



**NOVEMBER 15, 2019
INDEPENDENCE DAY
YEAR 1**

#BSVYear1
#BitcoinIndependence

WHAT IS BITCOIN SV?

Reflecting its mission to fulfill the “Satoshi Vision” of Bitcoin’s creator Satoshi Nakamoto, Bitcoin SV (BSV) emerged to restore Satoshi’s original Bitcoin protocol, keep it stable, and enable the blockchain to massively scale.

This is necessary to achieve the peer-to-peer electronic cash system and blockchain power set forth in the original Bitcoin whitepaper published by Satoshi Nakamoto in 2008.

Unlike other Bitcoin projects, only Bitcoin SV has the plan for a stable protocol and massive on-chain scaling to become the world’s new money and the global public blockchain for enterprise.

This is critical in igniting the future of Bitcoin commerce and in creating a profitable ecosystem for all Bitcoin industry participants.

The only way to bring the power of Bitcoin into mainstream use is through enterprise adoption, which can accelerate and facilitate the onboarding of users worldwide.



Bitcoin SV (BSV) is Bitcoin for business, and the blockchain all enterprises should build upon. True enterprise adoption will only happen if a blockchain has the following capabilities:

STABILITY

No more forks and
endless
protocol updates



SCALABILITY

Unlimited block size



SECURITY

An auditable and
regulated public
blockchain

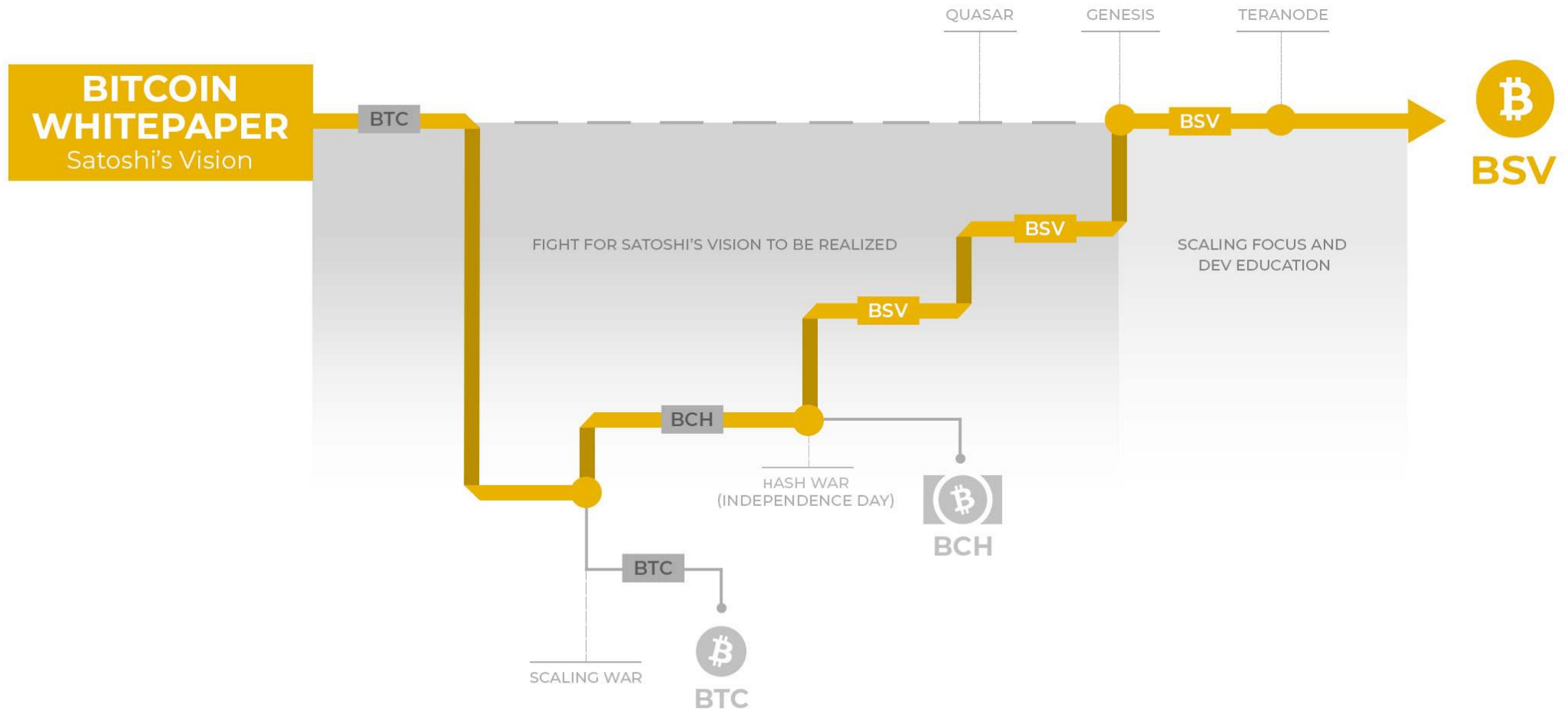


SAFE, INSTANT TRANSACTIONS



THESE ARE THE 4 PILLARS OF BITCOIN SV

HISTORY OF BITCOIN



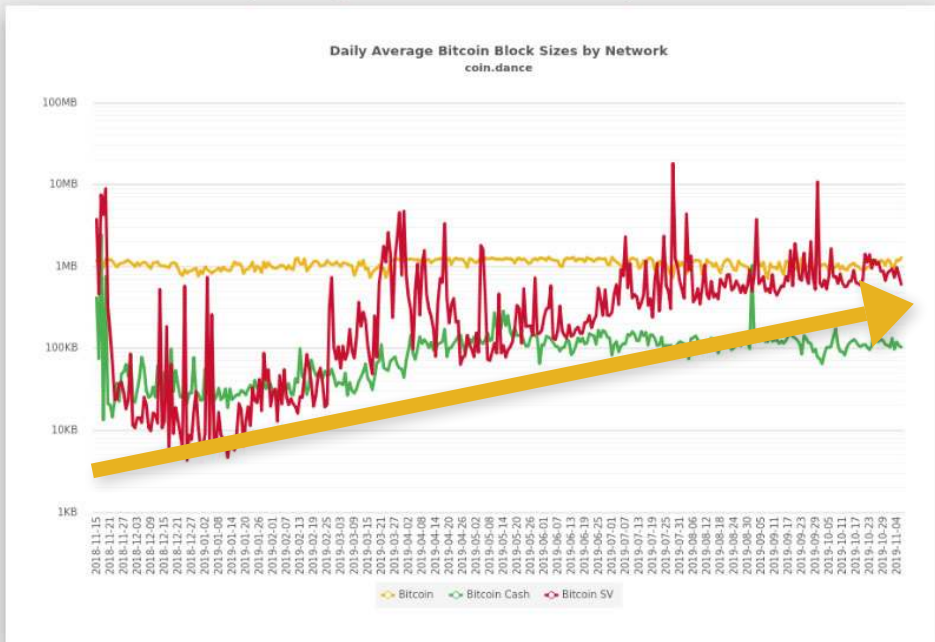
NETWORK METRICS

BSV has a steadily increasing trajectory for:

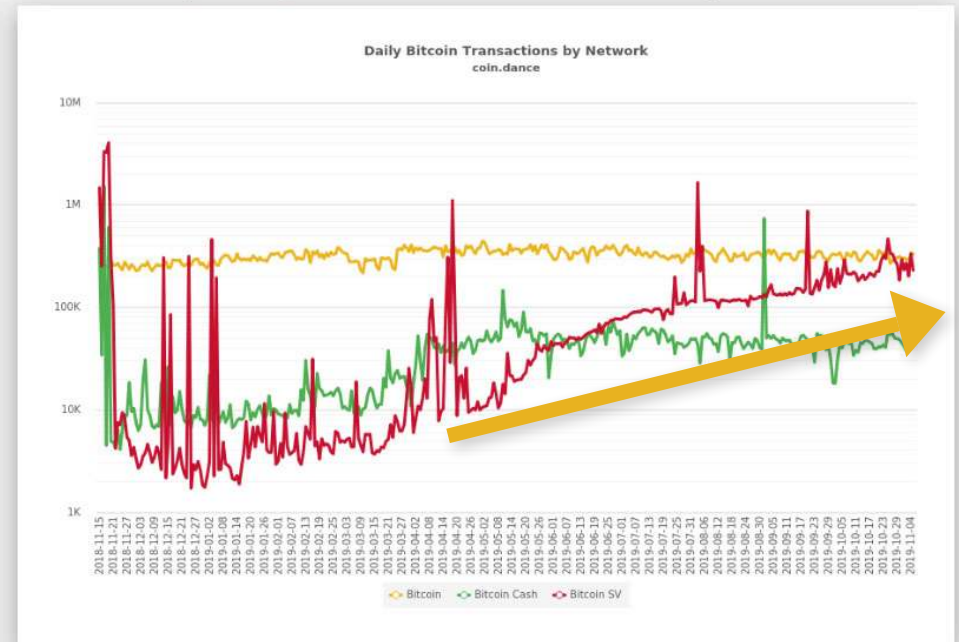
- Daily average block sizes
- Daily average number of transactions per block

It has clearly overtaken BCH, and regularly overtakes BTC.

Daily Average Bitcoin Block Sizes by Network



Daily Average Bitcoin Transactions Per Block by Network



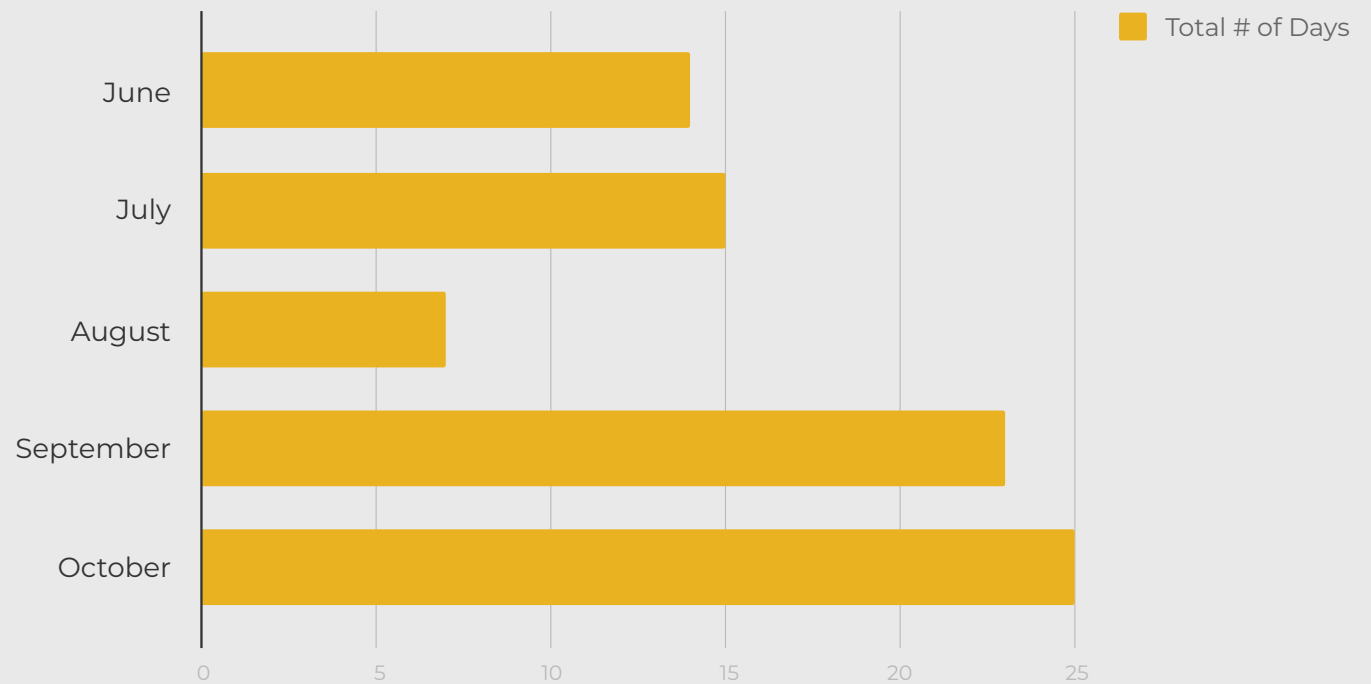
Source: <https://sv.coin.dance/blocks>

MINING PROFITABILITY

Mining BSV is now often more profitable than BTC.
(USD/Day for 1 Thash/s)

BSV > BTC PROFITABILITY

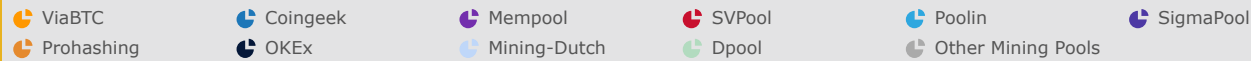
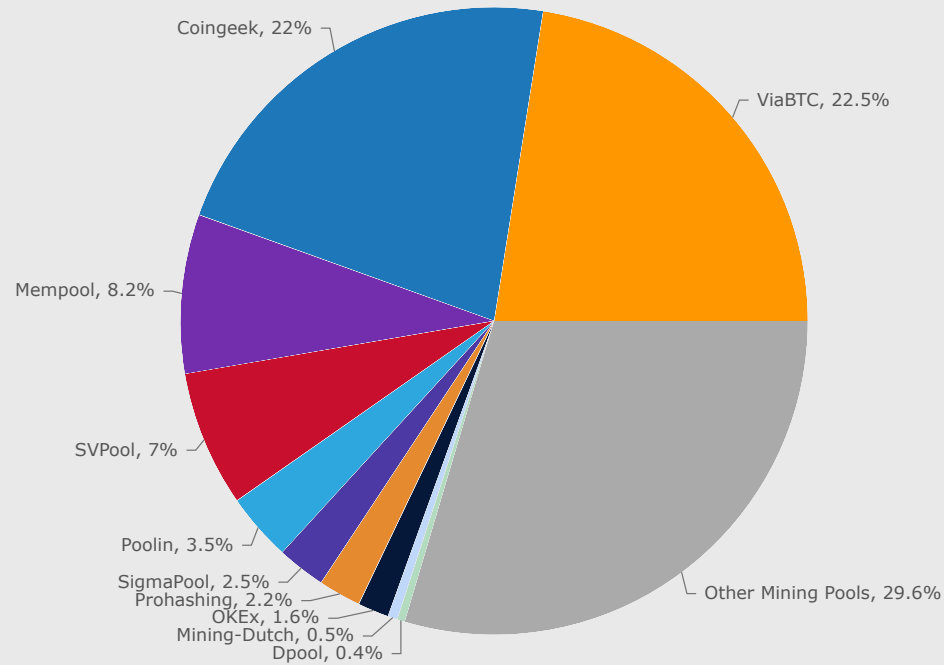
- 14 days in June
- 15 days in July
- 7 days in August
- 23 days in September
- 25 days in October



Source: <https://bitinfocharts.com>

MINING POOL DIVERSITY

Latest Bitcoin SV Blocks by Mining Pool (last 7 days)
coin.dance



The mining pool diversity of BSV has increased.

Pools mining BSV:

- **CoinGeek**
- **SVPool**
- **BMG**
- **Mempool**
- **OKEx**
- **ViaBTC**
- **Poolin**
- **Prohashing**
- **Mining-Dutch**
- **SigmaPool**
- **Anonymous miners**

Source: <https://sv.coin.dance/blocks>

THE QUASAR UPDATE

WHAT HAPPENED?

- The Quasar update was focused on scaling: it lifted BSV's default block size hard cap from its prior 128MB to 2GB (2048 MB).
- Many mining pools have chosen to set their block cap to 256MB for now, to allow the network to adjust to bigger blocks as it builds towards 2GB.
- By separating the default hard cap (set by protocol developers) from the consensus hard cap (set by miners), the Bitcoin SV Node team is diluting the power of the default setting. This is a very active effort by the Bitcoin SV Node team to push the responsibility for capacity consensus into the hands of miners.

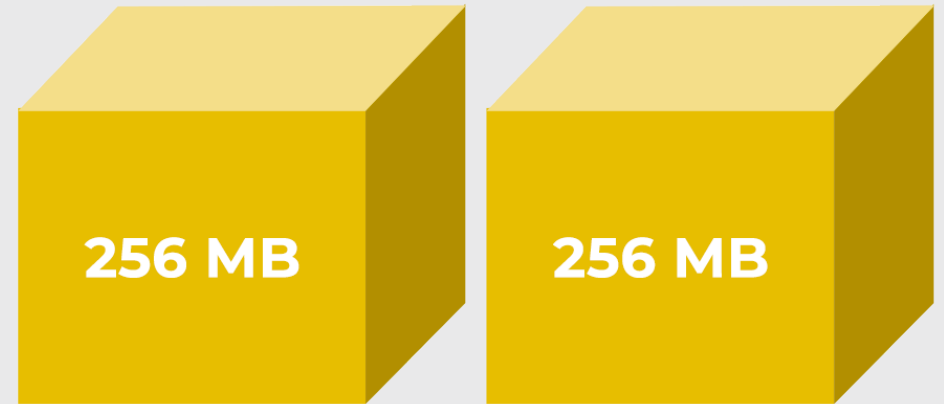


THE QUASAR UPDATE

QUASAR UPDATE LEADS TO BIGGER BLOCKS

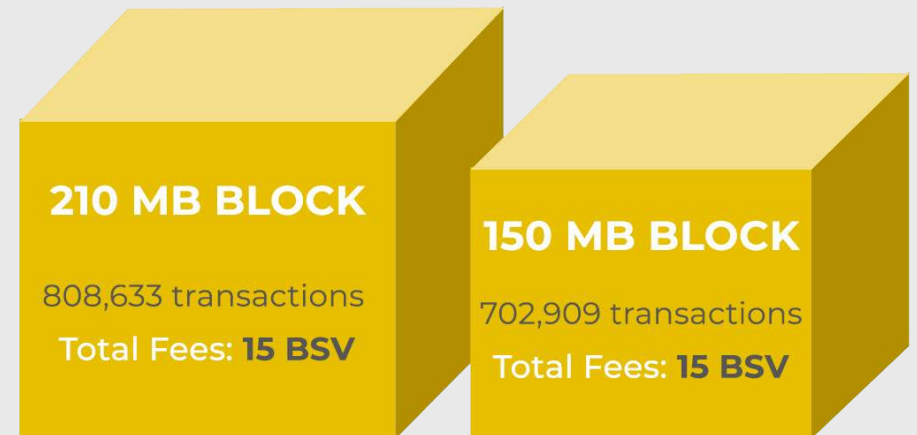
- **July 28, 2019:** 2 blocks of 256MB were successfully mined on the BSV mainnet as a result of a stress test conducted by BSV users. These are world-records for the largest blocks ever mined on a public blockchain.
- **August 3, 2019:** A Chinese BSV supporter ran a public stress test on the BSV mainnet to show BSV can handle large blocks with many individual payment transactions. He sent 2 million transactions to the BSV network in 1 hour. This resulted in 2 large blocks mined on the BSV mainnet – a 210MB block containing 808,633 individual transactions and a 150MB block containing 702,909 individual transactions.

World-record blocks mined on Bitcoin SV



July 28, 2019

Stress Test from China on BSV Mainnet:
2 million transactions in 1 hour



August 3, 2019

KEY TECHNICAL DEVELOPMENTS



Paymail is a new identity protocol for Bitcoin that removes Bitcoin addresses from the user experience and uses actual names that look exactly like email addresses. This makes it easier to remember, write, or type into a phone than complex Bitcoin addresses.



Nakasendo, the software development kit (SDK) from nChain, accelerates the development of Bitcoin applications and consists of low and high level application programming interfaces (API). It recently released support for threshold signatures.



Keyring by BitBoss is a collection of JavaScript libraries for creating and signing transactions, allowing developers to easily build wallets for the Bitcoin SV blockchain. With Keyring, it is very easy to add new op returns and script templates because of how the library is designed to work with multiple chains.



sCrypt is a high-level smart contract language for BSV which enables developers to write smart contracts with a higher-level language. This reduces the barrier to entry when developers are developing on the BSV blockchain.

KEY TECHNICAL DEVELOPMENTS



GearSV now enables smart contracts to work with the Bitcoin SV blockchain.



Prolific developer **Unwriter** has released a dazzling array of tools and protocols for development on BSV. One example is Panaria - an API that is powered by the BSV blockchain and contained as an API microservice so only JavaScript knowledge is needed for development.



Datapay is a JavaScript library used to build and broadcast data transactions to the blockchain. It only has four lines of code and is a great place for beginners to start. Datapay allows for easy entry into blockchain development because of its simplicity.

RAPID TECHNICAL DEVELOPMENT IN BSV ECOSYSTEM

We have seen a rapid explosion of development on BSV. There are now over 300 known development projects, applications or tools for the BSV network (reflecting data combined from AGORA.icu and the BSV/DEVS site).

Last update: **November 6, 2019**

Days since fork: **356 days**

Days since birth: **3959 days**

Total projects: **315**

Development rate: **0.88 project per day**

Maintained by **Peergame**
Data from **BSVDEVS / Agora / etc**

250
Services

Metanet Solutions	Metanet Labs	Voam	Tiddalik	Ecat media	Little Rock POS	Fast Pay Button	Bsvso	Forbsv	Coinpoint
Polyglot	Showpay	Two hops Ventures	Binde	Yenpoint	LetsPlay	Amleh	Layer2	Small world mining	Kronoverse
GearSV	Bitpocket	MetaDomain	Run on Bitcoin	SV Skull	100BSV Club	BitcoinSV.MX	Weiblock	Coinstorage	Mempool
Memorygame	Kwaba Wallet	Bitcoin Pong	The Oracle of Bitcoin	Flappy Pikachu	2048 SV	Bitcoin Blocks Live	Tape Recorder	Infofractal	Linance
Moneytrain	Metaupload	Blockchain poker	SV Charts	Cryptofights	Metahandle	BSV Guru	Ask The World	TweeTwe	Preev
Bitcoin Forever Fund	CambrianSV	Jumpstarter	Soundchain	The BSV Daily	Bitproton	PlayBitcoin	ScrollPay	BSV on Chain	Polynym
Mainmeta	B2029	BSVDEVS	The White Company	Bsvlinks	Timestamp Network	Easysign	TrueReviews	Twip	Unplanaria
Bitproof	SVPool	Bitcoin Association	Satoshimaps	Codeonchain	Planaria Corp	RateSV	Sourceshare	5 Cent Space	Datapush
Squire Mining	Search Twetches	Mempool	UptimeSV	Agora	Preserve	PageReturn	Hive	ClassifiedSV	Owaf
nChain	Faia	BSV.CX	POP	CalendarSV	Drive Markets	Unisot	Codugh	Metatalk	Libs

250

Services

Phun.io	Blockchain Poker	Kaching	Metapedia	WhatsupSV	MetanetICU	Coingeek	BitQ&A	BSVcreations	Unbound Capital
FloatSV	Baemail	BitChat	Coin2Speech	PixelSV	AudioB	Blockchair	StopPlastic	WebCash	Local SV
BitIndex	ExFuturo	Huge Block	Mattercloud	Cashport	BitMesh	Coin Dance	MicroBSV	BSV Woocommerce	AppsonChain
Raisex	RelayX	SimplyCash	Bitgraph	Bitfire	SVBlox	Whatsonchain	SVPairs	BUSKON	BluSV
Handcash	Hivr	Hodler Tech	Moneybutton	IPayYou	Pixel Wallet	NextCash	AskSV	RemindMe ThisTwetch	MyBitshit
iMedDo	Search BSV	Cryptonize	Bitaddress	CashPay Wallet	Centbee	Electrum SV	PolISV	Crypto swagshop	BSVonChain
Faucenet	Fivebucks	GifterCash	Pedlr	SV GO	TonicPow	Zeroconfs	Terminus	Bitid	The Fast Company
Weighless	Bottle Browser	Bottle for Chrome	Trends.cash	Oyo.cash	Bitcoin Token	DuckCreation	Bitboss	AnyPay	BSV Medium
Bitcoin Files	Bitcoin Page Shot	Bitpaste	Bitsent	Etched Page	Legally Chained	Sym.Re	Bitdiary	Boquan Inc	Newspaper
PlayBitcoinSV	Smooove Text	Social Gambling	Super Mario Bros	Cityonchain	WeatherSV	Bico.Media	BSV Forever Fund	Dot Wallet	PublishSV
Bitok	Crypto Graffiti	Dream Stone	Feed the Frog	Metanet Land	Number Sonics	Peergame	Blackout	Last Purse	TipTop
Art on Bitcoin	Ask Craig	BSV777	Bitcoin Defense	Bitcoin Piano	Bitcoin Plays Pokemon	Bitgamer	Obito	Go-SVDB	Baemail
Twetch	Bitstocks	BuyBSV	Tokenized	CashPay	Simple Cash	Bitek	SENN.no	PressBit	BSV.SH
Satoshi Doodles	Streamanity	XHoneyBadger	Yours.org	BSV Galaxy	Haichan	Metalens	Zweispace	SV.cafe	Nicedata
Bitstagram	DataBlast	Literatus	Matter	MemoSV	Metanet TV	Open Directory	BitcoinSV Developers	Weedl	52freemarket

45 Resources

Metanaria Metanet query engine	bsv BSV Javascript library	Bitcoinj BSV Java library	WOC Open-sourced BSV explorer	Captcha Joomla BSV Captcha					
BitSV BSV Python implementation	EventChain General-purpose append-only log for events	NeonPlanaria Bitcoin as Back-end	BitBtn UI button for interacting with BSV wallet	MetaVibe Location-based meta layer	Weekly Planaria node with 7 days rolling tx data	MiniGate Lightweight metanet gateway	Casco Bitcoin app development toolkit	BcoinSV BSV Node.js implementation	Meta Block header metadata database
Link Links to private data on the metanet	BASCIAT Storing Images as ASCII	Rust SV Rusk library for Bitcoin SV	Bitsh Bitcom shell interface	Keyring Javascript library for TXs and wallet	BitPipe Transaction broadcasting microservice	Relay One Multi-wallet payment interaction	Planarium Bitcoin infinite API	GridPlanaria Distributed Bitcoin grid	Bterm Terminal for application protocols
Euler Transaction graph-only database	Babel BitDB node for data-only applications	Chronos Ephemeral BitDB for time	Metanaria Metanet query engine	Bitbus Serverless Bitcoin computing	Metagraph Metanet graph explorer	BitIndex Cloud infra for querying UTXO/balances	Bitquery Bitcoin query language	Metaglude Metanet app development tool	sCrypt Turing-complete programming language
Nakasendo nChain's software development kit	Planaria Infinite API framework over Bitcoin	BitDB Autonomous Bitcoin database	BitSocket Bitcoin push notification	DataPay Library for data broadcasting	Metawriter Command-line tool for the metanet	NeonGenesis Topologically ordered Bitcoin database	Bitwork Bitcoin networking library	SVDB Structured Bitcoin database	BSV-ex BSV Elixir library

20 Protocol Layers

Bit:// Bitcoin Protocol Protocol	AIP Author Identity Protocol	MAP Magic Attribute Protocol	A.N.N.E Interconnected Usable Data Protocol	BOB Bitcoin OP-Return Bytecode	MOM Metanet Object Model	Tokenized Token Layer Protocol	BPU Bitcoin Processing Unit	APDU Application Protocol Data Unit	SU Simple Authentication Protocol
Bitcom Open ended OP_Return Protocol	BCAT Large Data Protocol	Paymail Extensible Identity protocol	RON On/off Ramp Protocol	B:// Bitcoin Data Protocol	C:// Content Addressable File scheme	D:// Bitcoin Dynamic Protocol	TXO Transaction Object	Overpool Turing-complete Off-chain Ledger	ECAT Encrypted Content Protocol

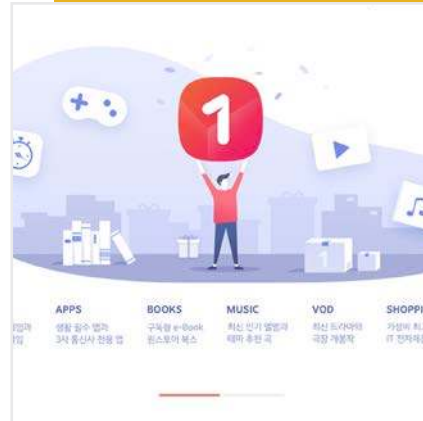
Base Protocol

BSV Protocol

NOTABLE UTILITY: BUSINESSES ON BITCOIN SV

ONESore – now the 2nd biggest mobile app store in S. Korea (majority owned by SK Telecom)- announced its new BUSKON music content delivery platform which is built on BSV.

<https://onestore.co.kr/userpoc/main>



UptimeSV helps businesses by providing distributed performance and uptime monitoring for dedicated denial of service (DDoS) enterprise systems. It seeks to stop attacks from bad actors, thwart attacks, and pay other users in BSV to help in that role as nodes (using people's mobile devices) for an UptimeSV network.

<https://uptimesv.com/>



AMLEH – a new company (part of LAYER 2 parent company focused on BSV) will be launching AMLEH GOLD - tokenized gold. It will provide audited reports of physical gold held in a vault, store the audit reports on the BSV blockchain, tokenize the gold down to 1 milligram (4 cents each at today's price), and create a wallet/payment ecosystem so people could use the gold token to pay.

<https://amleh.com>

U.S. company, **BitBoss**, provides blockchain-based solutions for the regulated gambling industry. It is using BSV and BSV-based tokens to power its BRIDGE product, which connects land casino machine back-ends to play digital wallets on mobile devices.

<https://bitboss.io/>



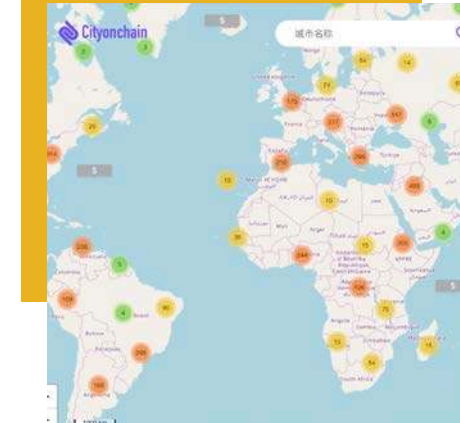
NOTABLE UTILITY: BUSINESSES ON BITCOIN SV



WeatherSV takes open source weather data collected from 40,000 weather stations around the world and presents that information to its users, storing it on the BSV blockchain. Users pay the equivalent of AU\$3 in BSV to open a weather channel for a specific city. The weather data will be forever available for many business and scientific uses.
<https://weathersv.app>



Centbee started as a Bitcoin wallet app known for its minimalist design, which makes for its ease of use. Now, it's on a quest to transform the remittance sector in Africa - launching a more efficient, lower-cost remittance product using the BSV blockchain. The company is also making it easier to acquire BSV across South Africa by enabling consumers to instantly buy BSV at retail tills via a voucher system.
<https://centbee.com/>



An on-chain digital world for localized information built using BSV, **CityonChain** has already included more than 9,000 cities worldwide - all with the ability to integrate solutions offered by Money Button, WeatherSV and others.
<https://cityonchain.com/>



01

Restoring the Original Bitcoin Protocol

GENESIS PROTOCOL UPGRADE

COMING FEBRUARY 2020

The Genesis upgrade will restore the Bitcoin protocol as closely as possible to the original protocol released by Satoshi, and **remove artificial limits** imposed by prior developer groups. The upgrade contains a large number of changes which can be put into three groups:

1. Removing the artificial limits imposed on the protocol.
 - Genesis will completely remove any default block cap. The block size of the network will be completely left to the consensus of miners, subject to market forces, rather than dictated by protocol developers.
 - Genesis will also lift the limit on the size and capabilities of transactions.
2. Restoring the original Scripting language to its full functionality.
 - Example: Restoring the capability to process large numbers.
3. Removing some of the detrimental changes that were made over the last few years.
 - Example: Sunsetting P2SH.



02

Locking Down the Protocol

GENESIS PROTOCOL UPGRADE COMING FEBRUARY 2020

The Genesis upgrade contains many technical changes to restore the original Bitcoin protocol. One reason for grouping these all together in one upgrade is to “Lockdown the Protocol,” and to have a “protocol set in stone” as Satoshi always intended.

Stability is also critical for businesses to use the blockchain. Enterprises need a stable protocol to build and rely upon, just as the Internet grew to massive usage because the Internet Protocol, has changed very little over the last 30 years.

While Bitcoin SV may have some more software upgrades after Genesis, the key protocol elements will be restored in February 2020 and any future updates are not expected to materially affect the protocol.

The BSV ecosystem will encourage developers and businesses to build new tools and applications **on top of its stable protocol.**



03

Unleashing Bitcoin

GENESIS PROTOCOL UPGRADE COMING FEBRUARY 2020



At a higher level, the combination of the Genesis upgrade and the continual work on scaling will “unleash” Bitcoin. Bitcoin has been heavily constrained over the last years: limits have been imposed, the Bitcoin Script language has been emasculated. This upgrade will unleash Bitcoin so it can become what it was always meant to be. Businesses will be able to **build upon a stable platform** that has the capacity they need, and developers will be able to **design transactions that perform complex functions.**



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