Quilt

"An Innovation Ecosystem"

Matt Lopes

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Quilt Thesis

The Problem

Solutions to the issues that currently plague the world require teams of highly skilled individuals across multiple disciplines; however current innovation practices are inefficient and non-inclusive:
- Traditional IP management approaches are not fit for a digital economy and cannot keep pace with the speed of innovation
- Access to knowledge and resources are systemically horded due to existing IP standards and monetization approaches
- Existing platforms that increase access inherently abuse users' content and lack quality standards due to their business models
- Open collaboration is inhibited by lack of trust between parties and risk of financial loss
- Current open-source innovation practices have monetization limitations

Quilt's Solution

Quilt is a vetted Web 3.0 social network, collaboration platform and marketplace that **enables open collaboration by making IP more composable**, bolting together IP as innovation occurs
- Register content and mint NFTs to represent ownership in real-time
- Manage content distribution using blockchain / tokens to maintain attribution when openly sharing with others
- Leverage AI to monitor infringement and connect users in a more meaningful manner
- An open marketplace enables users to access and leverage others' content, while monetizing their own
- Quilt's business model is aligned with its userbase, generating value by producing quality IP on the platform
- Maintain network quality through immutable identity and reputation
- Incentivize contribution and usership leveraging the Quilt native token, Idea Coin ("IDC")

Defining Trends

There are a number of market trends that support the Quilt thesis and demonstrate that such a platform has runway to succeed in the market
- Growing distrust for social networks and technology platforms due to lack of responsibility over content and user data abuse; evident by potential regulations
- Growing population who seek to create a better world; evident by young generations employment preferences
- Companies are already moving towards ecosystem-based value chains to meet the needs of the market and accelerate innovation
- Digitization of the economy is highlighting the need for a digital native way of managing IP ownership; creators are migrating to platforms that offer a means to monetize their efforts
- Advanced research, artificial intelligence, etc. require access to significant amounts of data to succeed which require partnerships across various entities

Market Validation

There are current platforms and protocols in the Web 3.0 market that validate our thesis; beginning with industries whose historical business models are heavily dependent on IP or have digital native products, however, we suspect this theme to permeate across sectors
- Protocols are leveraging NFTs and tokens to manage IP and open access to resources (STORY, Ocean Protocol, Molecule IP-NFT, VitaDAO)
- Platforms are using tokens to empower creators and increase their ability to monetize their efforts (Audius)
- NFT marketplaces have enabled the ability to facilitate royalties on NFTs (Foundation, Nifty Gateway, etc.)
- Web 3.0 networks have taken on Big Tech to return ownership to users (Farcaster, Lens Protocol), but lack the "purpose" Quilt has
- Switzerland and Singapore have enacted laws that allow tokens to represent ownership of assets
- Wyoming passed DAO LLC legal entity designation
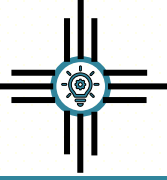
Teaser

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Quilt Innovation Ecosystem
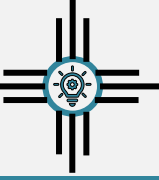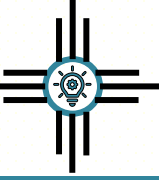
Creating a More Natural Innovation Environment

"The innovative environments of the future ought to leverage the technologies driving the innovation that they foster."

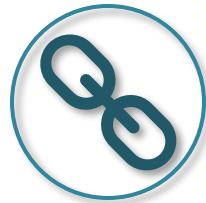# Quilt Innovation Ecosystem

What If?

What if you could openly share your ideas, data and research without the risk of infringement or loss?

What if you could ensure that novel ideas where not lost to the world?
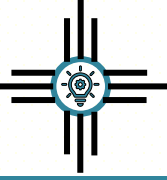
What if everyone had the resources to contribute to innovation or pursue their passions?

What if ideas and research could passively connect across disciplines and subjects?

Matt Lopes

Quilt Innovation Ecosystem

Spark Innovation & Create Change

Access — Find ideas, research, data, ventures and other causes to join by interacting with Quilt's archive, custom content stream, and marketplace
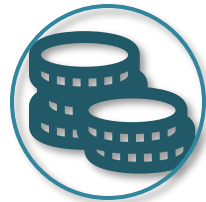
Action — Leverage Quilt's tools and resources to bring your aspirations to life whether it is a new venture, research or other worthy cause
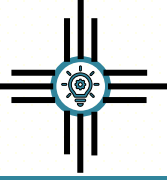
Connect — Safely connect with potential collaborators, content, capital, ventures, etc. to progress your or others' aspirations

Earn — Earn equity and native token for your efforts

Matt Lopes

Quilt Innovation Ecosystem

A Network with Purpose

Solutions to today's most critical issues require highly skilled teams across a multitude of disciplines. However, current approaches to innovation are plagued by significant inefficiencies and limitations. Quilt intends to reduce friction by leveraging the technologies that characterize "Web 3.0" and creating a more inclusive innovative ecosystem by breaking down traditional barriers.

Quilt is a vetted social network focused on the interconnectivity of ideas and the enablement of cross functional connections and collaboration while allowing users to maintain control over their own intellectual property / content. It is an intellectual playground for users to create new ideas & ventures, document research, publish content, join existing projects, gain feedback, promote their skills / project and find the resources necessary to bring their ideas to life. The Idea Marketplace will enable users to acquire, trade, and license interest in their early stage intellectual property.

Quilt brings innovation stakeholders to a single location, connecting users based on content & need throughout every stage of the innovation life cycle in order to ensure efficient & effective allocation of resources without limiting ownership over intellectual property.

Quilt Innovation Ecosystem
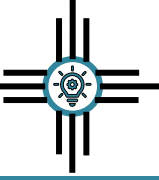
Take the first step, and start Quilting today
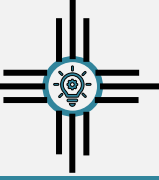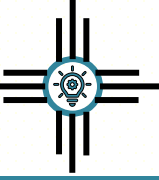
Executive Summary

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Quilt will optimize the benefits of open and closed innovation
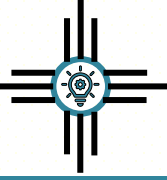
Historically the two primary drivers of innovation, economic benefit and technological progress, have been at odds with each other. Characterized by closed and open approaches to innovation, respectively, experts have debated which is a more advantageous method to driving innovation.

Quilt balances the two approaches by using modern technology to protect an individuals intellectual property (and therefore potential future profits) while at the same time bolstering knowledge exchange and access to resources via a peer network.

By bolstering the powerful incentives of closed innovation while maintaining the free flow of knowledge characterized by open innovation, Quilt will enable innovation at a rate unlike any existing platform.

Quilt balances the benefits of open and closed innovation by leveraging modern technology to create a new interaction model and change the way external parties transact with each other

Matt Lopes
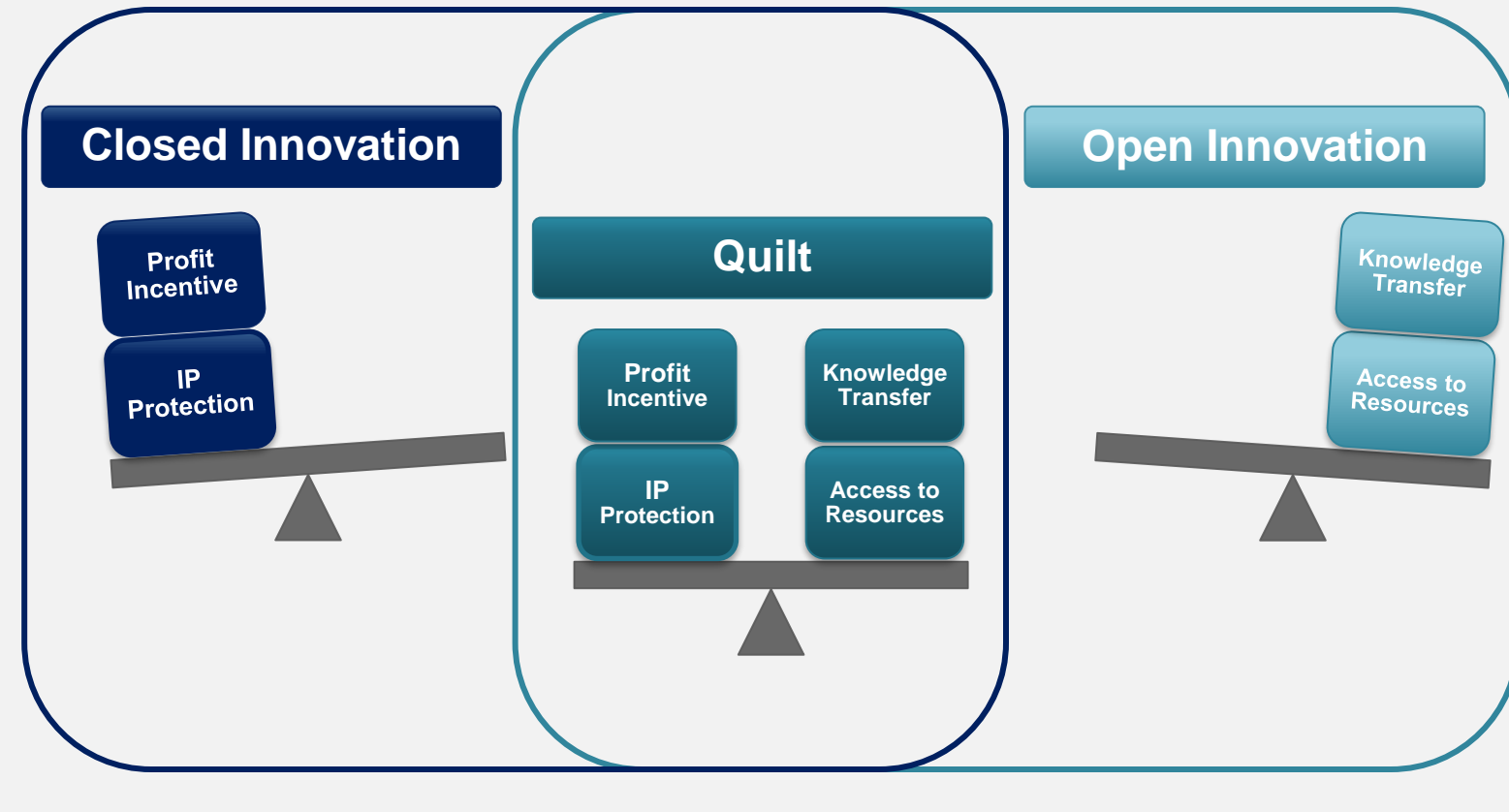
Quilt will leverage modern technology to improve upon the four pillars of innovation

Quilt leverages modern technology to remove inefficiencies from the current innovation landscape and improve upon the four pillars that drive innovation.

- Creating a network that promotes **"trustless trust"** and **protects personal attribution** through the use of AI and blockchain will enable ideas and information to **flow more freely** in a network of peers

- While existing networks **enhance access to information** and **improve communication** across parties, the underpinning algorithms and business models that facilitate **connection to people and information** are inherently bias, stifling rather than bolstering innovation. Quilt's approach and business model is the **antithesis to existing networks,** promoting **cross-pollination of ideas while creating useful relationships** to its users.

- Leveraging a **new incentive model** underpinned by a native token (Idea Coin, "IDC") and network status system, Quilt will encourage users to **collaborate for individual and community benefit**.

IP Protection	Resource Access	Knowledge Transfer	Incentive
▪ Real-time IP protection to mitigate collaborative risk. ▪ Track provenance on an immutable ledger. ▪ Automate / manage access to content and referencing using smart contracts. ▪ Automated infringement monitoring. ▪ Pre-collaboration risk profiles on new connections. ▪ Rigorous on-boarding process to reduce predatory users. ▪ Digitization of real-world legal contracts.	▪ Expand opportunity & access to resources utilizing a web-based network. ▪ Connect all stakeholders of the innovation ecosystem in a single network. ▪ Increase the number of contributors beyond defined organizational limits. ▪ Tools to assist content development and collaboration. ▪ Resource to acquire information, knowledge, and access to prior works.	▪ Fluid information exchange among various disciplines & industries. ▪ Enhance collaboration by making user IP more composable using NFTs and smart-contracts ▪ Connect users and content based on more accurate criteria. ▪ Single immutable repository to reduce risk of knowledge loss. ▪ IP Marketplace to help ensure novel ideas are not lost. ▪ Enablement of interdisciplinary collaboration.	▪ Native token, "Idea Coin" (IDC), to incentivize contribution and facilitate a common connection between users. ▪ Once live, IDC to incentivize users to participate in governance and decentralization of Quilt's core protocol ▪ User status system to incentivize contribution and create active users. ▪ Optional cohort based onboarding to encourage collaboration and an active user base.

User Value Proposition
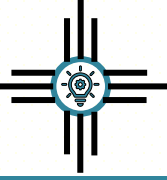
Quilt's value proposition will attract passionate users who seek to innovate, launch new ventures and create change

Connect and collaborate with other users, ideas, research and projects of varying disciplines through the sites personalized search and AI driven connection features.

Access a wide array of reliable resources including research, data, ventures, capital (human and monetary), mentoring, news, education and other user developed content among others.

Permanently document provenance for original content through creation of digital assets and verify content was not previously developed by another user within the ecosystem.

Opportunity to stake in and further develop an individual or group's ideas, venture, research, etc. including collaboration governance via formation of distributed autonomous organizations (DAOs)

Protect and track intellectual property without limiting other benefits of the site or hampering collaboration through blockchain enabled IP composability.

Receive compensation or equity for i.) content development, ii.) licensing IP, iii.) services provided to the network and other users, and iv.) partaking in governance and operating the network's core protocol

Gain recognition within a user's desired industry and amongst peers by i.) publishing user developed content, ii.) performing peer-reviews, iii.) competing in site-wide competitions and iv.) creating / contributing to on-going projects and business plans.

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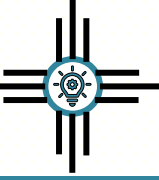
Quilt creates an ecosystem of key contributors and bolsters the enabling forces of innovation
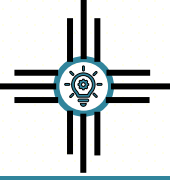
The Quilt framework will enable contributors across all phases of the innovation life cycle to collaborate in a single network

- Leverages modern technology to address quality and IP concerns, facilitate connection, and incentivize contribution
- **Enterprise**
  - Start new ventures
  - Partner with third parties and other users
  - Connect with potential investors
  - Create seamless JVs and partnerships
- **Academic Institutions**
  - Publish research and insights
  - Offer unique collaborative experiences
  - Accelerate research by gaining access to prior data and collaborating with others
- **Individuals**
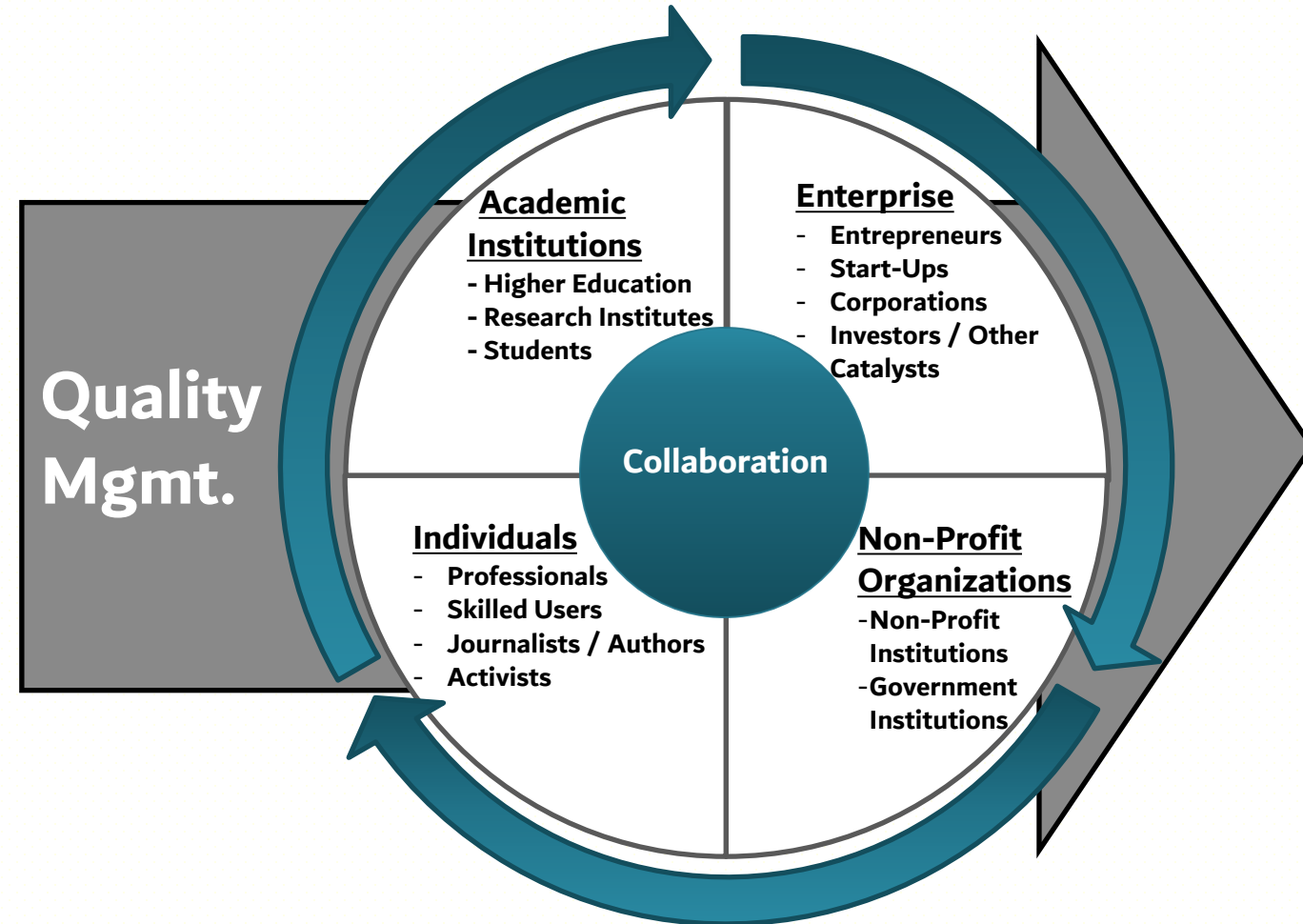 - Pursue their passions and monetize their skills / IP
  - Use skills to contribute to existing ventures
  - Publicize and gain new skills
- **Non-Profit Organizations**
  - Publicize a mission / cause
  - Partner with skilled individuals, industry leaders, academic institutions, and other organizations
  - Gain insights and sponsor debates

Quality Mgmt.

Academic Institutions
- Higher Education
- Research Institutes
- Students

Enterprise
- Entrepreneurs
- Start-Ups
- Corporations
- Investors / Other Catalysts

Collaboration

Individuals
- Professionals
- Skilled Users
- Journalists / Authors
- Activists

Non-Profit Organizations
- Non-Profit Institutions
- Government Institutions

Collaboration is at the core of Quilt's value proposition

The Quilt's unique framework enables the expansion of collaboration across traditional contributors to innovation and inclusion of those historically excluded

IP Protection:
IP Protection and management tools create trust and reduce the risk of loss, thereby reducing barriers to collaboration with third parties

Connection:
Data driven connection features enable identification of third party contributors and content in a manner that transcends that of traditional relationships

Incentive:
The native IDC token and status system create a common incentive for all users to improve ventures associated with the network

Quality:
A strong foundation in quality, verification of credentials and record of contribution will provide comfort in the abilities of potential third party contributors

Quilt's structure will amplify the value of traditional collaboration tools

- Slide Builder
- Cloud Storage & Shared Data Repository
- Data Analysis Tools
- Word Processor
- Content Publishing, Posts, Messaging & Video
- Project Planner
- Video Conference (w/ transcribing), Collaboration, Chatroom
- Git
- Other Custom Tools & Third Party Integrations
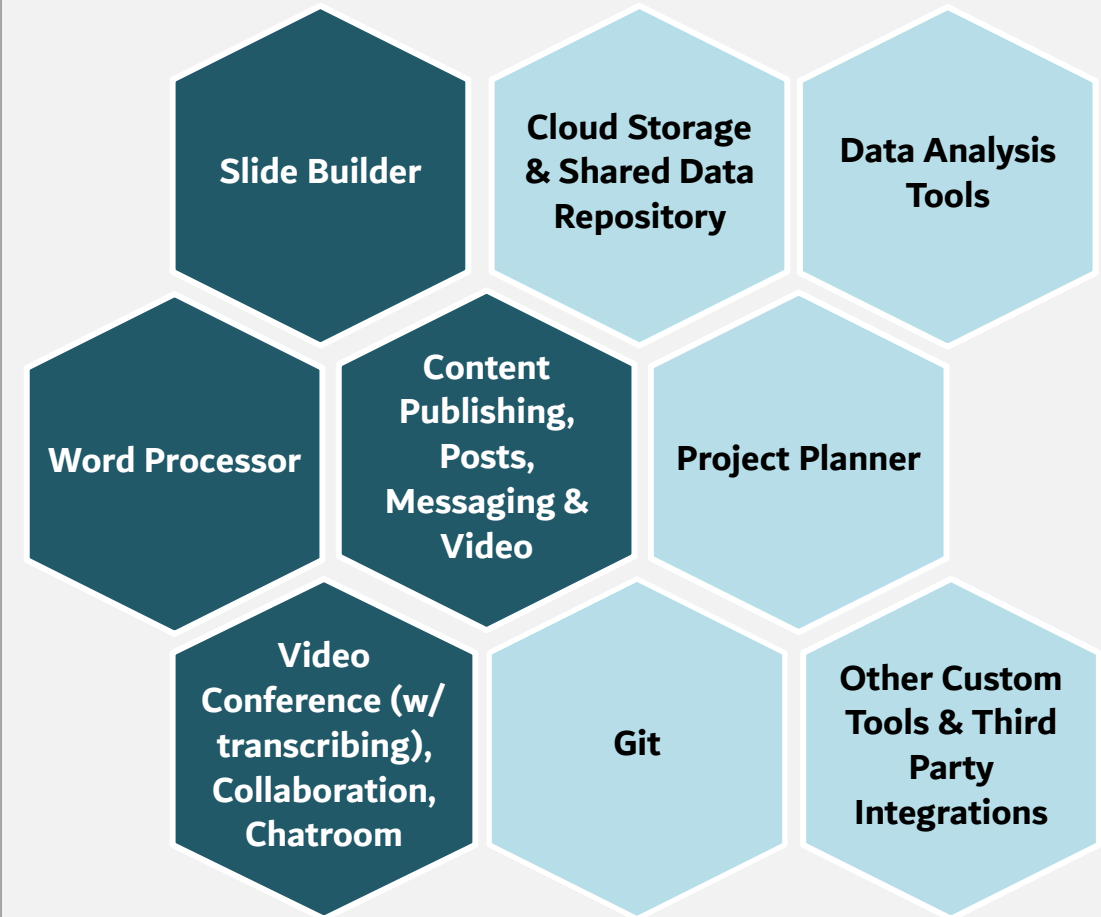
Quilt will leverage modern technology to provide real-time IP protection, unlocking a unique use case for a social network

IP protection technology will be supported by real world legal agreements

Register content & define ownership	Transparency with potential collaborators	Track access & monitor use	Police infringement & require reference

Register content & define ownership

Users may register their content using the **blockchain publishing system,** permanently documenting existence and provenance, along with other identifying data.

ERC721 (or 1155) NFTs representing a user's IP (NDC1) will be created to identify ownership of content. Multiple users can maintain ownership in a digital asset which may be purchased or exchanged via the Idea Marketplace.

Escrow requirement of the native token (IDC) will establish liquidity and a **shared interest across the network.**

Transparency with potential collaborators

Permissioned sharing of content will allow users to determine who and what is accessible to those that they choose to share with.

Users have an option to receive a **profile on potential collaborators** to provide further transparency into the risk of sharing content with a particular user. The risk profile will include information gathered from onboarding, user profiles, selected preferences and history on the platform using the Quilt status / reputation system.

Formation of DAOs to govern decision making regarding intellectual property

Track access & monitor use

A **smart contract enabled ERC20 or NFT will govern terms of use and access to published content** (NDC2). This digital asset will be a child of the original asset created during registration (NDC1). Transactions of this digital asset will permanently document users who have accessed a user's content

The Idea Marketplace will **document the purchase and exchange of ownership** in content. Further, it will help ensure that novel ideas are not lost.

IP dashboard will enable users to monitor views and **manage access to content** they curate

Police infringement & require reference

Based on the information collected during registration, **algorithms will identify published content that infringes upon another user's work,** in addition to suggesting new connections and content. Infringements may also be identified by users directly or via ad-hoc network scans (for a fee) and will be settled via a distinct conflict resolution process, agreed to by users when they join the network.
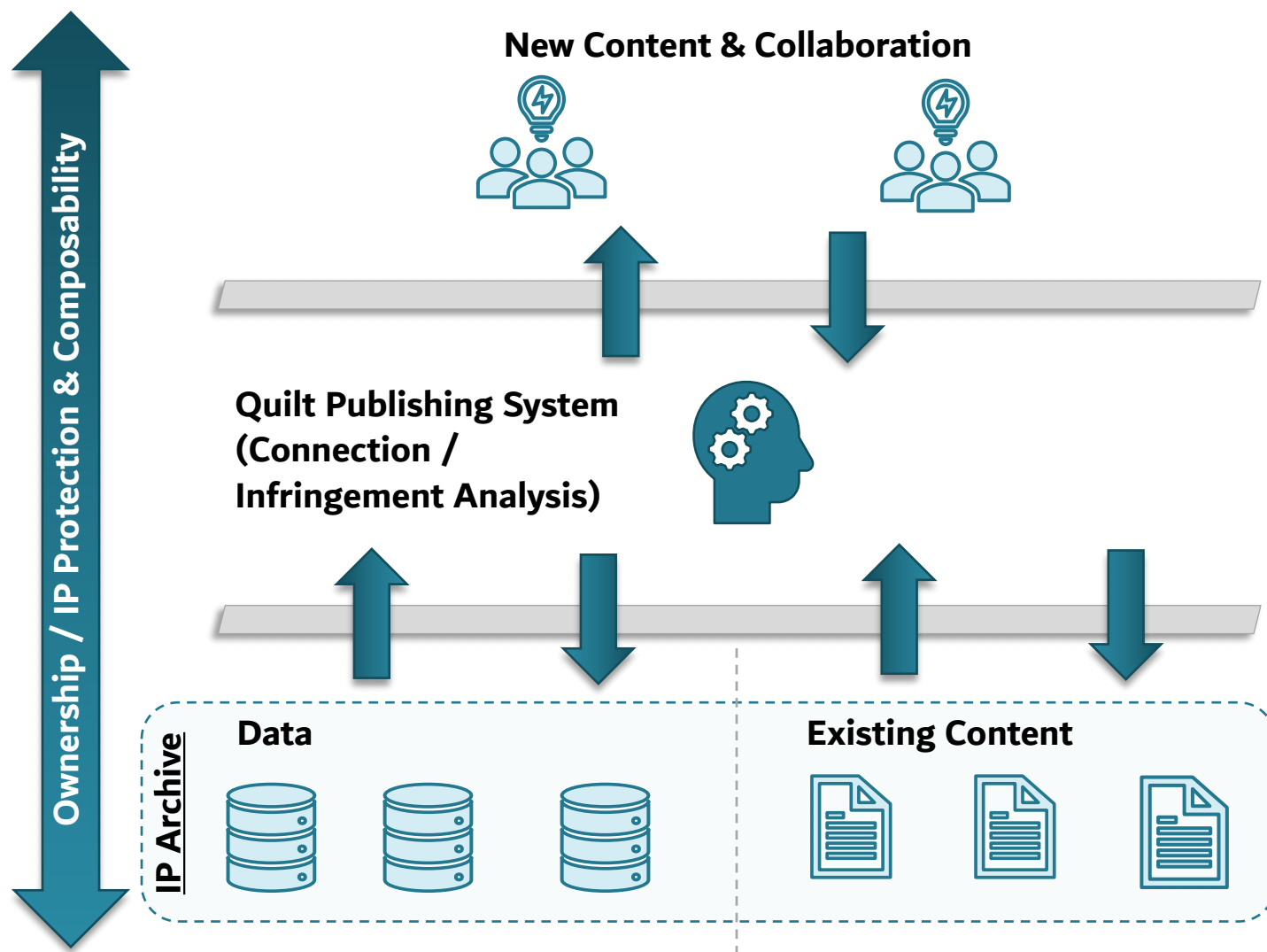
Utilizing smart contracts and infringement monitoring, Quilt will **require attribution and references to registered works** that were accessed and utilized by a publishing user.

Matt Lopes

Quilt enables users to control their work and receive attribution throughout the content curation cycle

New Content & Collaboration

Quilt Publishing System (Connection / Infringement Analysis)

Ownership / IP Protection & Composability

IP Archive

Data

Existing Content

The Quilt publishing system enables infinite opportunities for innovative iteration by allowing users to maintain ownership over their contributions to the network:

- Contribution to the Quilt network may occur in many forms including:
  - **Content Contribution** – content is a broad category including but not limited to entrepreneurial ventures, research, projects, etc.
  - **Data Contribution** – users can curate data sets to be leveraged in their own content or by other members of the network
- When new content is published to Quilt (thereby establishing ownership), the Quilt publishing system will perform an infringement analysis to ensure proper attribution to owners of existing content and data
- Attribution can take place in various forms including:
  - **Ownership interest in new content**
  - **Royalty or licensing agreements**
  - **Proper reference**
- The publishing system will also connect users to potentially useful content and data permissioned by owners
- Disputes will be arbitrated by designated members of the network (with a specified status level) that are objective to the dispute

Matt Lopes

Quilt takes a differentiated approach to user connection by focusing on skillset and unbiased analysis of user curated content

Content

- Quilt's content registration system enables a unique opportunity to connect users leveraging a more targeted source of data than traditional networks.
- Quilt will perform deep analysis on data collected during the registration process connecting users who produce complementing content unbiased by high-level themes such as industry or degrees of relationship.
- Unlike existing networks, Quilt will connect users with similar content even if it doesn't align with their existing network or past searches.

Skillset

- While most social networks connect users according to likeness in expertise, interest, etc., Quilt differentiates itself by connecting users according to complementing skillsets and need (e.g. selected user preferences) without relying on degrees of relationship.
- Enabling users to expand beyond their immediate network of expertise will encourage cross pollination of ideas and increase resource access.

Confidence

- IP protection and quality management processes enable Quilt to focus on content and skillset to connect users because user confidence is not reliant on degrees of separation, but embedded within the network.
- Enabling users to connect and collaborate with unknown third parties is core to Quilt's value proposition and creates user value that its competitors are unable to as a result of their volume based business models.

- **Quilt's unbiased, content driven approach to user connection will enable distribution of knowledge and content across disciplines.**
- **Embedded trust will enable users to connect with others outside their immediate networks and identify users with the skills that they do not possess.**
- **Unique features such as prompt driven content and connection searches will allow users to identify valued connections without sharing protected content.**

Matt Lopes

Safe and targeted dissemination of knowledge is core to Quilt's value proposition

The Quilt IP Archive and connection features will ensure that knowledge is not lost and shared with those who can benefit most. IP protection and composability will maintain attribution to source users further incentivizing open sharing

IP Protection & Composibility

Collaboration Tools: The collaboration tools provided by Quilt will not only enable users to curate content, but apply the knowledge that is shared via the various connection channels. IP composability features will underpin all collaboration tools to maintain user attribution

Challenges, Debates, Open Chatrooms & Other: Network and user sponsored challenges, debates and other user interactions will be designed to disseminate ideas, research and knowledge across disciplines to further inspire new ideas, content and innovation.

Content Stream: All public content (registered and un-registered) will be distributed on user content streams according to connection criteria. Private content will not be distributed openly, however, users will be notified of a potential connection regardless of private vs. public status.

User Curated IP Archive: Quilt will develop a searchable archive of user curated content which will maintain user ideas, research, etc. The IP Archive will store all registered content, although private content will require permission to view.

Underpinned by the native token, Idea Coin, Quilt aligns user incentive to the success of all efforts on the Network

> - **Idea Coin (IDC) will be leveraged as the common unit of exchange on the network and may be used to take part in the decentralized economic model, purchase services & content, acquire IP, support / stake-in projects, etc.**
> - **IDC and the network's status / ranking system will incentivize users to contribute in 4 broad categories.**

Contribution

Services:

Users will receive IDC and increase their status / rank by **performing services for the network** including:

- Peer reviews
- Conflict resolution
- Operating the decentralized publisher protocol[2]
- Participating in decentralized governance[2]
- Vetting new users, etc.

Content:

- Users will receive IDC for **publishing** quality / peer-reviewed **public content.**
- Optional cohort onboarding will encourage users to collaborate with their cohort.

Projects:

- **Shared interest** derived from the IDC escrow[1] requirement during the issuance of NDC1 will **incentivize contribution across the network.**
- Users at a minimum share an indirect interest in the success of all efforts via appreciation of IDC.

Usership:

- The network's **status / ranking system** will incentivize an active userbase.
- The network and other users will sponsor regular challenges / debates with a purse of IDC for the victor.
- IDC will be offered for referring new users *(for an initial period of time)*

[1] Once decentralized governance is live, users will receive a voting proxy token 1:1 with IDC held in escrow as to not penalize user voting power for registering content. [2] Once decentralization goes live certain roles will be compensated.

Quilt   Matt Lopes

Quality Management is the foundation of the Quilt value proposition

Quilt is uniquely positioned in that value is not directly correlated to the volume of users on the network, rather the quality of users and content. Quality will be maintained by a multi-layered framework

Onboarding Process:

New users must pass **the initial vetting or application process** which includes verification of identity, credentials (i.e. education background) and completion of a profile and "purpose" for joining the network.

Content Peer Review:

Certain types of content (i.e. research) will require a **peer review prior to being "published"** on the network. Peer-reviewers will be required to maintain a specified "status" level.

Qualified Domain Requirements:

Posts from **third party sites are restricted to verified sources**. If a user wishes to post a link to a source that is not yet verified it must first pass an approval process.
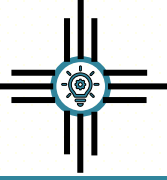
Status System:

Status system will be maintained to provide insight into the **degree of a users specialization** in a particular field and **history of contribution** to the network. Specific status levels are required to conduct certain activities.

Terms of Use / Abuse Monitoring:

All users are required to sign a terms of use upon joining the site which prohibits the abuse of others' IP. **Reports of abuse will lower status and may result in removal from the network** pending severity.

Quilt creates a more efficient structure for information, talent and investment by connecting fragmented markets

Research

- Research is generally a closed process until an article is published for peer-review, and then focused on a single field. Increased visibility at earlier stages and across disciplines would improve efficiency and effectiveness of research projects.
- Inefficiencies in the current process inhibit progress and squander funds as a result of an overly iterative process due to siloed knowledge and data storage.
- Similar inefficiencies plague the entrepreneurial channels of innovation.

- More than a publishing app, Quilt provides real-time storage of research data and results, and analysis tools and improves visibility while limiting the risk of IP infringement through IP composability that maintains user attribution

Talent

- Discovering the appropriate technical / business partner is often times the most difficult step to creating a successful early stage venture. Complementary talent is difficult to discover as a result of hyper specialized focus of existing networks.
- Networks / accelerators that connect technical & business founders are becoming increasingly popular, however, few embed this feature within a collaborative / content development platform and limited in access given business models.

- Quilt connects users across various disciplines leveraging user curated content, verified credentials and need
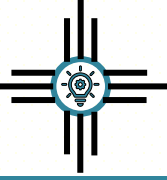- Quality mgmt. policies IP protections increase confidence in potential partners

Investment

- Investors manually search various channels to locate potential investments that align with their investment theses. Creating a quality pipeline of vetted opportunities will save investors time and funds as they seek to successfully deploy increasing amounts of capital.
- Founders spend an inordinate amount of time shopping for funding rather than focusing on progressing their venture.
- This and other factors result in novel ventures never receiving the funding they need

- Single platform to reach multiple investors / founders increasing access to funding
- Algorithms connect investors with ventures that match their investment criteria & vice versa

Matt Lopes

There will be four primary role archetypes, each with their own purpose for joining the Quilt network

Creators

Join the network with the intention of publishing content, or otherwise leveraging the network to achieve a goal

- Entrepreneurs
- Researchers
- Academic Publishers
- Established Enterprise
- Non-Profits
- Academic Institutions
- Government Institutions
- Data Curators
- Artists
- Journalists

Supporters

Join the network with the intention of using their skills to help progress other users' content or goal or support the network

- Academic Experts / Institutions
- Developers
- Lawyers
- Business Professionals
- Engineers / Designers
- Established Enterprise
- Non-Profits
- Government Institutions
- Other Skilled Professionals

Students

Join the network with the intention of learning something new, connecting with other users, or general interest

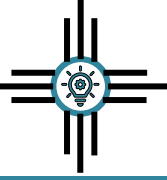- Academic Students
- Skilled Professionals
- **Anyone**
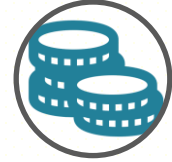
Financiers

Join the network with the intention of passively supporting creators and their goals by acquiring interest in their IP

- Venture Capital
- Angel Investors
- Academic Institutions
- Non-Profits
- Established Enterprise
- Government Institutions
- Registered Investors
- Crowd Funders

The above users are intended to represent examples and not an exhaustive list

Cornerstone Use Case: Incubate New Novel Idea

1 — **I have an Idea**

- An idea can be anything, a new business venture, concept, product, policy, community project, etc.
- Document your idea and store it in your own private space in many digital formats (e.g. text, media, code, etc.)
- Register your idea and generate an ERC721 or 1155 NFT(s) representing it (NDC1); permanently documenting ownership and provenance; IDC held in escrow[1]

2 — **I need to Collaborate**

- Identify potential collaborators using targeted connection search
- Share publicly and rely on infringement policing OR
- Issue ERC20 or non-transferable NFTs (NDC2) for private sharing; log of all users that access recorded to blockchain; pay IDC or NDC1 interest to Quilt
- Create a DAO to govern relationship with collaborators; NDC1 transferred to DAO; DAO workspace created
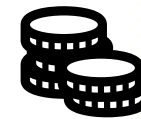
3 — **New Novel Concept**

- New novel concept created either from net new work or combination of two existing ideas or concepts
- If combined with another registered idea the digital assets representing each is held in escrow and new NDC1 and NDC2 assets issued representing the new concept
- Ownership evaluated by the DAO

4 — **We Need Funding**

- IDC is raised from passive or active members of the DAO
- Ownership in the idea (NDC1), right of use (NDC2), etc. is provided in exchange for IDC which can be leveraged throughout the network or exchanged for fiat currency
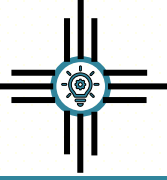- Ownership evaluated by the DAO

5 — **Sell Product or IP**

- The DAO chooses to sell or trade IP to another member of the network; NDC1 sold / traded to other users
- DAO has created a marketable product that can be sold to other members of the network; new NDC2 issued to "customers" which governs use of the product / IP; business external to network governed by DAO
- If idea fails, then terminate NDC1 and NDC2, receive IDC liquidity held in escrow and idea becomes public with no constraints on use

[1] Once decentralized governance is live, users will receive a voting proxy token 1:1 with IDC held in escrow as to not penalize user voting power for registering content.

Cornerstone Use Case: Conduct Research

1	2	3	4	5
I Want to Research a Topic	**Publish My Research**	**Research is Leveraged by Others**	**Requested to Collaborate**	**New Research or Product**

I Want to Research a Topic

- User(s) creates a workspace to begin to document their research
- Leverage Quilts IP Archive and custom search to identify previously published research insightful to current endeavor
- Acquire NDC2 to access privately published research if required (*note: NDC2 may be issued for content, but may be acquired for free – purpose to govern use, require attribution, etc.*)

Publish My Research

- Publish research and generate an ERC721 or 1155 NFT(s) representing it (NDC1); permanently documenting ownership and provenance; IDC held in escrow[1]
- *NDC1 may be issued prior to conducting research in order to garner funding as well*
- Publish publicly and rely on infringement policing OR
- Issue ERC20 or non-transferable NFTs (NDC2) for private sharing; log of all users that access recorded to blockchain; pay IDC or NDC1 interest to Quilt

Research is Leveraged by Others

- If publicly published all users may view; if new content created infringes than will be flagged by policing algorithms and potentially arbitrated
- If privately published user will be required to reference or otherwise provide attribution to the publisher if new content published infringes; targeted infringement analysis based on NDC2 held/burned;

Requested to Collaborate

- Publisher is requested to collaborate with other researchers, enterprise, etc. based on published research
- Create a DAO to govern relationship with collaborators; NDC1 potentially transferred to DAO (pending terms – user may license to DAO via NDC2); DAO workspace created
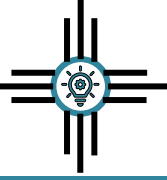
New Research or Product

- As a result of collaboration new research, product, etc. is produced
- If combined with other registered research the digital assets representing each is held in escrow and new digital assets are issued representing the new research or product; ownership interest governed by DAO
- If product produced new NDC2 issued to "customers" which governs use of the product / IP
- Research / IP may be sold / traded to third parties (NDC1 transfer)

[1] Once decentralized governance is live, users will receive a voting proxy token 1:1 with IDC held in escrow as to not penalize user voting power for registering content.

Cornerstone Use Case: Curate Data
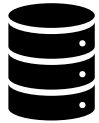
1 — I have a Useful Dataset

- A user creates a dataset that will be useful to the rest of the network
- User may be an individual enterprise, etc.
- The dataset is registered and an ERC721 or 1155 NFT(s) (NDC1) is created representing the dataset permanently documenting ownership and provenance; IDC held in escrow[1]

2 — Combine Data with Others

- User may desire to combine their data set with others in order to produce a more valuable set of data
- Digital assets representing each dataset is held in escrow and new digital assets are issued
- Create a DAO to govern relationship with collaborators; new NDC1 transferred to DAO; DAO workspace created
- Pending DAO terms, data sets may combine with multiple parties
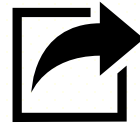
3 — Share Data for Usage

- Usage may be restricted to those within the DAO or shared externally
- If shared externally, issue ERC20 tokens or non-transferrable NFT (NDC2) for private sharing; log of all users that access recorded to blockchain; pay IDC or NDC1 interest to Quilt
- With data sets NDC2 issuance is the only way to police infringement
- Users may only share "sample" data in order to attract other users
- Publicly shared data may be compensated by Quilt in the form of IDC

Refer to subsequent slide for details

4 — Idea Generated from Usage

- If in the terms of the NDC2 smart contract, the DAO or individual may receive a royalty, ownership of the NDC1 associated with the idea generated from use of the data set or rights to use the idea via receiving NDC2 associated with the idea
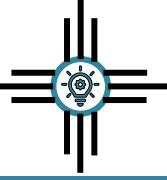- DAO responsible for data curation may join a new DAO as a sub-DAO as a result

5 — Idea Monetized

- If a "product" is created new NDC2 issued to "customers" which governs use of the product / IP; business external to network governed by DAO
- If DAO chooses to sell or trade IP to another member of the network; NDC1 sold / traded to other users
- The idea may connect with other ideas and start an entirely new cycle

[1] Once decentralized governance is live, users will receive a voting proxy token 1:1 with IDC held in escrow as to not penalize user voting power for registering content.
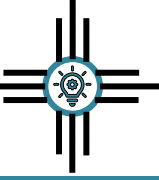
Sharing Data Privately (Ocean-Like C2D Infrastructure)

> **Approved algorithms are run on private data in a temporary isolated execution environment similar to that of Ocean's compute-to-data ("C2D")**

Ocean Architecture
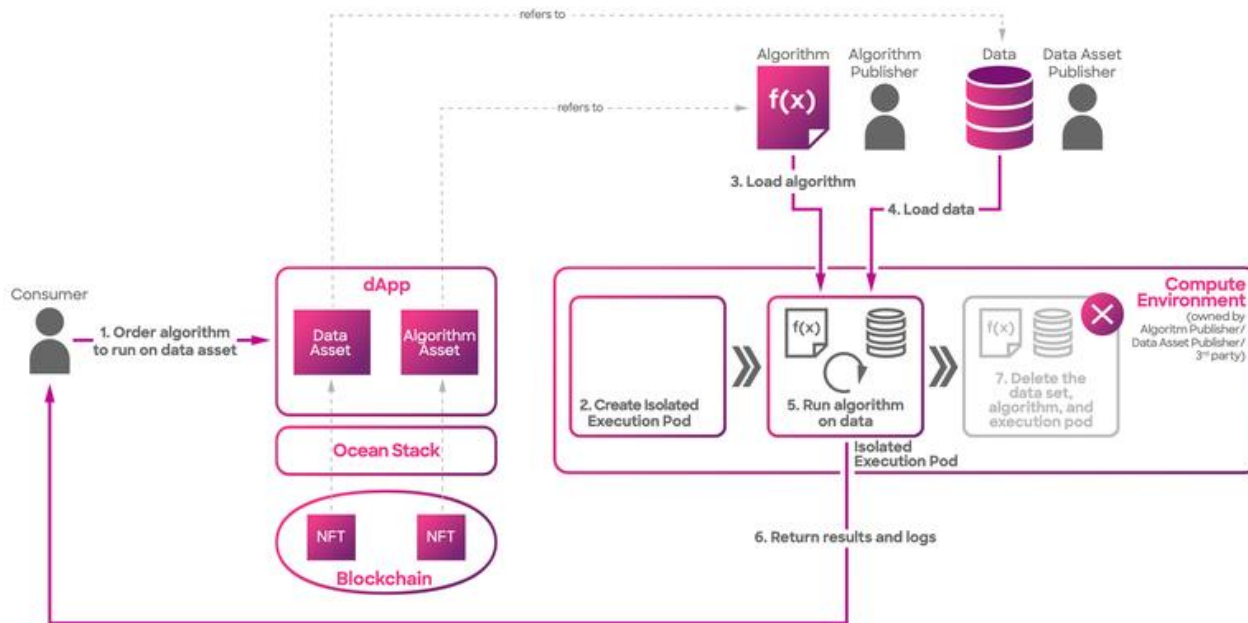
Commentary

- Data sets and algorithms are considered separate published content represented by NDC1 which may have associated NDC2 for others' use
- Data set owners approve algorithms that can be executed on their data
  - A data set's NDC2 may enable execution of specific algorithms or enable users to select from several algorithms that the data owner may change as they see fit
- Holding NDC2 associated with the data set allows users' to run an approved algorithm on the data (and NDC2 or NDC1 of the algorithm)
- Upon request an isolated execution environment is created to run the algorithm on the data; NDC2 is burned or sent to the data owner and returned pending terms of the NDC2
- After the computation is complete the data and algorithm are securely removed from the execution environment and the output is sent to the requestor for approval (rejections follow the resolution process)
- Pending attribution requirements under the data and/or algorithm NDC2, the output may be published, generating a NDC1 with embedded attribution contracts for future infringement tracking (may also rely on the NDC2 transaction and publishing review for infringement protection)

Matt Lopes

Cornerstone Use Case: License Content for Remixing

| 1	2	3	4	5
Publish Novel Content	**Create Userbase / Invest in Content**	**Enable Content for Remixing**	**New Content Created**	**Monetize Remixed Content**

Publish Novel Content

- A user or group of users structured as a DAO creates some novel content capable of being augmented (e.g., software code, molecular compound, idea, journal, etc.) and publishes to the network
- Content is registered and an ERC 721 or 1155 NFT (NDC1) is created representing the content, permanently documenting ownership & provenance; IDC held in escrow[1]
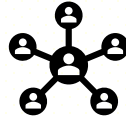
Create Userbase / Invest in Content

- User or DAO publicizes content and garners a following, userbase, or otherwise interested parties *(publicizing of content should be limited as to not destroy ownership rights)*
- User may be compensated for content via IDC access payments under restricted terms of use

Enable Content for Remixing

- Users may choose to license their content for use by specific users or openly sharing for remixing under specific licensing terms
- In either case users can issue NDC2 tokens (NFT or ERC-20) to manage the form of desired attribution from users

New Content Created

- If in the terms of the NDC2 smart contract, the DAO or individual may receive a royalty, ownership of the NDC1 associated with the idea or content generated from use of the original content, or rights to use the idea or content via receiving NDC2 associated with the new idea or content
- DAO or individual responsible for original content may join a new DAO with the creator of the new content as a result
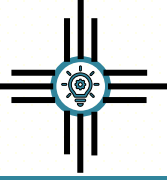
Monetize Remixed Content

- Pending terms of the licensing contract, users may monetize their rights in the new content in a number of ways: by further remixing content, selling / trading interest in the new content (sell NDC1), or otherwise leveraging or monetizing as allowed by the terms of the contract
- May continue to be remixed in a number of iterations and start an entirely new cycle

[1] Once decentralized governance is live, users will receive a voting proxy token 1:1 with IDC held in escrow as to not penalize user voting power for registering content.

Cornerstone Use Case: Raise Funding

1	2	3	4	5
Establish Intentions	**Identify Funder(s)**	**Execute Project(s)**	**Verify Output(s)**	**Monetize Output(s)**

Establish Intentions

- Users may join the network seeking to raise funding for a project, idea, research, etc.
- To garner interest from potential funders, users can publish details of their project (i.e., pitch deck, etc.)
- Users may either use the network to identify interested team members or bring their own to the network; create a DAO (and optional associated legal entity) to govern project
- Users should also provide a summary of expected terms with potential funder(s)

Identify Funder(s)

- After marketing the opportunity and identifying potential funder(s) the user / DAO negotiates terms with the funder(s)
- After agreeing on terms, an NDC1 representing the terms and funder(s)' rights in the future IP is minted, making reference to associated legal documents; IDC or NDC1 interest paid to Quilt for minting
- NDC1 provides access to the working space and content associated with the project

Execute Project(s)

- The Team / DAO creates content and executes the project using the project's working space on the network
- Execution of the project may require interactions / collaborations with other users or DAO's on the network. Interactions with potential collaborators will be governed by the DAO / team and subject to terms of the agreement with the funder(s)
- Collaborations may require attribution (e.g., royalties) via NDC2 contracts which will be attached to project IP (NDC1) upon next publishing

Verify Output(s)

- Output confirmed by funder(s) upon completion of defined output, milestones, etc.
- If there is a dispute it will be arbitrated by objective third party users; to take part in dispute resolution users must have the desired skillset, and be of a specified "status" or standing
- Final output is republished linking with the old NDC1 by combining it with the new NDC1 in an ERC-1155 token (or holding the old NDC1 in escrow); IDC held in escrow[1]

Monetize Output(s)

- Pending terms of agreement, owners of the NDC1 may jointly or separately issue NDC2 to monetize the output; off network monetization governed by DAO (and optional legal entity) and subject to terms of the legal agreement
- May sell rights to IP by selling NDC1 or interest in the DAO / legal entity that owns the NDC1 (or other means, pending structuring)

[1] Once decentralized governance is live, users will receive a voting proxy token 1:1 with IDC held in escrow as to not penalize user voting power for registering content.
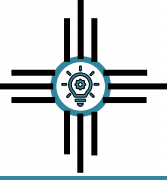
Cornerstone Use Case: Support the Community

1 — Establish Purpose

- New users are required to establish their purpose for joining the network
- Establishing a purpose will help Quilt better connect users based on their preferences and will message to the network a users interests
- Purpose is published as part of user profile creation; purpose may be generic (e.g. general interest in x,y,z areas)

2 — Contribute to the Network

- Users may contribute to the network in a variety of ways pending their skillset and status level, including participating in network governance, operating the decentralized publishing protocol, content curation, peer review, new user vetting, conflict resolution, competition judgment, etc.
- Contributing to the network will help to demonstrate a users utility and increase their notoriety and attractiveness to other users

3 — Grow Your Brand

- The Quilt "status" system will demonstrate to other users the degree of a user's past contribution, skill in a specific area, trustworthiness, etc.
- Users may improve their "status" in the Quilt network by producing public content demonstrating their knowledge and expertise, competing in challenges, completing courses with partner organizations, etc.

4 — Collaborate with Others

- Quilt will connect users with other users, ventures, etc. in search of the skills they possess based on connection preferences, curated content, etc.
- Users who have demonstrated a required expertise may be requested to join a collaboration effort thereby receiving interest or right of use in an idea, research, DAO, or other IP
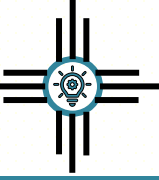
5 — Monetize Your Efforts

- In addition to increasing their status users will receive the network's native currency (IDC) for performing services to the network and participating in its decentralized economic model
- If a user is recruited to further develop an idea, research, etc. they may monetize their efforts by trading / selling their interest (NDC1) or via sale of the right of use to third parties (NDC2)

Cornerstone Use Case: Leverage the Community

1	2	3	4	5
Establish Intentions	**Solicit Contribution**	**Collaborate with Users**	**Verify Output**	**Compensate Contributors**

Establish Intentions

- Existing Enterprise, Non-Profits, Research / Academic Institutions, etc. may join the Quilt network to leverage its user base
- Upon joining users that intend to leverage the community must establish their intentions and publish to the community (e.g. purpose)
- Establishing intentions will help to connect the entity with members of the community that can best support their cause

Solicit Contribution

- Users may solicit contribution from the community both publicly and privately
- Solicitors may leverage their profile, public posts, and other forms of published content to attract users to their cause
- Contribution may be in the form of data, private projects, public projects, challenges, debates, peer review, etc.

Collaborate with Users

- Identify potential collaborators using targeted connection search
- Align on terms of collaboration including output, compensation (e.g. receive IDC compensation, interest in output (NDC1), right to use output (NDC2)), timing and other key terms; ERC721 / 1155 NFT (NDC1) representing agreement generated; IDC or NDC1 interest paid to Quilt for minting
- Create a DAO to govern relationship with collaborators; DAO workspace created
- Users re-confirm agreement to network based dispute resolution (also required upon joining the platform)

Verify Output

- Output reviewed by solicitor upon completion of defined output, milestones, etc.
- If there is a dispute it will be arbitrated by objective third party users; to take part in dispute resolution users must have the desired skillset, and be of a specified "status" or standing
- Pending terms, an ERC721 / 1155 NFT representing the output generated and linked to original NDC1; IDC held in escrow[1]
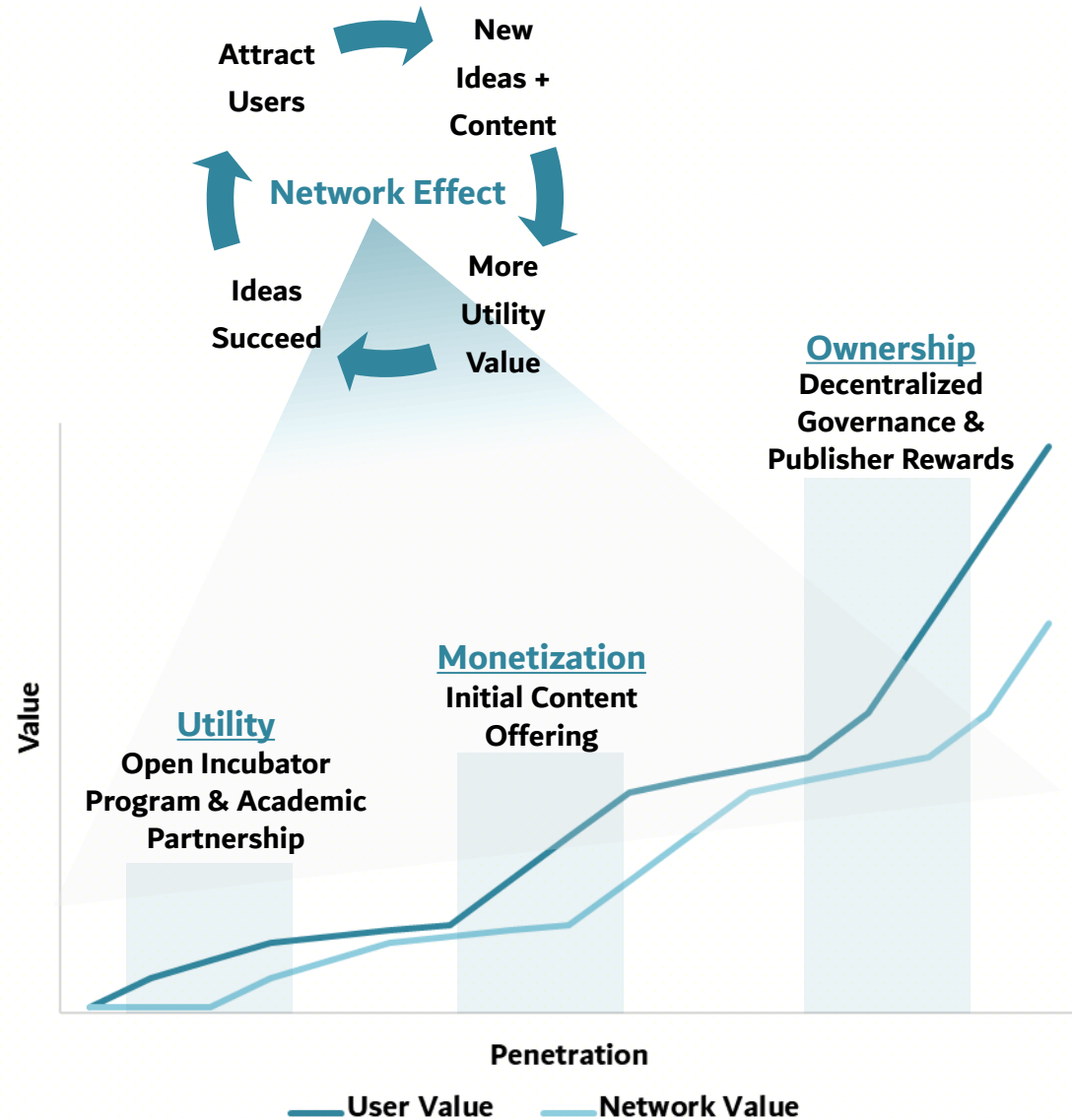
Compensate Contributors

- Pending terms of agreement upon output verification contributor will receive IDC, NDC1, or NDC2
- If NDC2, then ERC20 or NFT tokens (NDC2) which will control the right of use are minted; solicitor pays IDC or NDC1 interest to Quilt

[1] Once decentralized governance is live, users will receive a voting proxy token 1:1 with IDC held in escrow as to not penalize user voting power for registering content.

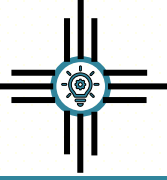# Network effects are compounded by user and network incentive alignment

Network Effect

Attract Users → New Ideas + Content → More Utility Value → Ideas Succeed

Ownership
Decentralized Governance & Publisher Rewards

Monetization
Initial Content Offering

Utility
Open Incubator Program & Academic Partnership

Value (y-axis) / Penetration (x-axis)

— User Value — Network Value

Quilt will continuously generate value by driving network effects as more users join and produce quality content:

- **Attract Users:** Quilt will garner user interest during the "cold start" phase through a number of orchestrated events (1) creating an open accelerator program, partnering with academic institutions, and hosting existing content (2) an initial *content* offering where users will be given an initial batch of IDC for publishing content (3) go-live of decentralization including governance and rewards for operating the decentralized publisher protocl
- **New Ideas + (Quality) Content:** Supported by Quilt's incentive and ownership structures, as more quality users join more content, ventures, ideas, etc. will be generated on the network
- **More Utility Value:** More users and content will create greater economic value for users, as there will be more users to collaborate with and more content to compose with (content begets more content). Further, initial users and content will help refine network features, creating even more utility
- **Ideas Succeed:** Success of ideas, ventures, etc. developed on network will be the greatest mechanism to attract users, further binding the incentives of users and the network (e.g., success of the network depends on success of user projects)

Quilt's incentive and ownership structure will amplify network effects and ensure that value accrues to users first (and then the network), further accelerating the flywheel:

- **User Incentive Alignment:** As users publish content and create collaboration spaces they will be required to stake the native token IDC. As all projects will have this requirement the value of IDC will be linked to the performance of the network as a whole, further incentivizing collaboration and creating more utility value
- **User Network Ownership:** users will jointly share in the economic success of the network as the value of IDC appreciates due to successful projects and network growth. As users will receive IDC for their contributions to the network, their share of the value is tied to how much they contribute
- **Network Incentive Alignment:** In many instances the network will hold minority stake in ideas / content as a result of publishing requirements. This will incentivize the network to act in a manner most beneficial to the success of users (e.g., the network succeeds if individual users succeed) and will create a source of long term funding upon exits
- **User Operated Network:** Once the network is fully decentralized (e.g., decentralized publisher protocol and governance live), the economic model will create self sustaining value for users and the network by (1) providing rewards for running the publisher protocol (users take part in network growth and ensure continuity for its core protocol) and (2) enabling user governance, allowing users to control decisions that dictate the utility of the network (utility value)

Matt Lopes

The Quilt business model combines that of a social network & early stage investor

Social Network

- Create active users
- Connect users & data
- Create utility (via tools, etc.)
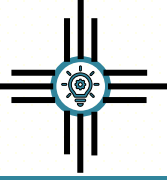- Develop a valued user experience

Early Stage Investment

- Equity investments
- Target identification (i.e., user on-boarding)
- Accelerate development
- Provide capital (human & monetary via IDC)

Unlike a typical collaborative social network, Quilt will have equity in its "customers" (i.e. users), and as such has greater incentive to create services and an user experience that will enable users to succeed and offer opportunity for significant ROI.
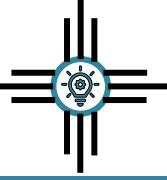
As a result of varied revenue streams, Quilt is not limited by ROI, fund raises, and investment theses and therefore has more latitude than a typical VC fund. Less direct involvement in equity holdings' operations, allows Quilt to focus on its core offering. Equity is received for providing the core offering rather than direct funding.

Matt Lopes

Quilt brings collaboration, venture funding, and academic publishing to a single network based platform

Illustrative & Non-Exhaustive
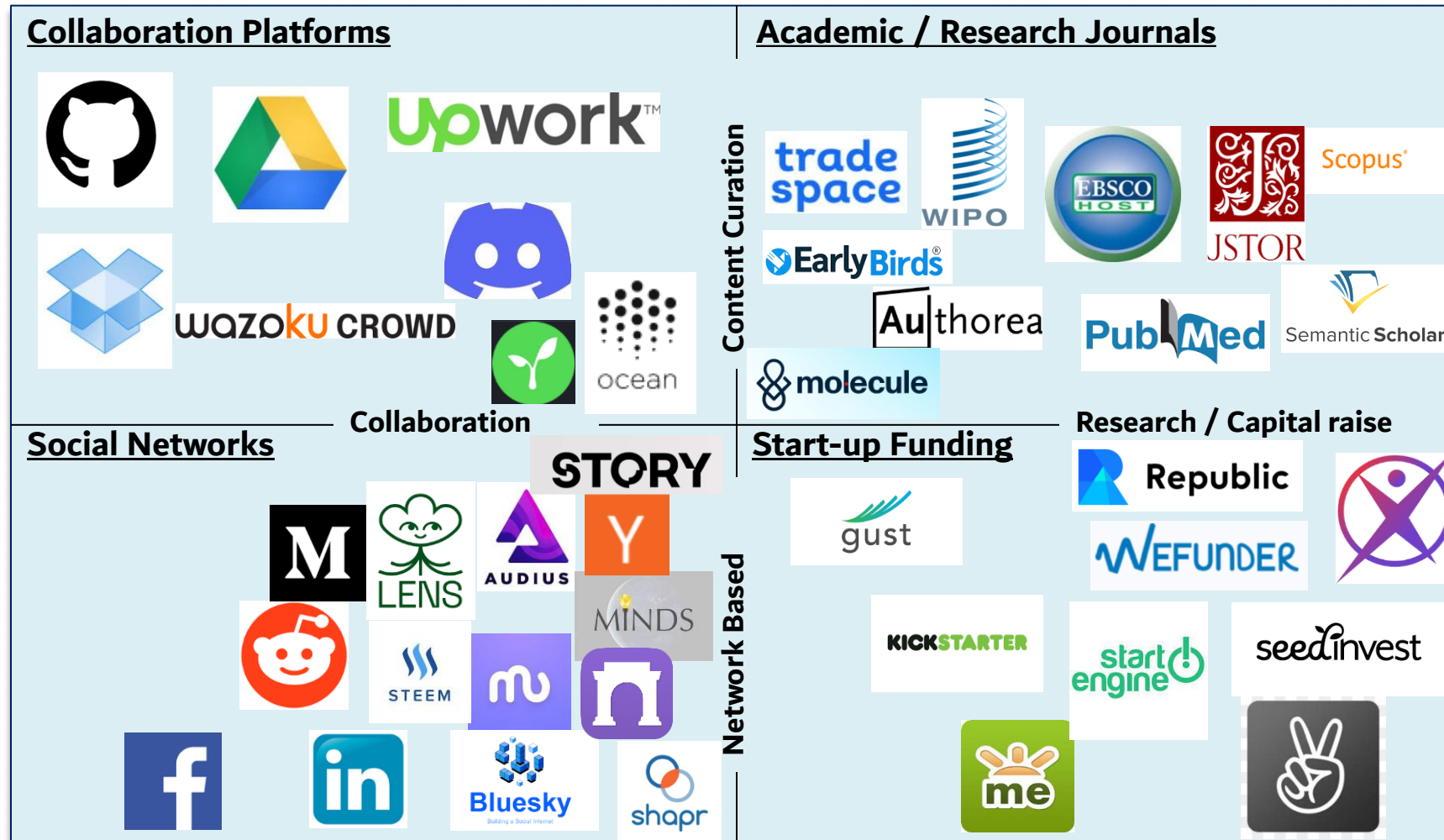
Quilt targets purpose driven users with diverse backgrounds and skillsets

All networks require a critical mass of users and content to succeed. However, the Quilt business model is not dependent on user volume to generate growth creating an alternative to existing platforms:

With a vested interest in the performance of ventures developed on the platform, Quilt **generates value from the quality of users and content**. This will allow the platform to **produce value with a smaller user base** than existing networks.

User churn will be reduced by the incentive structure and user interaction model designed by Quilt.
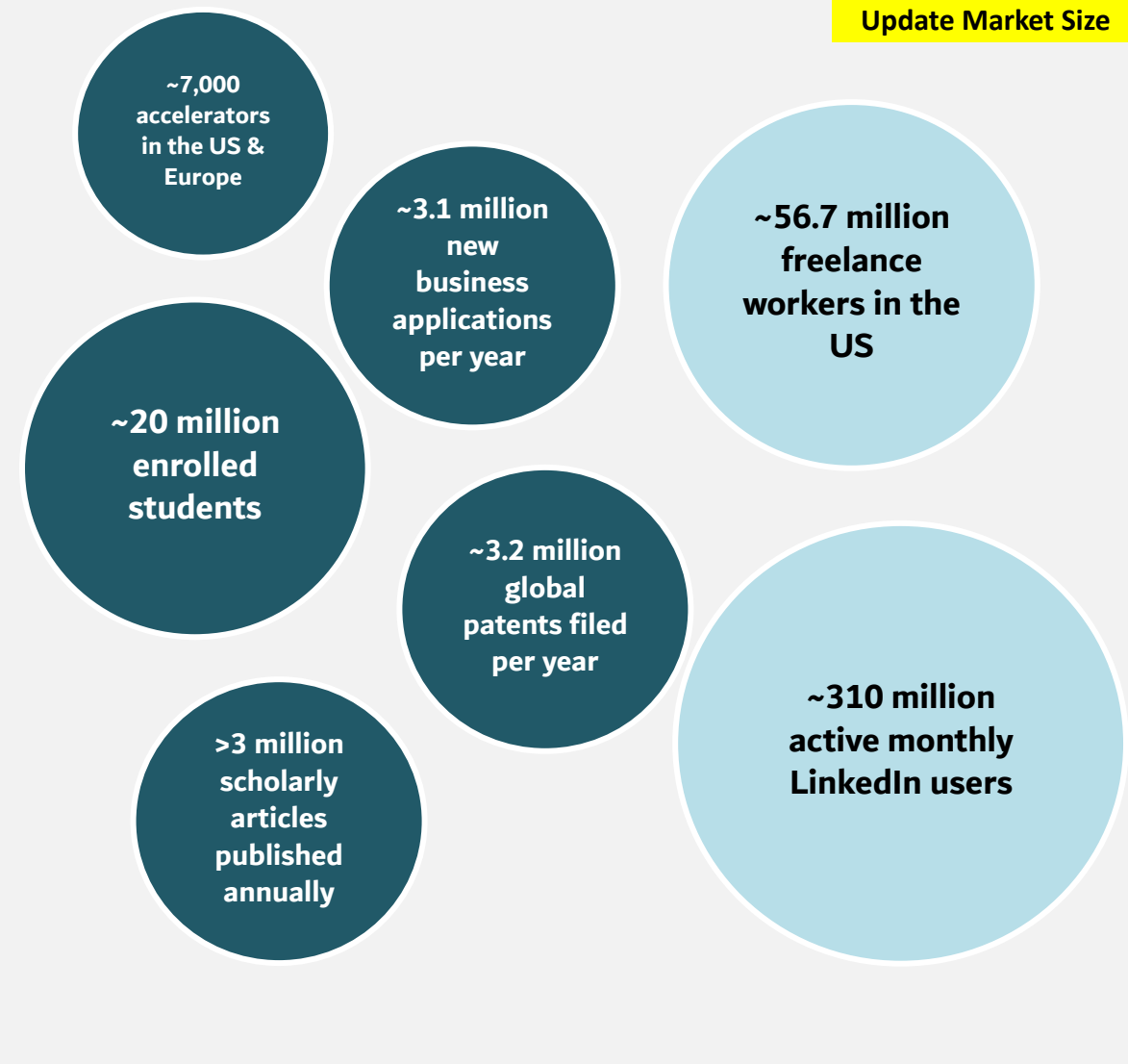
Macro trends demonstrate an increasing market for a network platform like Quilt:
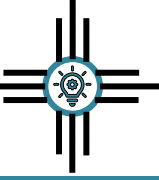
There is a growing population of users who seek to **contribute to the solutions to the problems that plague the world** around them. Users are more determined than ever to impact the future state of the world.

Growing distrust in existing public institutions and social networks which are characterized by user **data abuse and growing social issues.**

Increasing concerns over the **quality and reliability** of the content distributed over existing social networks. Potential regulation aimed at holding networks **responsible for the content on their platform.**

Increasingly **complex issues** throughout the world **require collaboration across disciplines & organizations** and increased data transparency

~7,000 accelerators in the US & Europe

~3.1 million new business applications per year

~56.7 million freelance workers in the US

~20 million enrolled students

~3.2 million global patents filed per year

>3 million scholarly articles published annually

~310 million active monthly LinkedIn users

Matt Lopes

Quilt has a sustainable business model focused on quality and scalability

A combination of traditional and non-traditional network revenue streams create a unique revenue model designed to sustain growth.
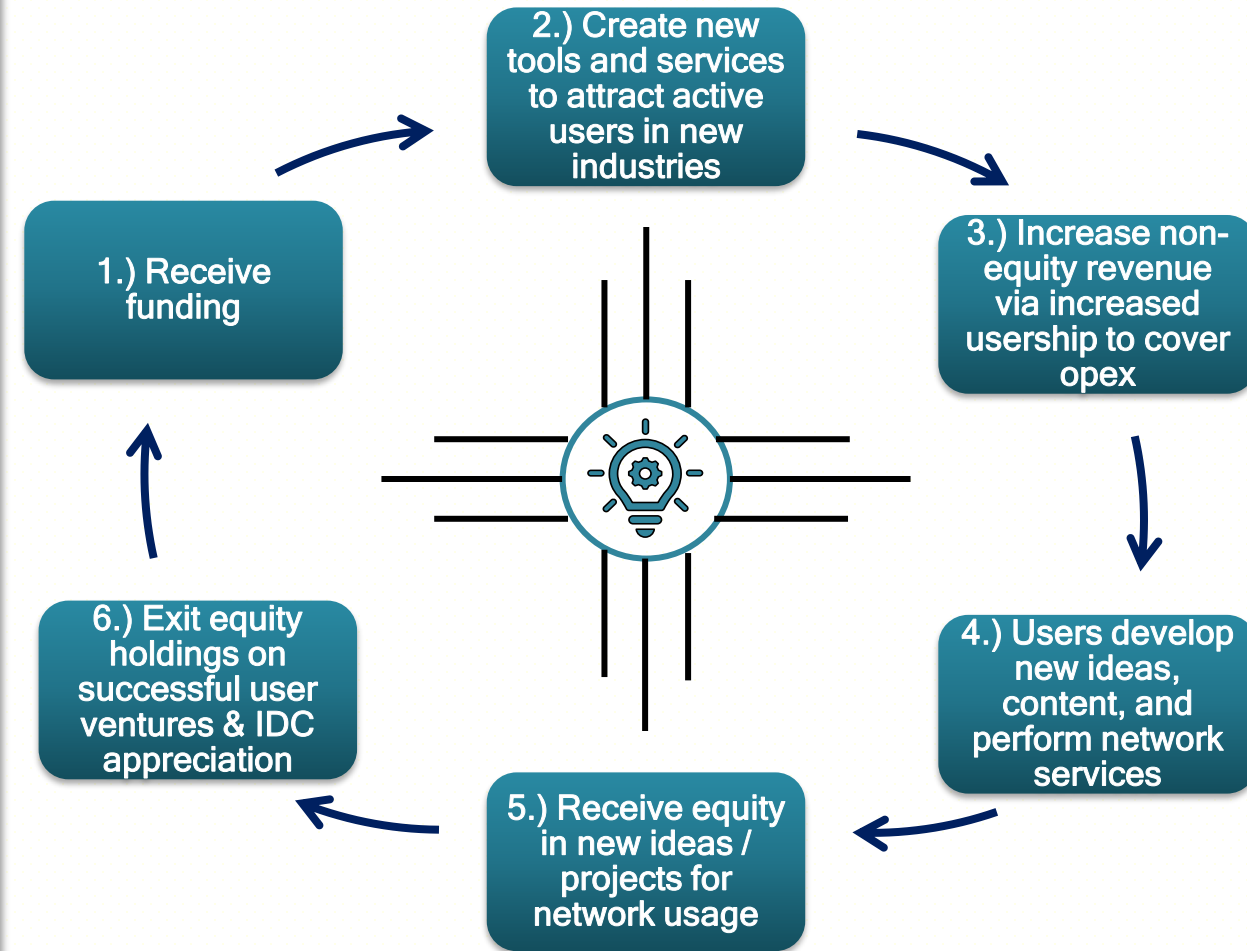
Traditional Revenue Channels:

- Entity-wide **subscriptions** & premium **memberships, features and support**
- **Transaction fees** on the exchange of digital assets, native tokens & fiat funds
- **Per use fees** for content publishing, content storage (limit amount of free storage), access to certain content and tools, advanced connection features
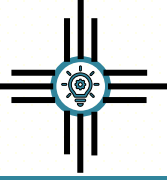- Partnership & referral fees
- Ad revenue

Non-Traditional Revenue Channels:

- **Equity investments** in user ventures
- Finders fees to external enterprise
- **Appreciation of IDC**
- External use of IP and Publisher protocol

Quilt's unique cost structure will allow it scale with minimal internal costs.

- **Micro-payments in the form of IDC** will be paid to users to conduct tasks generally performed by employees. **One-time** development **costs for IDC will replace on-going costs** incurred by traditional networks.
- Opportunity to **leverage a distributed storage system** such as IPFS may also change the dynamic **for scaling infrastructure**.

1.) Receive funding

2.) Create new tools and services to attract active users in new industries

3.) Increase non-equity revenue via increased usership to cover opex

4.) Users develop new ideas, content, and perform network services

5.) Receive equity in new ideas / projects for network usage

6.) Exit equity holdings on successful user ventures & IDC appreciation

Matt Lopes

Advancements in technology make now the right time for a new type of social network focused on quality, innovation and change

New technologies have allowed systemic trust to be embedded within network environments enabling distributed collaboration and unlocking new opportunities to create value.

Advancements in technology have augmented the labor force and expedited the transition to a "digitized economy", changing how organizations and people interact.

Tokens & Cryptocurrency:
- Tokens have allowed for the creation of new incentive structures and economic models that enable a decentralized team and the formation of DAOs.

Blockchain, Smart Contracts & AI:
- AI and blockchain have enabled the disintermediation of traditional methods for protecting IP and documenting ownership.
- Digital assets and smart contracts have created more efficient ways to control and track IP by automating access controls and recording provenance on a trusted immutable ledger.
- AI enables a more targeted means to facilitate connections and automates processes with prohibitively large labor requirements (e.g., IP infringement review)

Digital Collaboration Tools:
- Covid-19 has expedited the trend towards web-based collaboration as a regular means for interaction. New technologies have enabled web-based interaction to be more powerful than ever.
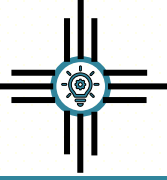
Artificial Intelligence & Automation:
- AI and automation have significantly changed demand in the labor market. In a more competitive labor market users will benefit from the chance to demonstrate their abilities, learn new skills and create new opportunities for themselves.

Cloud Storage:
- Cloud has made content sharing and data transparency more accessible than ever.

Technological and economic tailwinds will create growth opportunities for years to come

Quilt is a network based ecosystem that provides affordable real-time IP management, and a secure fluid market for IP transactions that will allow users to benefit from the emerging economy.

The evolution of the **future economy will rely upon**, secure and fluid **markets for IP exchange**, and **real-time,** affordable **IP protection** / management to regulate the economy. The need for **shared and reliable data** has become critical to health, social and economic well-being.
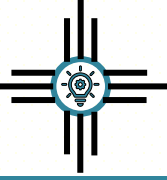
The value of IP will continue to appreciate as a correlation to the value of data. As the economy continues to move towards digitization it is **critical that IP rights keep up with the pace of a "real-time" economy**. Digitization of intellectual property as an asset will prevent economic hindrance currently at **risk due to archaic IP standards**.

As a result of the hyper-specialized economy, competitive forces are driving new ventures and incumbents alike towards **ecosystem based value chains** of commonly incentivized parties to meet the needs of the market. Mitigation of collaborative risk is critical to the ecosystem environment.

Increasing availability of data will enable the **hyper-specialization of products** that are tailored to each individual end-user's needs. As a result of the complexity and hyper-specialization of the process, **ownership over IP** and production knowledge of such products will become **increasingly valuable**.

As costs of production are driven downward by automation and more affordable materials, the **economy will become increasingly reliant on IP. As a result of the "commoditization" of the production process,** the value of products will be assigned to IP rather than allocated amongst manufacturing, logistics, etc. under present day value chains.

Creator

Matt Lopes

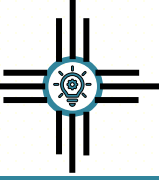

Experience

· **A P T I V** ·

accenturestrategy

RSM **KPMG**

A strong believer in technology as a means of providing opportunity to all people, Quilt was inspired by a failed attempt to assist with an unrelated project and the frustrations in finding stakeholders necessary to bring the project to fruition. The initial concept for Quilt began in 2016 as Matt explored the opportunities to leverage blockchain and artificial intelligence to change the way we innovate. From 2016 through 2024 Matt conducted a great deal of research and introspection regarding the fundamental drivers of innovation and how new technologies will change traditional views of these drivers.

As is the case with all significant technological advancements, there is a risk that the most vulnerable members of society will be marginalized further. The drive and inspiration for Quilt is to provide the opportunity for all willing members of society to contribute to the new economy and create individual prosperity. Matt is passionate about leveraging technology as a means to solving systemic issues rather than creating new ones.

Matt has 10+ years of experience as an M&A, strategy, and financial practitioner in the software & technology industry. As a member of the Corp Dev team at Aptiv he experienced first hand the importance of IP when investing in, acquiring, and collaborating with companies. In addition to his duties as an M&A strategist, at Accenture Matt gained product management experience in the development of a new product which was marketed and sold to clients as part of a formal service offering. Matt was responsible for the development and roll-out of the product on various transactions. As a manager in KPMG's Deal Advisory practice Matt advised a range of venture capital and growth equity firms throughout the transaction process. At KPMG Matt gained substantial knowledge of the software & technology industry and its customary business models. With this knowledge he has proposed a new platform business model for Quilt, highlighted by a diverse revenue model and unique incentive structure enabling a more equitable and distributed way to innovate.
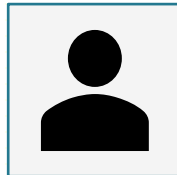
Co-Creator & Advisory Roles

AI Expert: Person to lead development of infringement and connection algorithms for the publishing system, including those linking to external databases (e.g., Patent office APIs)
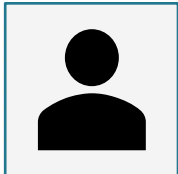
Blockchain Expert: Person to lead development of network tokens (IDC, NDC1, NDC2) and the associated blockchain stack, tokenomics for the network, and DAO governance
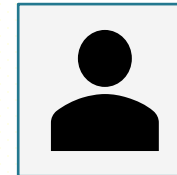
Architecture Design: Person to oversee the holistic technology design across all aspects of the network. This individual will own the network's technology stack

UX Design: Person to lead development of the network front-end, with a heavy focus on ease of use and simplification of blockchain interactions. This individual will also be responsible feature design
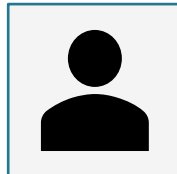
Head of Research: Person to lead the design of research related tools alongside UX Design. Individual will have extensive experience in academia and research to help understand the needs of the target user group
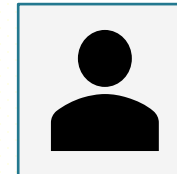
Head of IP: Person to lead structuring and enforceability of user IP contracts and IP protection options and limitations. Individual will have both legal and commercial experience
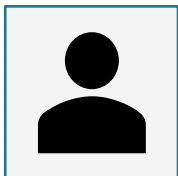
Corporate Lawyer: Person to lead all aspects of corporate law including structuring and enforceability of user corporate formations, contracts, and securities law, etc.
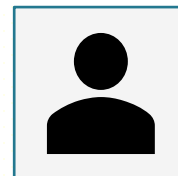
Support Developers: Individuals to help support the development of the network which will span across AI, Blockchain, UX, and Architecture

Appendix

Matt Lopes

Purpose

Matt Lopes
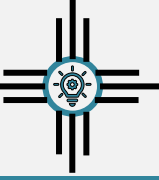
Quilt will create an environment specifically designed to address the complexities of today's challenges

Problem

Solution

Complex Issues

- Solutions to the issues that currently plague the world require teams of highly skilled individuals across multiple disciplines.

- Connect users across various backgrounds, industries and disciplines based on the content that they curate via a web-based platform which provides a variety of collaborative tools.
- Align users based on a common purpose regardless of industry vertical or expertise and enable them to connect and collaborate with the required resources to bring said purpose to action.

Systemic Barriers

- Collaboration is inhibited by systemic barriers created by society's current approach to innovation and intellectual property.

- Providing resources on a web-based network platform will enable a greater number of individuals to contribute to innovation.
- Utilizing blockchain, artificial intelligence and modern collaboration tools Quilt will eliminate systemic barriers that previously have prevented a web-based network from becoming an effective vehicle for innovation.

Quilt will improve innovation by leveraging technology to break down traditional barriers and create a more inclusive environment

Systemic Barriers

Problem

Solution

Resource Access

Problem
- The current approach to innovation has resulted in the centralization of resources and knowledge.
- This approach negatively impacts both centralized entities and third parties by eliminating the potential for cross functional collaboration and limiting the number of individuals who can contribute.

Solution
- Quilt will provide a variety of shared resources via a web-based platform which will foster greater inclusion among a variety of disciplines
- Quilt will decentralize knowledge, disseminating like content across industry verticals enabling cross-discipline connections and collaboration.
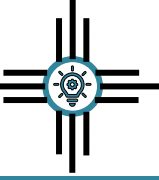- The network will offer a searchable archive of user curated content, facilitating connections to other users and related content based on likeness in content rather than industry or vertical identification and degrees of relationship.

Incentive

Problem
- In the current environment two innovative forces have historically been at odds with each other; monetary benefit & technological progress.
- Competition has incentivized institutions to limit access to resources and collaboration with third parties.
- Open source intellectual property enhances collaboration, however, lacks the competitive forces that help to drive innovation.

Solution
- Quilt will utilize the Idea Coin token (IDC) to incentivize users to contribute to the network including operating the decentralized publisher protocol, participating in governance, increasing usership, publishing public content and performing other tasks for the site / individual projects
- Stake in each user developed project (i.e. intellectual property) will be represented by unique project ERC721 or 1155 NFTs (NDC1) who's value will be linked to other projects via an IDC escrow requirement[1]; thereby creating a like interest among all projects
- User status system will incentivize users to produce content, perform services for the network, compete in site-wide competitions and take courses at partner sites / institutions in order to increase their standing among other members of the network. The status system will help to create a more active user base.

[1] Once decentralized governance is live, users will receive a voting proxy token 1:1 with IDC held in escrow as to not penalize user voting power for registering content.

Quilt will improve innovation by leveraging technology to break down traditional barriers and create a more inclusive environment

Systemic Barriers

Problem

Solution

Risk

Problem:
- Risk of IP infringement is a major collaborative barrier.
- Current protections (e.g. patents, copyrights, etc.) are costly and cannot keep pace with a fast moving collaborative environment.
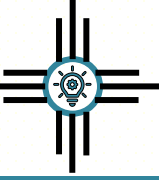- Protections often times do not apply to early stage ideas and are not recognized internationally.

Solution:
- Utilizing the Blockchain Publishing System and Automatic Referencing Function, users will maintain control over their IP while allowing other users to access their content.
- Quilt will perform infringement analyses to ensure that users do not plagiarize or pirate other users' content without proper reference or authorization.
- Quilt will identify connections with other users without requiring the sharing of content
- Further visibility into potential collaborators will be provided by the Risk Profile offered by the network based on information provided in user profiles and curated content.
- Users may license IP (NDC1) via ERC20 or NFT tokens (NDC2) tied to it.
- Required agreement to standard terms and conditions and NDAs prior to creating a collaboration effort or gaining access to another user's content.

Social Network Quality

Problem:
- Although social networks provide for greater access to resources and enable users to connect and collaborate with a wide variety of individuals, the current state of quality leaves much to be desired.
- Today's social networks are plagued with fake accounts, malicious users, fake content, etc.
- With no proper quality control process, current social networks are rendered useless for individuals seeking to collaborate in a serious manner.

Solution:
- Quilt will ensure the quality of its user base and content by performing the following;
  - On-boarding vetting process
  - Content peer-review (for certain content classifications)
  - User status system
  - Terms of use / abuse monitoring
  - Qualified domain requirements (posting links / URLs)

Quilt will improve innovation by leveraging technology to break down traditional barriers and create a more inclusive environment

Systemic Barriers

Resource Gap

Problem

- Distribution of early stage capital is often centered around specific relationships, limiting those who can gain access.
- In the current landscape there are few resources provided to innovators prior to the inception of a marketable idea.
- Incubators attempt to fill this gap, but often times focus on narrowly defined industries and limit the number of individuals who can contribute.

Solution

- Traditional venture capitalists and accelerators do not invest in early stage ideas as a result of uncertainty, however, such uncertainty makes early stage ideas perfect for decentralized capital sources. Potential start-ups will gain access to a large pool of resources, while resources mitigate their risk by limiting their stake.
- The varied user base will make resources and mentorship previously provided by VCs and accelerators available to all users.
- The Idea Marketplace will enable users to market, monetize, and trade / share their early stage intellectual property with other users. Creating a market for early stage ideas will ensure that novel ideas are not lost and bolster interest / value in early stage ideas.
- Quilt will provide a quality pipeline of potential future investments for venture capital firms and accelerators.

Matt Lopes

Business Strategy Overview

Revenue Model

Traditional Revenue

- Entity & **premium** subscriptions
- **Transaction** fees
- **Usage** & service fees
- **Partnership & referral** fees

Traditional revenue steams will support operations until non-traditional revenue streams have the opportunity to ramp up. Transaction fees include the creation and exchange of digital assets or donations. Potential usage & service fees include; content publishing, secure connection features, storage limits, premium feature access, incorporation services, etc.
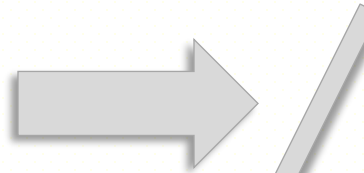
Non-Traditional Revenue

- **Equity** via digital assets
- **Finder's Fees** from investors and accelerators
- **Native token** appreciation
- **Publisher Protocol** and **IP Archive**

Non-traditional revenue streams, while delayed, have potential for significant upside. Non-traditional revenue opportunities will grow as the networks notoriety increases.
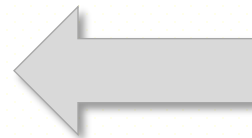
Unique Cost Structure
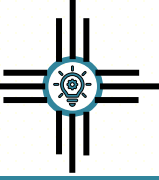
The structure of the Quilt network will enable it to scale at a better margin than traditional network platforms

Distributed Workforce

Users will be incentivized to perform tasks for the network that would traditionally be performed by internal employees including; operating the decentralized publisher protocol, new user vetting process, content peer-review, conflict resolution, identifying new users, etc.

Native Currency
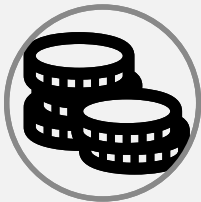
Micropayments to users (and potentially other service providers) will be in the form of the native token which will represent a sunk cost in the form of development costs. As the network scales so to will the cost avoidance resulting from the currencies use and subsequent appreciation.

Matt Lopes
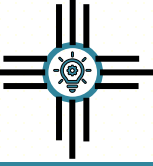
Customer Acquisition

- Entrepreneurs, developers and collegiate students are expected to be the earliest adopters of Quilt (e.g. MBAs, research students, etc.).
- The process of searching for resources, pitching ideas, and publishing peer-reviewed research is already part of these students' day-to-day, however, Quilt will offer a more efficient / effect means of doing it.
- We expect IP dependent and digital native industries such software, biopharma, materials science, creative industries, etc. to be early adopters, however, expect other industries to join as benefits are proven.

Strategic Partnerships

- Quilt will develop strategic partnerships with schools and academic institutions to demonstrate how Quilt can improve their programs
- Strategic partnerships will be created with other primary users of Quilt including, but not limited to; accelerators, investors, established enterprises, non-profits, educational sites, etc.
- Referral and content partnerships created with educational sites, legal service sites, and other enterprises and institutions with mutual benefit
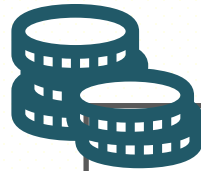
Initial Content Offering

- Unlike many networks, Quilt will issue the IDC token for user developed content rather than funds, in order to create active users rather than passive investors
- Quilt will build out the IP Archive with existing content, research and intellectual property in order to attract users to the site as a central authority for specific categories of content.
- Content obtained during the ICO will be used to further refine the site's proprietary algorithms.

Direct Outreach

- Quilt will develop a network of student representatives to cultivate on-campus relationships
- Competitions with be hosted with a purse of IDC for winners in order to spark interest
- New users will have the option to join in diverse "cohort" classes in order to create initial relationships increasing retention and sparking greater interest
- Traditional online ad campaigns will be leveraged in order to reach a targeted user base

Initial Product Launch (Open Incubator Program)

> **Once a MVP is created, Quilt will host open an incubator program for individuals interested in high priority areas / markets that Quilt is interested in fostering a community for**

Goal	To create initial user communities (and content base) that both have an immediate purpose for using the network and the potential to continue to use the platform even after their initial interaction. Opportunity to hone algorithms on very early stage content. Gain early feedback on UX and opportunity to incubate the first major breakout venture on the network
Targets	Technical and non-technical aspiring entrepreneurs who either already have an idea they seek to pursue (and require partner(s)) or individuals interested in brainstorming and collaborating on innovative ideas in the specified areas
Program	Quilt will offer in-person / virtual, full-time / part-time, cohort oriented sessions to maximize access while creating a focused atmosphere. Attendees will submit their "purpose" and background which will be used by Quilt's connection features to slot them into cohorts and provide potential collaborators. The program itself will be held on platform and consist of content focused on optimizing their Web 3 experience and providing them with everything they need to get from idea inception to initial demo, with potential Quilt investment as the prize. Specific content includes: collaborator intro sessions, orientation (to Quilt and Web 3), open and structured brainstorming sessions, pitch parties, development, business and legal support, etc. all culminating into a demo day and minting of their first NDC1 on Quilt
Benefits	The Quilt open incubator program will provide aspiring entrepreneurs with the opportunity to meet a co-founder team or pursue their ideas as a community. Additionally, attendees will receive hands on support to help them from the ideation phase through to their initial demo, all on a platform that they can continue to use as they further expand and launch their venture. Once graduated from the program, Quilt will help them to find potential investors and potential monetization opportunities through licensing and further collaboration with other users in the network. In addition to the traditional incubator benefits, the Quilt open incubator platform will teach participants how to optimize their venture outcomes by leveraging Web 3. As Quilt will target non-native Web 3 participants as well, it will have the added benefit of onboarding new users onto Web 3

Initial Product Launch (Academic Institutions)
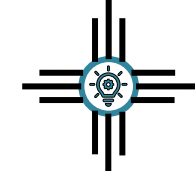
Once a MVP is created, Quilt will approach academic institutions who may be interested in using Quilt as a tool for augmenting existing course work and offering an enhanced digital collaboration environment

Goal
To create an initial user (and content) base that both have an immediate purpose for using the network and the potential to continue to use the platform even after their initial interaction. Opportunity to hone algorithms on "low risk" content. Gain early feedback on UX and create early long-term partnerships. Create integrations with existing tools (i.e., research tools, etc.)
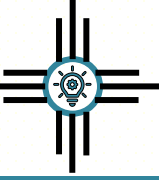
Targets
Schools who generally focus on specific or specialized majors (e.g., business / entrepreneurial, engineering fields) and/or place emphasis on conducting research are the best candidates, who will benefit most from using the Quilt platform in its earliest days

Program
Quilt will partner with academic institutions to create a project-based curriculum including (1) business plan / product design projects where engineering students create an idea / design for a new product or "widget", publishing it to Quilt. Partnering business programs will have their students either a.) publish their own ideas and business plans (which an engineering student can design / develop in the next round of projects) or b.) find an idea, product, "widget", etc. already published by an engineering student and partner up to create a business plan for it; and (2) lab projects or research that publish live data, results, and findings and incorporate data, results, and findings from other research, prior classes, or other classmates to improve / augment research and course work including use of auto referencing or licensing features

Benefits
Quilt will enable academic institutions to provide unique collaborative experiences for their students while creating continuity and purpose to their students' work, resulting in better outcomes. Quilt will enable academic institutions to (1) augment their curriculum by offering "real-world" cross domain collaboration experiences with "real-world" objectives, (2) expand research, project-based learning, and creative opportunities beyond their immediate network, (3) leverage emerging technologies to enhance course offerings and improve recruitment of top talent, (4) create continuity for their students' work enabling it to live on across years / classes and expand upon and connect with other ideas, (5) create clear purpose to their learning objectives and opportunity for students to monetize their academic efforts and achievements, and (6) create meaningful relationships amongst their student body, alumni, and partnering institutions

Matt Lopes

Product Overview

User Interface

User Profile & Wallet

Idea Marketplace

Content Stream

IP Archive

Content Developer

Collaboration Tools

Other Tools

- Similar to most social networks, each user will have a personalized profile denoting a users interests, skills, purpose, user type, collaborative preferences, etc. and inventory user posts and developed content. Customizable dashboards will allow users to track IDC balance, NDC1 / NDC2 holdings, collaboration groups, to-do list, etc.

- Users can stake in, acquire rights to and trade intellectual property using digital assets via the Idea Marketplace which is linked to the IP Archive.

- Users will have access to both public and private content streams which may be filtered based on user desired preferences.

- Quilt will maintain a searchable archive of user developed content (e.g. search by content rather than user). Users can publish content to the IP Archive via the blockchain publishing system

- Operating in a similar nature to a "Google Docs" or "Drop-Box", users may create a share-drive for various projects (both public and private). User can produce a wide range of content from text, spreadsheets, presentations, and video to network applications and tools.

- Quilt will offer various communication tools including content posts, messaging, debates and challenges, video (with transcribing), open chatrooms and public projects. Additionally a number of collaboration tools including a word processor, spreadsheet, presentation developer, Git, and templates (business plans, experiment summaries, whitepapers, etc.) will be provided to users. The network will encourage its users to develop new tools and applications that may be leased / sold to other users of the network.

- Quilt will also offer industry / vertical specific tools & analytics in order to become more embedded into a user's normal course of operations and amplify user benefit. For example, a research tool to help document / analyze experiment results. The data collected from this tool will then help to connect the user with other users and resources. Conversely, the network may provide integrations with existing software and tools in order to limit development costs, eliminate user adoption limitations and prevent work process disruption for users.

Site Organization

Patches: A single idea or topic within an individuals' private workspace

Blocks: A group workspace that may join together multiple patches or serve as a collaboration space to progress a single patch

Cornerstones: A general grouping to organize around specific topics, industries, etc. Patches and Blocks may associate themselves with a Cornerstone(s)

Frames: A network defined channel that dictates the type of content that can be published or curated and determines the available tooling (e.g., Enterprise, Research / Academic, General)

- Patch
- Block
- Cornerstone
- Frame

Matt Lopes

Governance

Quilt Network governance operates as a modern democracy, with the Quilt Foundation operating as a limited executive with certain proposal, voting and veto rights, delegated representatives proposing and voting on network decisions as legislative, and network infrastructure operating as immutable judiciary

Protocol Driven Enforcement

Quilt Foundation

- Initially all network decisions will be made by the foundation, but will evolve as the network grows
- Upon decentralized governance go-live, change proposals and network decisions will be made via a structured voting process
- The Quilt foundation will have a specified number of votes to cast in decisions and hold a veto right on certain types of proposals to ensure no destructive or self-serving actions are taken
- Proposals will be clearly socialized to network participants and will take place during specified windows to ensure a fair and engaging process

Delegated Representatives / **Quilt Partners** *(Temporary)*
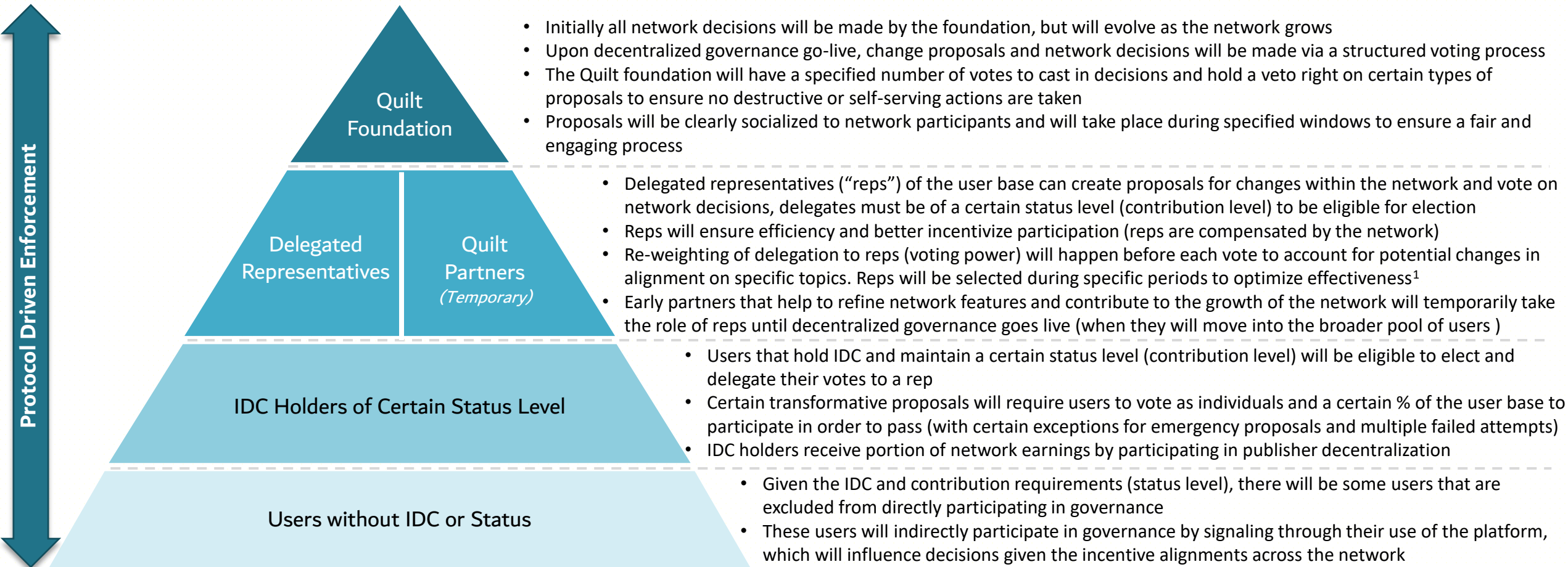
- Delegated representatives ("reps") of the user base can create proposals for changes within the network and vote on network decisions, delegates must be of a certain status level (contribution level) to be eligible for election
- Reps will ensure efficiency and better incentivize participation (reps are compensated by the network)
- Re-weighting of delegation to reps (voting power) will happen before each vote to account for potential changes in alignment on specific topics. Reps will be selected during specific periods to optimize effectiveness[1]
- Early partners that help to refine network features and contribute to the growth of the network will temporarily take the role of reps until decentralized governance goes live (when they will move into the broader pool of users)

IDC Holders of Certain Status Level

- Users that hold IDC and maintain a certain status level (contribution level) will be eligible to elect and delegate their votes to a rep
- Certain transformative proposals will require users to vote as individuals and a certain % of the user base to participate in order to pass (with certain exceptions for emergency proposals and multiple failed attempts)
- IDC holders receive portion of network earnings by participating in publisher decentralization

Users without IDC or Status

- Given the IDC and contribution requirements (status level), there will be some users that are excluded from directly participating in governance
- These users will indirectly participate in governance by signaling through their use of the platform, which will influence decisions given the incentive alignments across the network

[1] Having election windows and specified terms will allow reps focus on meaningful proposals and network governance, rather than constant posturing and jockeying for election.

Publisher Decentralization

- Quilt's core protocol, the publishing system, which mints tokens, polices infringement, and facilitates connection, will ultimately be fully decentralized. Decentralizing the publisher will ensure Quilt's continuity through a self sustaining economic model
- The publisher will use a proof-of-stake ("PoS") consensus mechanism where participants are required to stake IDC, and if they execute within required guidelines, receive IDC rewards for their services. Similar to popular PoS networks, transactions will carry a fee from users, with a specified amount being burned to manage supply and slashing for non-performing participants
- The below outlines key roles in Quilt's decentralized publisher economic model

Validators

Description:
- Operate the publisher protocol by providing compute and running nodes that host the software and execute the consensus mechanism

Compensation[1]:
- Required to stake IDC, validators receive rewards for executing transactions and are slashed for non-performance

Considerations:
- Should further separation occur for each activity (e.g., minting, policing and connection)?

Arbitrators

Description:
- Arbitrators operate as the "human component", reviewing publisher infringement results when necessary and performing dispute resolution between users[2]

Compensation[1]:
- Required to stake IDC, arbitrators receive rewards for services, and slashed if an appeal to the foundation results in a finding of malfeasance

Considerations:
- How to optimize efficiency and not create a "human" bottleneck?

Representatives

Description:
- "Elected" by users, reps perform governance activities on behalf of the broader community by proposing changes and voting on key network decisions
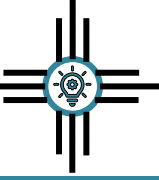
Compensation[1]:
- Required to stake IDC, reps receive regular compensation for active participation and removed from the network entirely for malfeasance

Considerations:
- Checks and balances for the rep removal process?

[1] Dependent on network activity. [2] Arbitrators will be required to be of a certain status level (e.g., contribution level) and posses the appropriate skill / expertise and pass a training program
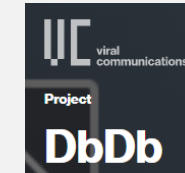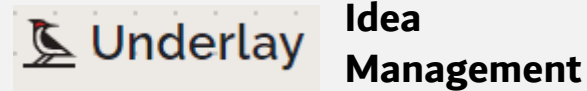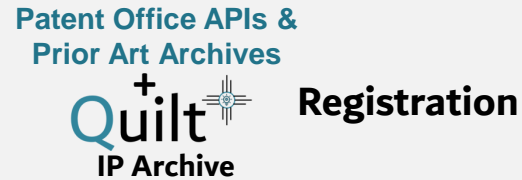
Illustrative Infrastructure Inputs & Components
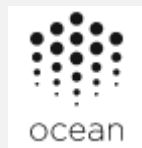
User Interface

Platform Analytics

Quilt Connection   Quilt Publishing   Quilt Infringement Protection

Manage-ment

Patent Office APIs & Prior Art Archives + Quilt IP Archive   Registration   Underlay   Idea Management   viral communications Project DbDb   Data Management   Gnosis Safe + Zodiac   DAO Governance

Protocols

ocean   Ocean Protocol   or ENS or Farcaster Identity   STORY molecule   IP Protocols   Quilt   Proprietary Protocols

User Content Storage

IPFS   STORJ   On-Prem   Cloud

Platform Data

IPFS   OR   STORJ
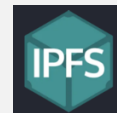
Blockchain

STORY PROTOCOL

Quilt

Matt Lopes

Token Parameters

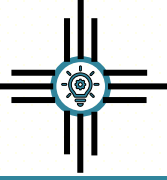|	IDC		NDC1	
	Native Token	**Voting Proxy Only Token**	**IP Token (Option 1)**	**IP Token (Option 2)**
Token Type	**ERC-20**	**ERC-20**	**ERC-721 NFT**	**ERC-1155 NFT**
Description	• Quilt's native token will be used to perform actions, make purchases, etc. on the network • Quilt will use payments of IDC from its treasury to incentivize users to perform activities to support the network (i.e., operating the publisher protocol, participating in governance, etc.)	• Users are required to hold IDC tokens in escrow (stake them) when creating a new project / publishing content, in order to not disadvantage productive users once governance voting is launched, users will receive a voting version of their IDC held in escrow to participate in network voting	• When users publish new content or IP an IP token is created to document ownership rights and manage access to the underlying content itself • Whomever owns the IP token owns the rights to the underlying content • Ownership can be divided amongst users as described in subsequent sections	• If users choose to bundle multiple pieces of content or ownership rights (e.g., merge two pieces of IP or ownerships rights into one or create a derivative product) then they may choose to use an ERC-1155 token to marry multiple ERC-721 (NDC1 or NDC2) and ERC-20 (NDC2) tokens into one token
Key Parameters (input criteria & key meta data)	• No inputs – *Considerations Below* • Mechanism for managing the total supply of tokens • Who can acquire IDC? Users only or open to the market (when should this go-live)? • Gas fees – must be relatively low or will require some subsidization from the network	• No inputs – *Considerations Below* • Transferable or not (e.g., what happens if content is sold, should the voting IDC go with it? Should this be an option vs. a requirement)? • Amount staked – minimum requirement, but users can stake more (staked IDC becomes signal for popular projects) • If users choose to release the IDC from escrow (un-stake) then associated NDC1 is destroyed and content becomes public domain	• Who has initial ownership over the IP (single user or many) and method for distributing ownership if many (i.e., multi-sig wallet, DAO formation with vault and voting, etc.) • Relationship with other NDC1 or NDC2 (i.e., derivative IP, royalty requirements, etc.) • How, when, who it can be traded to (e.g., regulatory restrictions) • Associated legal agreements and IP rights assignment • How long NDC1 / ownership rights last (e.g., until become public domain) • How to pay the network for minting (IDC or interest in NDC1)	
Consider-ations	• When IDC will be issued to users & when incentives stop or decline (i.e., initial content offering, public content publishing, feature development, grants, sale of IDC to fund operations, user referrals, etc.) • In addition to private publishing, what other features users will pay IDC for	• How to optimize voting outcomes for user base based on issuance limitations on voting tokens • Should voting token be tied to amount of IDC held, 1 per person, based on content published or contribution to the network, etc.?	• What is the best way to manage trading and partial ownership of these tokens without triggering securities law? • Is using the ERC-1155 token the most efficient design for linking the IDC escrow with the underlying IP (e.g., least gas requirements)? • Should assignment of ownership rights to the token take the form of a standard legal contract or leave room for more advanced users to customize? Will need to balance flexibility with legal risk as such, will likely become an option as the network grows / evolves	

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Token Parameters

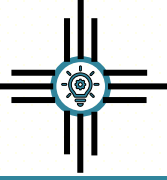|	NDC2			
	IP Mgmt. Token (Option 1)	**IP Mgmt. Token (Option 2)**	**IP Mgmt. Token (Option 3)**	**DAO Governance Token**
Token Type	ERC-20	ERC-721 NFT	ERC-1155 NFT	ERC-20
Description	• To manage usage / access to content across many users or for scenarios where terms are not specific to a particular user	• To manage usage / access to content where terms are specific to a given user	• To manage usage / access to content where terms are specific to a user and includes multiple IP mgmt. tokens or are bundled with other tokens (NDC1, DAO, IDC etc.) • To be leveraged in scenarios where content is a derivative and therefore may have several other NDC2 tokens tied to it	• Users have the option to create DAOs to manage IP rights, in which case users may choose to issue a DAO governance token • Quilt will offer and/or direct users towards tools to help them form and run their DAOs
Key Parameters (input criteria & key meta data)	• Transferability • Content terms of use • Period for which terms remain active, number of times a user can access content, etc. • Attribution requirements • Licensing terms (i.e., royalties, ownership in derivatives, rights to use derivatives, etc.) and license or IP classification • Content provenance (i.e., if content is a derivative, contributors, etc.) • Price, payment method (e.g., IDC or other forms of compensation or services), timing of payment (e.g., all up front or installments) • Supply of tokens			• Rights that the governance token provides • Transferability • Supply • Initial price, payment method, timing of payment • Who can acquire tokens (network participants or the broader market)
Consider-ations	• How to best manage the user experience and make transaction of tokens as fluid as possible (e.g., make interacting with the blockchain and transaction of tokens as seamless and "background" as possible) • Most efficient and effective way to connect with the publishing system to have it manage licensing and attribution terms • Most efficient and effective way to connect with varying document storage options to manage access to content • Determine the best means of token exchange (e.g.., create an internal exchange or leverage an existing external exchange – are existing features sufficient for network needs). If external, best way to connect with the publishing system • What "terms of use" options should initially be offered to simplify smart contract programming at launch (to evolve as network grows) • Best way to monitor content and prevent a ton of poor content and associated "shit coins" from floating around the network			• Guardrails to ensure that securities law is not triggered • Internal vs. external offerings (e.g., how involved the network will be in offering DAO tools vs. directing users towards pre-existing ones). Are existing tools sufficient for network needs. Best way to connect existing DAO mgmt. tools with network actions

Supported by network, technical, and legal protections, attribution may take the form of royalties, academic reference, ownership in new content[1] (NDC1), right to use new content (NDC2), among others

	Create	**Review**
Description	Users have their own working space to develop content which will include many of the tools that they would already be accustomed to	After submitting to the Publishing System content is reviewed against previously published content to identify potential infringements (and suggest connections)
Network Protections	• Users have permission controls over who may access their working space • Users are vetted during onboarding confirming identify, qualifications, etc. • Users' can review potential collaborators' profiles before allowing access to their content or create a new joint work space to control access over prior content • Eventual integrations with third party tools will enable users to store content off-network, but plug into the Quilt the publishing system and marketplace • Prior to submitting for publishing users are required to self classify their content based on media type, sector / industry, topic, etc. which will assist in the publishing review process (and to help facilitate potential connections)	• The Publishing System reviews content in a tiered approach (1) comparing to all content where a previous transaction occurred (e.g., the publishing user had accessed) (2) against all similarly classified content (3) against all published works • Potential infringements will notify the infringed user who will decide whether they agree an infringement took place and can suggest a resolution • If the publishing party disagrees or does not accept an offer, the dispute will move into arbitration by a group of objective users of a specific standing and skill at random • Content held off-network will be required to provide the Publishing System intermittent access to certain types of content (or a subset of the content) to perform the review
Technical Protections	• Any interactions with other users' protected content is recorded to the blockchain via (1) transactions involving ownership of NDC1 / NDC2, (2) payment of IDC to access content, (3) or a 1-1 exchange for free access • Access to non-published content can only be documented on-chain using 2 & 3 above, however, will only document interaction with a user vs. specific content	• The Publishing System considers ownership (or past ownership) of NDC1 and NDC2 when determining if an infringement has occurred • If infringement is identified it may trigger certain smart contracts in NDC2 (e.g., reference to content, minting of NDC1 in new content for the other user, payment of royalty and embedding a royalty in new NDC1, minting of NDC2 for the other user, etc.)
Legal Protections	• During onboarding users agree to terms of use, including arbitration by other users for decisions around network disputes, a general NDA regarding other users content, commitment that they will not use others content without permission, etc. • Users may choose to create a DAO for collaboration / governance purposes; under Wyoming law DAOs may register as a legal entity as a subset of their LLC statute − Quilt will provide guidance to users on filing (along with qualified users who can assist – e.g., lawyers)	• Any infringement would be in violation of terms of use (or other onboarding agreements) and potentially licensing and other agreements associated with NDC2. • In addition to recourse found in arbitrating the infringement, the infringing user will be subject to sanctions pending the nature and severity including, reduction in status level, barring from certain activities on the network for a period of time, monetary penalties, loss of access to content, joint ownership to content, removal from website, etc.

[1] Content refers to anything created or published on the network and encompasses a broad range of intellectual property written documents, data, code, research, product schematics, etc.
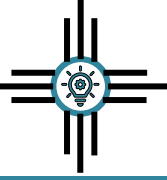
Supported by network, technical, and legal protections, attribution may take the form of royalties, academic reference, ownership in new content[1] (NDC1), right to use new content (NDC2), among others

	Publish (Public)	Publish (Private)
Description	Publishing content documents ownership over content. To do so publicly means that the content is made available to all users of the network	Publishing privately similarly documents ownership, but content is only made available to the publisher and others granted access
Network Protections	• Higher risk as content is made publicly available to the network, but, may rely on the infringement review to identify improper use • Users may do this to publicize content, earn incentives, improve status, etc. • To achieve open access with greater protections users may publish privately and offer free access via 1-to-1 exchange for NDC2 which will document interaction and allow for attribution contracts	• Private publishing enables a user(s) to control access over their content. Content may be limited to users who hold ownership over NDC1, are part of a broader collaboration group, DAO members, etc. • In some cases content may not be stored on network, similar to Ocean's C2D construct • In both cases (private & public) the publisher will extract and classify key identifying data about the content for future infringement analyses (and to facilitate connections)
Technical Protections	• Publishing mints an ERC-721 or ERC-1155 token (NDC1) permanently documenting ownership over content. Access to content will be linked to the NFT, further linking ownership of NDC1 to actual ownership over the content • To mint NDC1 users are required to hold IDC in escrow, creating liquidity and linking content across the network via the value of IDC. Users may acquire IDC from the network by trading ownership in NDC1 (once voting goes live users will receive a voting token at a 1:1 rate with what is held in escrow) • If preexisting NDC2 triggered an attribution requirement (e.g., royalty) then the contract will be passed onto the new NDC1 and any NDC2 derived from it, along with meta data on provenance of the asset • NDC1 ownership can be divided among collaborators by (1) creating a multi-signature wallet to hold a single NDC1, (2) issuing NDC2 that holds full access rights, or (3) forming a DAO (or vault) to control (or store) NDC1 with ERC20 tokens identifying interest	
Legal Protections	• Pending the type of content, users can consider linking traditional legal protections to their NDC1 assets (via an assignment agreement), tokenizing the associated rights • Users will have the option to register for "real world" legal protections under government authorities and assigning those rights to their NDC1. The easiest protections to link are IP ownership and copyrights, which are not required to be registered with government authorities (although advised to do so), however, may also register for patents, trademarks, etc. • The network will guide users to legal considerations / typical protections based on content, and have resources to support the process, but ultimate responsibility for registration is on the user who will have to share documents to certify authenticity. Credentialed users (e.g., lawyers) on the network may also be used to support individual users as agreed upon • If a DAO is registered as a legal entity then ownership and associated rights in the content / NDC1 asset can be legally transferred to the DAO. All associated agreements, IP registrations will be made under the DAO's legal entity • Users should consider that any public publishing of content will likely be considered a public disclosure for purposes of registering for IP protections	

[1] Content refers to anything created or published on the network and encompasses a broad range of intellectual property written documents, data, code, research, product schematics, etc.
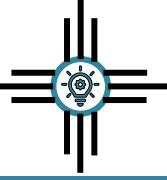
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Supported by network, technical, and legal protections, attribution may take the form of royalties, academic reference, ownership in new content[1] (NDC1), right to use new content (NDC2), among others

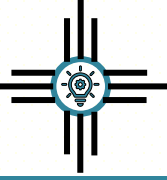|	Collaborate / Monetize	Monitor
Description	• Users can share / license content to other users in an effort to collaborate or monetize their intellectual property using the IP Marketplace	• Infringements are monitored by the publishing process, paid network scans, and by individual users
Network Protections	• Users can control where content is stored and how it is accessed by others. Users can prevent others from taking possession of their content by 1) maintaining content on-prem and enabling users to run compute operations on it (e.g., similar to Ocean's C2D framework), 2) preventing export of content from the network, 3) read-only access, etc. • Users can dictate what is shown (e.g., summaries or examples) on the marketplace and to potential collaborators before they interact	• An IP management dashboard will enable users to monitor views and access to their own IP and inventory tokens and past transactions they were party to • The primary source of monitoring is the publishing process described, but users may pay IDC to perform a scan of the network for similar works • If an infringement is identified from a paid network scan or by an individual user it will be subject to the same conflict resolution process as publishing review
Technical Protections	• Users can mint ERC-20 or NFT tokens ("NDC2") to create controls around how their content is used by others or in the case of a DAO, to govern NDC1 • NDC2 contracts define parameters for interacting with content incl. access and term, transferability (e.g., may be non-transferrable to trigger attribution), compossibility (e.g., if it can be sublicensed), etc. • NDC2 contracts also define the type of attribution required (i.e., royalty, reference, ownership rights in derivatives, right to use derivative, etc.) and terms of use • NDC2 can only be minted if it originated from a user holding NDC1, and will carry any attribution contracts associated with the NDC1 it is derived from • NDC2 transactions document the relationship between users for future infringement reviews	• The publishing system will monitor for infringement when other users publish content. Infringement identification by the publishing AI is assisted by (1) querying blockchain transactions that have occurred between parties (IDC, NDC1, NDC2 as described) and (2) content classification at the time of publishing • The publisher documents classifying information about published content (e.g., user, topic, etc.) and unique components that differentiate it from other content (e.g., keywords, word or code strings, etc.) which are later used to compare against new content. Information is both provided by users and identified by AI • An identified infringement activates related NDC2 contracts • Users may conduct their own searches leveraging the sites content search engine which may be powered by applying generative AI tools to local network content
Legal Protections	• Coinciding legal agreements are created to represent the terms set out in NDC2 (e.g., license, assignment, royalty, etc.). Accepting the transaction surmounts to digitally signing the agreement creating legally enforceable documents • Quilt will offer template agreements for the most common types of transactions • DAOs can act as Collective Management Organizations for IP	• In addition to the mitigations provided by the network, users who opted to link NDC1 and NDC2 with legal agreements will have legal recourse tied to the associated agreements • Unless otherwise stated, the legal agreements would use arbitration by the network as a means for settling disputes making decisions legally binding

[1] Content refers to anything created or published on the network and encompasses a broad range of intellectual property written documents, data, code, research, product schematics, etc.
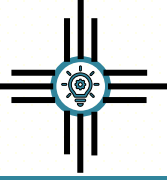
	Action	Description	Legal Considerations & Documents
Initial Publishing	**Establish Initial Ownership**	Ownership and rights to published content are documented and assigned to the holder of the associated NDC1	▪ **Assignment agreement:** when users publish content and create NDC1 an assignment agreement will assign ownership, IP rights, copyright, etc. to holder of the NDC1. Any prior license agreements, etc. associated with the content will also be assigned. If applicable, users may assign registered protections as well (e.g., patents)
Academic Publishing	**Proper Attribution**	Require users to give appropriate credit, citation, etc. for use of content in any derivative or new content. Enforcement contract managed by non-transferrable NDC2 and transaction meta data	▪ **Creative commons licenses:** Academic or open access content may issue NDC2 with a creative commons license attached which is used to set the parameters of the associated smart contract and meta data of the transaction
IP Licensing	**Royalties**	User receives a set payment any time 1) content is used in any derivative or new content 2) content is accessed, subscription based access, etc. 3) access to content (NDC2) or IP rights are exchanged (NDC1), etc. Enforcement contract managed by NDC2/NDC1 and transaction meta data	▪ **Royalty agreement:** royalty agreement outlines the terms of payment and is used to set the parameters of the NDC2 smart contract and meta data of the transaction ▪ **License agreement:** outlines how the content may be used and will further set the parameters of the NDC2 smart contract and meta data for infringement monitoring and enforcement
	One-Time Fee	User receives a one-time payment for access to content. Term of access (one-time, perpetual, time capped, etc.) managed by NDC2 (may or may not be transferrable; burned for one-time access) and transaction meta data	▪ **License agreement:** outlines how the content may be used and will further set the parameters of the NDC2 smart contract and meta data for infringement monitoring and enforcement
	Ownership in Derivative	User receives an ownership interest in any derivative or new content that uses their content. Access to content and enforcement contract managed by non-transferrable NDC2 and transaction meta data	▪ **Royalty agreement:** royalty agreement outlines the terms of ownership in derivative and new content using original content which will set parameters for the smart contract and meta data of the transaction ▪ **License agreement:** outlines how the content may be used and will further set the parameters of the NDC2 smart contract and meta data for infringement monitoring and enforcement
	Use of Derivative	User receives the right to use or license to any derivative or new content that uses their content. Access to content and enforcement contract managed by non-transferrable NDC2 and transaction meta data	▪ **Royalty agreement:** royalty agreement outlines the terms of use in derivative and new content using original content which will set parameters for the smart contract and meta data of the transaction ▪ **License agreement:** outlines how the content may be used and will further set the parameters of the NDC2 smart contract and meta data for infringement monitoring and enforcement

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	Action	Description	Legal Considerations & Documents
IP Acquisition	**Full Acquisition**	Users sells 100% of the rights and ownership over content to another user. Access to content and enforcement of contract managed by NDC1 and transaction meta data	▪ **Purchase agreement:** Outlines the terms of the content acquisition which will be assigned to the associated NDC1. Meta data from the purchasing transaction will reference the purchase agreement and be published to the blockchain ▪ **License agreement:** Outlines the residual rights the seller will have in the content, rights the buyer will have any derivative content that was previously developed using the content acquired, or if any of the previous IP licensing considerations apply to the seller
	Partial Acquisition	User sells partial ownership rights in content to another user(s). Fractional ownership in NDC1 governed in one of several ways 1) holding NDC1 in a multi-sig wallet, 2) holding NDC1 in a vault and issuing NDC2 to represent interest, 3) issuing NDC2 with full access rights, etc.	▪ **Purchase agreement:** Outlines the terms of the content acquisition which will be assigned to the associated NDC1. Meta data from the purchasing transaction will reference the purchase agreement and be published to the blockchain ▪ **License agreement:** Outlines any unilateral licensing rights that the buyer has (e.g., what they have the ability to do without full consent from the other owners), unilateral rights that the seller(s) have, and if any of the previously mentioned IP considerations apply to derivative or new content ▪ **Membership agreement:** Outlines the terms of membership to the group of IP owners, what any NDC2 does or doesn't represent in relation to the group, etc.
	Pre-Development Acquisition	User agrees to fund / pay for development of content in exchange for ownership in the resulting content. Access to collaboration space / content managed by NDC1; associated development agreement assigned to NDC1. Completed content is linked to original NDC1 and above 2 scenarios come into effect	▪ **Development (research, collaboration, etc.) agreement:** Outlines the terms of the work and content to be created, compensation, ownership over resulting IP, etc. This agreement is key to establishing the relationship between parties, the outcome of the relationship, and resulting economic rights. ▪ **License agreement:** Pending the terms of the arrangement a license agreement may be used to outline the rights one party may have to use the content (if they will not have ownership over it) and/or if any of the previous IP licensing considerations apply to either party
DAO Formation	**Create Governing Entity**	Users create a DAO for the purposes of managing collaboration, controlling IP, etc. NDC1 may be held in a vault or multi-sig wallet with NDC2 issued to control voting / decision making, etc. within the DAO	▪ **LLC Agreement:** If users choose to register their DAO as a legal entity they may choose to do so under the Wyoming DAO LLC law, in which case a formal agreement and registration will be required ▪ **Membership Agreement:** Outlines the terms of membership to the group of IP owners, what any NDC2 does or doesn't represent in relation to the group, etc.

Mitigating "Off-Network" Infringement Risk

> **Preventing users from publishing content that infringes on "off-network"[1] protected IP is critical to maintain the integrity of the network. Quilt will use a multi-pronged approach to combat "off-network" infringement**

1 Legal Mitigation

- During onboarding, the terms of use will state that legal liability for publishing infringements resides with the publishing user and outline the associated consequences
- To further mitigate potential legal actions, Quilt will continuously implement preventative and detective measures (outlined below) and maintain an action plan in the event that a material infringement does occur (i.e., dispute resolution, removal from the network, monetary compensation, etc.)

2 Automated Prevention

Quilt will take a 3-pronged approach to prevent users from publishing content that they do not own and monetizing it
- **Prevent users from publishing content infringing on protected IP:** Quilt will connect to existing IP database APIs (i.e., EPO's Espacenet, WIPO Patentscope, etc.) and run it's infringement algorithms to identify potential infringements[1]
- **Prevent users from publishing plagiarized content:** Quilt will develop or leverage a third party plagiarism checker (e.g., Turnitin)[2] to review for plagiarized content prior to publishing. This approach is similar to that of many academic institutions (one of Quilt's primary target users)
- **Prevent users from claiming ownership over content in the public domain:** To the extent feasible, Quilt will connect to Prior Art databases (i.e., MIT and Google's Prior Art Archive) and run it's infringement algorithms to prevent users from claiming ownership (issuing NDC1) over content in the public domain. In some circumstances this would also be picked up in the "on-network" infringement review and dispute resolution process

3 Automated Detection

- On a regular cadence (monthly, quarterly, annually) and leveraging a similar process as mentioned above, Quilt will compare already published content with ownership rights (e.g., NDC1 and NDC2) against newly issued IP protections (e.g., patents) from national patent offices to confirm there are no conflicts with the rights provided by certain government jurisdictions

4 Self-Policing

- Users may also self identify infringing content that claims wrongful ownership (i.e., IP infringements, plagiarism, public domain content claimed to be original, etc.) and report it to Quilt, which will trigger the dispute resolution process

[1] Further analysis required to determine level of indexing required and perform associated cost, time, stability, etc. comparison for potential options. May require use of Google Patents that is likely better indexed initially, however, intent is to avoid using a service that has the ability revoke access (direct access to patent office APIs is ideal from a stability stand-point). [2] Third party tool would be used as an interim solution until one is developed in-house.

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