic impacts such as terrorist financing) and out of human greed, we are certain that as Jada Ai grows, it will find better and more secure ways to deliver the proposed financial instruments without hindering the inclusion and experience of Participants.



Floating-point interest rate:

By allowing Stakers to freely decide the interest rate at which they would like to make their assets available for loaning, and in the same way, Borrowers freely deciding how much interest they are willing to pay back and when, we can give way to a truly free lending market where Economy Participants are in control, the objective being the decentralization of global interests rates, where said percentage is shared universally, liberated from geographical barriers.

Some of the protocol's details are as follows:



The currently discussed financial instrument is designed with the ideal that assets, and the returning contributions, are working towards their respective Stakers and Borrowers, not to benefit a custodial entity. Security concerns, such as identity and ill-intended Participants (Borrowers without the desire to pay back their credits and Terrorists looking for financing) are answered with the Aura solution, discussed further ahead, Page 19.

Field-break volume:

The idea is to allow Users to decide, if they want to make their assets available for staking and at what interest rate, while also allowing Users looking to receive credits / loans, to transparently see at what interest rates the assets are set to and the liquidity available.

This way Users freely decide the interest rates at which they will be making credits available and receiving them, while ensuring that the corresponding margin awards are distributed to the owners of the assets instead of an obscure, non-transparent custodial entity.

The upper circles are called "Staking Fields".

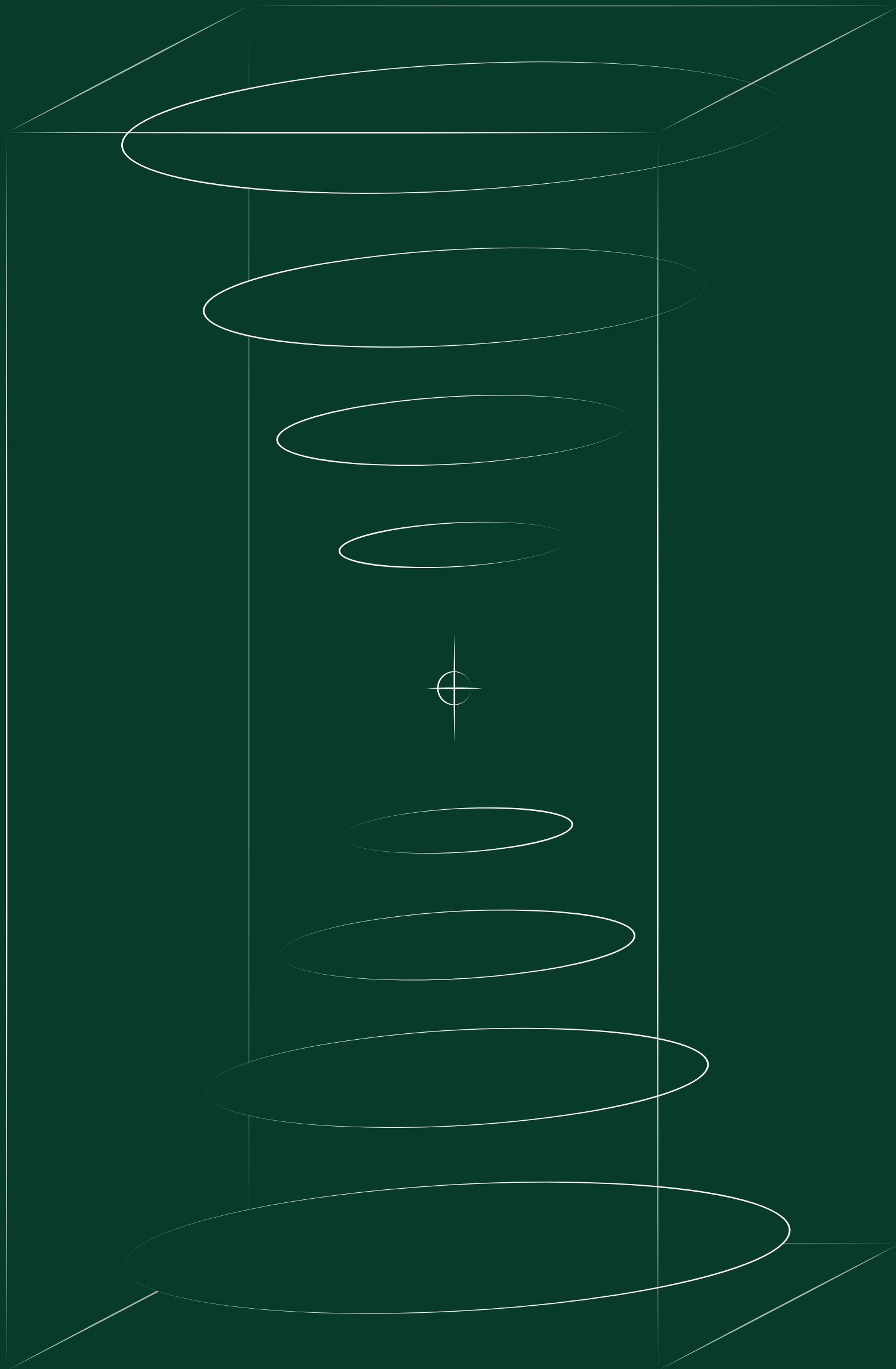
· Height: Indicates the interest rate at which the funds are being made available in that Staking Field.

· Opacity: The amount of funds available in the Staking Field.

The lower circles are called Order Fields.

Height: Indicates the interest rate at which funds are being requested.

Opacity: The amount of demand for the Order Field.



Jades (Token)

Current Specifications:

Blockchain:	Ethereum
Token Type:	ERC-20
Contract Address:	0x6B3fB8afa9ECf6f794AE1CDacf758E8825d513DB
Current Name on Contract:	Jada Finance
Current Symbol on Contract:	jadx
Total Supply:	1,000,000,000,000 (One Trillion)



Aura (Self-Sovereign Identity)

Various concerns come to mind when thinking about the outcomes of deploying systems such as the ones discussed, to mention a few:

- Counter Terrorist Financing
- Know-Your-Customer
- Anti Money Laundering
- Risk Mitigation

The mechanisms by which the above concerns are addressed are in constant change and depend largely on the needs of the present time. In addition to having Jada Ai present in the ecosystem and the several security systems being integrated into the Libereco and Fortuno environments, we present Aura.

Aura is a form of Self-Sovereign Identity based on both financial and economic activity, the “higher” your Aura Grade, the more credit you will be able to acquire while the more “solid” your Aura Grade, the opportunities brought to you will be more finely tuned to the value you wish to generate and receive in return.

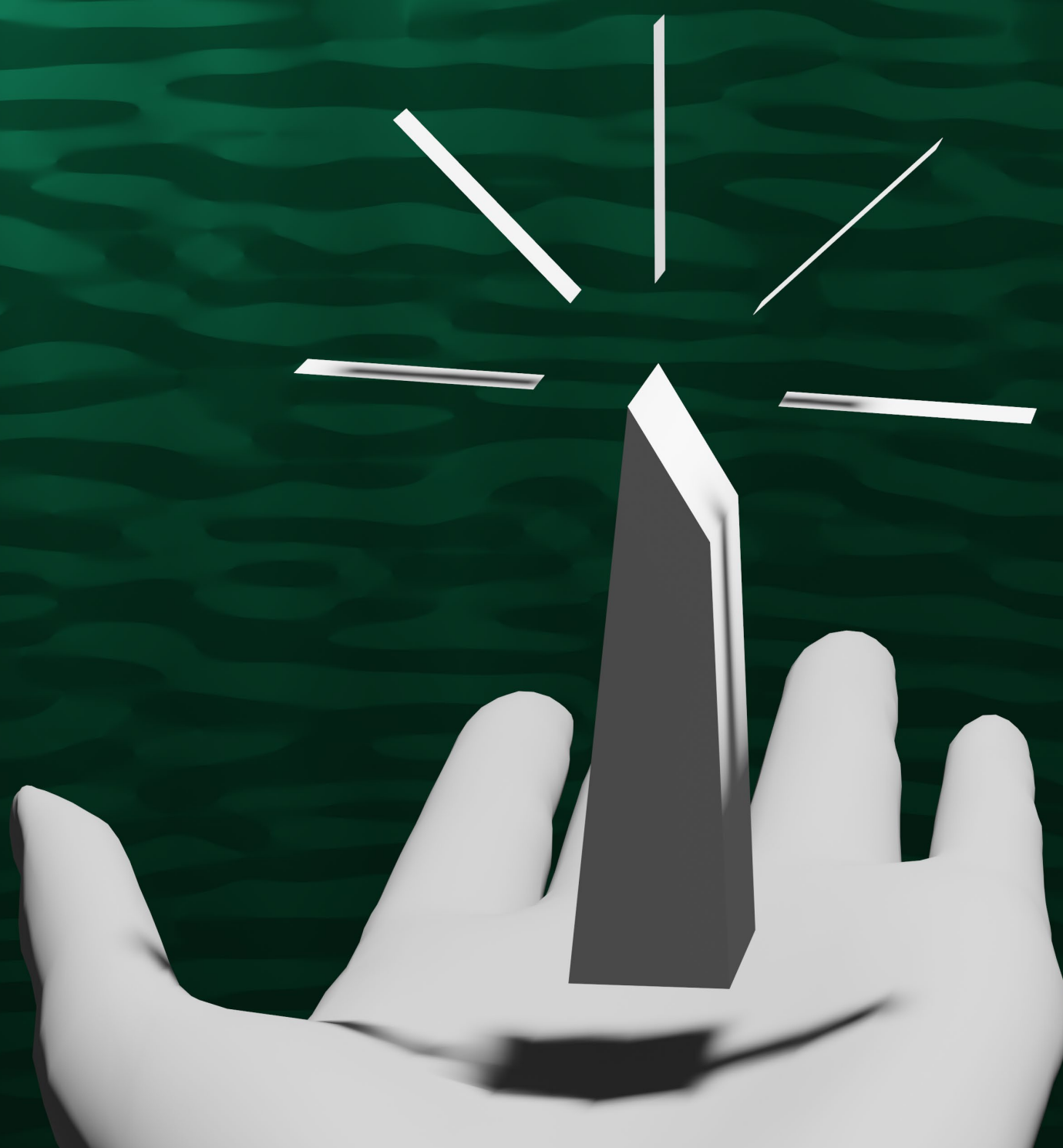
Privacy is ensured via Zero-Knowledge Proofs, basically, 3rd Parties can see that information is present, but cannot actually see what said information contains. In addition, the information is saved throughout Decentralized Storage, meaning that your Aura will be present across networked nodes, in comparison to centralized servers, thus ownership remains with you (the Participant) and made accessible only through your Private Key.



The objective of having a value generation score, is to provide a solid footprint of economic good standing that Participants can fully own and control. This is not meant to compete against or replace reputation-based metrics, but is instead intended to add an alternate layer of protection for Participants and to provide Value Generators with indisputable proof of their positive economic contributions.

The Aura Grade of Economy Participants, also called Value Generators, is measured and distributed through several metrics, to mention a few..

- Positive impact on the Economy
- Time saved for Participants
- Speed at which the value moves the Economy
- Amount of Jades being held in wallet
- Amount of Jades made available for Libereco liquidity
- Amount of time during which Jades are held and/or used for liquidity



Without a positive Aura Grade, ill-intended Participants lose access to the Jada Ecosystem until they take action to repair the Circle of Value that they damaged.

Again, it comes down to choice.

What's next?

The quantification of vague variables and the balance of value is at the core of our approach to the development and deployment of the project, the intention of this document is to serve as an overview of the technologies we are developing and the motivations behind them, and not a detailed insight as to the project's technical specifications. We encourage anyone interested in learning more about the project to reach out with questions, comments, proposals and solutions. As time passes and the project moves forward with development, we will be releasing an updated version of this document (v0.3r.. r = revised).

Lastly, we thank everyone who has believed in and supported this project, also thanking those reading through this document for sharing their time, as it is something no one can ever get back, such is its value that it cannot be measured.

Thank you again.

Diego Torres.

diego@jada-ai.com

jada-ai.com

