



**AMBROSUS**

# **Vision and Roadmap**

July 2020

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## INTRODUCTION

Since 2016 the Ambrosus Ecosystem has grown into a robust network of distributed operators grounded by a carefully designed crypto-economic model. Since the beginning of this year - 2020 - the Ambrosus Team has finalized a number of important updates ranging from: (1) A full migration to Native Amber from ERC20 Amber, (2) Modernization updates to Hermes Masternodes (Open-Sourced system to connect to sensors), and crypto-economic updates to Atlas and Apollo Masternodes (Blockchain platform) as well as Bundle storage characteristics, and (3) The launch of the Ambrosus Entrepreneur Portal with two IoT based solutions currently building in pre-funding stage (IEO) in combination with an official process for more entrepreneurs to build on top of Amb-Net.

The business model for clients is focussed on the creation of bundles which store in a secure way information/transactions from supply chain logistics. It combines analytics - IoT - sensor systems with robust blockchain technology. In the more complete Ambrosus roadmap below, the current accomplishments and upcoming developments within the Ambrosus Ecosystem are explained across five primary vectors:

- 1) Technical development and Upcoming Updates,
- 2) Crypto-Economic Ecosystem Development,
- 3) Business Development and Proof of Concept Traction,
- 4) The Ambrosus Entrepreneurship Program and Ecosystem Development (including two current projects in the pre-funding stage),
- 5) Ambrosus Community Development and Ecosystem Initiatives.

# TECHNICAL DEVELOPMENT AND UPCOMING UPDATES

The technical development of the Ambrosus Ecosystem can be understood across six primary development vectors: (1) General Ecosystem Development, (2) Apollo Masternode Development, (3) Atlas Masternode Development, (4) Hermes Masternode/REST-API Development, (5) Enhancements to the Ambrosus Explorer, and (6) Ambrosus Wallet development and integrations. The development of each vector is discussed in the context of the coming quarters of development:

- (1) **General Ecosystem Development:** General Ecosystem Development refers to the growth of core features of the Ambrosus Ecosystem including the Node Onboarding Procedure, Github Fixes and Commits, interfacing with the devops community, and expanding the infrastructure of the Ambrosus Network to include sidechains.

- **Quarter 3, 2020:**

- Implementation of *status.Ambrosus.com* - a single page featuring all services of Ambrosus including how to become involved in building and running verticals within the Ecosystem.
- Updating the Node Onboarding Procedure (NOP), including updating the existing MongoDB version to a more recent one.
- Implementation of *stats.Ambrosus.com* - Web3.js, s client, and BE. stats development page to display the most recent Atlas Parity Version.

- **Quarter 4, 2020:**

- Devops Community Issues Resolution: Complete Overview of Current dApp accessibility challenges and review of Ambrosus SDK's and API's.

- **Quarter 1, 2021:**

- Development and Implementation of [Ambrosus Sidechain Proof of Concepts](#) for Enhanced Network Scalability and Decentralization.

(2) **Apollo Masternode Development:** Apollo Masternodes have recently undergone considerable enhancement and improvement in Quarter 1 of 2020. To date there [are 198 Live Apollo Masternodes](#) on the Ambrosus Network.

- **Quarter 4, 2020:** Security Update - Encrypted Private Key Password Implementation for All Existing and Future Apollo Masternode Operators.

(3) **Atlas Masternode:** Atlas Masternodes operate to secure data uploaded in bundles onto the Ambrosus Network. Currently, [476 Atlas Masternodes](#) are Live on the Ambrosus Network. Updates to Atlas Masternodes are essential for guaranteeing that data can be securely stored on the network and, as such, that AMB-NET can effectively scale.

- **Quarter 3, 2020:** Node Retirement Update - Informs Node Operators when the node is out of gas when retiring. This currently prevents operators from giving away bundles they are currently sheltering.
- **Quarter 4, 2020:** Implementation of automated bundles transfer from inaccessible Atlas nodes (inactive or down for a certain period of time) to existing active nodes. This update will guarantee that all bundles sheltered on the network remain sheltered in the event that a node is taken down.

(4) **Hermes Masternodes:** Recently, Hermes Masternodes have been open-sourced for use by Ambrosus Entrepreneurs and Developers alike. As the primary Oracle for connecting the existing Web of Information to the Ambrosus Blockchain, Hermes provide a REST API for interconnection with existing ERP management systems as well as IoT Devices.

- **Quarter 3, 2020:** Private data encryption of Hermes Data, Storage of client private data on Atlas nodes for enhanced security, Hermes Dashboard Updating: testing, bug-reporting, and debugging.
- **Quarter 4, 2020:** Storage of Hermes infrastructure data on Atlas nodes. Link assets and events to the organization that created it within Bundles. Release of the New Hermes Management Dashboard: UX/UI design enhanced. In tandem with the Dashboard design upgrade, an API upgrade is also planned to match the new design. Finally, the Ambrosus Front End, *Amb.to* is scheduled to undergo testing, bug-reporting, and debugging.
- **Quarter 1, 2021:** Restore functionality with data preservation for Hermes Masternodes. Release of New Ambrosus Frontend Design for *Amb.to* to include UX/UI enhancements. In tandem with these enhancements, upgrade the API To match this new design.

(5) **The Ambrosus Explorer:** [The Ambrosus Explorer](#) is the central repository for visualizing the development of the Ambrosus Ecosystem. A number of upcoming developments are planned to enhance the Ambrosus Explorer in both its display and depth of information:

- **Quarter 3, 2020:** Columns sorting implementation on Apollo, Atlas and Addresses pages. Bug fixes for: (1) Nodes with negative bundle counts, (2) Assets and events missing in bundles, (3) Transactions in API filter not being displayed, (4) CSV Export Problems, (5) Price Display of Block Reward in USD Price, and (6) Synchronizing the Old and New Explorer API Data Display. Finally, the Transfer transaction will also be renamed to the BundleReward transaction.
- **Quarter 4, 2020:** Implementation of the Node Monitoring and Owner Notification Service. Temporal Monitoring Implementation of Date Selection Options for both Atlas and Apollos (To be able to choose more than one day plus the type of transaction requests for when the date was picked).
- **Quarter 1, 2021:** Implementation of Apollo transaction filtering procedure by type: BlockReward, BundleReward, etc.
- **Quarter 2, 2021:** Launch of the Masternode Operator Area.

(6) **Ambrosus Wallet Development and Integrations:** With the full migration onto Native Amber on the Ambrosus Network, Wallet development and integrations are necessary to expand the reach and access to Amber for token holders, validators, operators, and developers.

- **Quarter 3, 2020:** Release of Ledger ⇔ Metamask Documentation for Native Amber.
- **Quarter 1, 2021:** Ambrosus Native Wallet Software Development. Development of Ambrosus Wallet Application for Hardware Wallets such as Trezor and Ledger.
- **Quarter 2, 2021:** Development of Ambrosus Wallet for Mobile (iOS and Android).

In total, parallel Ecosystem Development across all six vectors of the Ambrosus Ecosystem will provide the necessary technical foundation for further developing and growing the Ambrosus Network.

# CRYPTO-ECONOMIC UPDATES ON AMB-NET

In light of the future development of the Ambrosus Ecosystem, and its rapidly growing blockchain network, the Ambrosus Team has recently [announced a rollout of Crypto-Economic updates](#) that will take incremental affect in the coming months:

**Updates for Retiring Atlas Masternodes:** A new method for offloading bundles from retiring Atlas Masternodes has been developed by the Ambrosus Technical Team and will be implemented in the coming weeks. The new method aims to proportionally distribute retiring node bundles in an effort to increase fair and transparency distribution of Amber from bundles in need of sheltering before expiration. Importantly, bundle release will be to other nodes of equivalent seniority in order to maintain incentives within the network to maintain a node and thereby secure the network.

**Updates to Hermes Masternodes:** Hermes Masternodes, previously requiring a stake of 150,000 Amber to license, are now open-sourced for use by Ambrosus community members, developers, entrepreneurs and founders of industry verticals. Importantly, the bundle fee has increased to a fixed cost of \$25 USD per bundle in Amber for one year of data storage. So long as an interested party can afford the bundle fee, Ambrosus' public permissionless structure now allows any party to upload and store data on the network.

As a result of an increase in bundle cost, there is a downstream effect on the rewards for Apollo node operators: The formula to calculate the transaction rewards relegated to Apollo from each bundle shall reflect the change in the storage cost for Hermes node, with  $P$  becoming 25 USD.

$$R_P^d = \sum_{l=1}^{l_{\max}} U_l^d (\alpha l P \hat{\rho}_d).$$

For Reference Each Variable Duly Refers to the Following (note that  $P$  now is valued at USD \$25 as opposed to \$12):

Let  $l$  stand for the lifetime of every bundle.

Let  $\alpha$  stand for the proportion of the upload fees going to the Apollo Nodes (30%)

Let  $P$  stand for Price per Bundle in USD **25\$**

Let  $U_l^d$  stand for the number of bundles uploaded on day  $d$  with a lifetime of  $l$  storage periods

Let  $\hat{\rho}_d$  stand for the AMB/USD exchange rate on the first day of the month of  $d$ .

Let  $N_p^d$  stand for the Number of Apollo nodes on the network on day  $d$ .

Overall, recent updates scheduled or already implemented for the enhancement of Ambrosus' crypto-economic infrastructure centers upon new rules for Atlas Masternodes, new procedures for Apollo Masternodes, and New Access to Hermes Masternodes. The ultimate goal of all such changes is to increase the resilience of the Ambrosus Network and the strength of Amber over time.

### The Amber Token and Crypto-Economic Emission Changes:

The Amber token operates in this Ecosystem as: (1) The fuel of the system for bundle transactions, (2) The value staked into the blockchain nodes, and (3) as the rewarding system for developers building solutions on top of AMB-NET. Its emission is therefore closely linked to Ambrosus' stage of business activities and overall Ecosystem Development.

To date, 198 Apollo Masternodes compete for space on the Ambrosus Network, while 476 Atlas Masternodes are onboarded to AMB-NET for data storage purposes. The network has smoothly continued to grow. Meanwhile, the community of Ambrosus supporters has also grown after the launch of a new and adapted cryptonomic model for our 2020 business needs.

The context of such crypto-economic additions is twofold: First, in light of recent innovation in the crypto industry, new management models of open-source blockchain ecosystems have created previously unknown development opportunities such as 'Protocol Treasuries' and 'Developer Bounty Programs'. Second, with market conditions in the crypto industry difficult for the past year and a half, and enterprises moving slowly towards adoption of blockchain

technology many projects are faced with new challenges to bolstering ecosystem engagement and maintaining a robust network in spite of slow adoption.

Based upon both of these considerations the Ambrosus Team is working to adopt a new, more long term, and more aggressive crypto-economic model. In response to the challenging market conditions, the Ambrosus Team will mint further AMB - proportionately over time - in order to support new ecosystem initiatives as well as business development: Such initiatives will include Ecosystem marketing, bounties for developers building dApps, a startup fund for companies looking to launch their products on AMB-NET, and a protocol treasury for a community Ambassador program. Overall, while the emissions pathway of AMB remains difficult it is closely linked with the Ecosystem wide business growth and all community opportunities. It provides support to the entire business and network scalability, as well as to new projects based on AMB-NET's sidechain infrastructure, as well as to the Innovation Laboratory team which will undergo an IEO soon based upon the release of proprietary intelligent objects.

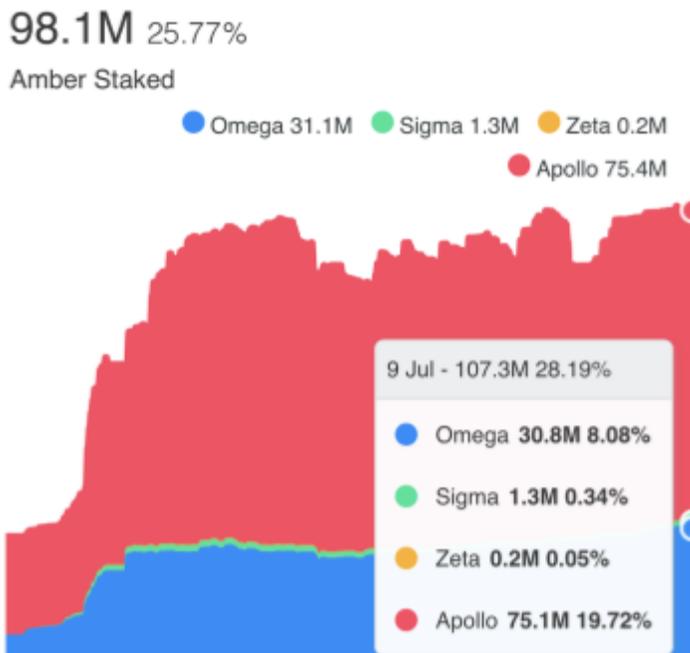


Figure 1: July 2020 AMB-NET Size and the Amount of AMB Staked in all Network Masternodes

For the near future, the Ambrosus Team plans to onboard a total of 600 apollo nodes. Right now the 198 Apollo Nodes have locked up 75.1 million Amber. In parallel, 31 Million Amber locked on Atlas Masternodes sustain heartbeat bundles, with four Hermes Masternodes currently in testing mode. To date, the minimum stake for an Apollo Masternode is set at 1 million AMB. The crypto-economic lock-up plan, therefore intends to lock up more 400M AMB on Apollo Masternodes until 2022/2023 with the addition of close to 70 Million AMB more on Atlas Masternodes. As a result, the total lockup at the end of 2022-2023 is expected to rest at 570 Million AMB.

	Total Emission next 2 to 3 years					
	Team	Marketing	Mining	Token Treasury	Total	
<b>Token Address</b>						
<b>Token Allocation</b>	106,200,000	141,600,000	188,800,000	240,000,000	<b>676,600,000</b>	
<b>% of Total Supply</b>	15.70%	20.93%	27.90%	35.47%	<b>100.00%</b>	
<b>Token Price (\$)</b>					-	
	Emission Schedule					

*Figure 2: Coin Emission Plan to Support the Further Growth of the Ambrosus Network in line with expected Business growth needs*

According to this emission schedule, the Network of Ambrosus nodes will grow in parallel to the Ambrosus marketing and community engagement program, as well as our client needs. As a result, the Ambrosus platform traffic (bundles and projects) will grow, along with the resources needed to support rising demand to a level that extends to roughly 2-3 times the size of current network operations. Ultimately, the coin emission schedule significantly supports Ambrosus business growth and is evaluated according to the parallel development of other Ambrosus Initiatives including:

1. Marketing and Ambassador program
2. Developer Bounties and dApp support
3. Network growth
4. Client solution growth
5. The Ambrosus Entrepreneur Program

## BUSINESS DEVELOPMENT ON AMB-NET

Ambrosus has focused on enterprise blockchain development for over three years. Originally designed as a blockchain for supply chain management, the Ambrosus Network is currently at a state of maturity in which it focuses heavily on cost reduction amongst supply chain intermediaries, and digital automation of industrial manufacturing - both up and downstream. In addition, Ambrosus has long-maintained a strength in providing IoT friendly solutions for collecting, storing, and sharing data in a secure and integral fashion. Represented by the Innovation Laboratory in Switzerland, the Ecosystem has produced a number of patented IoT devices, researched and developed over the past three years, and currently in pre-fund stages of development. As such, the fast growing market for secure IoT devices and applications is another growing element of Ambrosus Business development.

Comprehensively, future business development within the Ambrosus Ecosystem lies at the intersection of three established markets:

- 1) The secure storage and validation of data uploaded onto the network as an enterprise blockchain service: Applicable to existing industries including Logistics, Manufacturing, Trading, Healthcare, Government Management, Energy, and Trust in Society, as well as Emerging Industries such as the industrial internet of things, food traceability, and anti-counterfeit packaging. The public-permissioned and private blockchain architecture of AMB-NET has been specifically optimized to scalably manage such data.
- 2) dApps, CRM and ERP Integrations with enterprise management systems, according to specific enterprise business needs. With readily available (and frequently updated) SDK's and API's the Ambrosus Technical Team has ensured that enterprise partners, as well as entrepreneurs can seamlessly integrate with the Ambrosus Network to leverage the Ambrosus blockchain in tandem with existing applications and software. Clients that are currently in negotiations include: 1) Endress & Hauser, 2) FoodChain, 3) Maersk/IBM's TradeLens Platform, 4) Migros.
- 3) Partnerships with different IoT equipment and device manufacturers so as to integrate AMB-NET for enhanced IoT device security (where trust is lacking or security needs are especially present). The Ambrosus Data Model, originally designed by Dr. Vlad Trifa is optimized for the Web of Things according to its Asset, Event, Account structure. Partner companies for manufacturing and selling such solutions at scale include: 1) Crayonic, 2) Endress & Hauser, as well as 3) Samsara.

Ambrosus Business Development is pursuant across these three domains for the coming months as both established and emerging industries become more familiar with the benefits of blockchain technology and its place in enterprise solutions. Importantly, this development does

not include entrepreneurial initiatives (*described next*) but rather, it solely reflects Ambrosus Team initiatives to scale the Ambrosus Network into emerging logistics, manufacturing, enterprise supply chain, and IoT Markets.

# THE AMBROSUS ENTREPRENEURSHIP PROGRAM

The Ambrosus Entrepreneurship program has been designed to quickly and easily onboard founders, developers, and teams of entrepreneurs to access community tools and funds in order to begin developing solutions and industry-verticals on top of the Ambrosus Network. Most recently, in the launch of the Ambrosus Entrepreneurship program, [the Ambrosus Team announced](#) that all Hermes Masternodes are open-sourced for use by any entrepreneur building on the network. To date there are two primary groups of entrepreneurs building on AMB-NET:

**Enterprise Blockchain Solutions:** Entrepreneurs interested in leveraging their own Hermes masternode on AMB-NET to create blockchain-based industry solutions. Currently, four separate teams of entrepreneurs have launched or are in the process of launching independent solutions on AMB-NET: Zimt by Dr. Vlad Trifa and Dr. Davide Merulla, OriginFood by Peter Gustavsson, ChipLess, as well as Unova by a team of Belgian entrepreneurs, and QSS Global S.A. Such solutions range from food traceability solutions, to innovative blockchain connected-RFID tags, to blockchain based solutions for supply chain management.

Currently these separate entrepreneurial projects are generating bundles on the Ambrosus Network with many existing partnerships in place. In such negotiations, the Ambrosus Team works with each team to perform the Proof of Concept with the company of their engagement, before transferring management responsibilities over to clients.

**IoT Device Integrations:** In parallel, a separate group of entrepreneurs is currently building non-blockchain based solutions that can easily integrate with AMB-NET, so as to bridge the gap between the physical world and the digital-based Ambrosus Network. Such technology includes IoT Devices, Edge-Gateways, as well as intelligent objects and smart containers. These solutions have undergone years of research and development at the InnoLab Engineering office in Switzerland, and are currently being implemented in Proof of Concepts, awaiting patent grantings, or are in the prototype stage of market integration. In parallel, preparations are currently underway for the Emerald Circuit IEO in October of 2020, while the ChipLess project is undergoing preparations for an IEO for Quarter 1 of 2021.

In total, entrepreneurs looking to build dApps and industry solutions on the Ambrosus Network are provided access to marketing services, funding, IoT devices, and open-source access to Hermes Masternodes capable of storing and uploading data onto the Ambrosus Network. In the future, as more entrepreneurial development is expected on the Network the Ambrosus Team intends on minting further Amber (AMB) so as to ensure that all projects can be sufficiently funded and supported in their early stages.

## Roadmap Plan:

- **Quarter 3, 2020:**
  - **Pre-IEO Stage for Emerald Circuit:** Whitepaper finalization, release of Emerald Circuit Product Spec Sheets and Crypto-Economic Whitepaper, Final Selection of IEO Platform and Webpage launch. Set-up of project community with Bi-Directional Telegram and Subreddits.
  
- **Quarter 4, 2020:**
  - **Emerald Circuit IEO:** CEO Roadshow Tour and Project Pitching.
  
  - **Pre-IEO Stage: ChipLess:** Whitepaper finalization, release of ChipLess Product Spec Sheets for Tag and Molecularly Imprinted Polymer. Rollout of Crypto-Economic Whitepaper. Final Selection of IEO Platform and Webpage launch. Set-up of project community with Bi-Directional Telegram and Subreddits.
  
  - **Ambrosus Entrepreneur Bounty Program Launch:** Call for Developers, Founders and Market Vertical Proof of Concepts from the Ambrosus Community to stimulate rapid development and deployment of IEO solution applications.
  
- **Quarter 1, 2021:**
  - **ChipLess IEO:** Founding Team member roadshow tour and pitching.
  
  - **Pre-IEO Stage:** Community entrepreneurs and other new projects to be announced soon

## AMBROSUS MARKETING ROADMAP

Marketing remains a crucial component of any developing blockchain-ecosystem: In order to grow, evolve, and continuously build, developers and entrepreneurs must be aware of the core value proposition and underlying principles grounding the Ecosystem. For that reason the Ambrosus Team continues to invest heavily in community engagement and Ecosystem development. At the core of the Ambrosus Marketing Strategy, are the principles and objectives that underline Ecosystem development. Such values include:

- **Censorship Resistant:** AMB-NET is a public blockchain network where any developer can create and run their dApp using open-source SDKs and open-sourced Hermes Masternodes (REST API).
- **Secure:** Consensus is achieved through hundreds of nodes - both for validating transactions and storing data. As such a very high degree of security is achieved for all data hashed onto AMB-NET.
- **Developer Friendly:** [Open-Source SDK's](#) and Open Source Hermes Masternodes means that any developer can start building dApps immediately on AMB-NET. The Ambrosus Entrepreneurship portal - for founders and industry experts expands this opportunity to create an inclusive and collaborative ecosystem of interested stakeholders.
- **IoT Optimized:** Hermes Masternodes configuration built by Dr. Vlad Trifa is based upon a universal data model of Assets, Events, and Accounts. Data is transmitted via JSON packets and is easily integrated with existing IoT software, devices, and management systems.

To date, the Ambrosus community remains strong and growing, with over [5,000 reddit followers](#), [19,000 Twitter Followers](#), and [3,000 active Telegram members](#). Growing the Ambrosus Community into the future, recruiting developers interested in building dApps, and adding to the number of startups building on AMB-NET remain the central goals of the Ambrosus Marketing Team.

### Community Initiatives:

Starting in Quarter 3 of 2020, The Ambrosus Team will be launching three new community oriented initiatives, focused on bolstering Ecosystem development and building new solutions on both blockchain and IoT fronts. These programs include: (1) The Ambrosus Ambassador Program, oriented towards committed community members, (2) the Ambrosus Entrepreneurship program, directed towards founders, teams of entrepreneurs, and people looking to break into

the blockchain and IoT Space, and (3) The Ambrosus Bounty Program for developers and technical contributors as well as content creators.

### **The Ambrosus Ambassador Program:**

For more than two years Ambrosus has benefited from having a strong community of supporters who believe in the future prospects of blockchain technology and the internet of things. As a means of building further relationships within the community, and expanding the overall scope and size of the Ambrosus community, the Ambrosus Team is launching an Ambrosus Ambassador Program. The details of this program are straightforward:

- Interested community members or crypto enthusiasts who believe in the vision of Ambrosus and its future potential to create decentralised ecosystems for IoT devices are able to sign onto the program to build communities, meet with enterprises, and represent the Ecosystem as a whole.
- Upon signing on, such members will receive an official Ambrosus email and will also have the option of having their names listed on the Team page dependent upon how much they would like to commit to the growth of the ecosystem.
- As a Brand Ambassador, these members will have the opportunity to represent Ambrosus in the crypto-space, the larger business context, or on the startup and university scene to receive consistent or one-time rewards for the different initiatives and strengths they intend to bring to Ambrosus.
- Long term community Ambassadors have the opportunity to join the Ambrosus Team officially under contract to help expand the overall direction of the ecosystem.

### **The Ambrosus Entrepreneurship Program:**

Similar to the Ambrosus Ambassador program, the Ambrosus Entrepreneurship program is focused on building teams of entrepreneurs and founders interested in creating blockchain based solutions for real world problems. The difference between the Ambrosus Entrepreneurship program and other programs in the crypto-space is that:

- (1) Ambrosus will help provide support via connections, technical advice, and even bounties.
- (2) Ambrosus has a number of proprietary IoT devices and existing dApps that can be leveraged by Ambrosus Entrepreneurs for discounted access.

There are already four teams of entrepreneurs building solutions on AMB-NET. The Ambrosus Entrepreneurship program is therefore both a support mechanism and an incubator for

launching ideas from ideation to IEO and getting projects off the ground. In Quarter 4 of 2020, the Ambrosus Entrepreneurship program will launch allowing prospective founders and entrepreneurs to join different teams building on the Ambrosus network.

**The Ambrosus Bounty Program:**

Last but not least the Ambrosus bounty program is the third and final community initiative created by the Ambrosus Team to help build out developer engagement and prototype development on the Ambrosus platform. The vision for this program is straightforward: The Ambrosus Ecosystem will have teams of entrepreneurs and ambassadors building solutions and reaching out to new stakeholders. Such members will eventually require additional technical support in developing dApps, with front-end design, and in scaling their own crypto-economic models. The Ambrosus Bounty Program is an all-encompassing program referring to the support of existing technical and content development on the Ambrosus Network.

Each month, starting in Quarter 4 of 2020, bounties will be set for needed tasks or deliverables. Any skilled or capable community member will be eligible to participate and receive the bounty rewards. In such a manner, the Ambrosus Ecosystem is able to grow at an expedited rate, while skilled community members can actually be rewarded for their work on the network.

## ROADMAP PLAN

### Quarter 3, 2020:

- **The Ambrosus Ambassador Program:** Is scheduled to Launch in September 2020, and will feature active bi-directional telegram and reddit moderators to incentivize and engage the Ambrosus community in creating new Ambrosus communities around the globe.

### Quarter 4, 2020:

- **Ambrosus Bounty Program:** According to feedback from the Ambrosus Ambassador Program, dedicated smaller initiatives will be accepted and funded to launch in Q4 of 2020.
- **Community AMA for IEOs:** Ambassadors will have the opportunity to share their thoughts about the new IEO proposed by the Ambrosus Innovation Laboratory team, while entrepreneurs can engage with the new IEO project community to develop proposals, applications, and market opportunities.
- **Entrepreneur Newsletter:** In parallel to the launch of community AMA initiatives and the Ambrosus bounty program, the Ambrosus Marketing Team will also be releasing an Entrepreneur Newsletter with calls for founders as well as specific opportunities for devices currently being tested by the Innovation Laboratory.

### Quarter 1, 2021:

- **New Community Integration:** With the launch of the Emerald Circuit community, and the ChipLess, Zimt, and OriginFood Communities on the horizon, the Ambrosus Marketing Team will begin to integrate all communities with the larger Ambrosus community utilizing community bounties and other group-based initiatives.