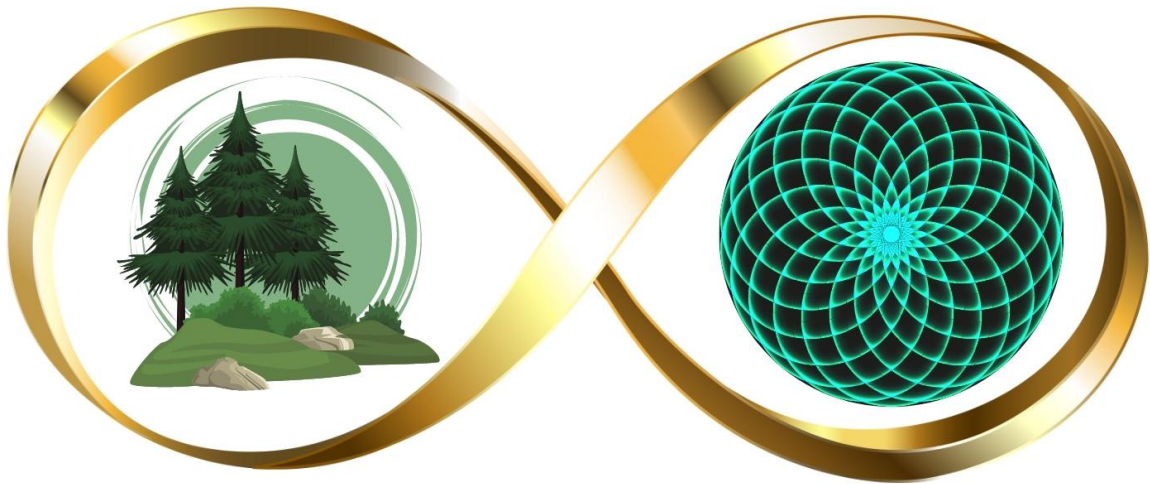# SANEconomy

Sustainable. **A**ll-Considerate. **N**uminous. **E**volutionary

A Meta-Systemic Approach

A Voice for Nature and Human Wellness

Written by: eNas[1] (in collaboration with others)

SANEconomy:

Preamble:

S.A.N.E. is a multi-modal initiative, made of three main components:

1. A series of bioregional resiliency and earth regenerative projects
2. A cultural innovation project
3. A Web3 REFI (Regenerative Finance) project, creating infrastructure for bioregional resilience that can scale and replicate.

This white paper focuses on the Web3 REFI component: the SANEconomy.

As you read this paper, you may well have a variety of implementation questions come up; answering these is beyond the scope of this paper. The aim here is to give the reader an overview of the metaframe underlying this endeavor. Each sub-component of this white paper could be expanded into a unique white paper in itself.

Introduction:

In order for humanity to move to a new level of care and integrity, we need an effective economic system, as well as supportive tools and structures that allow people from all walks of life to participate in shifting our world to an all-considerate place.

Money has become the greatest shaper of our modern world. Every time we spend money, every time we make a transaction, every time we create a product or service, we impact both our collective problems and/or their solutions. **Essentially, "economy" underlies and affects all human systems and most interactions.**

Our current economic system is based on the goal of accumulating things and/or fiat for the indefinite future, essentially, making us dependent on **unending growth**. It does not consider the obvious: focusing on constant growth and accumulation of profit on a finite planet eventually leads to major disruptions of the very ecosystem that supports the economy, and in consequence, leads to the failure of the economic system itself.

Anyone studying our current economy from a systemic perspective quickly realizes that it is impossible **to shift our world to a more sustainable state without changing the actual foundational assumptions of our current economic system.** Indeed, it has become unequivocally clear: money cannot remain disassociated from earth resources; our consumption cannot continue unabated. Never-ending printing of fiat currency and/ or continual rates of growth in overall economic activities based on our current economic system is handing humanity the ammunition to finish the job of causing complete collapse of the biosphere.

If we truly want to transform the world for the better, we need to reimagine our economic system from the roots up and consider how a new framework can be tied directly, and in a sustainable manner, to our earth systems. **This effort involves creating a more comprehensive accounting system that considers and accurately reflects true wealth and resilience, namely human wellness and ecosystem health.** This new system places the stewardship of the commons as a foundational requirement, and is centered on interlinked and decentralized regenerative bioregional economies. For this to happen, we need to shift toward a biomimetic economy. Biomimicry as a design principle emulates the models, systems, and elements of nature for the purpose of solving complex human problems. An economy based on biomimicry is one that has a direct and beneficial relationship to nature. Capturing sunlight and turning it into energy is an act of biomimicry; the process of extraction required to build solar panels is not (yet). Currently the only way to get value from, for example, a seal pup, is, tragically, to kill it. **In our present economy a living seal in the ocean has no economic value.** The same is the case with an old-growth tree, a watershed providing clean water, bees pollinating our food sources, or the sun shining. So, in order to build a biomimetic economy, we need an economic system that can do the following six things:

1. Provides us with feedback loops from the biosphere, giving a voice to the earth;
2. Is designed and aligned with earth's actual biocapacity;
3. Contains incentive structures that protect and regenerate the biosphere;
4. Considers human wellness as part of the equation;
5. Is simple to understand and easy to use; and
6. Creates a bridge from our current economic system to this new parallel system.

Welcome to the SANEconomy!

To build a SANEconomy, certain tools are required. With Web3, blockchain technology, the advance in computational power, alongside our deeper understanding of human psychology, as well as consciousness and happiness indexes coming online, we now have for the first time in our human history, the necessary tools to create an avenue for this new economy.

Below we will explain the key elements of the SANEconomy ecosystem that are designed to address the above. **The SANEconomy is made up of nine co-arising aspects, which are all intertwined and function as a meta-engine.** Each of them can be looked at individually and could be content of a whitepaper in and of themselves; here we will provide an overview of each and show how, when they come together, the SANEconomy becomes possible. The nine elements are:

1. SANE Algorithm
2. Proposals
3. Smart Contracts
4. C-HAOs (DAOs 2.0)
5. Tokenomics
6. Special Economic Zones (SEZ)
7. Microloans organizations
8. SANE Mutual Credit system
9. Certification - Accreditation - Monitoring - Reporting - Verification - Impact Assessment

1. The SANE Algorithm – The Engine:

The SANE Algorithm (called NUNA) has two aspects that work with each other to create the basis for the evolution of a SANEconomy. On the one hand, we have **the voice of nature and human wellness:** the feedback mechanism that is built at the core of the SANEconomy. This gives nature agency, and allows human wellness to become an essential factor in our consideration set. **Our approach is data driven, open sourced, and constantly evolving**. On the other hand, NUNA also assigns **value to natural capital assets and services, as well as to human wellness.** Building on this, it can then assign values to future conditions embedded in proposals for regenerative actions. NUNA is designed to function at the bioregional scale with replicable processes to be used throughout the world. Eventually, it can be implemented at the nation scale, and ultimately, at a global scale. NUNA supports holistic choice making. It can highlight those proposals that are most effective and supportive of ecosystem regeneration and human wellness, and is the core lens through which we can understand the SANEconomy.
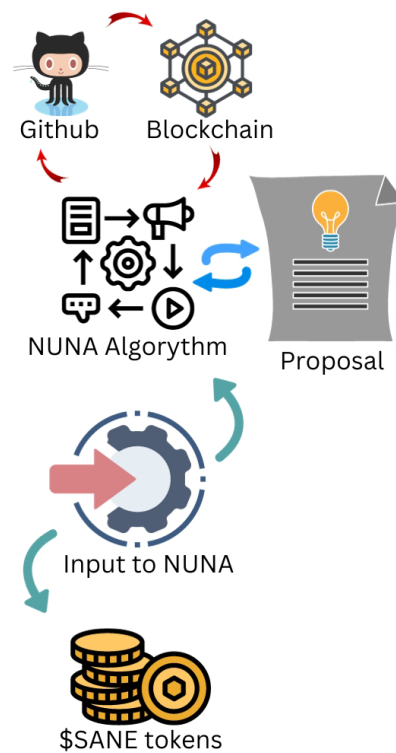
A.   Giving a Voice to Nature and Human Wellness

In order to incentivize actions that actually value nature and human wellness, we need new models for measuring true wealth: a new balance sheet and accounting system to provide direct feedback on how we are doing.

Traditional capitalism has never included the largest assets, those that form the foundation of all economic activities and really, all of life, namely *Ecosystems Health and Services* as part of its balance sheet. NUNA includes these foundational assets, as well as a *Human Wellness Index* as part of its assessment tools, enabling **an economy that considers both qualitative and quantitative data.** By contrast, current tools of assessment for economic health completely avoid what is ultimately foundational to a SANEconomy. The GDP, for example, does not account for unpaid work (such as a mother taking care of her child) or for natural resources asset value, nor does it consider embedded services in nature such as the creation of oxygen. In fact, it sees a war, an oil spill, or a wildfire that destroys a town as a great boost to the economy. With such biased and limited accounting tools, our incentive structures for choice making perpetuate the world we currently inhabit.

A SANEconomy not only accounts for values such as potable water coming from a healthy watershed. It also considers the cost of ecosystem degradation, noise pollution and water pollution among others in its accounting process. The incentive structure is built in for regeneration, for increasing biospheric health and human wellness.

NUNA begins as a collection of data sets that are foundational to the SANEconomy. Plug-ins are incentivized to be built on top of these over time (all future plug-ins that are approved are rewarded with $SANE tokens, creating a whole niche economy within the SANEconomy).

NUNA is open source and a constantly evolving engine. It is a representation of our collective journey in giving a voice to both nature and human wellness. Its aim is to align choice making, incentive structures, economic activities, and the human/nature interface toward a future, which is Sustainable, All-considerate, Numinous and Evolutionary (aka S.A.N.E.). At the onset, humans are the drivers behind NUNA, using the lens of human wellness and ecological health to assess proposals.

We start with two things:

1. A predefined bioregion, usually one that follows natural watershed and human settlement boundaries.
2. Baseline data sets for the chosen bioregion (both qualitative and quantitative) that are foundational to the **future** the respective bioregion wants to create collectively. Those data sets are divided into two categories, which become meta-indexes: Biospheric Health Index (BHI) and Human Wellness Index (HWI). They include, respectively:

Biospheric Health Index (BHI)

- Air pollution Index

- Erosion levels data set

- Forest cover % versus historical index

- Overall landbase fragmentation index

- Forest health Index

- Freshwater quality, quantity and timing of flow Index

- Fish population Index

- Landfill waste levels

- Ocean health Index

- Soil and Peatlands Health Index

- Watersheds health Index

- Wetlands health index

- Wilderness protection levels

- Wildlife/biodiversity health index

Human Wellness Index (HWI)

- Average life expectancy

- Household debt levels

- Infant mortality rate

- Poverty levels

- Suicide rate

- Unemployment rate

- Food Self-Reliance Index

- Import/Export Index

- Violent crime rate

- Happiness Index

- Healthy relationships with Self, Family and Community levels

- Level of satisfaction with Work life

Note that most of this data already exists in many locations around the world, but has not yet been combined into a meta-index. These indexes, once input into NUNA, create the initial current condition of a bioregion and constitute the baseline of "0". All proposals within the SANEconomy are assessed by their potential movement upward from that "0" baseline. *From Zero to Infinity!*

The base datasets mentioned above form the foundational assumptions that need to be agreed to by any bioregion in order to join the SANEconomy. Collective agreement, for example, that: less air pollution is better than more; less landfill waste is better than more; reduction in suicide rates is better; less violent crime is better, etc. The Algorithm, however, allows for more specific weighting of each data-set in order to better fit specific and unique bioregional differences.

B.   Assigning Services Value to 'Natural Capital Assets & Services' and to 'Human Wellness'

Once the baseline dataset is established, we assign a current services value to them in order to reflect their overall contribution to ecosystem health and to human wellness. Next, we collectively create **a desired future** condition for a given bioregion. The process for this will vary from bioregion to bioregion. Our collectively agreed future condition is then entered into NUNA and assigned an embodied future services value. **The value differential between current and desired future conditions, and the ensuing movement from "current" to "desired future" form, in a nutshell, the SANEconomy.**

These values are entered into a bioregional-scale natural capital asset management system that is part of NUNA. Specific future conditions (aspects or parts of overall future condition) are then valued by reverse-engineering these proposed future conditions back to current conditions. This results in the following equation: FCV (Future Condition Value) minus CCV (Current Condition Value) = Value of improvements. This FCV/CCV relationship will become a new field of expertise within the SANEconomy ecosystem. NUNA is built using Unreal Engine with ArcGIS plug-ins.

Our current and historical economic frame gives us basic data as to what an open market is willing to pay for "x" services, which are used for stratification. The two meta-indexes give us perpetual feedback as to our collective movement towards our desired future conditions, and influence proposal creation (see section 2) . In other words, the SANEconomy consciously leverages the reality that humans create the future together, and incentivizes those choices to lead to greater Wholeness. Through mindful and data-based choice making, we work together towards desired future conditions that benefit both nature and human wellness indexes, and ultimately the wellness of the planet and all that lives on this earth. These future conditions are translated into actionable steps that become proposals. NUNA assigns a movement value to each proposal. SANE's DAOs (called C-HAOs, see Section 4)) evaluate and vote/approve said proposals. The SANEconomy is ultimately fuelled by proposals that bridge current conditions with desired future conditions, using the 'Commons" as the playing field for the economy, with the assumption that by creating a "Commons", which meets desired future conditions, the ripple effects will trickle down to the private. This assumption should be confirmed over time. A private holdings onboarding scheme is being worked on for Phase 2 that will involve large parcels of lands (10 acres +) getting locked-in on 25-50 year or 100-year smart contracts as a form of win-win "private for the commons" holdings.

Some projects currently emerging in the REFI space are proposing a participation in the Carbon Market as the arbiter of our collective economic direction. SANE believes that Carbon Markets will never be able to fully capture the complexity associated with biodiversity and the web of life, let alone the interaction of humans within this complexity. The carbon market can ultimately be likened to a shuffling of the chairs on the deck of the Titanic, without addressing the fact that the boat is, indeed, sinking. To get to the roots of our current challenges, we need a feedback mechanism that considers the deep complexity of our human moment, allows for evolution within the system, and is built on foundational assumptions that will survive for generations to come. A biodiversity and human health & wellness market brings us closer to a desired future condition.

Valuing natural capital assets and their complexity of services, and linking these to incentive structures, choice making and a human wellness index is a central challenge of our time. As mentioned above, we now have the tools at our disposal to do this. NUNA aims to be this meta-engine, achieving results that, over-time, will be defendable within a SANEconomy market dynamics.

2. Proposals

What differentiates the SANEconomy from many other projects in the Web3 world is that at the center of our economy is the Smart Contract. Most blockchain-based ventures focus their projects around token value. Tokens, to date, have been as disconnected from nature and human wellness as fiat currencies, leading to speculation on future value, hyped marketing, manipulation of markets, and everything that has been wrong with the crypto space and the overall world economic system to date. On the other hand, the SANEconomy ecosystem is mainly based on real actions being taken on the ground. These actions are approved through a process that leads to the creation of a smart contract. **No regenerative actions, no economy. It all begins with Proposals.**

We like to think of Proposals as the envisioned becoming physical, the metaverse flipped on its head: a future condition is imagined, and with the help of NUNA, a value is assigned to this desired future condition. The service value of any Proposal is measured by NUNA, nudging our economic decisions in the direction of natural and human wellness. Intangibles, which are not recognized in our current economic system, are included. Examples are the value of an old-growth tree left standing and providing oxygen for the planet, the value of a whale swimming freely in the ocean, the value of watersheds providing clean potable drinking water, or the value of happy children playing in a beautiful park. Once a Proposal is put forward, the SANE Culture, Economy and/or Nature DAOs (called C-HAOs) vote on the Proposal. If approved, a Smart Contract is generated, and tokens are minted from DAO allocations that represent the value of the Proposal. SANE certified/ accredited members from the bioregions where the proposal is located can then take on the Smart Contract and engage in the regenerative action(s) associated with the Proposal.

Proposal → SANE Members Vote → Smart Contract
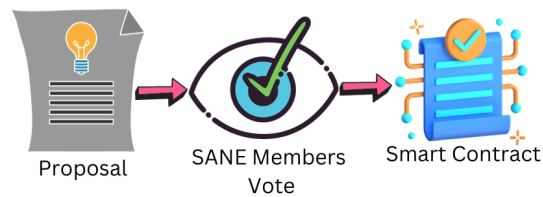
Proposals are created by SANE "Citizens" who hold SANE Citizenship (A proof of Humanity). The SANEconomy (and its assessment of Proposals) looks at long-term sustainability at all layers of community (individual, family, community, and bioregion). It is long-term focussed as opposed to focusing solely on short-term gains, also considering the long-term ecosystem health of the Commons. The SANEconomy consistently appraises any Proposal (i.e. future economic activities) in regard to whether such a Proposal will serve the Wellness of the Whole, as opposed to just the two parties involved in a transaction.

Proposals kick-start sustainable bioregional economies and are used to bridge from today's economy to a SANEconomy. Once a bioregion's population has been onboarded to SANE, their collective desired future condition agreed to, and a series of proposals are completed, a mutual credit system is introduced that acts as local currency (see section 7). $SANE tokens can then be exchanged for mutual credits, creating a perpetual flywheel that can kickstart another bioregion.

A Proposal can be as small or big as the proponent feels capable of delivering on. S.A.N.E. currently operates in two continents, but let's use the North-American / Interior Temperate Rainforest bioregion as an example.

Through partnership agreements, we are currently stewarding 35000 acres of land in a key biospheric ecosystem that the planet benefits from. A proposal can be generated to restore say 500 acres of degraded land due to a wildfire that happened in 2021. NUNA assigns a value to the Proposal, a Smart contract is created, and $SANE tokens are minted from the Economy DAO token allocation (see Section 5), which represent the value of the improvement to the Commons.

At a smaller scale we have a public park that is hardly used because it is littered with garbage, and the infrastructure is falling apart. Right beside it, children are playing on a heavily trafficked street. We can envision a fully restored park and the value this would bring to the community (e.g. less accidents, higher happiness index for children, less stress for parents, increased beauty which invites families to hang out together, thereby increasing connections, reducing crime and bringing more tourism etc.). This future condition can be proposed and given a value as compared with the current condition. A Smart contract is created, and $SANE tokens are minted from the Culture DAO token allocation.

This approach can be applied at all scales. All economic activities are gradually shifted towards the bioregional creation of a collectively desired future condition that meets basic agreements for overall Health and Wellness.

3. Smart Contracts

The SANEconomy focuses on concrete projects and activities that move the needle forward in our journey to a SANE future, hence the centrality of the smart contract. The SANEconomy does not focus on abstract exchange of value and/or unlimited accumulation and growth. It moves most economic activities over to actionable projects.

Modern technology has created the conditions for the creation of new alternative modes of exchange in the form of cryptocurrencies, but to date this innovation has not been able to solve the meta-systemic problems that sit at the core of our current economic system. Today's economic system is based on bank loans and debt. Close to 100% of money created follows this journey: A bank issues a loan that involves a contract. Once the contract is signed, the agreed-upon amount goes into the account of the borrower, and this "new" money is simply created out of thin air as debt with interest attached to it. This journey has built into it a commitment to infinite growth (or collapse). At this point, we can surely admit that the experiment has run its course and pushing it further will result in large-scale failure. Cryptocurrencies are not that different at their core, as the focus (so far) has been mainly on limited supply of tokens, growth in token value, and extraction of liquidity from the marketplace.

Alternatively, the SANEconomy focuses on real actions associated with Smart Contract issuance. Token supply is linked with desired future conditions. The entire SANEconomy project aims at creating an **adaptive circular economy that shifts bioregions to a mutual credits system**. This is a biomimicry economy where growth, if any, is directly linked with a new desired future condition that has not yet been achieved, one that meets the SANEconomy baseline assumptions mentioned above.

The Smart Contract is simply an agreement between parties as to the value and the required actions associated with token issuance. Such a Smart Contract is accounted for as a 'liability until fulfillment'. The liability and the token issuance are of equal value. The Smart Contract acts as collateral 1 to 1 with token issuance.

This simple system quickly generates real, on-the-ground activities and the immediate utilization of tokens as a mode of exchange, as opposed to a store of value.

Token issuance is transferred to a certified bioregional micro-loan organization (see section 7) that administers the Smart Contract. The micro-loan organization acts as the bridge both for onboarding to the system and to kick-start the bioregional mutual credit economy (see Section 7). This achieves wide-scale utilization and ability to scale without the impossible on-ramp to a system that has not yet gained bioregional trust. The micro-loan organization acts as the one-party signatory to the Smart Contract and is the only body that needs to be on-ramped to the blockchain.

In addition, the overall SANEconomy is eventually pegged to the productive capacity of natural capital assets and ecological services of bioregions where it is active. This aspect will roll out as the $SANE mutual credit system matures.

Smart Contract → Bioregional Micro-loan org

$SANE tokens

Backed by Generative Capacity of Land & Nature's Services
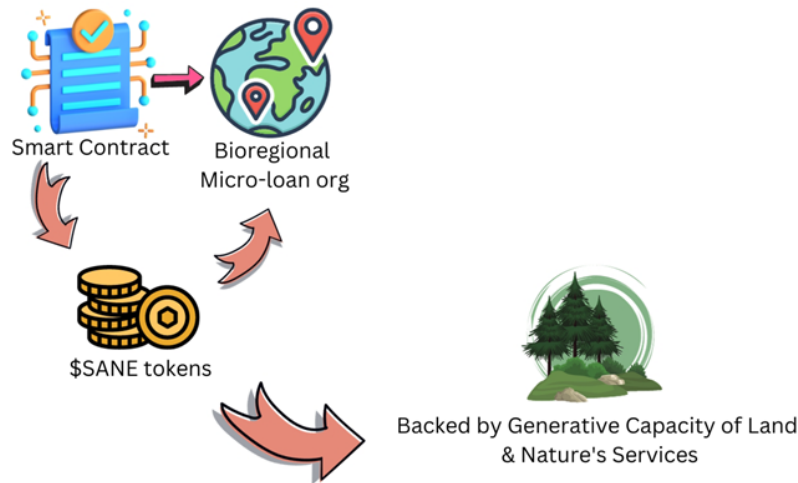
4. Moving From DAOs to C-HAOs

Let's pause and talk briefly about the shift from DAOs to C-HAOs (pronounced "see-how"), as mentioned earlier a few times.

DAO stands for "Decentralized Autonomous Organizations". C-HAO stands for "Collaborative Holonic Adaptive Organization". At SANE we believe that DAOs are a great innovation that can serve organizations in very specific ways. We also sense that they are not the only solution to our current centralized challenges. DAOs are highly capable of doing certain specific tasks well, such as straightforward organizational activities that are based on programmable rules. When it comes to societal matters including decision making and organizational structures, however, DAOs will get challenged quickly if the focus is solely on automation and decentralization.

'Autonomous' is the idea that code can make decisions, and that by assigning value to individuals to a series of predefined criteria, a machine can take charge of decisions on behalf of communities. "Decentralization" is often associated with 'equal, non-hierarchical and/or distributed'.

At S.A.N.E. we believe that a machine will never be able to fully replace the multi-modal capacities of the human being and that developmental growth in capacity and, therefore, in responsibility, are an essential component of healthy organizational structures. We also believe that the future will utilize machines in more and more precise ways, while embracing the subtle and causal dimensions of humans that are far beyond the reach of any machination. Hence the need for C-HAOs.

C-HAOs are built for human **collaboration** at scale. S.A.N.E. premises that in order to make it through this time in history, evolving our capacity to collaborate is a must, and creating systems and structures that support this is essential. Within S.A.N.E., **Holons** are autonomous, self-reliant units that are part of a

meta-system of holons. Each holon's roles and responsibilities are defined, and each holon's relationship to other holons is also defined.

Adaptation: Using a biological lens we can quickly see that survival is closely entwined with the capacity to adapt. At this time in history the rate of necessary adaptation is transcending biological time. Systems, however, tend to get cemented and stagnant. It takes a lot of energy to create a system, and when a system is established, the energy behind its creation tends to dissipate, and the system itself takes over. This is why changing established systems often requires more energy than what it took to create them in the first place. Every new system truly built for the future will require adaptation as a core inbuilt principle. Such new systems will need to get built in a way that assumes evolution in the design specs and integrates change seamlessly. Once an organization has agreed to a set of principles that makes it possible to be autonomous (as in DAOs), one quickly realizes that life throws unanticipated curveballs; an adaptive organization can react immediately and course correct correspondingly.

For all these reasons, C-HAOs are an intrinsic part of the SANEconomy and closer to the future of the human/machine interface when it comes to organization. Their role is, amongst other things, to vote on Proposals and to ensure that all systems within their respective domain are capable of replicating and scaling.

5. Tokenomics

We Are Reclaiming "ECONOMY". It belongs to EVERYONE.

SANE is building the first bioregional token ecosystem: A global network of bioregions building a financial infrastructure as a public utility.

We are creating a bioregional on-boarding framework and toolkit to access a new parallel economy, which is based on incentive structures that support regeneration of the planet, thereby accelerating the transition to an economic future that allows humans and the planet to thrive.

We are also building a bridge from today's economy to the future of "economy" by utilizing an ERC20 token: $SANE.

How can one get involved?

The first step is to become a SANE citizen. SANE citizens are individuals across the planet who support the SANE vision. A requirement of SANE Citizenship is that $SANE are acquired. SANE Citizenship also provides a "proof of humanity".

Bulk bioregional on-boarding of SANE Citizens in selected SANE bioregions will be facilitated through SANE micro-loan accredited organizations.

SANE citizenship is membranous and is reflective of residency location, capacity and commitment. The holonic C-HAO framework (see Section 4) creates this membranous frame.

SANE citizenship unlocks capacities for residents of the virtual SANE Nation:

1. Gives access to the **SANE App**: a Web3, secure, decentralized, censorship-resistant and community-owned platform that facilitates bioregional conversation, cross-bioregion exchange, and unlocks a messenger chat feature.
2. The **SANE App** also enables payment, purchases and transfers globally using the $SANE token, other digital assets and traditional currencies.
3. **SANE App** users are rewarded for using the App by receiving $SANE tokens.
4. Gives capacity to influence on-the-ground actions in selected bioregions.
5. Citizenship holders are part of a global community of "Saners" and receive access to community-only events and courses.
6. Are able to "Stake for the Future" (see below).

   A. : Staking for the FUTURE

   $SANE holders are rewarded for completion of proposals within SANE bioregions. Every time a proposal is approved by a DAO (C-HAO), all addresses holding $SANE are algorithmically recorded. When a proposal is completed on the ground, a second time stamp of $SANE holders is recorded. Each wallet that held $SANE for the duration of the proposal (till completion) is rewarded. Rewards are distributed in the form of $SANE tokens directly into wallet holders. Once the SANE ecosystem of bioregions is fully deployed, we can imagine hundreds of such projects happening simultaneously, and wallets being rewarded with completions of proposals almost daily.

   B. NUNA Rewards system:

   A whole niche economy is created around the NUNA algorithm. Every contributor who inputs a plug-in to the algorithm is rewarded in $SANE tokens. You need to be a SANE citizen (proof of humanity) to insert a plug-in to NUNA. Plug-ins are approved by SANE C-HAOs.

Further, S.A.N.E. creates the infrastructure for bioregional resilience and activates pilot projects in different locations around the world to enable the $SANE token ecosystem to scale. S.A.N.E. builds NUNA (see section 1) that supports the $SANE token ecosystem. S.A.N.E. also on-ramps bioregions, and offers tools and services for embodied resiliency, proposal generation, micro-loans organization creation, multi-stakeholder cooperation, and more. In other words, S.A.N.E. creates the toolkit and services for bioregions to kickstart their new bioregional economy.

$SANE is the bridge to the Mutual Credit Systems that eventually gets deployed in bioregions.

The SANE token ($SANE), which is an ERC20 token, plays a key role in servicing this economy. It is used by all bioregions at the start, and also acts as the mode of exchange between bioregions, as well as a mode of exchange from $SANE to traditional currencies during on-ramp periods.

As mentioned above, SANE Citizenship is required in order to put forward proposals, implement smart contracts, participate in NUNA and access the SANE App. You will need $SANE tokens to purchase a SANE Citizenship. A SANE Citizenship is very affordable and does not pose a hindrance to participate.

SANE Foundation C-HAOs (Economy, Nature, and Culture) have allocations, which are released through the acceptance of proposals that further the mission of S.A.N.E. Each C-HAO has clear roles and responsibilities in the development of the infrastructure of the overall ecosystem (See Section 9). Each C-HAO can also make value-aligned investments (which return value to the Foundation) and philanthropic grants to further the mission of S.A.N.E.

Funding for the building of NUNA and the App release phase of the S.A.N.E. roll-out will be raised through a Pre-Seed and a Seed funding round, based on issuance of SANE tokens. $SANE has a fixed supply of tokens set at 3,693,693,000 tokens.

SANE Token Allocation
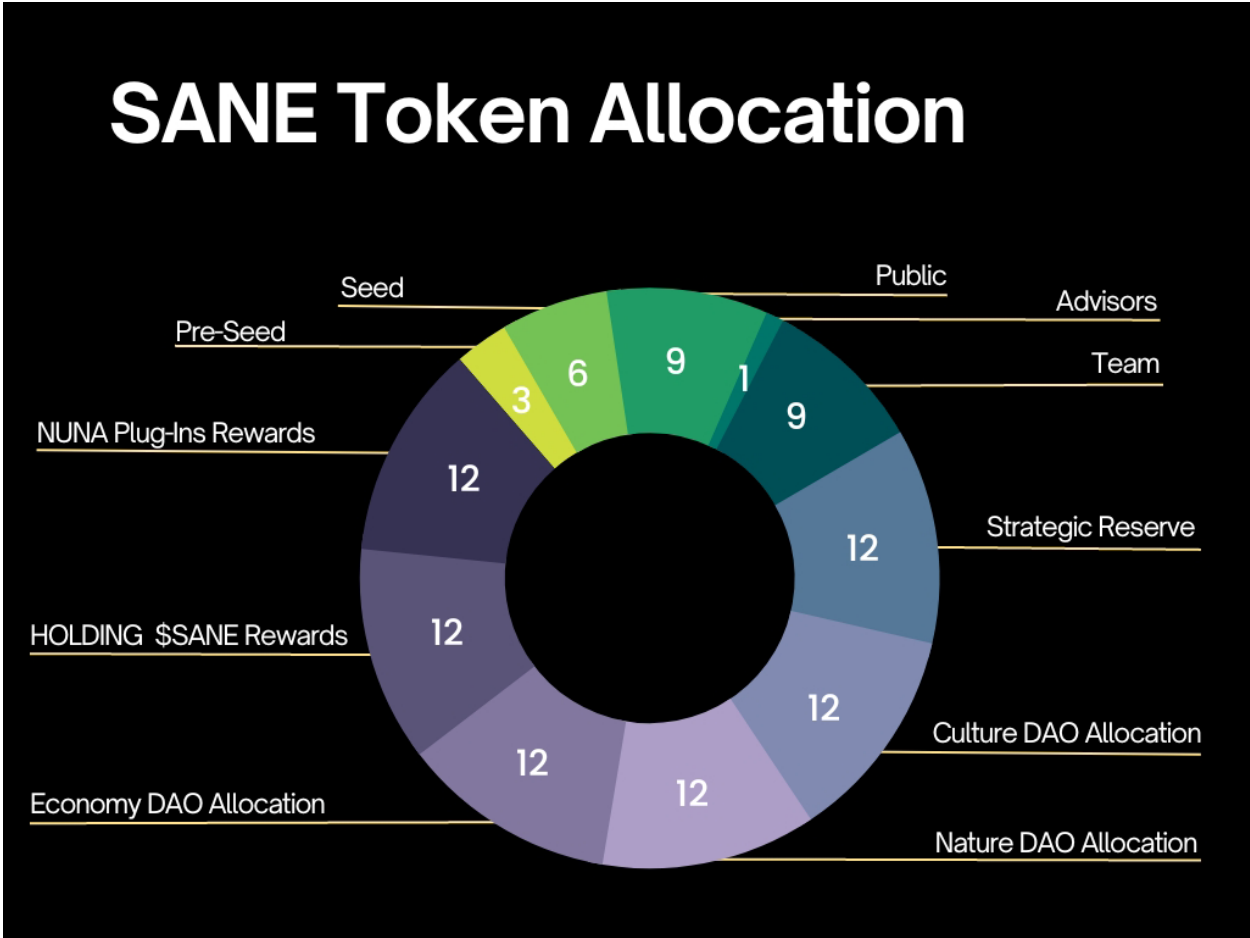
Pre-Seed:

The Pre-Seed round aims to fund rapid growth of the S.A.N.E. Team to take full advantage of our current collaborative opportunities with the Shaur Nation of Ecuador and with SIFCo in Canada,

and to kick start new, on-the-ground projects in our initial bioregions. A total of 110,810,790 $SANE will be offered at a price of $0.02 USD each (Total value of $2,216,215 USD).

Use of Proceeds: We currently have an agreement with the Shuar Nation of Ecuador for the conservation and regeneration of 2,000,000 acres of Amazon Rainforest and the upliftment of their Nation. 500K will go towards our first collaborative on-the-ground projects with them, which they have designed and proposed themselves: A Shuar temple and marketplace, and the restoration of 140 acres of Amazon rainforest. 500K will go towards the NUNA Beta launch, utilizing 15 years of data gathering by our partner SIFCo. 500K will go towards team growth, and 700K towards S.A.N.E.'s first Andean project in our third bioregion: a full-stack permaculture, youth empowerment and reforestation project in the Ecuadorian Andes.
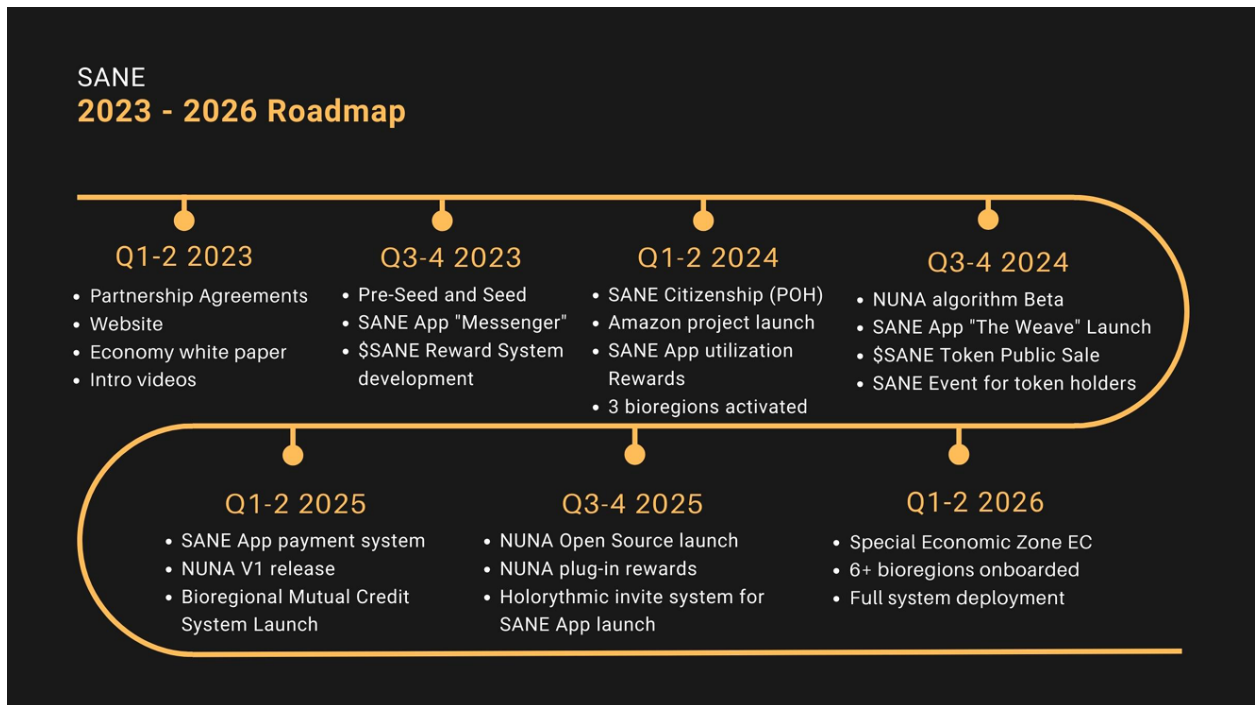
Seed:

The Seed token sale will support our first full-scale bioregional project in the Amazon, the further development of NUNA, our Proof of Humanity/Citizenship system, the launch of the Messenger App, and the coding of our rewards system. In addition, our first three bioregions will be fully activated with proposals being accepted. A total of 221,621,580 $SANE will be offered at a price of $0.03 USD each. Total value of $6,648,647 USD.

Use of Proceeds: We will work with the Shuar Nation (Over 100,000 people and 2,000,000 acres of the Amazon) and implement our first full-scale bioregional project, as well as SANE Citizenship (proof of humanity framework). We will create the system for bioregional project updates on our website with associated rewards for $SANE holders. In addition, we will launch the SANE App messenger component and create the framework to onboard micro-loan organizations (future smart-contract holders), as well as deploy our Synergy Commons framework for Organizational Partnership.

Public:

A public sale is planned for Q3 of 2024; more details are forthcoming. Public Sale start price is $0.04 USD.

Roadmap:

SANE
2023 - 2026 Roadmap

Q1-2 2023
- Partnership Agreements
- Website
- Economy white paper
- Intro videos

Q3-4 2023
- Pre-Seed and Seed
- SANE App "Messenger"
- $SANE Reward System development

Q1-2 2024
- SANE Citizenship (POH)
- Amazon project launch
- SANE App utilization Rewards
- 3 bioregions activated

Q3-4 2024
- NUNA algorithm Beta
- SANE App "The Weave" Launch
- $SANE Token Public Sale
- SANE Event for token holders

Q1-2 2025
- SANE App payment system
- NUNA V1 release
- Bioregional Mutual Credit System Launch

Q3-4 2025
- NUNA Open Source launch
- NUNA plug-in rewards
- Holorythmic invite system for SANE App launch

Q1-2 2026
- Special Economic Zone EC
- 6+ bioregions onboarded
- Full system deployment

E. Decentralized economies backed by Natural Capital Assets

All bioregions launched through the $SANE token ecosystem will migrate to the SANE Mutual Credit system. $SANE acts as a bridge to a future parallel economy. It is both an onboarding mechanism and a reward system for investors keen to see a new era of "economy" emerging on the planet. All bioregional Mutual Credit Systems (MSC) within the SANE ecosystem will be pegged to a bioregional product and backed by **the productive capacity of land.**

By creating their own unique MSC, each bioregion can tie their currency to their desired future condition. THE SANE MSC App (see separate white paper – forthcoming) will be utilized for exchange and currency life cycle.

Token release within the SANE token ecosystem will be directly linked to Smart Contracts (through C-HAO allocations), which in turn will be tied to regenerative actions, and, as mentioned earlier, these future conditions are embedded in the Smart Contracts and act as collateral for token creation. This entire process creates a circular, regenerative economy that brings us increasingly closer to our desired future conditions.

Smart Contract

REGEN ACTION
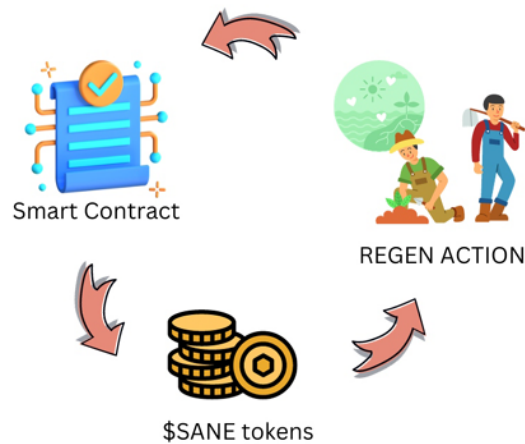
$SANE tokens

The SANE token ecosystem will be both backed by future conditions embedded in Smart Contracts, as well as by Natural Capital Assets and Ecological Services of lands within the SANEconomy.

This process:

1. Creates incentives for conservation and regeneration, since token issuance is directly linked with these actions;

2. Returns the power of money creation to the individuals at the bioregional level (through Proposals);

3. Ensures that token creation and associated MCS process is in sufficient supply to meet bioregional needs in perpetuity, bringing us to a steady state of stewardship (as long as our proposed actions are aligned with a future that is Sustainable, All-considerate, Numinous, and Evolutionary); and

4. Acknowledges that the value stored in tokens is a derivative of real value stored in Nature, which is the real primary source of all economic activities.

In this way, the SANEconomy allows bioregions and communities to adjust their conservation and regeneration efforts to be tailor-made through Proposals. The SANEconomy is largely value-based – with conservation, regeneration and human wellness at the core – while being built in such a way that each bioregion can adjust specific algorithmic outputs to meet their specific needs and be economically viable.

6. Special Economic Zones

Another major step in the creation of a SANEconomy is the creation of Special Economic Zones (SEZ). SEZ are specially marked territories or enclaves within the national borders of a country that have more

liberal economic laws than the rest of the country. In other words, SEZ allows for the creation of SANEconomy Pilot Projects within bioregions that are supported by the greater ecosystem of humans who understand that our world is in need of new models to support the transition we are currently undergoing as a human family. Each bioregion where the SANEconomy is being implemented will be explicitly seeking SEZ status in a win/win relationship with local, provincial, and national governments.

Onboarding entire bioregions allows demonstration at scale of the SANEconomy with its compelling capacity to implement Regenerative Finance. With both our economic system and our ecological systems on the brink, we believe that there is no time like the present for this to begin unfolding. It is for this reason that S.A.N.E. is focussing on specific bioregions to start.

We are, however, aware that a SEZ could take time, and are, therefore, building the SANEconomy in such a way that SEZ are not obligatory for success.

We are currently working in a series of bioregions – in North America and South America. Within two bioregions, we own and/or lease extensive acreage and have move-in ready infrastructure for close to 100 people. Additionally, through partnerships in the North-American bioregion, we have a 99-year lease on thousands of acres. These bioregions were specifically chosen for their readiness for such a project, their existing capacities, and their location (chosen using a complex set of 108 criteria). In South-America we have an agreement to implement the SANEconomy on 2,000,000 acres of the Amazon.

Now that we have considered the overall meta-frame of the SANEconomy, let's move on to its physical implementation. How do we manage regenerative actions on the ground? How does the organizational structure support the economy, and how can it scale seamlessly?

7. Microloan Organization

Once a Smart Contract has been unlocked, we must ensure that the regenerative action is actually taking place on the ground. This is achieved through the creation of accredited and certified bioregional micro-loan organizations. The role of such an organization is sixfold:

1. Enter into a Smart Contract relationship with S.A.N.E.
2. Onboard members to the SANE Ecosystem
3. Tender project management to certified/ accredited members who are SANE Citizens
4. Get Mutual Credit System kick-started
5. Incrementally release bioregional tokens to recipients as bridge to MCS
6. Act as an exchange/bridge from $SANE to fiat, and from $SANE to MCS to ensure completion of proposal

Smart Contract → Bioregional Micro-loan org → SANE Certified Member → REGEN ACTION

S.A.N.E. will charge 7% for technological infrastructure, administration, on-boarding, and training; and 7% for token holder rewards. The micro loan organization will keep 3% for administration, and 83% (86% tied to smart contracts) will go directly to those implementing the on-the-ground tasks.

If we want to transform our economy into a more sustainable one, we have to find new ways of financing, allocating and accessing funds. As explained earlier, a debt-based system does not work. By releasing currency against the value of a future condition embedded in a smart contract, we create the conditions whereby entire communities can work toward desired future conditions by creating their own currency through proposals that meet basic foundational assumptions and agreements.

Since Smart Contracts are awarded through simple tendering, and tokens are minted at the time of the award, creating tokens requires no interest, no transaction fees and very low costs. The combination of instant liquidity and direct market access make the SANE token ecosystem mainly a mode of exchange. The key here is that we clearly distinguish between the store of value and the medium of exchange.

We are, therefore, developing a form of cooperative banking system (Credit Union 2.0) that does not charge interest on loans, but instead, supports the creation of genuine wealth by supporting activities, which are regenerative and based on human wellness.

In the SANEconomy system, the micro-loan organization is the only part of the downstream network that needs to be blockchain native. From there, most transactions can eventually use the SANE MCS system.

8. Mutual Credit System

The SANE Mutual Credit System details are discussed in a separate white paper; here is a simple overview.

The mutual credit currency is tied to a local asset that is an emblem of the bioregion's economy. A simple App is created that records exchanges between participants who have been onboarded through the SANE ecosystem. The ledger associated with the App is a simple +/- record of exchanges. An algorithm searches all exchanges, completes loops, and adjusts ledgers accordingly. Reviews of participants are encouraged, which builds trust in the system. Everyone gets a private, decentralized, and auditable record of all their exchanges at year end. The MCS works across bioregions, and the same App is used by all bioregions.

9. Implementation: Certification, Accreditation, Monitoring, Reporting, Verification, and Impact Assessment

Through our Micro-loan organization system, decentralization can happen at scale. Simultaneously, S.A.N.E. takes responsibility to ensure that regenerative actions are happening on the ground. S.A.N.E. oversees certification and accreditation, is involved in monitoring, is recipient of reporting from the ground and, in turn, reports to the world and verifies that deliveries meet smart contract obligations.

All of this is done in a transparent online environment that involves live feeds, interviews, interim and final reports on projects, as well as tours for SANE Citizens. A clear path of certification and accreditation for microloan organizations is created to ensure compliance at all scales. In essence, the actions taken meet the highest standards and fulfill the commitments that are embedded in the smart contract.
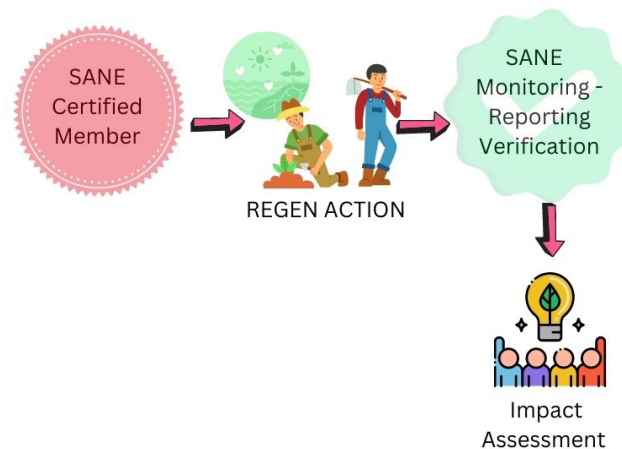

Following completion of the Smart Contract, an impact assessment is conducted that informs and evolves the Algorithm. How are we impacting the Biospheric Health Index and the Human Wellness Index? These assessments allow for improved feedback mechanisms on proposals over time.

10. SANE Organizational Structure (OS)

The three main C-HAOs that are core to the SANE ecosystem are: the Economy C-HAO, the Nature C-HAO, and the Culture C-HAO. Each C-HAO is responsible for very specific aspects of the SANE Ecosystem, and each C-HAO can create sub-C-HAOs as the ecosystem grows, thus allowing the holonic organizational structure to evolve. Each bioregion becomes a Holon and replicates this OS downstream. Management acts as the link between C-HAOs, and the Consulate gives third-person perspective on the overall organization.

S.A.N.E. OS

MANAGEMENT

ECONOMY
C-HAO

SYNERGISTIC
INTELLIGENCE

NATURE
C-HAO

CONSULATE

CULTURE
C-HAO
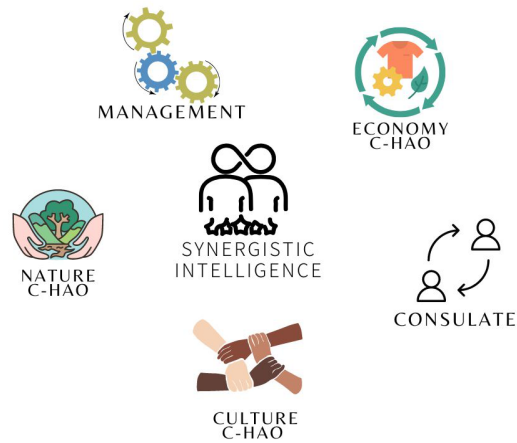
Roles and Responsibilities:

Economy C-HAO:

1. Offers the SANE Algorithm (NUNA) as a service for assessment of proposals and assigning value to proposals.
2. Facilitates the on-boarding of bioregions to the SANEconomy.
3. Is responsible for token release and entering into smart contract relationships with bioregional SANE accredited micro-loan organizations.
4. Stewards the Mutual Credit System deployment.
5. Liaises with all necessary levels of government for the creation of Special Economic Zones.
6. Oversees the SANE accreditation process and conducts all the monitoring, reporting and verification.
7. Stewards the staking platform for unlocking Smart-Contracts..

Nature C-HAO:

1. Works within bioregions and helps steward the creation of proposals.
2. Does research on the potential best projects within bioregions.
3. Stewards land-based permaculture projects as demonstration sites.
4. Stewards Eco-Village projects.
5. Stewards Nurseries and Soil Rehab labs for adaptive restoration.
6. Offers mapping, lidar and drone services for REGEN projects.
7. Hosts a reporting website on actions being undertaken.

Culture C-HAO:

1. Facilitates bioregional processes for imagining desired future conditions.

2. Is responsible for SANE Citizenship on-boarding and organizational accreditation.
3. Facilitates the SANE WEB3 online platform and App.
4. Does HR within the organization.
5. Hosts tours, courses and events.
6. Nurture the spirit of a SANE Culture

11. Implementation Overview

S.A.N.E. was conceived of in 2017, building on twenty-five years of bioregional resiliency and cultural innovation work. The combined skill set of the S.A.N.E. team encompasses decades of experience in the following areas: Coop development, eco-village design, co-housing & NGO consultancy, permaculture, ecoforestry, bioregional climate change adaptation, Web3, multi-stakeholders mediation, integral research & course offerings on parenting, community, education and ecology.

We are currently working in a series of bioregions and are in the process of defining ecosystem-sized areas for our initial pilot projects. In North-America we are stewarding over 35,000 acres of land. In the Amazon we are collaborating with the Shuar Nation on a 2 000 000-acre regenerative economy project. In the Andes we are owners of two properties totalling over 60 acres and are building ecovillages and working with local and international groups on regenerative research.

We are actively building the foundational frame for NUNA, aiming for a beta launch in Q4 of 2024.

Initial proposals are being developed in each bioregion.

SANE token ($SANE) is due for release in Q3 2024.

12. Conclusion

A SANEconomy promotes unbounded possibilities for people participating in it, allows for entire bioregions to imagine a future that is SANE, and supports bioregions with the infrastructure and processes to work toward a better future today. At its core, it demonstrates that we currently have all the tools necessary to create a world in which nature is being restored and human wellness is supported. Economy is often overlooked as the centerpiece to the transformation we all know this world is in need of. Our current economic system and its core assumptions ultimately make it impossible for us to move our world in the right direction. The way forward is to reimagine what "economy" should be, and to begin creating the structures for the emergence of what we call a SANEconomy.