



Building Bitcoin Cash Infrastructure for a World of P2P Electronic Cash

The 2020 Business Plan



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for the
Bitcoin Cash Community

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Table of Contents

Table of Contents	1
Executive Summary	2
Vision	3
Strategy	4
Roadmap	4
Timeline	8
Why Support Bitcoin ABC	9
Why Businesses Need Bitcoin ABC	11
Who is Bitcoin ABC	12
Problems and Solutions	13
Why Now	14
Unique Value Proposition	15
Alternatives	15
Revenue Streams	15
Potential Future Streams	17
Key Activities	18
Key Metrics	18
Key Partners	19
Financials	20
Your Contribution	21
Appendix	22

Executive Summary

Bitcoin ABC builds the most essential Bitcoin Cash infrastructure, our full node software which is used to produce almost every Bitcoin Cash block.

The Bitcoin ABC project also performs the essential tasks of maintaining this software, providing support for it, backporting Bitcoin Core code, defending the Bitcoin Cash network from attacks and more.

Currently, 90% of Bitcoin ABC developer time is absorbed with keeping Bitcoin Cash secure, running and updated. We must dedicate most of our minimal resources to “running in place” as we ensure the Bitcoin Cash network transcends scaling bottlenecks and remains up to date with the fast-moving Internet.

Work on new features barely registers in the workload at this time.

But we are not content simply to preserve the status quo. Bitcoin ABC is building censorship-resistant P2P electronic cash for the masses - Bitcoin that scales.

Bitcoin ABC is assembling a team of world-class engineering professionals to achieve this mission.

Reality is constantly changing and we must change with it. Keeping up with the latest tools and technology requires funding. Advancing the Bitcoin Cash roadmap requires even more.

The alternative is only to fall behind other cryptocurrency projects, to only worsen community polarization, to render increased adoption a hazardous endeavor and to only increase the eventual cost of building censorship-resistant P2P electronic cash for the world, assuming we are still able to at some later date.

Bitcoin ABC has a strong funding plan that offers Bitcoin Cash miners, exchanges, other businesses, projects, holders and users the opportunity to sponsor Bitcoin ABC infrastructure development and get concrete benefits in return.

We seek your feedback and participation in our sponsorship plan. We stand ready to hear your needs and see how Bitcoin ABC can help you achieve your goals.

The goal of Bitcoin ABC is to build the software infrastructure needed for Bitcoin Cash to be successful. We are “building the roads” for Bitcoin Cash. We are building the platform for potentially tens of thousands of new Bitcoin Cash businesses as we scale Bitcoin Cash to billions of daily users.

Join us in building censorship-resistant P2P electronic cash for the world and realizing the vision that is Bitcoin Cash!

Vision

The Bitcoin ABC vision is censorship-resistant P2P electronic cash that has low fees, is instant, easy to use, fungible and scales to meet the daily payments demands of billions of daily users around the globe.

Bitcoin ABC envisions a world where billions of people use Bitcoin Cash to make daily payments of basic necessities, for investments and loans, for international trade, remittances and much more.

We believe this is a civilization-changing technology which will dramatically increase human freedom and prosperity.

In pursuit of that vision, Bitcoin ABC builds and maintains the most essential infrastructure for the Bitcoin Cash ecosystem in the form of our Bitcoin ABC full node Bitcoin Cash software. Our strategy is to build a professional and stable Bitcoin Cash full node client that permits the efficient mining of tens of thousands of transactions per second (TPS), as well as complementary high-capacity tools.

All of this so that Bitcoin Cash businesses can build their business models on a solid foundation, and be profitable themselves

We aim to support the key features of digital cash, including the following:

- massive on-chain scaling to more than 10,000 transactions per second (TPS) that enables Bitcoin Cash to become a global currency;
- a reliable payments experience that doesn't degrade as the network scales;
- instant payments without requiring changes to the consensus rules (via, for example, Avalanche pre-consensus); and
- fungibility (via, for example, Cash Shuffle and Cash Fusion).

The Bitcoin ABC vision is quite simply to continue innovating as we grow Bitcoin Cash's leadership position as censorship-resistant P2P electronic cash for the mainstream, with low fees and instant payments.

This vision depends on our ability to deliver our roadmap, which requires funding.

Strategy

The Bitcoin ABC strategy revolves around the following principles:

- long-term sustainable infrastructure, not showy short-term projects or big announcements that lack substance;
- focusing efforts on building reliable foundations for the future, as opposed to optimizing processes that will just have to be changed again later, thus minimizing technical debt;
- serving the needs of users, miners and merchants;
- continuous technical improvement;
- that reality is constantly changing and we must change with it;
- paying off the technical debt incurred in the early days of Bitcoin development by moving away from fragile code towards greater security and reliability; and
- the goal of a maintainable codebase.

Bitcoin Cash is fundamentally sound. Bitcoin ABC aims to keep it that way. To become a solid base for application development and innovation by Bitcoin Cash businesses, Bitcoin Cash needs to continuously improve and compete.

Roadmap

This Bitcoin ABC 2020 business plan covers the one-year (1 year) period from 1 May 2020 to 30 Apr 2021 inclusive and focuses on the following development projects.

While we have already raised part of our 2020-2021 budget, Bitcoin ABC still requires funding of USD\$2 million to meet the following roadmap goals.

For your reference, the high-level Bitcoin Cash Roadmap is available at BitcoinCash.org/roadmap.html.

\$1.2m: Continued Progress

Funding of between USD\$1.2 million and \$2 million will enable Bitcoin ABC to not just continue basic operations but also make some significant improvements.

- **Fractional Satoshis.** This is the ability to specify amounts more precise than 1 satoshi. The status quo is that when the market price of BCH rises, so will inevitably the transaction fees. With fractional satoshis, we can keep transaction fees low indefinitely.
- **Adaptive Block Size.** This is the ability to grow the block size based on market demand up to 1TB from the current 32MB. This will permit Bitcoin Cash transactions per second to grow in a flexible and market-based adaptive manner.

- **Redundant Coding Capability.** We need to have multiple programmers on the team who have a deep understanding of the codebase, and can quickly debug problems.
- **DevOps.** This includes basic devops (with some capability redundancy to fix unexpected bugs), miner support, fixing chain problems in real time, etc. Improved DevOps is “capital building” in the sense that it improves the project’s future ability to develop code more rapidly and reliably in the future.
- **Code Quality.** Continuously improving the quality of the codebase through bug fixes, catching up on security-critical Bitcoin Core backports, and low-hanging-fruit consensus changes (for example, sigops counting). These improvements reduce the likelihood of bugs, make it easier to maintain the code over time, and eases the onboarding of new developers.

\$2m: Breaking Ranks with Bitcoin Core for the P2P Electronic Cash Vision

With funding of USD\$2 million, Bitcoin ABC will take important steps forward that are required to establish the technical foundation required for the P2P electronic cash vision and the Bitcoin Cash roadmap.

This includes forging our own path away from Bitcoin Cash’s current dependency on Bitcoin Core backports, a dependency which in technical terms keeps us subservient to the digital gold narrative and preserves unchallenged Bitcoin Core’s market dominance.

- **Mempool Overhaul.** This includes high-priority non-consensus improvements, primarily re-working the mempool code paths. This is a large and important project that will provide multiple basic improvements to Bitcoin Cash, including the following. See “Mempool Overhaul” below for more information.
 - dramatically improve or completely eliminate the 50-unconfirmed chain transaction limit
 - reintroduction of “free” transactions
 - better scalability via parallelizations, block template construction, etc.
 - improve the fee structure
 - many efficiency improvements
 - simpler, more maintainable code
- **Take Code Ownership.** We should not be constrained to following Bitcoin Core in most areas. Bitcoin Cash’s vision of P2P electronic cash for the world requires different technical decisions. But taking code ownership also implies greater ongoing costs for Bitcoin ABC. See “Take Code Ownership” below for more information.
- **Fix Block Time Oscillations:** We will take steps to reduce the variations in block times and ensure blocks happen on a more regular schedule. See “Fix Block Time Oscillations” below for more information.
- **Faster Block Propagation:** We’ll use Graphene or another solution to achieve faster block propagation times, which will likely benefit from our work on CTOR. Faster block

propagation means more consistent profits for miners and lower risk for all network participants.

- **Staff Redundancy.** Otherwise known as “Amaury-redundancy”, we will have on staff 1-2 developers capable enough to take over from Amaury if and when needed.
- **Staffing Stability.** With more developers, we will be able to provide emergency technical support with devs on call for urgent problems.

The Mempool Overhaul

The mempool is at the center of everything in Bitcoin Cash. Currently, however, it suffers from a number of inefficiencies. We need to change how the mempool works in order to grow beyond the Bitcoin Core store-of-value/digital-gold model and lay the groundwork for billions of daily users.

The Mempool Overhaul constitutes a significant change in how Bitcoin Cash works. Its implementation will result in Bitcoin Core backports becoming more challenging, if not unviable.

These changes are best made now, while the Bitcoin Cash network is small. Later, they may be too disruptive, and the community may resist undertaking them. It is therefore important that the items that are critical for long-term growth be completed soon.

Under no circumstances can we embark on the Mempool Overhaul project without a significant and ongoing budget. The Mempool Overhaul requires a workforce to maintain it on an ongoing basis. Undertaking this project without adequate, sustained funding would constitute an existential threat to Bitcoin Cash, since after it is completed maintenance tasks will increase considerably compared to the status quo.

The Mempool Overhaul represents BCH stepping out of BTC's shadow and tossing aside the support lines. The Mempool Overhaul constitutes Bitcoin Cash taking leadership of the Bitcoin vision. It gives birth to many new possibilities and results in a distinctive codebase for BCH.

Take Code Ownership

For every change made to the Bitcoin ABC codebase, there is a corresponding cost not just for that change, but also for the peer review, revisions prior to commits, future Bitcoin Core backports, testing, maintenance and more.

Every design choice that Bitcoin ABC makes to support the original P2P electronic cash vision is a design choice that takes us away from the Bitcoin Core model and lessens our ability to inexpensively leverage the Bitcoin Core workforce and their backports.

In order to realize the Bitcoin vision and improve miner efficiency, Bitcoin Cash needs to chart its own path and establish its own technical leadership. Even when changes are small, they can result in medium- and long-term ongoing expenses. Once assumed, these expenses can not be

merely undone. They must be factored into the long-term cost of building and maintaining Bitcoin Cash infrastructure.

Lack of adequate and sustained funding for Bitcoin ABC is a blocking issue on this front, and an issue this business plan solves, with your support.

Fix Block Time Oscillations

As a minority hash-rate chain sharing the same Proof of Work as Bitcoin Core (BTC), Bitcoin Cash (BCH) requires a continuously-varying difficulty target to adjust to keep the mining hash rate balanced between the two chains. Currently, however, short-term profitability differences between mining on BTC vs BCH result in hash rate oscillations on BCH.

Improving this situation will require careful study, as it involves balancing different tradeoffs. The solution could be to improve the Difficulty Adjustment Algorithm (DAA), as well as other methods to achieve the desired outcome.

Other projects of great interest to Bitcoin ABC

These projects are also high on Bitcoin ABC's priority list, but can not yet be timed, given the current resources available to us.

- **Reference Indexer.** An indexer is like a programmatic block explorer. All Bitcoin Cash businesses need an indexer in one form or another, for example for address indexing. Currently, indexing capabilities leave considerable room for improvement, as multiple groups are maintaining various "Bitcore patch" versions. We aim to create a reference indexer that won't break as we continue developing Bitcoin ABC, thereby providing a major benefit to the ecosystem.
- **Mining Efficiency Improvements.** There is currently a lot of inefficiency in the mining process which is costing miners money and will only get worse as blocks get larger. For example, the block is created via the getblocktemplate RPC, and submitted back via the submitblock RPC when a miner solves the Proof of Work (PoW). Because of this, the block needs to be passed in full from the node to the mining software and then back, only to be revalidated again on the node. By improving efficiency here, we can improve miner profitability.
- **QUIC.** QUIC is a transport layer that augments and improves TCP-based applications through parallelization, with greater reliability than TCP-based solutions. The primary benefits of QUIC for Bitcoin Cash include the following.
 - All traffic will be encrypted. Currently, all BCH network traffic is in the clear.
 - All traffic will be authenticated. This is a prerequisite for Avalanche (see below).
 - No "head of line blocking". Currently, messages need to be sent from one node to another in a sequential manner. This forces high-priority messages (such as the discovery of a new block) to wait for lower priority ones to be sent. With QUIC, it

is possible to start sending the block right away, without having to wait for previous messages to be sent in full.

- **Avalanche Pre-Consensus.** Avalanche is a method of achieving pre-consensus that secures zero-conf transactions in 3 seconds or less. Avalanche operates in parallel with proof-of-work (PoW) Nakamoto Consensus, and complements it. It can also be useful in preventing post-consensus block reorganization attacks. Avalanche messages are easy to create and transmit by default in the clear. These characteristics represent a potential security issue, if left unresolved. Thus, a prerequisite for Avalanche is encrypted channels among nodes (which QUIC provides).
- **Staffing Growth.** Sustainably onboard more developers and support staff for communications, administration, technical support, etc.

Timeline

Bitcoin ABC aims to deliver our roadmap based on the following timeline. It is critical to note that this timeline is optimistic and depends on key variables, including the following.

- This Bitcoin ABC 2020 Business Plan is fully funded with funding in hand by 30 Apr 2020.
- We are ready to attract, hire and financially commit to the rare and high-quality engineering talent we need, when they become available. Indeed, we recently lost multiple very attractive candidates who were only available within a small window.
- Our progress relies on quickly finding the solutions to very complex problems, which is rarely guaranteed.

15 May 2020

- | | |
|---------------------------------|------------|
| 1. DevOps, Support & Backports: | online |
| 2. Fractional Satoshis: | initiated |
| 3. Adaptive Block Size: | initiated |
| 4. Fix Block Time Oscillations: | initiated |
| 5. Staff Redundancy: | initiated* |
| 6. Redundant Coding Capability: | initiated* |

15 Nov 2020

- | | |
|---------------------------------|------------------------|
| 1. DevOps, Support & Backports: | online |
| 2. Fractional Satoshis: | delivered |
| 3. Adaptive Block Size: | delivered |
| 4. Fix Block Time Oscillations: | delivered |
| 5. Mempool Overhaul: | initiated |
| 6. Take Code Ownership: | initiated and ongoing* |

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|------------------------------|------------|
| 7. Faster Block Propagation: | initiated |
| 8. Staffing Stability: | initiated* |

15 May 2021

- | | |
|---------------------------------|------------|
| 1. DevOps, Support & Backports: | online |
| 2. Take Code Ownership: | ongoing |
| 3. Faster Block Propagation: | delivered |
| 4. Redundant Coding Capability: | delivered* |
| 5. Staff Redundancy: | delivered* |

15 Nov 2021

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|---------------------------------|------------|
| 1. DevOps, Support & Backports: | online |
| 2. Take Code Ownership: | ongoing |
| 3. Mempool Overhaul: | delivered |
| 4. Staffing Stability: | delivered* |

2022 and beyond*

- | | |
|------------------------------------|------------|
| 1. DevOps, Support & Backports: | online |
| 2. Take Code Ownership: | ongoing |
| 3. Reference Indexer: | scheduled* |
| 4. Mining Efficiency Improvements: | scheduled* |
| 5. QUIC: | scheduled* |
| 6. Avalanche Pre-Consensus: | scheduled* |

* The ability to deliver asterisked items on time is particularly dependent on the availability of qualified engineering talent and funding. Bitcoin ABC must have the necessary resources in hand in order to attract, hire and credibly commit to candidates when they come on the market.

Why Support Bitcoin ABC

Bitcoin ABC is the pre-eminent Bitcoin Cash protocol development & devops team. Without Bitcoin ABC, Bitcoin Cash does not work.

- The Bitcoin Cash ecosystem relies on the Bitcoin ABC full node software to continue producing almost all of the blocks, more than 95%.
- Bitcoin ABC has specific expertise that enables miners and other Bitcoin Cash businesses to save time and money through greater efficiency. Our expertise contributes to your profitability.

- We have a demonstrated track record of sticking to the project and following through on that commitment to Bitcoin Cash. We stand at the ready every day to counter the threats to Bitcoin Cash and ensure the network keeps running, doing the tedious backporting work and ensuring that, first and foremost, BCH survives.
- Other cryptocurrency projects are not waiting for Bitcoin Cash. If we don't grow, the rest of the space will move ahead of us. Remedying this only becomes more expensive the longer we wait. Bitcoin ABC is the only Bitcoin Cash protocol development team proven ready and capable of assuming this challenge.
- Bitcoin ABC has already produced billions of dollars of value for ecosystem participants, and more than \$1 billion in revenue for miners.
- The work Bitcoin ABC has completed so far – on backports, cleaning up technical debt, implementing automated testing infrastructure and more – has us well-positioned now to make rapid progress on new features and significant improvements to the Bitcoin Cash protocol.
- Bitcoin ABC produces 5-6 git commits per day, almost every day, with consistent biweekly releases, and has remained an effective team despite inadequate funding.
- With Bitcoin ABC, you get your Bitcoin Cash full node software direct from the team that is maintaining and developing it – the experts. Our incentive is to provide the best experience because we depend on trust to survive.
- We are focused on features that have the potential to grow Bitcoin Cash while also ensuring that our code runs efficiently and stably.
- Bitcoin ABC led the fork from Bitcoin Core, leading to the creation of Bitcoin Cash.
- Bitcoin ABC has maintained our leading full node software and the Bitcoin Cash network for 2.5 years on schedule and under budget.
- With Bitcoin ABC, there is no vendor lock-in. You can audit the code and you have the freedom to adjust the code to your specific needs.

The Bitcoin ABC full node software for Bitcoin Cash does not run in a vacuum. Dependencies, such as libraries (for example, OpenSSL and BerkeleyDB) and operating systems are constantly updated by their developers. Advances and changes in tools and technology, such as SSD storage, new CPU architectures (such as ARM), high-DPI displays, black-swan CPU side-channel leaks and ever-evolving attacker tactics present constant challenges.

We must update our Bitcoin ABC software to keep up with these changes. We must be ever-vigilant. Standing still is not an option. We must run just to ensure Bitcoin Cash stays in place, and does not fall behind. Bitcoin ABC has been at the forefront of this hard work since the beginning of Bitcoin Cash.

The alternative to supporting Bitcoin ABC is code rot, software that breaks, software that is hard to run, software that requires additional maintenance and the abandonment of releases for lesser-used platforms. And these represent the best-case scenario.

Why Businesses Need Bitcoin ABC

Bitcoin Cash businesses invest their resources to build applications and other software to serve customers and, eventually, make profits. Every Bitcoin Cash business is building on top of a Bitcoin Cash full node software, such as Bitcoin ABC's. Every Bitcoin Cash application depends on having reliable full node software, software that is being proactively and effectively maintained by a group of dedicated professionals that have a proven track record.

Businesses that choose to build on a Bitcoin Cash full node software that is backed by one person or a small, volunteer team are taking a great risk. What if that key person moves on to another project or another job? What if they experience a life event that makes it impossible to continue their work?

Open-source projects can of course be continued by other developers. But the fact is that many such projects are simply abandoned and discontinued. This leaves you, the business owner or operator, with a significant challenge. Now, you have to redesign your own software to work with another project's Bitcoin Cash full node software. If this happens at the wrong moment, or just too late along your launch runway, the effect on your project could very well be devastating.

Are you prepared to develop and maintain the Bitcoin Cash full node software yourself, either directly or by hiring developers?

If not, or if such a result would eat through your own precious resources that you need to launch your own product, then it is wise to choose a professional Bitcoin Cash full node software team that has a consistent track record of producing high-quality work.




Having capable, funded partners is the foundation of your success. Bitcoin ABC has proven to be both consistent and reliable in maintaining and developing a professional full node software for the Bitcoin Cash network.

We are eager to serve you even better in the future.

Who is Bitcoin ABC

Bitcoin ABC is the team behind the leading full node implementation of the Bitcoin Cash protocol. Bitcoin ABC led the BCH fork and has maintained Bitcoin Cash for 2.5 years.

Bitcoin ABC has an outstanding track record of doing things that provide value. For 2.5 years, we have been doing things right, on time and under budget.

- **Amaury Séchet** founded and leads Bitcoin ABC. He stood up and took responsibility to make the Bitcoin Cash fork from Bitcoin Core happen. Mr. Séchet discovered Bitcoin in 2010 and got involved in 2011. Seeing Bitcoin failing to scale, he decided to take matters into his own hands and apply his experience in large scale systems to Bitcoin. Mr. Séchet is formerly a software engineer at Facebook, LLVM committer and the main developer of the D compiler SDC. 
- **Antony Zegers** is a protocol developer focused on Bitcoin Cash and a member of Bitcoin ABC. He participated in the creation of Bitcoin ABC and Bitcoin Cash starting in May 2017. Mr. Zegers holds a bachelor's degree in Electrical Engineering from the Royal Military College of Canada, and an M.A.Sc. also in Electrical Engineering from the University of Toronto. Mr. Zegers formerly worked for Defence Research and Development Canada for twelve years doing Operational Research and Analysis. Mr. Zegers publishes articles and analysis on economic and technical aspects of cryptocurrency, under the online handle "Mengerian". He has been a Bitcoin enthusiast since 2012. 
- **Jason B. Cox** is a software engineer who got inspired by the Bitcoin Cash fork and began contributing to Bitcoin ABC shortly afterwards. He holds a Bachelor's Degree in Computer Science from the University of California, Los Angeles. Mr. Cox formerly worked as a software engineer at LinkedIn building scalable software systems to serve a half-billion user base, and he strives to bring that same level of engineering focus to Bitcoin Cash. 
- **Other Developers**. The Bitcoin ABC team also includes a handful of full-time software engineers of various backgrounds, including scaling multi-million dollar systems at well-known companies. These are the people that keep the Bitcoin ABC machine well-oiled and running on time. Many of them prefer to keep a low-profile so they can focus on their critical work.

- **George Donnelly** is Bitcoin ABC's Business Development Manager. He is a digital marketing professional, serial entrepreneur, Unix/Linux systems administrator, science fiction author and blogger focused on the P2P electronic cash vision for the developing world, in particular Latin America. He is a fluent Spanish speaker and first discovered Bitcoin in 2011. He holds a bachelor's degree in history from the University of Chicago.



Problems and Solutions

1. Bitcoin Cash miners need a stable full node software for mining.

Bitcoin ABC solves this through detailed work that optimizes the Bitcoin ABC full node software for use in mining, with greater stability and less resource usage than other options.

2. Bitcoin Cash needs to grow in order to achieve the P2P electronic cash vision.

Bitcoin Cash needs to grow. The alternative is further stagnation and the loss of initiative to other, funded coins. Bitcoin ABC is fully committed to a scaling roadmap that gets us to 10,000 or more transactions per second (TPS).

3. The Bitcoin Cash mempool has inherent limits that are keeping us from scaling.

We have prioritized a Mempool Overhaul project that will materially resolve this important challenge and set the stage for Bitcoin Cash to grow for decades to come.

4. Bitcoin Cash needs to come out of Bitcoin Core's shadow and take leadership of the P2P electronic cash vision.

Bitcoin Core, from which Bitcoin ABC draws a lot of code and backports, is not developing the P2P electronic cash vision. Bitcoin ABC is. As long as we rely on Bitcoin Core backports to develop Bitcoin Cash, we can not take technical leadership and optimize Bitcoin Cash for global daily use by billions of people. Bitcoin ABC solves this, most notably with the Mempool Overhaul project.

5. The context in which Bitcoin Cash operates is always changing, leading to code rot challenges.

Bitcoin ABC keeps its Bitcoin Cash full node software up to date with changing hardware, dependent libraries, user trends and much more, be it related to SSD adoption, increasing

internet speeds, new bottlenecks, changing tradeoffs, new CPU architectures and other emerging challenges.

6. Emergencies, such as security vulnerabilities happen. Attackers get smarter by the day.

The Bitcoin ABC devops team responds 24/7/365 to new threats.

Why Now

Bitcoin ABC needs funding right now to continue the development of Bitcoin Cash towards goals that aim to improve miners' efficiency and profitability and can enable many other business plans.

- Current Bitcoin ABC funding will be exhausted on 30 Jun 2020.
- As Bitcoin Cash usage grows, every issue that is minor today becomes serious tomorrow. Waiting only promises to sully the reputation of Bitcoin Cash when users try it out and do not encounter a reliable experience. This is a direct threat to the Bitcoin Cash mission of becoming censorship-resistant P2P electronic cash for the world.
- The more we delay resolving the challenge of funding Bitcoin ABC, the more expensive it will get, the more polarized the community will become and the more extreme will be the proposals to resolve it. Nothing good comes from waiting.
- As a top-5 coin in terms of market capitalization, there is an enormous amount of value on the line with Bitcoin Cash. We must keep the Bitcoin ABC codebase up to date with other developments in order to safeguard the value and market position of Bitcoin Cash.
- Currently 90% of Bitcoin Cash developer time goes into maintenance. New features barely register in the workload. If we want to scale, we need to improve this ratio. Funding is required to hire the engineering workforce we need to make this happen.
- Without resources, progress will halt and Bitcoin Cash will not be able to compete with other cryptocurrencies that are innovating and scaling. Code rot will become a serious threat. What is a minor problem today, becomes a huge issue tomorrow.
- Without significant funding, the temptation to prioritize short-term fixes over foundational changes, and the corresponding technical debt, becomes more threatening.
- We have the potential to grow the Bitcoin Cash userbase radically, particularly in the developing world, but only if protocol development is sustainably funded to achieve important roadmap goals.

Unique Value Proposition

The Bitcoin ABC full node software represents a unique value not available elsewhere.

- Bitcoin ABC demonstrates unique and unparalleled commitment and permanence.
- Bitcoin ABC has made detailed changes to optimize mining profitability.
- Bitcoin ABC has proven technical leadership.
- Bitcoin ABC is the unchallenged expert on the Bitcoin Cash full node software used to generate almost all Bitcoin Cash blocks. No one knows this better than us.

Alternatives

Bitcoin ABC is not the only Bitcoin Cash full node client on the market, but we estimate that 95% or more of BCH blocks are produced with Bitcoin ABC. Here are the current alternatives.

- **Bitcoin Unlimited.** A full node software forked from Bitcoin Core in 2015 democratically run by a community organization. It has a troubled history of costly bugs and not following best development practices, which has hampered miner adoption.
- **BCHD.** A volunteer project that is a fork of BTCD and includes features such as a gRPC interface and fastsync. BCHD is popular with users and developers, but the BCHD maintainers do not recommend its use in mining at this time.

Bitcoin ABC is, and has been for 2.5 years, the most professional, most well-maintained and most viable Bitcoin Cash full node software. Bitcoin ABC remains the almost-exclusive choice of BCH miners.

Revenue Streams

Bitcoin ABC's full node software is open source, so we don't have customer contracts. That said, billions of dollars of value has been created by Bitcoin ABC through our creation of Bitcoin Cash and through the block rewards granted to the creators of more than 52,000 BCH blocks per year. More than 95% of all Bitcoin Cash blocks are, and have been, mined with Bitcoin ABC's Bitcoin Cash full node software

Bitcoin ABC revenue streams include the following.

- **Corporate Sponsorships.** We are offering sponsorships to Bitcoin Cash miners and businesses.
- **Community Donations.** Such as the [Coin Dance](#) and [2019 Bitcoin Cash Protocol Development](#) fundraisers, as well as direct donations via the bitcoinabc.org website. We are carrying out a fundraiser during the month of Apr 2020 at fund.bitcoinabc.org.

The Bitcoin ABC 2020 Funding Campaign

During the month of Apr 2020, Bitcoin ABC is running a funding campaign to finance our 2020 development plan. By popular demand, Bitcoin ABC offers you multiple ways to fund Bitcoin ABC's Bitcoin Cash protocol development work.

1. Use **Perks** to make a recurring donation. Get your image and a link back on the BitcoinABC.org homepage.
2. Use **Buckets** to signal your support for specific projects. Keep in mind that the order of development is dictated by technical needs and resource availability. Some things are best done before others to save time and money, and avoid unexpected problems.
3. For **Corporate Sponsorships**, such as miners and other major Bitcoin Cash businesses, please [schedule a presentation](#) of the Bitcoin ABC business plan with George Donnelly or email george@bitcoinabc.org.
4. Use **Flipstarter** to participate in the Bitcoin ABC Flipstarter anyone-can-pay transaction.

1. Buy a Perk: Your Logo on BitcoinABC.org

Support Bitcoin Cash protocol development and we will publish your project logo or individual photo with a link back on BitcoinABC.org until 30 Apr 2021, subject to an approval process. Bitcoin Cash miners and businesses please see option 3 below.

2. Donate via Funding Buckets

Signal your support for specific development projects. See the Roadmap above for full details on these projects. NOTE: The order of development is dictated by technical needs and resource availability. Some things are best done before others to save time and money, and avoid unexpected problems.

3. Buy a Sponsorship Contract

At this time, we are requesting that block producers from the 2019 calendar year contribute a portion of their annual block rewards in return for a sponsorship contract with Bitcoin ABC. Your Bitcoin ABC sponsorship includes the following benefits for you.

1. Your logo will be published on the front page of BitcoinABC.org with a link back.
2. Your team will get a video call with Bitcoin ABC Founder & Lead Developer Amaury Séchet and members of the Bitcoin ABC team twice per year.
3. You will get marketing perks to be determined, such as an interview on our blog, social media posts and more.
4. You will receive priority attention when you need technical support.
5. Periodic status reports from Bitcoin ABC.

Please visit fund.bitcoinabc.org today to make your contribution to the future of Bitcoin Cash, so we can scale and serve billions of daily BCH users.

For Bitcoin Cash businesses who opt not to participate in the Bitcoin ABC sponsorship opportunity, we can offer bespoke Emergency Support on a best efforts basis with per-incident and per-hour charges depending on the difficulty and urgency of your issue.

For exchanges and other Bitcoin Cash businesses, we are interested in serving your needs as well and are open to negotiating custom sponsorship and support packages. Please contact George Donnelly via email at george@bitcoinabc.org or on Telegram at t.me/georgedonnelly.

4. Donate via Flipstarter

Donate to Bitcoin ABC using the Flipstarter “fair-funding” tool with an anyone-can-pay transaction, thanks to the developers at flipstarter.cash. Keep in mind that your Flipstarter pledge only becomes effective if we reach our specific Flipstarter goal amount. Find the link to our Flipstarter campaign at fund.bitcoinabc.org.

Potential Future Streams

Some ideas Bitcoin ABC might explore for the future include the following.

- **Support Agreements.** Bitcoin ABC might sell support agreements to miners and businesses. These would serve as a kind of insurance policy for Bitcoin Cash businesses. The support agreements could be tiered and/or pay-per-incident. Emergency support could be provided immediately for those willing to pay the most. Support might be apportioned based on a [points scheme](#).
- **Linux Foundation Model.** Through sponsorships, development-for-hire, training, events and more, Bitcoin ABC might employ a small team to coordinate forward progress for the Bitcoin Cash protocol while harmonizing the sometimes conflicting interests of competitors in the space.
- **Pay-to-Build Buckets.** This would come under the community donations heading and might enable donors to contribute towards specific roadmap milestones. It’s important to keep in mind that BCH protocol development priorities have a logic all their own, and can not always be changed by popular vote. Some things are best done before others to save time and money, and avoid unexpected problems.
- **The Bitcoin ABC Store.** Bitcoin ABC might sell swag online.
- **Crowdfunding.** For example via [OpenCollective](#), [LiberaPay](#), [“Buy Me a Coffee”](#) or [Patreon](#). It is important to note that for Bitcoin ABC to interact with fiat payments represents a legal and compliance burden that may cost more than it is worth.
- **Bounties, Grants & Awards.** We are keeping our eyes out for any such opportunities. We might develop a formal, legal process to offer Bitcoin ABC a bounty.

- **Dual Licensing / Open-Core.** There is a possibility of requiring a license for commercial use and/or releasing a basic full node client but charging for add-ons, or otherwise modifying the Bitcoin ABC license.
- **The Infrastructure Funding Plan (IFP).** If all else fails, miners may be incentivized to implement an infrastructure funding plan that involves a mandatory percentage-based contribution of the Bitcoin Cash block reward to Bitcoin Cash development teams.

It is important to note that, at this time, there are minimal funds and developer time available to develop additional revenue streams. Bitcoin ABC aims to innovate in this area in the future, once initial Bitcoin Cash infrastructure development needs are on a steady foundation.

Also, any activity to raise funds that takes developers away from developing directly on Bitcoin Cash ultimately needs to be judged on a strict cost-benefit ratio, since the mission of Bitcoin ABC is to develop the Bitcoin Cash protocol. We need to remain focused on that mission.

Donations, or altruism, is a key revenue source we aim to cultivate and support. But it is important to recognize that altruism is not a solid foundation on which to build censorship-resistant P2P value transfer for the world.

Bitcoin ABC remains committed to only accepting funds with conditions that are aligned with the best interests of Bitcoin Cash and Bitcoin ABC.

Key Activities

- Bitcoin Core backports
- responding to support needs
- responding to attacks on the Bitcoin Cash network
- patching security vulnerabilities
- development of items along the Bitcoin Cash roadmap
- keeping the Bitcoin Cash community informed of our progress
- listening to community feedback
- interacting with our sponsors, with miners and other Bitcoin Cash companies, with BCH users and stakeholders

Key Metrics

- progress with Bitcoin Core backports
- progress along the roadmap (see the Roadmap section for more details)
- monthly detailed progress reports (video and text) delivered via email and blog post to our sponsors and the Bitcoin Cash community

Key Partners

- Bitmain
- BTC.top
- Antpool & BTC.com
- ViaBTC

Financials

Bitcoin ABC requires the following annual budget for 1 May 2020 to 30 Apr 2021 to meet the goals outlined in the Roadmap section above.

This budget is built from a detailed model that calculates the approximate time and engineering talent required to meet novel, bleeding-edge technological challenges, problems no one has needed to solve before. As such, it is inherently speculative.

Bitcoin ABC is refraining from publishing the salary structure that underlies these estimates, as to do that would compromise the privacy of key team members, serve as a deterrent to onboarding new engineering talent we need to achieve our goals and potentially open Bitcoin ABC to legal complications.

Bitcoin ABC Annual Budget 2020-2021	
BTC Backports	\$203,241
Fractional Satoshis	\$213,273
Adaptive Block Size	\$283,487
Redundant Coding Capability	\$275,313
DevOps	\$407,567
Mempool Overhaul	\$307,663
Faster Block Propagation	\$245,623
Emergency Technical Support	\$255,912
Training of New Engineers	\$120,000
Business & Communications	\$219,798
Administration	\$88,803
Infrastructure	\$78,332
Operations	\$62,400
20% BCH Volatility Buffer	\$552,283
TOTAL	\$3,313,696

Your Contribution

At this time, we ask you to sponsor Bitcoin ABC for 1 year. Please visit the fund.bitcoinabc.org site for full details and to participate.

- We ask **Bitcoin Cash miners** to contribute a portion of their block rewards from the 2019 calendar year in return for a sponsorship contract with Bitcoin ABC.
- We ask **Bitcoin Cash businesses** to contribute a suitable amount in return for a sponsorship contract with Bitcoin ABC.
- We ask **Bitcoin Cash projects and individuals** to purchase a project or personal sponsorship in return for their logo/photo and a link back on BitcoinABC.org.
- We ask **Bitcoin Cash holders** to contribute a portion of their holdings in whatever way most suits them in return for progress on the Bitcoin Cash roadmap.

Let's have a call so we can talk about your needs and see how best Bitcoin ABC can serve them over the coming year.


Please contact George Donnelly, the Bitcoin ABC Business Development Manager, via email at george@bitcoinabc.org or on Telegram at t.me/georgedonnelly.

Appendix

1. SWOT Analysis

Bitcoin ABC

SWOT Analysis

Strengths <ul style="list-style-type: none">• Outstanding team, including Amaury Séchet, who led the Bitcoin Cash fork from Bitcoin Core.• Heavily-tested, reliable codebase that is stable and efficient.• Already in production use, producing 95% or more of Bitcoin Cash blocks.	Weaknesses <ul style="list-style-type: none">• The team requires capital to continue operations.• The available business models for open-source cryptocurrency protocol development are limited.• We need to onboard new engineers to ensure capability redundancy.
Opportunities <ul style="list-style-type: none">• No other coin has taken leadership of the P2P electronic cash vision.• Real demand exists in many markets for non-limited financial services.• We can break from Bitcoin Core and establish a Bitcoin built for everyday use as censorship-resistant cash.	Threats <ul style="list-style-type: none">• Loss of key team members.• The Libra or another cross-border stablecoin that is able to be used freely and is backed by large institutions.• Any failure to maintain community coherence around Bitcoin ABC and its scaling roadmap. 

Download a PDF [here](#).

Strengths

- Outstanding team, including Amaury Séchet, who led the Bitcoin Cash fork from Bitcoin Core.
- Heavily-tested, reliable codebase that is stable and efficient.
- Already in production use, producing 95% or more of Bitcoin Cash blocks.

Weaknesses

- The team requires capital to continue operations.

- The available business models for open-source cryptocurrency protocol development are limited and experimental.
- We need to onboard and train new engineers to the team to ensure capability redundancy.

Opportunities

- No other coin has stepped up in a significant way to take leadership of the P2P electronic cash vision.
- Real demand exists in many markets for non-limited financial services.
- We can break from Bitcoin Core backports and establish a Bitcoin that is built for everyday use as censorship-resistant cash.

Threats

- Loss of key team members, in particular due to lack of funding and inability to onboard and train new engineers in the Bitcoin Cash codebase.
- The Libra or another cross-border stablecoin that is able to be used freely and is backed by large corporations and/or governments.
- Any failure to maintain community coherence around Bitcoin ABC and its scaling roadmap.

2. The 5 P's

- **Pain:** Miners and other Bitcoin Cash businesses need a reliable, optimized and supported Bitcoin Cash full node software for their critical business objectives.
- **Premise:** Bitcoin ABC builds the most efficient and reliable Bitcoin Cash full node software for scaling Bitcoin Cash to be censorship-resistant P2P digital cash for the world, with support and an ear to the community to ensure we remain on track, on schedule and on budget.
- **People:** Lead Developer Amaury Séchet, Antony Zegers, Jason B. Cox, the development team and business and support staff.
- **Proof:** 95% or more of Bitcoin Cash blocks are mined with Bitcoin ABC. Bitcoin ABC uses less RAM and is more stable than the alternatives.
- **Purpose:** Bitcoin ABC is committed to building and maintaining a Bitcoin Cash censorship-resistant P2P cash system that scales to 10,000 transactions per second (TPS) or more to serve billions of people spending BCH multiple times per day.

3. Slide Deck

You can find the Bitcoin ABC 2020 slide deck [here](#).

4. Frequently Asked Questions (FAQ)

(a) How are tasks assigned and divided up?

Team members self-select tasks based on expertise, interest, direction from Amaury and expressed priority level of the tasks. Amaury and Antony also provide guidance and direction where needed.

(b) How can new people immediately come in and see how to contribute to Bitcoin ABC?

Anyone can discover development priorities and contribute at <https://reviews.bitcoinabc.org/maniphest/>.

Here is a complete and public guide on how to contribute to Bitcoin Cash protocol development available in the Bitcoin ABC GitHub:

<https://github.com/Bitcoin-ABC/bitcoin-abc/blob/master/CONTRIBUTING.md>

(c) How does Bitcoin ABC receive feedback from the community?

Currently, we pay close attention to feedback received via our email address info@bitcoinabc.org, which is in the footer of [BitcoinABC.org](https://bitcoinabc.org). We also closely monitor our Twitter profile at https://twitter.com/Bitcoin_ABC and our Facebook page at <https://www.facebook.com/bitcoinabc.org/>.

Our customer relations manager, in particular, works full-time on responding to general inquiries via email, Facebook, Telegram and other channels. This team member's particular focus is on providing support to the miners and other Bitcoin Cash businesses that use our full node software.

Bitcoin ABC team members participate actively in the public Bitcoin Cash developer video meetings organised by TheFutureofBitcoin.Cash and chaired by David R. Allen. Members of the public can watch the meetings live on YouTube, ask questions and view archived recordings at any time. Archives are available at <https://www.thefutureofbitcoin.cash/development-meetings>.

We also have multiple active Telegram groups including [ABC Social Chat](#). This public Telegram group is for general chat around Bitcoin ABC and Bitcoin Cash.

We also have ad hoc Telegram work groups that are in use from time to time.

We just recently added our Read.cash profile at https://read.cash/@Bitcoin_ABC, where we are publishing news and updates to the community.

Key team members also maintain their own social media presences, actively monitor and contribute to community discussions on [r/btc](https://www.reddit.com/r/btc) and [r/bitcoincash](https://www.reddit.com/r/bitcoincash) and respond to private emails.

(d) What is the Bitcoin ABC decision-making process?

We hold extensive discussions in our Slack, Telegram and private communication channels with multiple individuals, teams and the representatives of entities in the Bitcoin Cash ecosystem.

Technical decision-making usually happens at <https://reviews.bitcoinabc.org>.

Bitcoin ABC is focused on Bitcoin Cash protocol development that is sustainable. Therefore, we establish priorities around this that greatly inform our decision-making processes, taking into account the resources available to us. For example, we generally resist short-term fixes that create new technical debt and prefer to focus on solutions that set us up for ongoing success in scaling to realize the P2P electronic cash vision.

When needed, our Lead Developer Amaury Séchet is the final decision-maker.

(e) How can new developers join Bitcoin ABC?

New developers can create an account on <https://reviews.bitcoinabc.org> and immediately get started. Specific skill sets are helpful but new people are very much welcome.

Due to the small size of the Bitcoin ABC team and our current lack of sufficient resources, we have to establish clear priorities. We simply do not have much time available to educate inexperienced or untrained developers, or to bring them up to speed on the Bitcoin ABC codebase.

If we invest too much time into onboarding new people, there is the risk of creating a net-negative result. This is because time spent supporting those who provide little value and/or demonstrate little commitment is time we are not spending improving the Bitcoin ABC codebase and achieving the Bitcoin Cash roadmap. And the time of qualified developers is a finite resource.

When the team grows and more people are available to share this load, it will become easier to manage this. This requires steady and ongoing funding.

(f) What is the path of a new Bitcoin ABC developer/contributor?

1. A new developer can contact us, expressing an interest via social media, Telegram or email (see our contact channels in question (f) above). However, this step is entirely unnecessary. Developers can skip straight to step 2 if they so desire.
2. They join <https://reviews.bitcoinabc.org> (our Phabricator instance).
3. They select an item to work on, likely from <https://reviews.bitcoinabc.org/maniphest/>.

4. They create some code and submit it back via our Phabricator instance.
5. The code is discussed by the team, and changes can be made. Developers signal their approval and it may be accepted.
6. Once code review is complete, Arcanist (Phabricator tooling) is used to push changes.

4. Related Media

- [The Bitcoin ABC Vision](#)
- [Amaury Séchet on the need to provide ongoing code maintenance](#)
- [ABC is Bitcoin's biggest asset, a CEO's perspective](#)
- [The Bitcoin Cash Roadmap](#)
- [This is Bitcoin Cash \(video\)](#)
- [ABC Dragging Feet or Existential Choice?](#)