Vision (X) Lightpaper

Joseph Knecht

UniversalDot Foundation

February 2021

"There is a theory which states that if ever anyone discovers exactly what the Universe is for and why it is here, it will instantly disappear and be replaced by something even more bizarre and inexplicable.

There is another theory which states that this has already happened."
— Douglas Adams

1 Introduction

What is x? x is a placeholder for a thing that exist beyond our rational ability to conceive. Since by definition x is inconceivable, the nature of x could never be understood. If at some point in the future x becomes understood, x has the ability to transform itself into a new X. To put it on other words, when we solve for x, we automatically create a new, re-contextualized and larger X. In the society in which we live, most of humanity does not understand the universe in which humanity lives. Therefore in this paper, x could be conceptualized as the Universe.

$$\text{Universe} = x$$

Our Universe is x. In the rest of this paper, the terms x and Universe will be used interchangeably.

Every person who lives in our present universe would admit that they don't truly understand the universe they inhibit. At best, they have stories about how the universe came into existence. They only have stories about what the universe is. People in the past created many stories, narratives, myths in attempts to explain this miraculous universe. Their stories always came short of the explanation, since even millions years later, we still don't really understand our universe. We haven't solved x. Science at the present time has created the best story on how the Universe came to be, but even scientists admit ignorance on the origins of the Universe since they don't know what happened before the Big Bang. Science can't solve for x, since every time it attempts to solve x, x

increases into X. Our universe truly exists, but is truly beyond our ability to conceive of it.

He who controls the narrative in society, creates the best story. The highest minds, create the stories that re-conceptualize the universe for everyone else. Since science controls the narrative of society today, we must propose a novel scientific way of attempting to understand x. Science doesn't understand where x came from. Therefore x is, and will forever be a mystery. Furthermore, based on the most recent scientific evidence the universe is expanding at an ever faster rate. The more we try to understand our universe, the larger it gets. Perhaps, its expansion is a direct result of our attempts to understand it through our ability of cognition. The more we know, the more we realize that we don't know. The more we understand the universe, the larger it gets. Our Universe(x) is paradoxical in nature.

The aim of this paper is to resolve x. Notice that we admit that x can't be solved, but only re-solved. This is another attempt to solve x, with the complete understanding that x can't be solved. The goal of this Vision(x) Light-paper is to solve for x, where the function f(x) takes in as input our current best understanding on how the Universe operates. In the attempt to solve x, we will attempt to create a better Universe than the one we currently live in. Since we are aiming at creating something better, we directly imply that there are some current problems in the ways the Universe currently operates.

These problems are clearly outlined and explained in Section 2.

In Section 3 solutions are introduced and proposed.

2   Problem Statement

The universe organizes itself into different levels of abstraction. Atoms combine to create molecules, molecules form cells, cells organize into organs, and organs create a human body. All these different levels of abstraction are needed to create a single human body or an individual. Moreover, all these levels of organization must perform optimally to keep each individual alive. If some cells misbehaves, or organ fails, the individual may die. The individual is organized in such a way that optimally supports its survival. The Universe also organizes itself for perfection in ways that optimally supports its survival. The human body is an organization of different levels of abstraction, and our body is part of the larger universe.

The Universe, just like a human body, organizes itself in different level of abstraction. These level of abstraction provide for the best requisite variety that supports the optimal organization of the universe. The Universe must organize itself optimally to support its own growth. In other words, the universe must create diversity, and then organize that diversity into larger system that optimally supports the survival of the system. Optimal organization is the one which supports lowest possible energy state (entropy) while maximizing its potential for evolution.

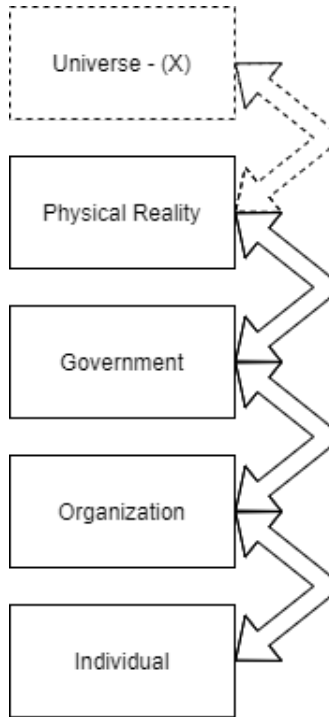Let us examine the levels of organization/abstraction of the Universe (Fig-

Figure 1: Logical Abstraction of the Universe

ure 1.) The individual is the atom on which the rest of society is build. The individual belongs to organizations (universities, corporations, non-profit, etc.). Organizations are created under the jurisdiction of particular government entity. The government then is responsible for creating the rules, laws which all organizations and individuals must abide by. Physical reality however also has its own laws and constants that constrain the behavior of governments, organizations and individuals. The law of gravity for example is law that must be respected by all. The last level of abstraction in our model of reality is the Universe (x). The Universe through a mysterious process is able to create physical reality and its laws. The universe creates all different level of abstractions that live within it. The universe creates universal laws that apply to all. Therefore we must respect its universal laws.

The following question then arises... Is this the optimal way for the universe to be organized? If not, what would be a better way of organization. Let us examine this question in more detail. From our model of reality, we can see that each higher level of organization creates constraints on the entities bellow it, thus limiting their freedom. Physical reality creates constraints on governments. Governments creates constraints on organizations, organizations create constraints on individuals. When building more and more complex systems, constraints are necessary for the survival or the larger system. Through con-

straints, the larger system forces the entities bellow to self-organize, collaborate, specialize and produce results that are beneficial to the whole system. In other words, the organizations that create the best constraints(laws) have the highest chance of survival in the long run. This applies to all individuals, organizations and governments.

To make this more concrete, I will give a specific example of how each entity of abstraction affects the Universe. Suppose an individual didn't take care of his health, and becomes sick. Since the individual is not feeling well, he is unable to perform his job and this negatively effects the organization/businesses he is involved in. Since the individual is sick, the organization is unable to increase its revenue and the government collects less in taxes. Since the government collects less taxes, the government can't build a new hospital that will help in the research and cure of diseases. Thus, one small mistake of the individual who didn't take care of his health, has a circular effect on physical reality. Perhaps if the individual was well and productive, he will contribute to his business, that will increase the taxes that the government collects and the hospital would be build. To summarize, a hospital is not manifested in physical reality simply because an individual didn't take care of his health.

In the universe, everything is connected. Everything has effect on everything else. As the above example showed, one small sickness can became the reason why a hospital won't exist in physical reality. Due to ignorance, individuals often can't see how their actions have effect on everything else. Ignorance is the only sin in society. If everyone in society became aware of how their actions affect their own life, the universe will become heaven. The issue is that most people are metaphorically blind, and can't see the effects they have on the abstractions above and bellow them. The ignorance of people increase as the levels of abstraction increase. The more abstraction levels there exist, the harder it becomes to for each individual to connect the dots are see the deep connection to the whole Universe.
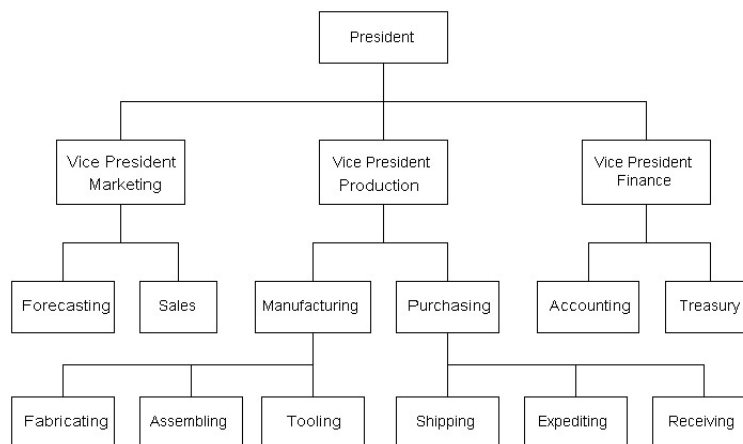

Figure 2: Hierarchical structure of organizations

The current level of organizational abstraction of the universe is the best the universe could come up with thus far. Everything was necessary to get to where we are today. However, there are some specific problems that must be addressed in the way that society is currently organized. To examine these problems, let us first look deeper into how each entity is structured internally. All entities, within them, create hierarchies of competence. Organizations, Governments are structurally created out of pyramid type hierarchical system. (See Figure 2). The larger the organization, the bigger the hierarchy within it. In each hierarchy, the power and control accrues at the top of the hierarchy since all decision typical flow top to bottom. For example, the vision of the president is implemented by all people below him. Thus, they suffer his ignorance and partake in his success.
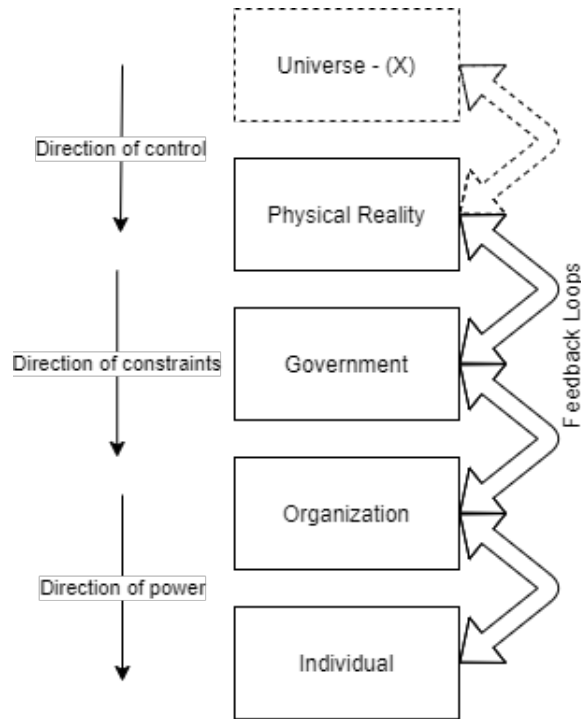

Figure 3: Current abstraction of the Universe

Every hierarchical organizational structure suffers from the following three problems:

1) Power corrupts. Since power accrues to the top, sooner or later all hierarchies become corrupt. If the sole goal of any organization is to preserve or expand their power, this is done at the cost of the larger system. Since most of decision making process happens at the top, the top-level decisions mostly shape the future of organizations, governments and society as a whole. The individuals who are most power hungry, typically climb to the top, and from the

top of the hierarchy they aim to increase/maintain their power. For example, a corrupt oil-producer CEO in order to expand his power will lobby a politician to pass new laws that expands his power. The politicians with the support of the most lobbyists get elected into office and accrue more power. Since the corruption propagates up, eventually our physical reality gets corrupted in the form of pollution, global warming, etc. When this happens, the Universe must intervene in some way.

2) Latency in feedback loops. When the people on the top of the hierarchy make a decision, that decision flows down the hierarchy. In a large hierarchical organization, it might take years or even decades to implement the decision and get feedback on its success or failures. This makes all large organization very slow, and oftentimes, many bad decisions are implemented that provide little or no value to the larger system of society. If society and the universe are to become more prosperous, we must increase the rate at which feedback propagates through the system. Fast feedback is essential for progress in any system. Therefore the latency of the feedback loops must be decreased in each organization internally and externally. All feedback must be propagated fast throughout the system, thus closing the loop in fast manner.

3) Locus of control. All organizations take away power from the individual in promise that the organization/government would improve their individual lives. Therefore, the locus of control accrues always in those who are in top positions in organizations or government. But only the individual knows that is best for the individual. The individual at the top of a hierarchy always knows what is best for him/her but almost never knows what is best for the individual at the bottom of the hierarchy. This prompts most individuals to act solely based on self-interest. All organizations start with a promise to serve the individual, but at the end, they take away control from the individual and make the individual their slave. This must be changed. The individual comes first, and everything else, second. A system which doesn't empower and give control to the individual is not the best system we can create. The locus of control must shift to the individual. Each individual is as important as any other.

The universe is also a hierarchically structured. Notice that the above mentioned problems exist internally within the hierarchy of each entity (individual, organization, government) as well as externally towards other entities. For example, when the government creates a law for an organization or individual, it takes away power and locus of control from the organization/individual (See Figure 3). Furthermore, if the law doesn't support the growth of organization/individual, there is a large latency in the feedback loop. For instance, the policies of the president of a country could have an effect years and decades after the policies were established. To create a more effective societal system, the latency of feedback must be shortened, and the power and locus of control must be returned to the individual.

Let us look at another example, but this time examine the effects that happen if an the individual becomes sick for an extended period of time. Since the business that employed him will become less profitable, eventually the business will be forced to downsize and let go of other workers. Businesses stay

in business as long as they remain profitable. When businesses are downsized, governments lose their tax-base and are forced to downsize or go into debt. When the individual suffers, all other abstractions above also suffer and are forced to downsize. But what about physical reality? Is physical reality also able to downsize? When the governments no longer fulfill their original function of providing the optimal environment for the evolution of society, perhaps physical reality can create some type of a virus in attempt to downsize itself. If corruption ascends our organizations or governments eventually the corruption has to be felt in physical reality in some way or another.

Is the universe intelligent enough to protect its physical reality? Perhaps and intelligent universe will create a virus in attempt to downsize itself. Perhaps and intelligent universe will aim this virus at those who are the least productive for physical reality. If Physical reality is able to do this, that would imply that the Universe, much like us, is also a living organism. The universe, much like individuals, organizations, and government aims to evolve to decrease its disorder (entropy) in the direction of its highest evolution. For many of you, the fact that the Universe is alive would sound like a miracle, but if you are alive, why do you believe that the universe can't be alive? Only alive things give rise to other alive things such as us. If individuals are alive, why can't the same aliveness quality be assigned to the universe. And if the universe has a problem and finds a different optimal strategy for its evolution, why wouldn't it sacrifice few individuals for the greater good of the Universe. If you, as an individual were sick, wouldn't to try to kill a virus in your stomach so that your body would feel better. Why wouldn't the universe do the same if some individuals have become the virus of the Universe?

Most problems in society today arise due to the problems of organization. The people who sit on the top of different organizations, have few incentives to change the system that places them on top. And often times, the people on top are the smartest people since it takes true intelligence, wit and social acumen to climb and persist at the top of our hierarchical systems. If the smartest people don't have incentive to change the system, who else can change it? If the smartest people in business, government, and society are only concerned with their own survival and power motives, the Universe must find a way to disrupt itself without killing itself.

This paper proposes one such attempt for reorganization without creating complete disorder. This paper aims to provide a solution to the above mentioned problems. Rather than just a theoretical solution to the problem, we will provide a practical implementation in Section 3. Before we go further, we must establish a clear goal, which is closely aligned with the universal laws of the Universe. The goal must be clearly stated, and all other work must stem from the goal that we are trying to achieve. That goal can be stated as follows:

Empowerment of the individual as the central point in x.

Instead of individuals surrendering their powers to the organization, governments they belong to, we must create a new system in which the individual
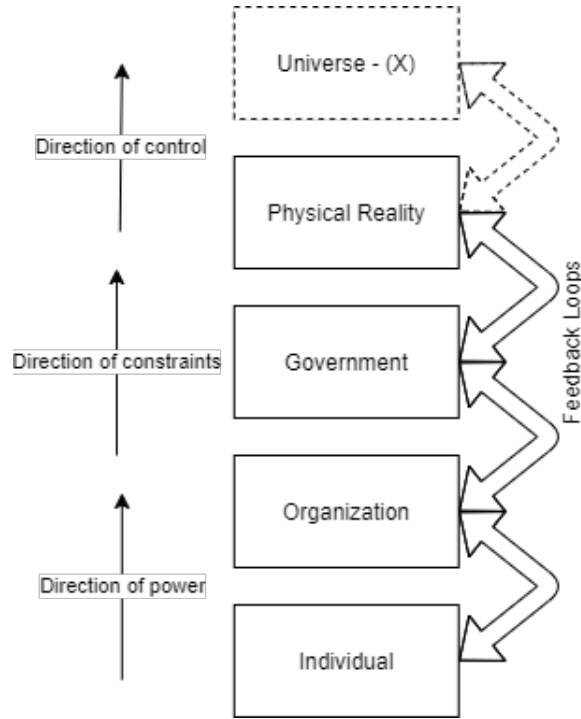
Figure 4: Future abstraction of the Universe

has a central role in the type of society the individual creates. Since we are all individuals, we must create a system in which we empower all individuals and not the ones who sit higher in the pyramid of power. The universe must be re-designed and we must put all individuals on a equal footing.

What is proposed here is revolutionary, but this has to be implemented without a revolution. What our forefathers have built must be protected and not destroyed, but only improved. And the improvement comes in the form of a great expansion.

3   Solution: The Great Expansion

The solution to the current societal problem is the complete empowerment of the individual. The individual has created social constructs of organizations in an attempt to organize and empower the individual, but after few centuries of increased complexity, these institutions have centralized their power away from the individual and left many individuals powerless, with little autonomy and freedom. The solution is to create a non-disruptive transition of power and control back to the individual. The enabler of this transition is technology. Technological progress has created the necessary infrastructure of society onto

which a new technological society has to be re-build. Technology will enable a great expansion of prosperity and freedom.

The new technological system will remove all constraints from the individual. All organizational rules, governmental laws will be re-designed from the bottom up, instead of top-down. This will enable not one individual, but all individuals to have a complete control on their destiny. It will enable the individual, through their free-will to create their own organizations, governments that benefits them the most. The best organizations and the best governments will ultimately prevail. Furthermore, this technological solution will shorten the feedback-loop between different entities which will enable much faster progress toward evolution. If implemented correctly, this solution will enable a great expansion of society and will transform humanity into interplanetary species, thus enabling humanity with more creative control of their physical reality and ultimately, the Universe.

We must expand ourselves by learning and constant improvements in the direction of our passions. Through our passions and talents, we will expand the lives of others. The more we expend ourselves, the more we expand our Universe. Life is nothing but an infinite expansion of the seeds we plant everyday. An infinite expansion of of growth and progress will grow us, and eventually will grow x into X.

The vision for the great expansion is implemented with the latest technological revolution. X will be expended through a community effort with the help of an open-sourced blockchain network onto which individuals will reserve rights to create (or re-create) new organizations and governance structures. The vision (Figure 4. and Figure 5.) places the individual on top of the abstraction hierarchy and gives full autonomy to the individual to create organizations, governance, and society in their image. This society is created to resemble more the interests of the individual, rather than the individual having to adjust to ever more complex and corrupt society.

The great expansion is created by the work of dedicated individuals who believe in this vision. The communicated vision will have to implemented by the few visionaries who can foresee the vision and transform it into actionable future. These visionaries must work for the benefit of the many, not the few, for the good of the commons and not for their own common good. To fully implement this vision, few principles must the established above all else. The primary principles being transparency, truth and freedom. All other principles derive from these. For this reason, all source code will be, and forever remain open-sourced with the aim to serve the common good of the broadest audience.

There is an alternative to the proposed solution of a great expansion. However, the alternative is non-desirable. The alternative to the proposed great expansion a great depression.

3.0.1 Network

The Universe can be perceived as an organized network of individual or nodes. Each node, through specialization fulfils a small task needed in the universe.
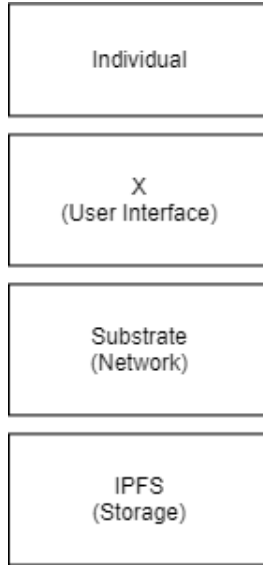
Figure 5: Architecture of X

Thus, the individuals abstractly create a connected network of nodes, where each individual is unique in terms of skills, talents, and desires. The current network of each individual is self-created, and each individual has its own network through which he interacts with other individuals in society. Typically, the larger the network of an individual, the larger of effect that the individual has on society. For instance, the president of a country has the largest influence since his decisions directly influence the lives of all citizens.

The current networks are intangible and are only created through social interaction. However, the Architecture of X (See Figure 5.) will implement a tangible network in which the implied social constructs are implemented by tangible smart contracts on a decentralized blockchain network. Furthermore, networks can be created on need bases and and people can organize and create organizations and government only when the need for such arises. Therefore, all organizations are created and sustained as long as they fulfill their original vision. Since the created networks are more tangible, the networks will become more transparent and more efficient since no information or power is centralized to specific individuals. Tangible networks also shorten the feedback loops since each node in the network understands its tangible role and effects on other nodes.

The Network infrastructure is implemented to closely resemble Substrate networking protocols (See Figure 6). In the center there is a relay chain with minimal functionality that ensures interoperability and security of the network. The Relay chain connects to other parachains that have a certain specialization. Each parachain will fulfill certain use case. For instance, one blockchain

will specify the governance mechanism, while others might be responsible for executing smart contracts. All blockchain on the network must aim to provide joint security, scalability, and transparency. Parachains also reserve the possibility to evolve into relay-chains wh ich allows for exponential expansion of the whole network.
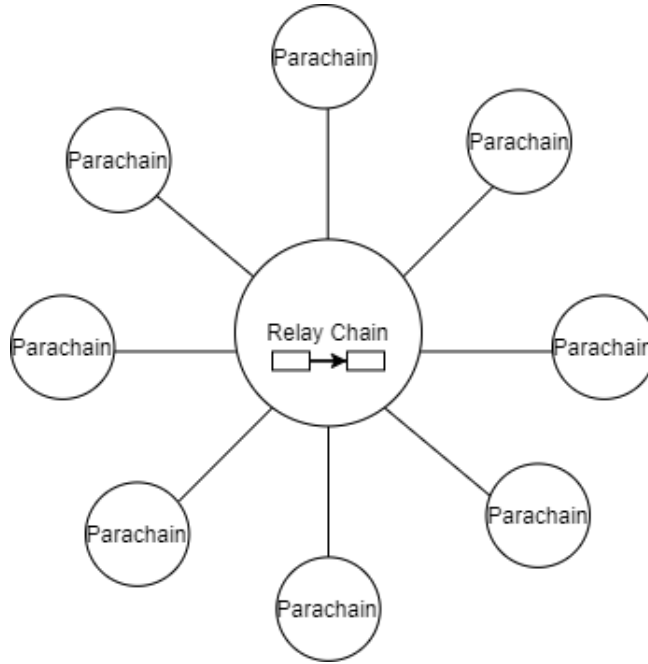

Figure 6: Substrate Network

The Network infrastructure will provide for a seamless interaction between different individuals which facilitates the creation and consumption of different type of goods and services. Each individual will have unrestricted access to create goods and services on the network. The network enables the creation of close collaboration and synergy between different individuals with common goals. For example, if a group of geographically dispersed individual aims to fly a rocket into space and each individual has some specialization in achieving this goal, the goal of the network is to co-locate these individuals and bring them together. Only, when the network is an enabler with the right incentives for organization and governance, the goal of flying a rocket into space will be successful.

Creating a network effect based on common vision, ideals and goals will enable much faster progress of society.
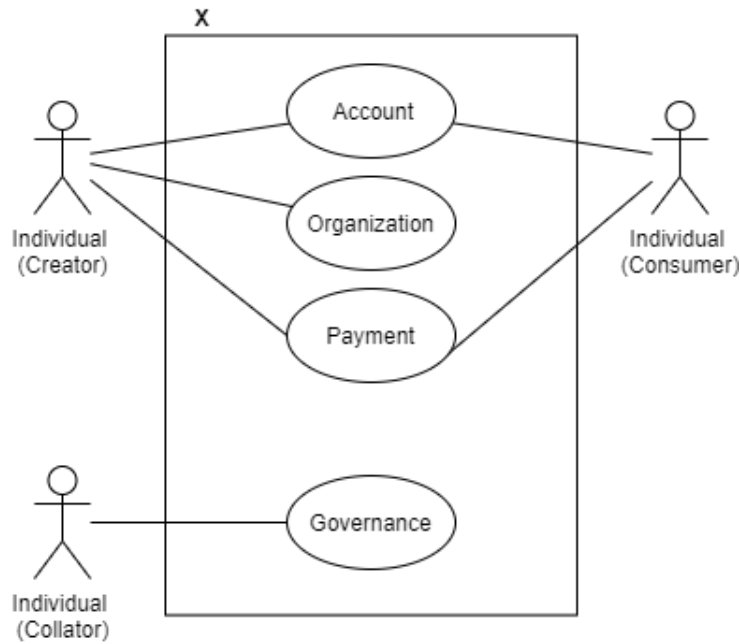
Figure 7: Use Case

3.0.2 Identity

The new system recognizes the self-sovereign identity of each individual. In the system, each individual will be given equal opportunity and equal rights to implement their own vision for the universe they wish to inhibit. The individuals with the best vision, will gather most support from other individuals which will help in the realization of the highest vision. If the vision is not supported by most individual, this would mean that the vision is not the best for most individuals and they could focus on working on another vision.

The concept of Identity will be implemented by an account. In our blockchain, as in most blockchains, the concept of identity is circumvented by use of private-public key pairs. However, most blockchains implement pseudo-identity and don't account for reputation. Or sometimes they rely on external systems to lend trust to a transaction for which that blockchain records a payment. In x, the account for individual is pseudo-anonymous but implements reputation based points that support the integrity of the system. As outline on Figure 7, the individual will be able to create an account on the system which can be accessed through a private key. The account holds certain data for the individual, such as:

- **Public Key** Address visible to all individuals on the network

- **Reputation points** that are acquired through interaction with other indi-

12

viduals (karma points)

- **Cryptographical Currency** Unit of account which measures value

- **Metadata** with interests, passion, of each individual that will help with narrowing their interaction and organization with other individuals

- **List of associations** in all organizations, projects and activities for the individual.

Furthermore, each individual will be able to create or participate in organizations of their own choosing. Organizations can be created on need bases to fulfill a common vision or goal. Once the goal of the organization is achieved, the organization will be dissolved. Some organizations can have a long lasting goals, for example creating a human civilization on Mars, while other organizations can have a short goal such as creating a short film or new product or service on the market.

How would an organization know which products and services to create? Individuals (Creators) can create a product or a service through their organization but how do we know that they are creating the right service that the market demands? Currently, the market only responds to goods/services only after the product/service has been created. But in x, the Individual (Consumer) through his Account is able to specify which exact services the Individual would want to consume. When an Individual (Consumer) specifies his exact interests in x, he signals to other organization the type of products/services he would like to consume. This dramatically shortens the latency of feedback between divergent market participants (Creators and Consumers). This empowers Individuals to demand what the market should create, rather than having organizations dictate the product/services they create. Therefore x, solves the biggest problems that we mentioned in Section 2.

The successful interaction between different Individuals is facilitated through a Payment in which cryptocurrency changes hands between Creators and Consumers.

To facilitate proper interaction between Individuals(Creators and Consumers), a proper governance must be established. That will become the role for the Collators which place collateral into x. Individuals (Collators) will stake their own funds(cryptocurrency) and will ensure the proper Governance and settlement of transaction on the network. It is in the best interest of all Individuals to preserve integrity and reputation and act in ways that id optimal for the whole x and not just themselves.

All the above mentioned data will be part of a the account information for each individual. The access to each Account is enabled through the possession of the corresponding private key, but each individual will have the ability to create multiple public keys and therefore can be assigned multiple identities. As shown in Fugure 7, the identity of each individual is allowed to shift. An Individual can one day be a Creator, another day a Consumer or Collator on the system.

13

Further implementation details of the Vison (X) is provided in Roadmap (X).

4 Conclusion

The ultimate goal of X is to bring all Individuals closer while empowering them to create the Universe they wish to live in.

References