



rloop

A Decentralised and Crowdsourced
Engineering Organisation

rWhitepaper

Version 1.0

The rLoop Network



The rLoop Network is a globally distributed and crowdsourced innovation community. Our mission is to develop and launch innovative technology fueled by a genuine desire to improve the world and humanity. The network facilitates the collaboration of global talent and resources, enabling anyone to contribute to potentially world-changing technology. The rLoop Network harnesses and incentivises the human capacity for innovation.

rLoop believes innovations in technology will allow humanity to make exponential societal, economical, political, and cultural advancements. We believe that for radical innovations to be truly radical, they must be decoupled from traditional motivations. We believe there is a better way for people to work together. We are creating the future of work; a network to democratise high technology. And we've already started with the future of transportation, the Hyperloop.

This document provides an overview of the preliminary implementation of the rLoop Network, as well as potential future growth avenues. The network features community participation in the creation, development, curation, and scrutiny of innovative technology, coupled with a bounty system for challenges and tasks related to challenges. Both systems work to leverage and maximise the wisdom of the community. The systems are supported by an experienced engineering team and advisors who provide structure and effective engineering processes. Resources are allocated to projects based on milestones and community consensus. In this model, influence will flow from the bottom up and not from the top down, whilst creating an economic movement focused on co-developing innovative technology for the greater benefit.

IMPORTANT INFORMATION

Your attention is drawn to the disclaimers and exclusions as set out on page 25.

This paper sets out the views of rLoop Limited concerning the rLoop Network and the proposed token generation event. This paper may from time to time be revised as to its form, content or in any such other way as the directors of rLoop consider appropriate, without further notice being provided. The information set out in this paper is intended to be indicative only, and is not legally binding in any respect on rLoop Limited, its directors or any other party. This document is for information purposes only and does not constitute and is not intended to be

an offer to sell, an offer to buy, or a recommendation of the rLoop Token or the rLoop Network.

Participation in any token sale carries a significant level of risk that could ultimately lead to a loss of all of any contribution made. Unless prospective participants fully understand and accept the nature of rLoop's business and the potential risks associated with the acquisition, storage and transfer of token generation events and the rLoop token, they should not participate in the token sale.



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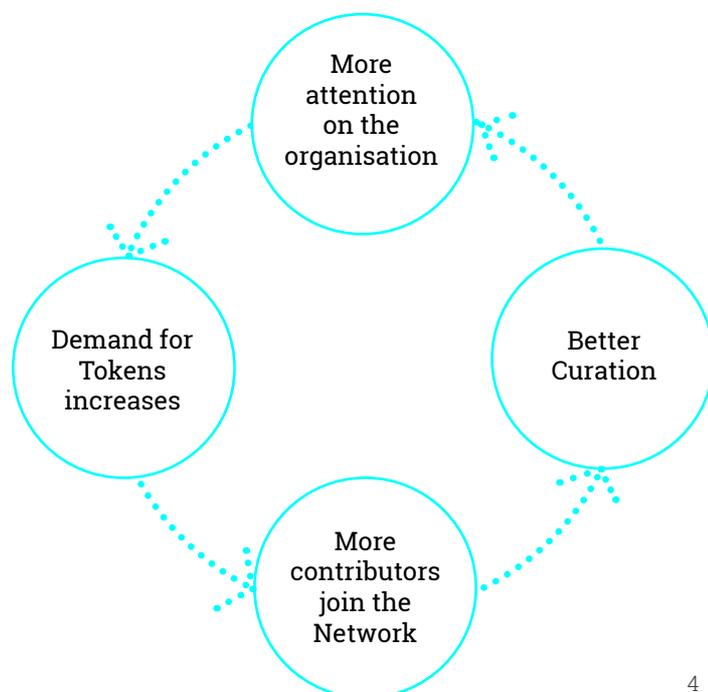


Overview

- There will be an initial Token Genesis Offering to launch the rLoop Network.
- Numerous releases of the token can occur to launch further projects on the network, allowing greater community participation and milestone based project funding.
- rLoop has a strong position on the promotion of STEM education as well as the growth of blockchain technology. To strengthen this position, a charitable allocation from all funds raised (including during the Token Genesis Offering) is enshrined in our organisation. A 'Charity Board' of volunteers is to be created and will be tasked with ensuring the beneficiaries of donations satisfy the criteria set by our community. Initially the distribution is intended to be in the following percentages:
 - 1% to the Ethereum Foundation, to foster continued growth of the Ethereum ecosystem
 - 2.5% to STEM Charity(s), to inspire and interest future generations in STEM fields
- Tokens are used to signal support and curate information within rLoop, akin to an 'upvote' on reddit. ¹ This promotes creative collaboration, allows for many voices to be heard, and for token holders to coordinate and identify the most impactful projects and development routes for the organisation. It is a method to increase coordination online among an amorphous community and dispense with slow and inadequate traditional methods. Note that using tokens to curate is not a dispensary action, and the tokens are always returned to their owners.
- Token holders can also 'bond' their tokens to a specific curator whom they deem of significant reputation. This allows a token holder to encourage healthy and sustainable growth of the organisation by trusting another individual as being more knowledgeable and capable of curating. A token holder wanting to bond their tokens to a curator would require a defined time to lock up the tokens - the suggestion is one (1) month. This would instill confidence in the curator in the immediate and short term future, and can be renewed or reclaimed at the end of

the period. Note that using tokens to curate is not a dispensary action, and the tokens are always returned to their owners.

- Token holders can bond their tokens to specific curators under specific projects. For example, a token holder may trust Alice as reputable under the 'Smart Factory' project, but not necessarily under the 'Hyperloop' project.
- Collaborators ("Cognitive Suppliers") to the rLoop Network will have their work accounted for on-chain, creating a "Proof-of-Cognition" system that eliminates reliance on social proof. Collaborators will be able to build a reputation and personal portfolio of contributions that is auditable and immutable.
- The awareness that connecting a token to a curator in the community creates an organic 'reward and recognition' process for the rLoop Network which appreciates dedication and talent across peers.
- A technical bounty system incentivises certain tasks and challenges related to projects.
- Cognitive Suppliers earn a reputation for tasks completed and are therefore more likely to receive bonded tokens from token holders. The value to the token holder in bonding to a reputable Cognitive Supplier is effective curation, which will serve to increase attention on the network.



1. <https://en.wikipedia.org/wiki/Reddit>

rMotivation

Humanity's progress has been driven by scientific and technological innovation. Traditionally, investments in innovation have come from government or corporate interests. Centralised research programs have led to revolutionary technology, but the investment pace has slowed dramatically over the past four decades as traditional investors seek targeted research that can be quickly converted into profits. This shortsightedness has resulted in an innovation bottleneck, where technologies that can have incredible impact on humanity have been impeded or entirely ignored.

There is no shortage of talent and passion in the global workforce. This talent largely goes untapped as existing Organisational structures cling to antiquated concepts of personal motivation which have been shown to actually inhibit performance, creativity, and drive.

Furthermore, opportunities to participate in innovative projects have become increasingly geographically localised (i.e. Silicon Valley in the USA, Shenzhen in China, Suwon in South Korea, Geneva in Switzerland, and Waterloo in Canada). The result is a global acceptance of the status quo, resulting in an artificial limitation on the success of a person, an organisation, and society.

"Our future depends on maintaining and increasing our rates of innovation."

- Ramez Naam, The Infinite Resource

The rLoop Network of Minds connects globally distributed talent and resources with historically localised opportunities in pursuit of radical breakthroughs for the benefit of humanity.



We believe
the world's biggest
problems are the
biggest opportunities

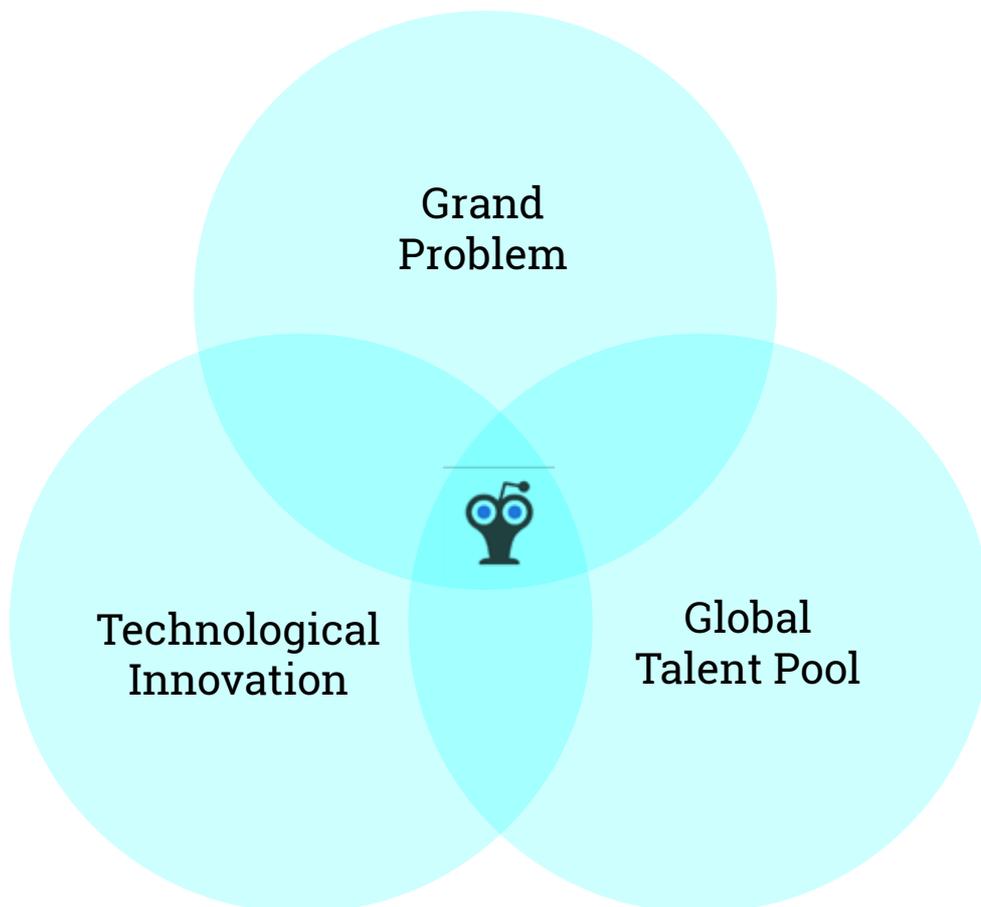
Technological Innovation Drives Economic Growth

One of the most consistent findings in macroeconomics is the growth that innovation drives - and this has remained true for centuries. In the U.S., economists have calculated that approximately 50% of annual GDP growth is attributed to increases in innovation.² There is also a clear statistical link between innovation and gains in the standard of living.³

Support from government for R&D spending is critical to innovation, as governments can sponsor the kind of basic research projects that seek wide-ranging scientific understanding that can affect entire industries. Private sector firms prefer to focus their R&D on “applied” projects, where they can capture the entire payoff. Their role is not to undertake broad R&D for the general benefit of humanity.⁴

The U.S. federal government played a critical role in financing the basic research underlying earlier innovations such as computing equipment, the internet, GPS, and “space age” materials. Much of this occurred through direct research at government agencies such as NASA, as well as funding provided to universities. But, to highlight the extent of the issue globally, the FSA shows that U.S. government investment in R&D as a percent of GDP has declined from a high of 2.2% in 1964 to 1% today.

The private sector has also shied away from funding basic research, which is critical to true breakthroughs - less than 5% of the R&D performed by companies is in basic research. The declines have been notable in industries such as healthcare, which are less able to protect their intellectual property rights in global markets.



2. <https://www.uschamberfoundation.org/enterprisingstates/assets/files/Executive-Summary-OL.pdf>

3. <http://www.goldmansachs.com/our-thinking/archive/archive-pdfs/gsr.pdf>

4. <http://brook.gs/2hHm0i4>

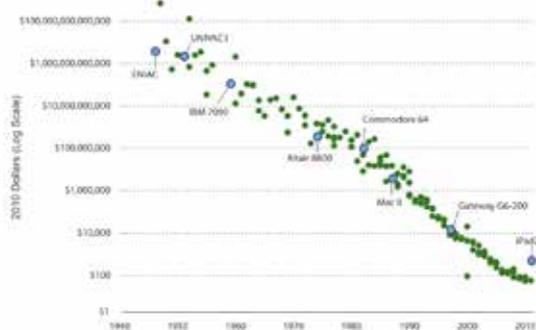
Innovation Makes Technology Accessible

Today we have the ability to access almost all of the world's knowledge in our pocket, and the cost of computing power to consumers continues to plummet.

"You live in a world where an entire operating system can fit on a wafer thin piece of plastic smaller than your finger tip [sic]. And you can run this on a \$5 (or \$10) computer that is small enough to give away on the cover of a magazine. You should be amazed, excited, and happy about this." ⁵

Innovation is not limited to technological discoveries - innovations to process and organisation increase efficiency and productivity. Over the past few decades, retailers have innovated to streamline their supply chain and require less work to achieve higher output. The benefits, to some capacity, flow to consumers through lower prices which typically benefit low-income households who spend more of their income on basic necessities.

FIGURE 3.
Cost of Computing Power Equal to an iPad 2



Credit: Michael Greenstone and Adam Looney
<http://brook.gs/2hHm0i4>

The Innovation Bottleneck

Despite all of this, traditional corporate structures have demonstrated a complete disregard towards discovery and innovation. One study, aptly named 'Killing the Golden Goose' ⁶, found that the number of publicly traded companies publishing research in scientific journals has dropped nearly two-thirds from 1980, down to only 6%. The study states:

"Large firms appear to value the golden eggs of science (as reflected in patents) but not the golden goose itself (the scientific capabilities)."

Scientific advances and acknowledgement may earn a company prestige but does not always result in profit, and difficulty in exploiting technology dissuades traditional investors from opening their pockets.

"...people who might have become scientists, who in another age dreamt of curing cancer or flying to Mars, today dream of becoming hedge fund managers." ⁷

A study on the negative relationship between the rate of growth of the financial sector and the rate of growth in total factor productivity found that the finance sector attracts high-skilled workers from other industries. The finance sector then lends money to businesses, but favours firms that have collateral they can pledge against the loan. This usually means builders and property developers. Businessmen are lured into this sector rather than into riskier projects that require high R&D spending and have less collateral to pledge.

5. <https://learn.adafruit.com/raspberry-pi-zero-creation/install-os-on-to-sd-card>

6. <http://www.nber.org/papers/w20902.pdf>

7. <https://www.bis.org/publ/work490.htm>

The Disengaged Workforce

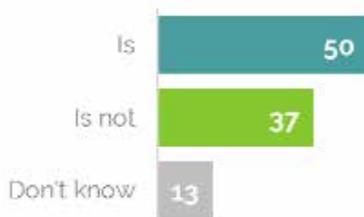
A 2015 poll in the United Kingdom revealed 37% of people believe they have a job that is “utterly useless” and which makes no meaningful contribution to the world, and 33% do not find their jobs personally fulfilling.⁸ In a 2013 survey of 12,000 professionals by the Harvard Business Review, half said they felt their job had no “meaning and significance,” and an equal number were unable to relate to their company’s mission. Another poll among 230,000 employees in 142 countries showed that only 13% of workers actually like their job.

If we want to truly unlock the human capacity for innovation, we need to radically rethink how people work together and the very definition of “work” itself.

Meaningless labour

% of British working adults

Is your job making a meaningful contribution to the world?



To what extent do you find your job personally fulfilling?

Very Fairly Not very Not at all DK



YouGov | yougov.com

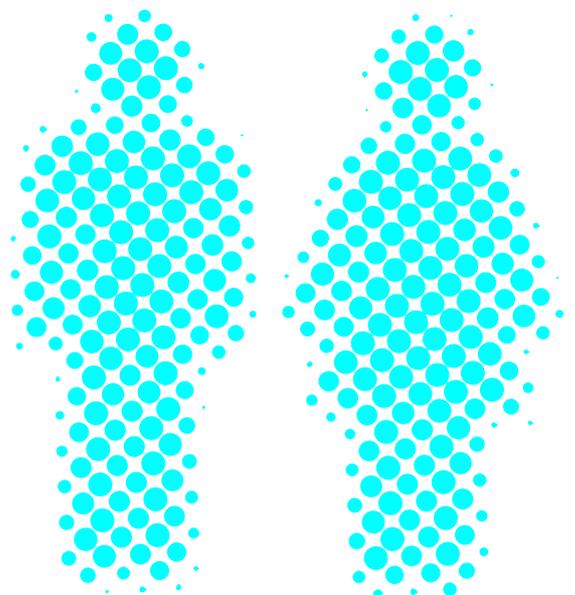
Aug. 10-11. 2015

The Rise of Bullshit Jobs

“The thought occurred to me that if one wanted to crush and destroy a man entirely, to mete out to him the most terrible punishment ... all one would have to do would be to make him do work that was completely and utterly devoid of usefulness and meaning.”

- Fyodor Dostoyevsky, The House of the Dead

In 1930, John Maynard Keynes predicted the working week would be drastically cut to 15 hours, with more leisure time being enabled through rising living standards and technological advances satisfying material needs.⁹ However, a recent report comparing employment in the US between 1910 and 2000 showed that, while the number of workers employed in industry and in the farm sector has collapsed dramatically, professional, managerial, clerical, sales, and service workers tripled, growing from one-quarter to three-quarters of total employment. As Keynes predicted, productive jobs have largely been automated away but, rather than allowing a reduction in working hours to free the world’s population to pursue their own projects and passions, the administrative sector has ballooned up to and including the creation of whole new industries like financial services and telemarketing, or expansion of sectors like corporate law, academic and health administration, human resources, and public relations.



8. <https://yougov.co.uk/news/2015/08/12/british-jobs-meaningless/>
9. <http://www.econ.yale.edu/smith/econ116a/keynes1.pdf>

Geographical Localisation of Opportunities

Opportunities for an individual to participate in high technology have become increasingly geographically localised (i.e. Silicon Valley in the USA, Shenzhen in China, Suwon in South Korea, Geneva in Switzerland, and Waterloo in Canada). Relocating to these tech hubs requires substantial investment and sacrifice for an individual, and creates a barrier between an organisation or project and the global pool of talent. Even in the case that an individual can relocate, participation for them is still far from guaranteed.

The rLoop Network enables anyone, anywhere, at any time, to participate in the development of potentially world-changing technology. It is designed to encourage participation at an intrinsic level, where the passion and interests of an individual overlap. It removes geographical barriers to individuals and opens up an entirely new and previously untapped workforce.

Is There a Science to Innovation?

For almost three years rLoop has mobilised and incentivised a globally distributed community to develop Hyperloop technology. We organically organised and evolved to optimise the strengths of a diverse and largely virtual team, as well as to identify and mitigate associated challenges. Throughout, we tracked and measured every process. Our research and practical findings indicate there is indeed a science to innovation, and that the process is repeatable. And our findings are not unique.

A study published in the Harvard Business Review¹⁰ examined five years of data from over 150 companies covering 3.5 million participants. The key variables they identified that drive innovation largely resonate with our experience:

More Participants - A large group of participants will always out-ideate a small group of smart people. This concept is known as the 'Wisdom of the Crowd'. But a homogenous group will trend towards consensus, which is undesirable and detrimental to innovation.

Greater Diversity - The greater the diversity within the crowd, the more depth and resilience of the solutions produced. We benefit from participation and engagement from a diversity in age groups, nationalities, genders, geographical locations, education, experiences, and more. However, it is important that there is no consideration to individuals based on these diversities.

More Ideas - To really foster an ecosystem of innovation, more opportunities for individuals to propose solutions is needed. If an individual is challenged frequently they remain engaged and offer more and higher quality contributions. But offering solutions to challenges is only one component of the collaborative process.

More Engagement - Beyond just providing solutions, a large and engaged community Scrutinising and discussing ideas in the pool will naturally identify and evolve the best ideas. This allows the community to identify the most actionable ideas at a steady pace.



10. <https://hbr.org/2017/10/data-from-3-5-million-employees-shows-how-innovation-really-works>

rVision

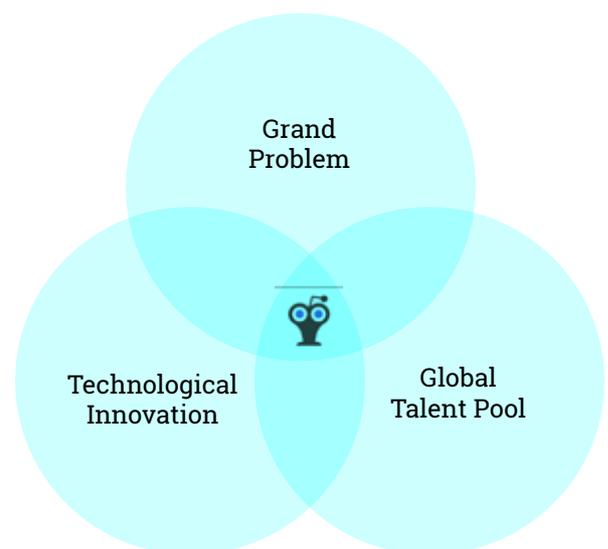
rLoop is a globally distributed and crowdsourced innovation community. Our mission is to develop and launch innovative technology in a decentralised manner, fueled by a desire to improve the world and humanity. The rLoop Network facilitates the collaboration of global talent and resources on opportunities that have historically been localised, enabling anyone to contribute to potentially world-changing technology. Our intent is to harness and incentivise the human capacity for innovation.

rLoop believes innovations in technology will allow humanity to make exponential societal, economical, political, and cultural advancements. We believe that for radical innovations to be truly radical, they must be decoupled from profit motives.

We believe there is a better way for people to work together, driven by an evidence based approach to personal motivation. Collaborators on the network are unimpeded by Organisational barriers, can invest their time on projects that ignite their passions, and can develop skills through educational opportunities, hands-on work, and networking with other collaborators.

The world's biggest problems are the biggest business opportunities.

We are creating the network to democratise high technology, and we've already started with the Hyperloop.



rTrack Record

rLoop has demonstrated success with our award winning Hyperloop designs, our Hyperloop prototype pod, and our growing community of collaborators. Since our founding in 2015, rLoop has attracted over 1,200 collaborators from more than 50 countries, successfully self-funded the manufacturing of our prototype pod, and won multiple awards including:

- “Best Non-Student Hyperloop Design” from SpaceX at World’s First Hyperloop Design Competition
- “Best Hyperloop Design, Drama, and Excitement: Best Architectural Design and Presentation” from BuildEarthLive, Asite, and the Dubai Future Foundation
- “Next Big Thing” from Basware and IndieGoGo
- “Innovation Award” from SpaceX at World’s First Hyperloop Pod Competition

Our communally designed and manufactured hardware has also achieved numerous firsts in the Hyperloop space, including:

- First Hyperloop prototype vehicle with pressure vessel capable of supporting human life, holding 1 bar when tested at 1% atmosphere in a vacuum chamber
- First Hyperloop vehicle levitating in place at partial vacuum, tested at 1% atmosphere in a vacuum chamber
- First Hyperloop vehicle levitating independent of a Hyperloop tube
- First engineering system entirely designed and built by the crowd

rTeam

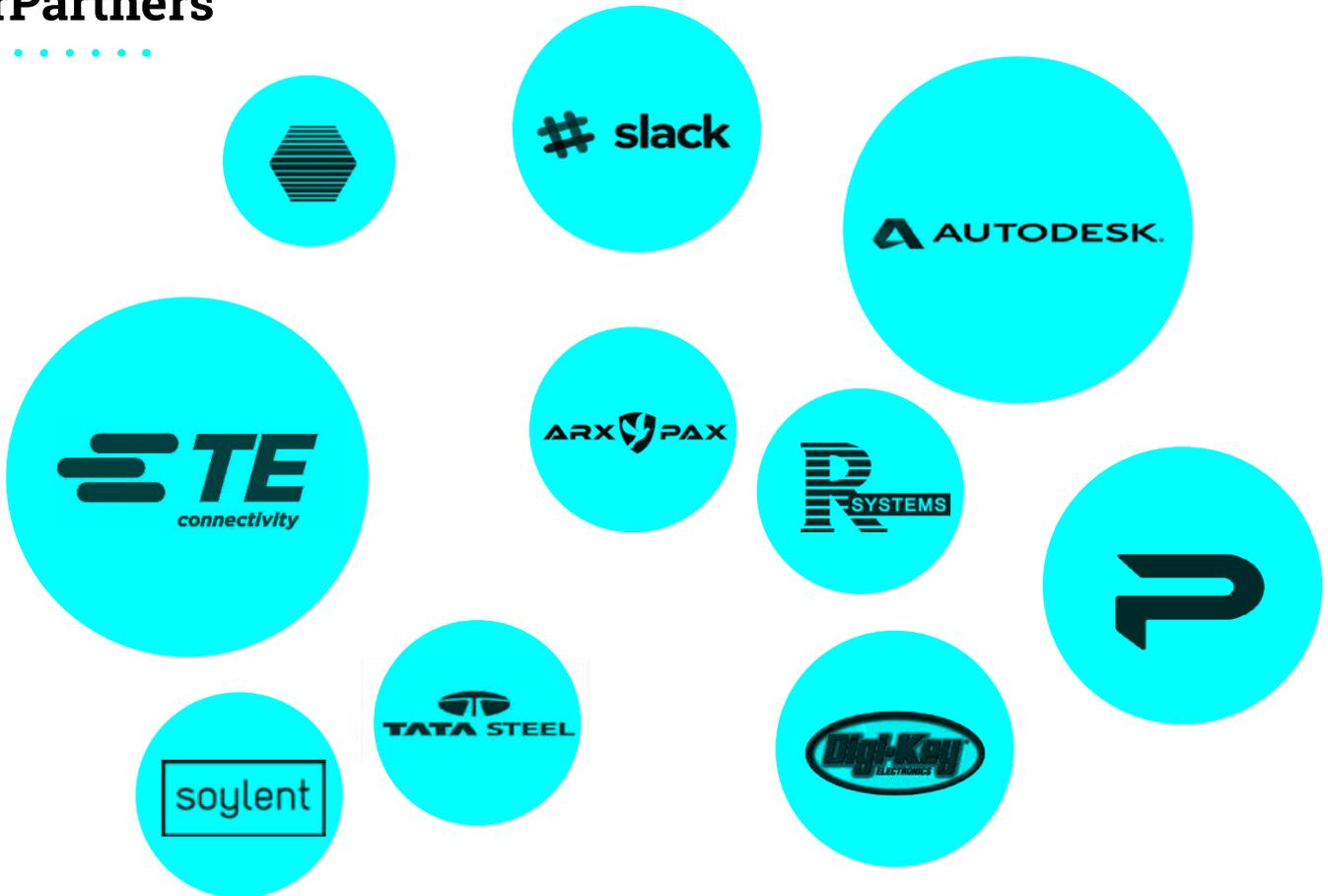
rLoop was born on reddit¹¹ when a handful of redditors answered a challenge from Elon Musk and SpaceX to reimagine transportation when the Hyperloop Competition was announced in June of 2015. Today, over 1,200 people from more than 50 countries have rallied behind the rLoop concept. This community is diverse in geography, education, experiences, and interests. We are united in a belief that together we can create a better world for humanity through innovations in technology.

(note: team list to be populated after consultation & approval from members)



11. <https://en.wikipedia.org/wiki/Reddit>

rPartners



rPress



- www.cnbc.com/hyperloop-creators-of-elon-musktransport-system-prepare-to-compete
- www.wired.com/insider-insights-collaboratingtomorrows-fast-lane/
- www.spectrum.ieee.org/cars-that-think/activelevitation-championed-by-rloop-in-thisweekends-hyperloop-competition
- The Economist: <https://www.youtube.com/watch?v=lWo6LscqSGg>
- motherboard.vice.com/meet-the-redditors-whodesigned-a-hyperloop-pod
- www.engineering.com/rLoop-Uses-Fusion-360-to-Become-a-Finalist-in-SpaceXs-Hyperloop-Pod-Competition
- blog.colony.io/visions-of-the-future
- www.forbes.com/crowdsourcing-the-hyperloophow-a-group-of-redditors-are-taking-on-elonmusk
- evonews.com/tech-science/2017/reddit-basedteams-rpod-wins-hyperloop-award-the-storybehind-rloop/
- uk.businessinsider.com/rloop-pod-designed-bystrangers-from-reddit
- twit.tv/shows/twit-live
- http://www.wired.com/the-future-is-here-rloopepisode-
- www.wired.com/its-going-to-be-worth-it/rloopepisode-
- www.prnewswire.com/r-systems-sponsorsrloop-team-as-part-of-spacex-hyperloop-podcompetition
- www.digikey.com/en/blog/rloop



rAdvantages



rLoop constantly strives to adopt the best tools to enable our community. Developing a strong community foundation based on emerging blockchain technology brings many advantages previously not available. The below is not an exhaustive list!

Wisdom of the Crowd

The rLoop Network connects the world as never before possible, empowering community collaborators with experienced support and guidance to create the most dynamic and effective network of minds.

Expert Knowledge

Cognitive science has shown that engaging both experts and collective groups are the most effective. This has proven to be superior to Centralised alternatives. rLoop combines experienced engineering experts, processes and procedures, and an involved and engaged community in the innovation process. This works to provide a balance of analytics, integrity and prudence, all of which contribute to the overall success of the ecosystem.

International Community

rLoop is a global platform that aggregates distributed talent interested in joint innovation. This model enables participation from individuals who have local cultural experience and/or industry expertise. rLoop enables innovation through effective resource allocation in all phases of project development, encouraging experts, project leaders and the community to invest and participate in a role that advances the development of a particular project.

Innovative Organisational Processes

Our global and community-focused model eliminates social biases, political ideologies, and traditional economic beliefs - preconceptions which can negatively influence innovation.

Open and Transparent

Community driven oversight accompanied by open and transparent policies allow for increased agility, decreased overhead, greater compliance and accountability, and eliminates reliance on external agencies.

Total Autonomy

The rLoop Community has total autonomy over their contributions. The rLoop Network encourages self-direction and participation at the intersection of your passions and interests.

Skill Development

Self-guided participation within the network coupled with open access to the community knowledgebase allow contributors to develop skills in a real-world environment. Passively, community members can learn through doing by participating in challenges and related tasks as well as through networking with other community members. Education through tutorials and webinars exist to directly accelerate learning in a specific field.

Purpose Driven Work

The focus of the rLoop Network is on innovative engineering projects with potential for positive global impact. These strides are achieved in a decentralised manner with a view to implement in the most impactful manner possible.

Immutability and Auditability

The work performed by Cognitive Suppliers and the rLoop Network of minds as a whole is recorded on-chain, creating an immutable and auditable ledger of work performed and knowledge accrued.

Milestone Based Resource Allocation

A project resource allocation model based on milestones and community consensus enables efficient and transparent distribution of network resources and funding.



rNetwork

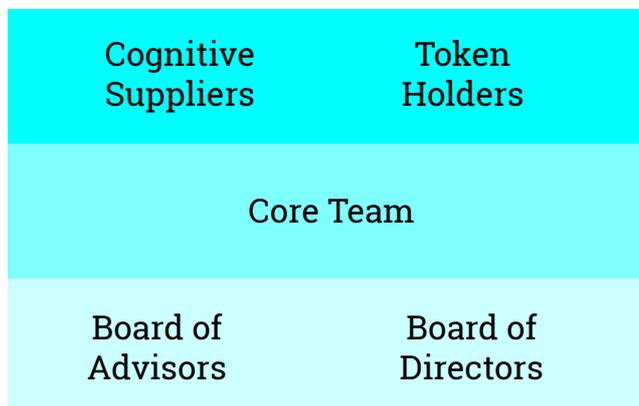


Overview

The rLoop Network is designed to enable individuals to identify and participate in challenging technology projects that are strongly aligned with their talents and interests, as well as participate in governance of the network as a whole. The rLoop Network will have off-chain support for managing projects, challenges and competitions according to a standard but adaptable process, and on-chain smart contract systems as a ledger of challenges, solutions, and collaborator reputation. The rLoop Token can be used to signal support for proposals, act as incentive for collaboration through bounty system, and grant participation in governance issues. Potential token functionality is expected to expand as the network develops and grows.

rLoop Community Roles

Cognitive science has shown that engaging both experts and collective groups are more effective than Centralised alternatives. The rLoop Network is designed to decentralise development of innovative engineering projects that have the potential for positive global impact, as well as to promote and excite interest in STEM related fields. rLoop mitigates the risk of early stage R&D by leveraging an untapped global pool of talent and resources, harnessing the wisdom of the community, and facilitating and optimising amorphous group coordination. The network enables individuals to identify and participate in challenging technology projects that are strongly aligned with their talents and interests, while an experienced Board of Directors, Advisors, and Core Team of engineers provide structure, engineering processes, experience, and guidance.



Board of Directors

The Board of Directors is a co-operative model, making consensual decisions as a group of peers. There is no formal hierarchy and no one individual has power over another. They are charged with the development, growth, and promotion of the rLoop Network and the projects that operate on the network, and are responsible to the rLoop Community. Each member is equally committed to the organisation and willing to take responsibility for the actions of the whole board. Members of the board cover a diverse skillset and are well acquainted with the history and values of rLoop. The Board can form committees or Teams to perform duties related to human resources, fundraising, finance, planning, programs, and more.

Board of Advisors

The Board of Advisors serve as the primary resource for the Board of Directors, Core Team, and rLoop Community to turn for help and advice. Members of the advisory board are trusted individuals who offer professional skills and talents to the organisation. Advisory board members have established expertise or credentials in a relevant field. They should also increase rLoop's credibility, fundraising efforts, and public relation efforts.

Core Team

The Core Team consists of high calibre individuals with cross-disciplinary skills and demonstrated track record for developing and executing engineering projects (from concept through to launch). Starting with a small team, the Core Team will bring their expertise and experience to rLoop with a view to establish rLoop as a reputable and powerful engineering organisation. They are responsible for driving development of community curated engineering projects, providing structure, and fostering positive processes and practices (from sound technical design approaches to proper lab practices).

This team enables and leverages the rLoop community to the best of their ability, distinguishing crowd collaboration opportunities from work that will require internal development.





Cognitive Suppliers

A collaborator, called 'Cognitive Suppliers', is anyone, anywhere, at any time that volunteers their cognitive skills and abilities to solve challenges and perform certain tasks related to challenges. These are akin to 'miners' of Bitcoin or Ethereum.

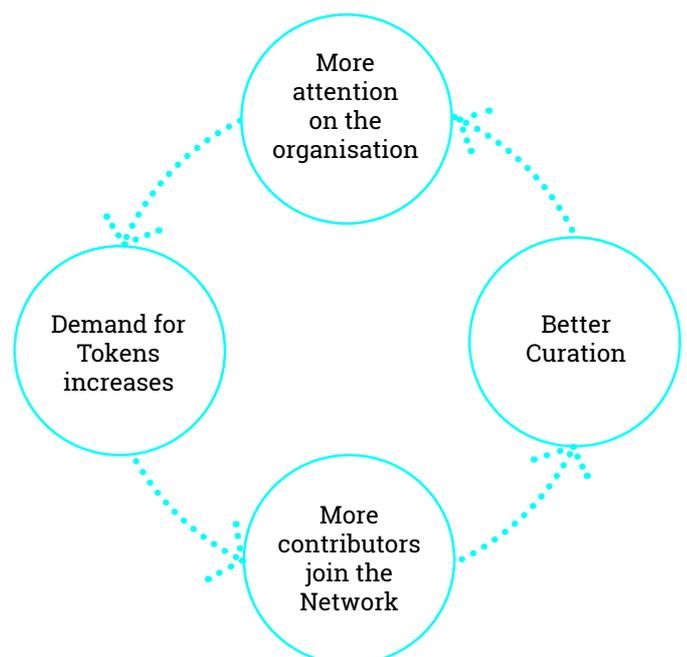
Cognitive Suppliers have self-determination over their participation in the network. They volunteer their skills and abilities in whatever capacity they desire without being forced by the network to fulfill a particular role.¹² The rLoop Network encourages participation at an intrinsic level - that is, at the intersection of a Cognitive Suppliers passion and interests. While this very well could be aligned with their existing employment or education, we find that many choose involvement outside of their current profession or beyond their existing cognitive skills and abilities.

A Cognitive Supplier largely responds to signalling from rLoop Token Holders and the core engineering team. This allows them to build a reputation within the network, which leads to potential for greater curation and signalling rights. All work performed by a Cognitive Supplier will be recorded and accredited on the blockchain, allowing an individual to build a personal and professional portfolio based on true 'Proof-of-Cognition' rather than social proof.¹³ This reputation mechanism, an on-chain ledger of work and proficiencies, is an integral component of the rLoop Network and a powerful incentive for Cognitive Suppliers. As collaborators participate in challenges and tasks which are attributed to them on-chain, their solution(s) become publicly indexed, immutable, and externally verifiable. Cognitive Suppliers can also earn bounties for challenges and tasks, depending on the nature of the task.

Token Holders

Token Holders signal support and curate information within rLoop. An rLoop Token is akin to an 'upvote' on reddit. This system is designed to allow creativity to flow and many voices to be heard, but to facilitate and optimise online coordination among an amorphous community. Tokens are not dispensed in the act of signalling or curating, rather they can be thought of as a 'bank of upvotes' that can be moved and managed freely among varying projects. Tokens remain in possession of the Token Holder throughout - the act of voting or signalling does not dispense the token. The tokens specific utility is their ability to represent the network and the ability of the network to facilitate coordination.

Token holders can also 'bond' their tokens to a specific community member whom they deem of significant reputation. This allows a token holder to encourage healthy and sustainable growth of the organisation by trusting another individual as being more knowledgeable and capable of curating, based on their history and reputation. A token holder wanting to bond their tokens to a curator would define a time frame to assign the tokens to a Cognitive Supplier - the suggestion is one (1) month. This would instill confidence in the Cognitive Supplier in the immediate and short term future, and can be renewed or reclaimed at the end of the period.



12. Note: The economics introduced by the rLoop Token do allow the network some methods to balance cognitive supply and demand.

13. https://en.wikipedia.org/wiki/Social_proof



rLoop Charity Board

The rLoop Charity Board is charged with oversight of the rLoop charitable distribution. The Board will consist of volunteers who are best placed to undertake the required due diligence on any potential beneficiaries as signalled by the community. They will also be tasked with ensuring the direction of funds is distributed appropriately. The Charity Board will respond to signalling from community members. A focus on STEM promotion and education is favored but not mandatory in order to be a beneficiary of the rLoop Network Charitable distribution.

Signalling & Curating

Token Holders signal support and curate information within rLoop. An rLoop Token is akin to an 'upvote' on reddit. This system is designed to allow creativity to flow and many voices to be heard, but to facilitate and optimise online coordination among an amorphous community. Tokens are not dispensed in the act of signalling or curating, rather they can be thought of as a 'bank of upvotes' that can be moved and managed freely among varying projects. They remain in possession of the rLoop Token Holder throughout. The tokens specific utility lies in their ability to represent the network and the ability of the network to facilitate coordination.

Token holders will also be able to 'bond' their tokens to a specific Cognitive Supplier whom they deem of significant reputation. Tokens may also be bonded to the Board of Directors, the Board of Advisors, or the Core Team. This allows a token holder to encourage healthy and sustainable growth of the organisation by trusting another individual or group as being more knowledgeable and capable of curating, based on their history and reputation.

The ability to bond tokens to specific curators under specific subtopics will be examined as well. For example, a token holder may trust Alice as reputable under the 'Software Engineering' subtopic, but not necessarily under the 'Mechanical Engineering' subtopic.

A token holder wanting to bond their tokens to another member would define a time frame - the suggestion is one (1) month. This would

instill confidence in the Cognitive Supplier in the immediate and short term future, and can be renewed or reclaimed at the end of the period. Bonding will also act as a mechanism to 'lock up' tokens as they will not be transferable while bonded.

Governance

The sustainable and continued growth of the rLoop Network as a decentralised innovation platform will rely on signalling and governance from the network community. Decisions regarding network operation, project adoption and maturation, resource allocation, charity distribution and recipients, as well as future token releases are some of the ways in which rLoop Token Holders can participate, and we anticipate further participatory opportunities to arise as the network develops.

In order to remain flexible to the needs of the network and the projects, the rules for pledging on proposals shall be created on a per proposal¹⁴ basis. In similar fashion to the Digix DAO¹⁵, rLoop members of different participatory levels will have different functions within the governance mechanism. The intent is to balance the process and mitigate action from malicious actors. Only rLoop members who have successfully completed the KYC process¹⁶ will be able to participate in matters of governance.

Community Role	Propose Directly	Submit Proposal for Vetting	Vet Proposals	Pledge on Proposals
Board Member	✓	✓	✓	✓
Cognitive Supplier	x	✓	✓	✓
Token Holder	x	x	x	✓

While we have experience and testing with this style of decentralised governance, the rLoop Network must not be rigid to change and should always reflect the needs and desires of the community. Ultimately the network will move towards entirely decentralised governance, in a logical and community-vetted manner.

14. Much research and code exists to facilitate a variety of rules, such as those found on the Boardroom.to github: <https://github.com/boardroom-project/boardroom-contract>

15. <https://bravenewcoin.com/assets/Whitepapers/digixdao-info.pdf>

16. Details to follow subsequently, to be found on the rLoop website: <http://rloop.org>



Bounty

rLoop employs a network bounty system. A bounty is earned for successfully solving challenges and/or performing certain tasks related to projects on the network. The bounty can consist of, but is not necessarily limited to, a quantity of rLoop Tokens. The Cognitive Supplier(s) solving the challenge or carrying out the task has their contribution recorded on chain, receives the associated bounty, and earns reputation within the network. Note that not all challenges or tasks performed by the community require a bounty (such as Peer Review). These instead would be reputation building opportunities.

In order for a problem/task to become bounty eligible, that problem/task must have a minimum of the following defined:

- e = Specific desired outcome
- r = Bounty value (in rLoop Token)
- t1 = Bounty duration time (in s)
- t2 = Peer review duration time (in s)
- t3 = Time between m1=true and t1 commences (in s)
- m1 = Minimum collaborator size
- m2 = Maximum collaborator size
- ma = Actual collaborator size
- f = Bounty participation fee (in rLoop Token)

The collaborator size will be dependent on the challenge/task, but generally should be no fewer than three ($m1 = 3$) and no more than five ($m2 = 10$).¹⁷

In order to mitigate a situation where collaborators either overextend themselves or volunteer for numerous teams but input minimal work and claim a wide distribution of bounties, a Bounty Participation Fee (f) is required to participate in a bounty. Cognitive Suppliers wanting to collaborate on a challenge/task must submit a fee of rLoop Tokens to be held by the smart contract until the completion of the problem/task at which time the

fee is returned. This works to demonstrate the confidence of collaborators to solve a particular challenge/task and limit the potential for Sybil attacks.¹⁸

Once $m1 = true$, then there is a set amount of time (t3) to allow for the possibility that $m2 = true$. If t3 lapses and $m2 = false$, then t1 begins (at which point no further Cognitive Suppliers can be added to the challenge/task). Should $m2 = true$ before $t3 = 0$, then t1 begins and no further Cognitive Suppliers can be added to the challenge/task¹⁹. This time allocation should be of a reasonably sufficient period for the particular task - too long will reduce value to the project and organisation, and too short will disincentivise potential Cognitive Suppliers.

When a Cognitive Supplier(s) indicate a challenge/task is complete, a second phase for Peer Review opens, defined by t2. rLoop Token Holders can review the work and either deem it complete or incomplete and provide specific feedback. In the current model an element of trust is introduced by the Peer Review system. Cognitive Suppliers need to trust that the Core Team or rLoop Token Holders reviewing their solution are both capable of adequately understanding and testing the solution, and are not acting maliciously (in a situation where the reviewers can see the solution but deny the approval to prevent the bounty from being distributed). The Core Team and the rLoop community are trusting the contributing Cognitive Supplier(s) in that they are not using any alternate means to sway Peer Reviewers to their support.

To mitigate potential for Cognitive Supplier(s) to generate multiple accounts with aim to review and approve their own work, only members who successfully complete the KYC process²⁰ can participate in the bounty system. The same is true for members qualified for Peer Review. There are inherent incentives for good behaviour that will be discussed in the Reputation section, and other methods are being analysed to reduce or eliminate the need for trust and to mitigate potential attacks.

17. "Groups of three, four, or five perform better on complex problem solving than the best of an equivalent number of individuals". <http://www.apa.org/news/press/releases/2006/04/group.aspx>

18. https://en.wikipedia.org/wiki/Sybil_attack

19. While situations can be foreseen where a Cognitive Supplier may need to be added or removed from a Smart Contract, that is not within scope of this paper.

20. Details to follow subsequently, to be found on the rLoop website: <http://rloop.org>



When a challenge/task is indicated complete during the Peer Review period, the members of the team will be dispersed the bounty proportional to their participation in solving the challenge/task, where the baseline would be:

$$\text{Distribution} = (\text{rma}) + f$$

Should a Peer Review correctly deem the work incomplete and provide actionable feedback, they will be allocated a small percentage of the bounty. If a Peer Review deems the work incomplete but the team can adequately defend against the claim, no percentage of the bounty is distributed outside the contributing team.

This bounty system accomplishes several goals:

- Incentivise work on a problem/task
- Encourage high quality output from the team, requiring solution to be adequately defended
- Incentivise Peer Review of proposed solutions
- Reward rLoop Token Holders for correctly identifying issues with the solution and providing specific feedback to the team
- Discourage false/incorrect claims against the solution

Reputation

One of the benefits of introducing a bounty and rLoop Token for the network is to allow Cognitive Suppliers to develop a Reputation. Volunteers can build a personal and professional reputation based on true 'Proof-of-Cognition', rather than relying on social proof.²¹ The rLoop Network features an immutable and auditable record of the work performed by each Cognitive Supplier, allowing them to:

- Establish auditable expertise
- Build an immutable portfolio of cognitive work
- Network with collaborators of shared expertise
- Identify and network with Cognitive Suppliers in a sector of interest

This reputation mechanism is an integral component of the rLoop Network, with on-chain ledger of work and proficiencies acting as further incentive for Cognitive Suppliers. As collaborators participate in challenges and have their solutions attributed to a smart contract, it becomes publicly indexed, immutable, and verifiable externally.

In the first implementation of the network, the Reputation mechanism is expected to be basic, with tags assigned to challenges and tasks that are added to a members profile upon completion. As the network grows and expands, depth to the Reputation system will be added in the interest of the Cognitive Supplier.

Peer Review

In the current model, a modest percentage of the bounty is dispersed to a community member who performs peer review and quality assurance on submitted solutions. They will also add Peer Review qualification to their reputation. It is in the interest of all rLoop community members for a rigorous and thorough quality assurance method to be adhered to, as the quality of the work output will have direct impact on the success and growth of the community. As we test and implement the network, further dynamics that incentivise Peer Review will be introduced. A member wishing to participate in the Peer Review process will be required to complete the KYC process²².

21. https://en.wikipedia.org/wiki/Social_proof

22. Details to follow subsequently, to be found on the rLoop website: <http://rloop.org>



Projects

The process of maturing a project on the rLoop Network consists of several phases, all of which can operate simultaneously on multiple potential projects. While the process is not always linear and must remain flexible to the needs of each individual project, we've worked hard for more than two years to establish a repeatable framework founded in real-world data. The below is a purposefully-generalised overview of the process for maturing a concept through to project and prototype status.

Project Ideation

Ideas are submitted by or offered to the rLoop community for discussion and collaboration. They generally come in two primary forms: identifying a problem, or identifying a solution. At the Ideation stage, submissions can take any format - from a napkin sketch to a word document to detailed drawings. The submissions do not need to be well formed but a basic structure that can be added to must exist.

In order for Ideas to develop into a project on the rLoop Network, certain criteria should be met. This criteria list is not exhaustive, and not all of the below are required, but the more criteria satisfied the greater the chance of maturity to project status:

- Address a problem that exists in the world
- Potential to improve livelihood of significant number of people
- Technology-based solution to the problem
- Targets a range of market failures (i.e. no development ongoing, development exists but with unsatisfactory results, unawareness of the problem, problem is known but not being addressed, a solution is thought to be impossible, etc.)
- Inspire hope for a better future

Proposals and submissions are discussed and voted on by the rLoop Network. In similar fashion to 'reddit', ideas that generate much discussion and receive more votes will rise to the top and have greater opportunity to be matured to a project. This is meant to encourage network creativity and 'outside the box' thinking, as well as to align interests of cognitive suppliers with projects on the network.

Project Maturity

After a sufficient scrutiny period, an Idea can be matured by the network into a project for further development. A Project Board can be created (following established network protocol for Team formation) and the development process can be initiated.

The structure for the project will depend on the particular problem, the communities desired approach, and the Core Team's input, but generally: Systems are identified and specifications begin. Subsystems are identified for the specific project, which ultimately become 'parent teams' to encompass tasks relevant to their systems. The network is involved throughout the process to collaborate on project and system particulars. This process is ultimately designed to break down the macro into granular or 'bite size' pieces.

Subsystems

A necessary component of the project is the Subsystem. A Subsystem is a 'parent team' that encompasses challenges, tasks, and subtasks. Subsystems can be added and subtracted depending on the needs of the project throughout its lifecycle. A Subsystem is created by the Project Board based on the needs of the project and input from the network of minds. A Subsystem Board can be created (following established network protocol for Team formation), acting primarily as a repository of information pertaining to the Subsystem, as well as liaison to other Subsystem Boards and the Project Board.

Challenges/Tasks

Challenges and related tasks are created by Project and/or Subsystem Boards and used to solidify the direction of their parent subsystem. A specific outcome of the task is required, and a bounty can be assigned. A Team organically rallies around the challenge/task, consisting of Cognitive Suppliers who either select the Task from the network marketplace or are suggested the task based on their network reputation and previous contributions. A subtask can be created for tasks, depending on the needs of the task. If a bounty is assigned to the subtask, the value can be derived from the master task, sponsored by the Project and/or Subsystem Board, sponsored by rLoop Token Holders, or a combination thereof.





Subtasks

A Subtask is tied to a parent Task and created by the relevant Project and/or System Board. A specific outcome of the Subtask is required, and a bounty can be assigned. This value is either derived from the master task, sponsored by the Project and/or Subsystem Board, sponsored by rLoop Token Holders, or a combination thereof.

Teams

Teams organically form to solve challenges, tasks, and subtasks. Team collaborators create a reputation through their demonstrated proficiencies. In this way they build their reputation through 'Proof-of-Cognition' and grow their network identity.

A Cognitive Supplier is not limited to participating in a single team or task/subtask at a time. A quorum among the Team is required to agree on task completion. At initial implementation the bounty distribution will be uniform among team members, but in the future a potential option is for equitable distribution of the bounty relative to participation. A solution submitted by the Team is reviewed through the appropriate Peer Review/Quality Assurance protocol and, once verified, the bounty is dispersed automatically by the smart contract and any participation fee is returned.

Competitions

A competition is similar to a task with the following notable exceptions:

- A task inherently targets a solution, where a competition defines a problem and has no solution bias
 - No teams are formally organised within the rLoop network
 - A competition is open externally to the network
 - A bounty value of rLoop tokens is assigned to the competition, guidelines of desired outcomes are set, and a finite timeline is established.
- The competition needs to meet the following requirements:
- Audacious but achievable goal
 - Define a problem, not the solution
 - Tied to measurable goals
 - Finite but reasonable timeline
 - Clearly and easily explained

Using the competition mechanic, we can encourage innovation and creativity both internally and externally, and encourage groups of collaborators to form organically to solve problems through incentivisation. Because a competition is open externally to the rLoop Network, it provides an opportunity to earn rLoop Tokens without purchasing in an offering or through an exchange.

Manufacturing

Once a project or competition has matured to a satisfactory stage, a prototype can be manufactured and tested in one of our Microfactories. A Microfactory is a type of rapid prototyping facility with a focus on lean and efficient manufacturing, enabling small, local manufacturing ecosystems based on economics of production. This model allows us to minimise capital expenditures, reduce our physical footprint, intelligently manifest geographically, source locally, and leverage local small and medium-sized enterprises (SME's)²³. In order to permit collaboration of distributed rLoop members during manufacturing and testing, the development of remote mixed reality collaboration capabilities leveraging VR/AR technology and robotics is being developed by the rLoop network.

This technology will permit the collaboration in real time of the remote team of Cognitive Suppliers. This system will enable our distributed network to collaborate with local manufacturers as if everyone were in the same room, empowering the next generation of collaboration and exceeding traditional methods. An entire tangible prototype can be manufactured and assembled with minimal physical presence.

23. https://en.wikipedia.org/wiki/Small_and_medium-sized_enterprises

rToken

rLoop Tokens are designed to foster a decentralised ecosystem of innovation and community-focused collaboration, reimagining how amorphous communities can coordinate and challenging modern Organisational principles.

The Hyperloop, and other projects intended to operate on the rLoop Network, are cost intensive. We must develop the infrastructure to support hardware development: research & development facilities (“microfactories”), testing facilities, manufacturing capabilities, component procurement, scaled and full size prototypes, and much more. We must also develop all of the necessary software for the rLoop Network itself: user interfaces, network infrastructure, monitoring, and security, software support for third-party wallets and exchanges, and more. We must deploy the network, facilitate its growth to large scale, market to and onboard the Core Engineering Team, Cognitive Suppliers, attract key partners into the ecosystem, and more.

In order to propel development, rLoop will conduct a token genesis offering.

We hope to bring together a large and diverse group of individuals from around the world. We want individuals to work closely with us to build the most powerful network of minds. We want organisations from all over the world, who work in many different industries, who will work with and for the network. We want individuals who will add their skills, their knowledge, and their own networks to achieve long-term growth and success of the rLoop Network.

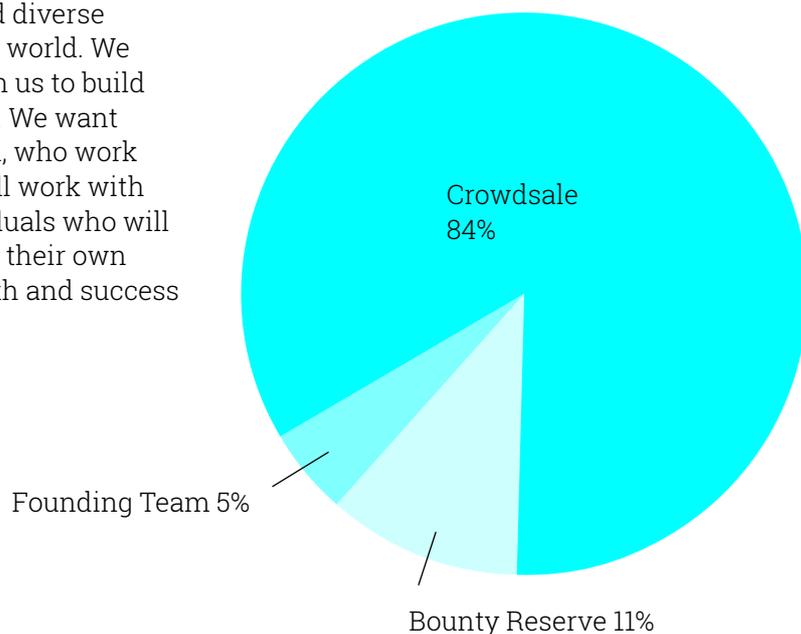
rLoop Token Genesis Allocation

There is a maximum lifetime supply of rLoop Tokens that will ever be created. This is set at 21,000,000 rLoop Tokens. During the rLoop Token Genesis, only sufficient tokens will be created to bootstrap the rLoop Network and the initial projects on the network. This is set at 3,750,000 rLoop Tokens. Any potential future token offerings will be subject to community and board approval.

Maximum Potential Lifetime Supply	21,000,000
Genesis Token Supply	3,750,000

The Genesis Token Supply will be distributed in three categories:

Token Genesis Offering	3,150,000
Bounty Reserve	412,500
Founding Team ²⁴	187,500



24, Note that the founding team allocation is subject to a vesting schedule as described later in this document.



rLoop Tokens will be released in a phased, project specific, and community-driven approach, with a milestone-oriented project resource allocation. The initial genesis offering phase is intended to launch and propel several ongoing projects, notably: the rLoop Network Community Platform, Hyperloop and Hyperloop-derivative technology, and establishing the first rLoop smart factories. Subsequently, as community-driven concepts develop to a mature project state, future token offerings can be held to support those projects. The specific nature of future offerings will be dependent on the needs of the individual project as well as consensus from the community. This will encourage milestone-based resource allocation, promote a focus on planning and process rather than capital collection, and mitigate a single person or small group from manipulating the community.

Following the end of the Token Genesis Offering, there is a rest period before the tokens are distributed. The rLoop Tokens are offered as a future token, to be thought of similarly as a forward contract - rLoop offers tokens ahead of time to the buyer (you). rLoop is then charged with building the network and delivering the tokens when the network launches. This also allows for action to be taken in the unlikely event of an issue during the offering.

rLoop Tokens allocated for the Bounty Reserve are locked and available only for bounty purposes, as described previously. These tokens can only be used for bounty purposes, and have no set timeline or expiration.

rLoop Tokens allocated for the Founding Team will be distributed equitably among the founding team and existing rLoop community, based on historical collaboration and participation. This is a one time token issuance. These tokens are subject to a vesting schedule as described later in this document.

Charitable Distribution

rLoop believes strongly in promoting and exciting future generations towards STEM education, as well as for the future of blockchain technology. To this end, an allocation of all funds rLoop ever earns is being distributed towards STEM²⁵ charities and the Ethereum Foundation. This distribution is set as follows:

STEM Charities	2.5%
Ethereum Foundation	1%

This percentage allocation, and the respective beneficiaries, can only be changed through signalling from the rLoop Token Holders. The rLoop Charity Board is charged with performing due diligence on chosen beneficiaries as well as facilitating appropriate dispensation of funds.

Founding Team Vesting

The rLoop Network exists thanks to years of work from a diverse and distributed community of volunteers. These historical community members will be equitably distributed a number of tokens out of the Founding Team allocation. The rLoop Network will continue to enjoy success and growth through the continued work and participation of this community. Long-term vesting will incentivise members to improve the network and continue to add value for years to come. The Founding Team allocation will be subject to the following vesting schedule:

At time of rLoop Network private launch, 30% of total Founding Team tokens will vest.

At time of rLoop Network public launch, a further 30% of total Founding Team tokens will vest.

One year after the rLoop Network public launch, 20% of total Founding Team tokens will vest.

In the years that follow, 5% of total Founding Team tokens will vest annually until all Founding Team tokens will have been released.

rLoop Token Genesis Offering

For details on the Token Genesis Offering, please refer to the Token Economics document to be found here or on the rLoop website: <http://www.rloop.org/>

25. https://en.wikipedia.org/wiki/Science,_technology,_engineering,_and_mathematics

rRoadmap



Overview

The creation of a detailed technical or business roadmap for the first years of the rLoop Network is a substantial undertaking. The below is an outline of some of the important milestones for the rLoop Network over the following few years, as well as initial discussions on long-term milestones. The path to innovation is never straight forward and the community will need to remain fluid, and this is taken into consideration.



rFuture



rLoop believes there is exponential opportunity in the nascent blockchain space, and want to play an active role in its future. Several areas of development would be of particular interest to the growth of the rLoop Network, and there are certainly others that remain to be identified.

Most notably, contracts and legal tasks are logical areas for on-chain management. Licensing and assigning Intellectual Property (IP) on-chain would be an ideal development for the rLoop community. Coupling this with ownership rights would enable developers of IP to earn a proportional stake in the value, and any exploitation, of the IP directly. Some work in this regard is ongoing, such as Mattereum,²⁶ working to bridge the digital-physical divide.

Another exciting potential opportunity exists in the integration of blockchain technology into the distributed manufacturing process. Some musings on this were recently made by Rob Thompson, a technology strategy consultant at Booz Allen Hamilton who worked on a blockchain case study for Airbus:

“Sensitive design data could be sent to any 3D printer in any country that wants to build Airbus’ 3D-printed parts, as long as it guarantees the quality and security standards as verified by the embedded smart contract. The same contract could enforce the immediate deletion of the data upon printing.”²⁷

As further analysis, development, testing, and favorable legal and regulatory environments continue, many opportunities aligned with the rLoop Network will become feasible. A constant view to identify, promote, and support growth in the blockchain space will be fostered by the rLoop Network.

26. <https://mattereum.com/>

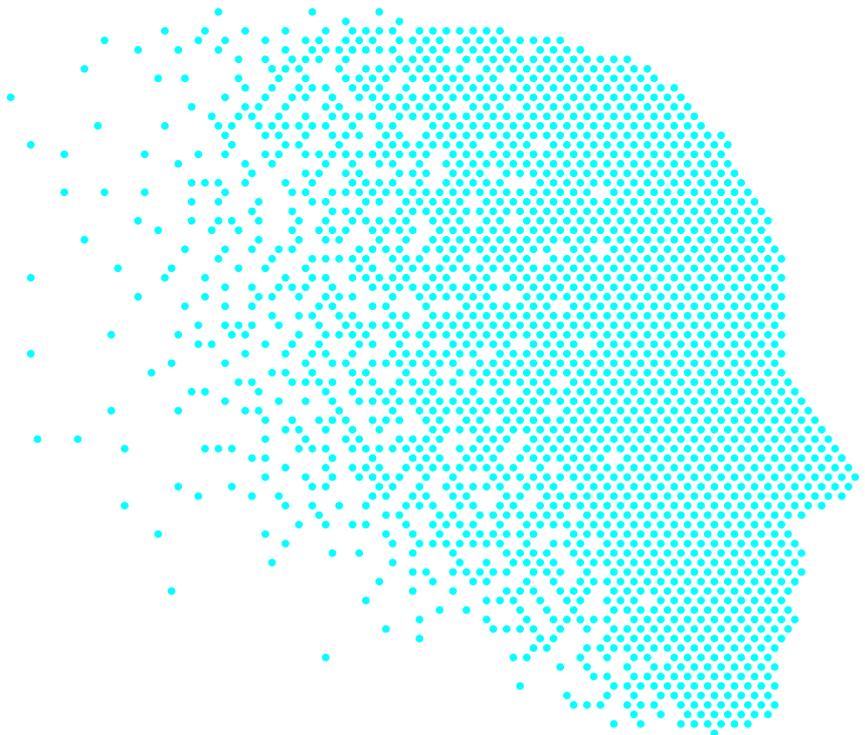
27. <http://www.airbus.com/newsroom/news/en/2017/03/Blockchain.html>

rConclusion

Humanity's future will continue to be driven by technological and organisational innovation. The rLoop Network is designed to decentralise high technology, allowing individuals with shared interests to coordinate around projects, curate information and proposals, and actively participate in the development of potentially world-changing technology. We can realise exponential societal, cultural, and economical advancements through technological innovation, and we believe the best way to achieve these goals is by making it accessible.

We are at the frontier of decentralised hardware development. We are connecting globally distributed talent and resources on historically localised opportunities. We are pioneering processes in collaborative virtual design and remote manufacturing. We are re-imagining how people work together, how they are recognised for their contributions, and how they are rewarded for their work. What is outlined above is based on our years of experience, but remains purposefully high level. The needs of each project will be unique, and we anticipate that as the community grows and collaborative technology matures the network will need to remain fluid and adaptive. Modularity is critical to sustainable growth.

When the untapped talent of millions of people has an outlet, the results are incredible. The rLoop Network is well situated to be at the forefront of technological innovation, and the global economy as a whole.



26. <https://mattereum.com/>

27. <http://www.airbus.com/newsroom/news/en/2017/03/Blockchain.html>

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This paper does not in any way constitute a disclosure document, a prospectus or any analogous paper designed to confer any promise of the future performance or value of the tokens to be issued, which are only intended to be used on the rLoop Network and its future platforms. No prospective participant should seek to acquire any token for speculative purposes or on the assumption or expectation of making an investment return.

All prospective participants must be aware that token generation events (including the rLoop token) could be severely impacted by future compliance and/or governance regulations, regulatory action and some jurisdictions have already imposed restrictions on the ownership, possession and transfer of such tokens. We accordingly reserve the right to alter, modify or vary the methodology, functionality or utility of the rLoop Token in order to take account of any statute, act of parliament, laws or regulatory requirements affecting the rLoop Limited, the rLoop token or the rLoop Network.

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