

EPIC CASH

Epic Bu Ego ıntaneti nwere privaci

EPIC

Sistemụ Ego Kọmputa nke ibe na ibe

URU NCHEKWA + UZO MGBAWE + OTU OMA AKAUNTỤ

ihe dika otu ijeri nari asaa na nde ndi okenye dum enweghi ohere inweta usoro akụ na ụba ụwa, ebe otu ijeri nari ato nde ndi ozo enweghi ego ijiri lekwata owe ha. Epic Cash na-emeghe ikike mmadu site na ijiko ndi mmadu na ahia ụwa. Ngwa ngwa, o foro nke nta inwe iji ya, ma mepere mmadu niile.



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I. Umi Edemede

Epic Cash bụ isi okwu na kwa okwu ikpeazu na njem iji nweta ezigbo ego intaneti nke akporo P2P, maka na o bu isi ego nkeonwe. Ego Epic na eweta nchedo privacy kachasi mma n'ụwa nke ego dijitalu. Iji mezu ebunuche a, o na-emejuputa uzo atọ ejiri mara ego:

1. uru nchekwa – enwere ike ichekwaa ya, nweghachite ya ma gbawee ya n'oge obula, ma bukwara ihe uru mgbe achoro ya;
2. Uzo mgbawe – ihe o bula enwere ike inabata di ka ihe nnochianya nke uru na kwa i gbanwe ya maka ngwa ahia ma o bu aka oru;
3. Otu oma Akauntu – akara nke eji na-agukota otu uru ihe bara ma o bu itunyere ya..

	\$ USD	BTC	EPIC
Uru nchekwa	✗	✓	✓
Uzo Mgbawe	✓	✗	✓
Otu Oma Akauntu	✓	✗	✓

ihe dika N'afọ 2009, emeputara Bitcoin di ka ego dijitalu nke dabeere na blockchain mbu, o nwere njiri mara atọ akwaputara megide ndi ozo cryptocurrenciesich na-enyocha:

- ✓ **Trustlessness** – onweghi ulo oru onye obula ga elekwasị anya ka o ruo oru
- ✓ **Immutability** – ahia obula azuru, a zuchala ye
 - a. o siri ike idegari ahia azuru;
 - b. O gaghikwa ekwe onye o bula nani onye nwe mkpisi ego ga ewe ike ikwaga ego gaa ebe ochoro
 - c. A na edekọ azumahia niile na blockchain.
- ✓ **Decentralization** – eweghi onye were Blockchains (o nweghi onye nwere ike ichikwa ya)

Bitcoin meputara uzo ohuu na teknuzu ka o na-agbaso usoro a nw alere na usoro ego ya. mmeri nke bitcoin new er na blockchain bu maka na ego ya pere mpe nke ukwu. Epic Cash na esi uzo bitcoin siri new mmeri site na lme ka ego ha pee mpe nke ukwu..

N'agbanyeghi ihe uzo nke oma nke Bitcoin, ekpughere ufodu adighi ike kemgbe mmalite ime na afọ iri gara aga. otutu oru agbaala mbọ iji merie adighi ike ndi a ma anyi nyochaala ihe kachasi mma n'ime ndi a iji buru ebe mbido anyi. Anyi ninle kpebiri na anyi ga eiji Grin codebase na oru okike otutu oru ndi ozo iji nyere anyi aka ikwado Epic Cash

Epic Cash nwere njiri mara bu oke iji buru ezigbo ego:

- ✓ **Fungibilti** – di kuru Yic ma o bu Yuan siri nuru otuu. otua kaEpic choro ime kavalu ego haburu otuu. Ebumnuche nke fungibility na-adabere na privacy.
- ✓ **Privaci** – Epic Cash blockchain na-echekwa nkwaputa nke azumahia sitere na ndi ndi zuru ahia na blockchain..a ru ru ya out bu na eweghi onye nere ike ihu onye zigara na onye ezigara.
- ✓ **Scalabilti** – Epic Cash na-ejigide agiga nke blockchain, nke enwere ike imeputa [nodes](#) ohuu na-enweghi ngwa o bula. Epic Cash blockchain nwere ike opekata mpe okpuku abuo nke Onye Puru lme lme Niile nke BITCOIN na eme.
- ✓ **Spedi** – Azumahia Epic Cash bu Technauzu nke a choro na ogbo ohuru a maka na o na ga oso oso o dihu ka bitcoin na acho block iri ka onye ezigara ego nwetaya ya

¹ Buterin, Vitalik, *The Meaning of Decentralization*, 6 February, 2017, <https://medium.com/@VitalikButerin/the-meaning-of-decentralization-a0c92b76a274>

II. Privaci

Otuu esi eri ego na agba ohuru a bu ihe a ga akowa na nkeke okwu, nkea bu izu ahia na etiti mmadu na mmadu ma obu ulo oru na ulo oru,

A ga okowali izu ahia na ajuju ndia

1. Onye ji ya na ego ole ka onye ahu ji?

2. Onye na onye na azu ahia ego, na ego ole kaha na azu?

Maka ego na abughi ego dijital ya na kwa ego digital dika bircoin,anyi ga aza ajuju ndia mana tupu anyi azaa ha anyi ga eyocha ndu mmadu yana out ha si eri ego. Na mmechi ndi mmadu na acho iziga ego na nzuzu, ma obugi nzuzu ihe gbasara ego mmadu ga abanye ha aka ndi ojoo.

n'oge mmalite nke cryptocurrency. ojiji nke cryptocurrency egosi nkwado maka "eziga ego nzuzo" na blockchain. A na-atule onwego ezigara na nzuzo, na usoro a, site na ndi mepere emepe ruo na ndi ozo. Dika teknuzi na-akawanye mma, teknazu nzuzo na -aga n'akuku ozo, otu isi nkuku di mkpa nke cryptocurrency, ntukwasiji obi, bu iga nke oma nke Bitcoin na blockchain,. Bitcoin gbara ndi oru privaci ozi nzuzo ume. Mana ewere ihe foduru. Nke a mere ka Ego Epic na-agbadata n'ebe adihu ike nke bitcoin, na emeputa tekinazu privaci nke onwe ya na privaci nke azumahia n'ime blockchain ga eme ka ahai ego too uto.

Privaci nke njirimara



Privaci nke azumahia



Privaci nke njirimara



A na-eche kwa ọtụtụ cryptocurrencies dị ka Bitcoin na ime wallet ndị nwegasiri adresị a na-akpọ [igodo oha](#) nke a sitere na nke a na akpọ igodo nzuzo private key. Enwere ike icheta adres ndị a dị ka ndị na - achọta ebe ndị ọrụ nwere oghere nzuzo na ụwa dijitalụ. Epic Cash blockchain na-ewepu adresị kpamkpam. Iji dochie ya, ọ na -emeputa [nnukwu okwukwo ndeko](#) aiha nke a na-esi na igodo ọhaneze na nkeonwe emeputa kwa ụbọchị.

maka na adresị Bitcoin bụ ulo onye na ụwa dijitalụ, enwere ike ichọta obere akpa ahụ na adresị Protocol Intanet nke onye nwe ya (IP), nke na-enye onye nwe ya kọmputa na ọndụ pụrụ iche n'oge enyere. N'ikwu ya n'uzọ dị mfe: mgbe a ga-eme azumahia Bitcoin, a na agbasa azumahia ahụ site na usoro nkwa ukorita akporo 'NODE' wee gbasaa na ihe a na-akpọ 'peers'. n'oge a, a na-agbasa ozi ngwa ngwa ọ bụla n'ime NODES ndị ahụ n'ofe netw orkplatform niile. Usoro a ka akporo "Gossip Protocol". na nkwa a dij mpirikpi, Bitcoin ọ bụla nwere ọndụ intanetị na-ahụ anya na ebe a na-ahụ ya ebe enwere ike ichọta ya. Dịka onye nta akpọ Grace si kwuputa nke oma, Bitcoin abughị "ihe nzuzo kama ọ bụ nyocha Google site na intanetị I nere na ulọ."

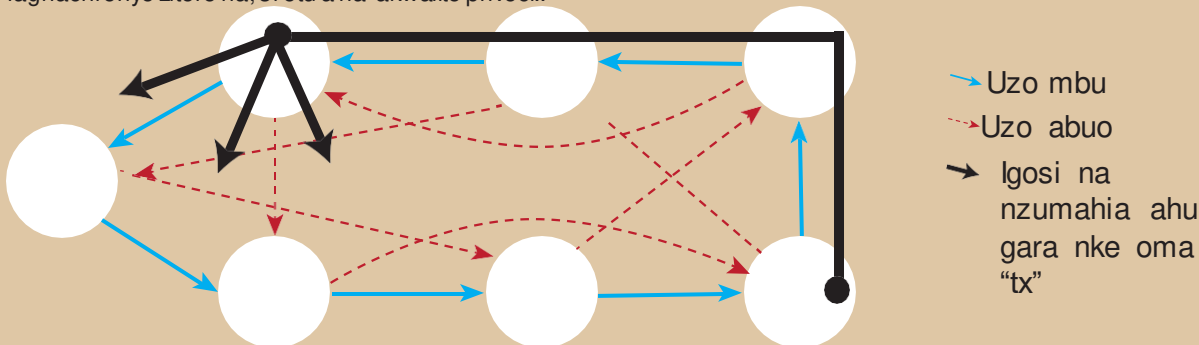
N'ihe banyere iwepu adresị obere akpa, Epic Cash blockchain na-echedo privaci nke njirimara site n'ihu na erw eghị ike ichọta adresị IP. Ọ na - egbochi nke a site na njikọta ihe pụrụ iche nke Dandelion ++ Protocol. Na-emeziwanye site na nke gara aga. Dandelion Protocol mbụ, Dandelion ++ Protocol bụ nsonazụ asaa nke ndị ọrụ nyocha gara n'ihu iji luso ọgụ mbibi ọgụ na blockchain. Site na Dandelion ++, a na-agafe azumahia na-agafe agafe na usoro dij iche iche, ma ọ bụ 'cables', wee gbasaa na nnukwu ọnya ọny, dij ka pod nke ifuru Dandelion mgbe etinyere na stem ha (Ọgụgụ 1). Nke a na - eme ka ọ buru 100% na - agaghị ekwe omume ichoputa azumahia azughachi na ndị na - ezigara ya, ma si otú a malite na adresị IP

Figure 1: nwekwuo azumahia na Dandelion ++ Protocol.

Dandelion++ na-ebugharị ozi karịrị otu n'ime mmadụ abụọ jikoro ọny na giirafi mgbe niile, na-agbasa ozi na iji mgbasa.

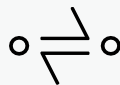
N'ebe dij n'okpuru, azumahia na-egosi n'elu okporo ụzọ ahụ siri ike na-acha anụny anụny. Usoro a na - eme ka o sie ike ichoputa azumahia

laghachionye zitere ha, si otú a na-akwalite priveci..



²F2Caffyn, Grace, *Chainalysis CEO Denies 'Sybil Attack' on Bitcoin's Network*, 14 March, 2015, <https://www.coindesk.com/chainalysis-ceo-denies-launching-sybil-attack-on-bitcoin-network>

Privaci nke ahia



Epic Cash blockchain bu oru ngo na-eme ka obi sie ndi na azu ahia na blockchain ike maka teknazu ha ji wepu ihe ga eme ka ihu onye zigara ego yana onye ezigara ya. A na-enweta nke a site na itinye echiche ndi maara nke oma na ngwa blockchin ha. Ha ji CoinJoin5, ụzọ n'ime nnukwu platifom nke [Gregory Maxwell](#) (onye na ndi mepere Bitcoin, burukwa otuu na onye mepere na CTO nke Blockstream).

CT, emeputara ya na nmalite n'aka [Adam Back](#) ma Maxwell achọ ya mma, ọ na-arụ ọrụ site na ikewa nazumahia na mpaghara pere mpe site na izo ya ezo. Ozugbo e kesara siri nke a, ọha a ga hu-ahụlị ọnụego azumahia ahụ n'ihị ụzụ kpuchie / teknụzụ privaci, usoro na-atụba nomba na-enw eghị ego na mpempe azumahia jiri zoo ukpuru. Na mmechi, ọ bụ naanị ndi na-emekọrịta azumahia maara uru ahia mgbanw e bara, ebe netw ọtị na-enyocha azumahia ahụ site na nkwe enye na nchikota ọnụahịa na eme nke a ihe ebe nrụputa niile ga-abụ outuput na onu ogugu nke nchikota nke entinye input ga abu ofu.

Iji nwetakwuo ọrụ nke anya privaci, azumahia Epic Cash niile ji tekinazu CT I jiri w ee zoo njikọ di n'etiti ndi na azu ahia ninle a na blockchain. Emere nke a site na echiche nke abụọ nke Maxwell, CoinJoin.

Iji kọwaa CoinJoin n'uzọ di mfe, w ere ya na A, B na C na-eziga Epic na X, Y na Z n'otu n'otu. Ha sikw a na etiti CoinJoin na ziga ya, ihe niile a maara bụ na A, B na C na-eziga ma X, Y na Z na-enw eta, ebe ọnụahịa ahụ ka a na-anaghị ahụ anya. Usoro CoinJoin bu ihe di nkpa nye Epic Cash site na [One-Way Aggregate Signatures \(OWAS\)](#), na-ejikọta azumahia niile n'ime otuu bulok nke azumahia na blockchain.

Nkowa Privaci

Epic Cash blockchain na-echebendị mmadụ n'otu n'otu na azumahia ha site na:

✓ **Kpochapu adreesị ego - Enweghị ihe ichọpụta ọnọdụ maka ulọ ahịa dijitalụ na blockchain. A na-eme azumahia a ozugbo n'onwe onye n'ahia**

✓ **Dandelion ++ Protocol – o na kpuchie ụzọ dijitalụ nke azumahia si na adreesị IP onye zitere azumahia ahụ;**

✓ **Azumahia Nzuzo - na kewaa azumahia ahụ n'ọtụtụ akwa ma webata ihe n'ime mkpokọta ahụ, ka enweghị ike imata ukpuru nke iberibe ya na azumahia ndi ozo;**

✓ **CoinJoin - na - ejikọ azumahia na ngwungwu uji kpuchie mmekọrịta di n'etiti otu na-emekọ ndi ozo**

⁴ Maxwell, Gregory, *Confidential Transactions*, Technical Report (2015), https://people.xiph.org/~greg/confidential_values.txt

⁵ Maxwell, Gregory, *CoinJoin: Bitcoin Privacy for the Real World*, 22 August, 2013, post on Bitcoin Forum, <https://bitcointalk.org/index.php?topic=279249.0>

III. Fungibiliti

[Charlie Lee](#), onye bụ onye meputara Litecoin, kwuru na fungibility bụ naanị akụ nke ego dị mma buru kwa nani ihe na-efu na Bitcoin na Litecoin, na-ekweta na privacy na njikwa ya bụ ihe ọzọ na-esote mkpụrụ ego crypto ahụ. [Andreas Antonopoulos](#), otu n'ime ndị ọka iwu kachasi n'ụwa blockchain, kwuru na "... mkpụrụ ego tinted na-emebi ihe. Ọ bụrụ n'ezie ịgbaji e fungibility na privacy, ị ga-emebi ego ahụ.

Fungibiliti bu ngw ongwo ga-agba mbọ hụ na nkeji otu nke setipuru bara ezigbo uru ma new kw a ike iagbanwerita kwa ya bu gw o ngw o.. nke a bu teknuzu di iche na eitj ego izizi na sistem ugua. Ew epu fungibility ego ga-efunahuru uru ya ngw a ngw a. di ka esi gosiputa n'okpuru ebe a, njikwa nke otutu cryptocurrencies bu ihe a na-ejighi n'aka, mana na nke Epic Cash's isi ihe okike ya na-achoputa ya mere ka odiri iche di mma.

Imirikiti cryptocurrencies nke di ka Bitcoin, site na odidi nke transchains, e nwekwara ike ichota azum ahia ya na obere akpa o bula ehekwaraha. Ndi oru na gogomentj Privati na-enyocha ihe blockchain Bitcoin na usoro na-arwanye elu iji choputa mkpuru ego eji eme ihe ndi gara aga.

Nke a na-eduga na-enw e nchegbu na enw ere ike machibido mkpuru ego na-abaghjuru ibanye na azumahja, na-eme ka ndi oru ha nw ee nnukwu mfu.

Na Maachi 19, 2018, .Slo Oru U.S. of Foreign Asset Control ([OFAC](#)) mara okwa a na o na-atule ya bu igunyere adreesj ego dijitalu na ndeputa nke ndi puru iche ahaziri mba ([SDNs](#)), nke bu ulo oru ndi amachibidoro ndi mmadu U.S. azumahja ma o bu azumaahjas

ugbu a ana-ejigide mkpuru ego nke edeputa na SDN, ga-etinye ndi nwe ya na nsogbu. Nke a emeela ka profeso iwu na Mahadum New York, Andrew Hinkes, kwuo okwu, "sutu onu ochi gwa fungibility gaa nke oma," ma sikwa na ohaneez kwesiri itu anya "mkpuru ego privacy ya bu mkpuru ego eweghi onye ga amali ebe onye sitere ya si

Ma iburu mmepe ndi a n'uche, o buhu ihe siri ike iche na ihe ojoo ga eme na uw a crypto, lwe ere ike iche na crypto ga ekpochapu na uw a dijital, ma ya buru godi na cryptocurrencies ahu mara ezigbo mma, Epic bu otu n'ime cryptocurrencies ole na ole nke ga - ewepu nsogbu a kpankpan site na njiri nzuzo siri ike akwara na akw ukwo a. Site na iwepu njiko di n'etiti njirimara na inwe, yana mmekorita di n'etiti ndi na-ebughari azumahja, Epic enweghi ike ijiko mmadu na oru. maka nke a, uru Epic na-akwughj otu maka ndi oru ya, o ga-ewetakwa okwa di elu nke nzuzo na nchekwa nke ndi onekome na-enw eghj ike ichikwa ya na mpu, ego, ma o bu usoro ndoro ndoro ochichi.

“...EGO TINTED NA EMEBI IHE. MA I LEGARIA FUNGIBILITY ANYA NAKWA PRIVECI, I MEBIE EGO AHU”

ANDREAS ANTONOPOULOS

⁶ Njui, John P, *Charlie Lee: Litecoin (LTC) To Soon Have Confidential Transactions for Fungibility*, 29 January, 2019, <https://ethereumworldnews.com/charlie-lee-litecoin-ltc-to-soon-have-confidential-transactions-for-fungibility/>

⁷ Carl T, *Andreas Antonopoulos Says If Fungibility Is Not Fixed Bitcoin Could Be Attacked*, 9 April, 2019, <https://bitcoinexchangeguide.com/andreas-antonopoulos-says-if-fungibility-is-not-fixed-bitcoin-could-be-attacked/>

⁸ Hinkes, Andrew, Ciccolo, Joe, *OFAC's Crypto Blacklist Could Change Crypto*, 24 March, 2018, <https://www.coindesk.com/goodbye-fungibility-ofacs-bitcoin-blacklist-remake-crypto>

IV. Scalability

Epic Cash bụ [MimbleWimble](#) e mere impliment na blockchain nke meputara ihe na scalability n'ihu otu esiri ruo igwe na edekwata azumaahia ya . Tekinazu eji na-ahụ maka ihe ndị a na-eme ka blockchain Epic na-eto nke ọma n'oge. Maka na-adighi ka ọtụtụ cryptocurrencies ndi ozo, dika Bitcoin, nakwa nodu ouru a, a ga ekeputa ya ma etinye ya obere ike nke komputa. Ọzọkwa, n'agbanyeghi nodu Bitcoin ọ bula ga-echekwa na nke aporo chain otu na otu, Epic Cash nodes na-enwe ike itinye aka na nchekwa netwọk site na obere obere ego buloks

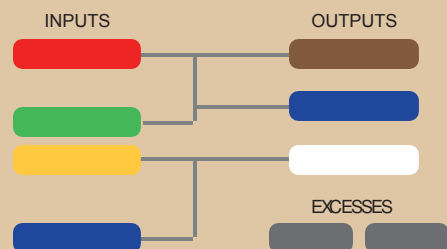
Ọtụtụ cryptocurrencies choro nchekwa nke na-agaghi ejuputa maka ndeko nke data na blockchains. Ngw akota Bitcoin na - enw eta 0.1353 GB nke ebe nchekwa kwa ubochi, ebe yinye Ethereum na - abaw anye na ngwa karja 0.2719 GB o buru na bitcoin si otua na agbago, o ga eru 6 Tb na afo 2140. Ethereum ga-akarj TB 10 na 2140 ahu. nke a putara na, blockchains na-enw eghi MimbleWimble, ndi nw ere nodu nke azumahia gburugburu uwa. Ga-enyocharj ya azumahia ha na blockchain ka ow ere ike igafe. Ihe ojoo di na nke a bu, di ka data na-abaw anye ka oge na-aga, otua ka ibu di na nodu ọ bula. na abw anye. Ọbuna na naanj 200 GB (nha nke blockchain Bitcoin), imekorjta data na blockchain choro netw oku kw usiri ike na agakw a oke osọ.

Na ihe uru Mininin bara. Ndi ole na ole ew erela aka ha mee ya soso ihe ha ga na aru. Ọ buru na a ga-echekwa akuko banyere blockchain niile nke Bitcoin na Epic Cash blockchain, ọ ga abanye ofuma ofuma nw ekwa ohere 90% . ihe nkakiri na-agbakarj osọ osọ n'ihu na azumahia ahu ga eji obere oge I ga.

MimbleWimble jiri ihe a kporo 'Cut-through' dozie okwu ebe nchekwa storage. ọ kachasj mma ileba anya otu esi emeputa azumahia na bulok n'ime MibleWimble blockchain.



Figure 2:
Azumahia nke MimbleWimble



⁹ Li, Crypto, *Blockchain's Big Data Problem*, 27 January, 2019, <https://www.longhash.com/news/blockchains-big-data-problem>

Niile Epic Cash nkanka nwere:



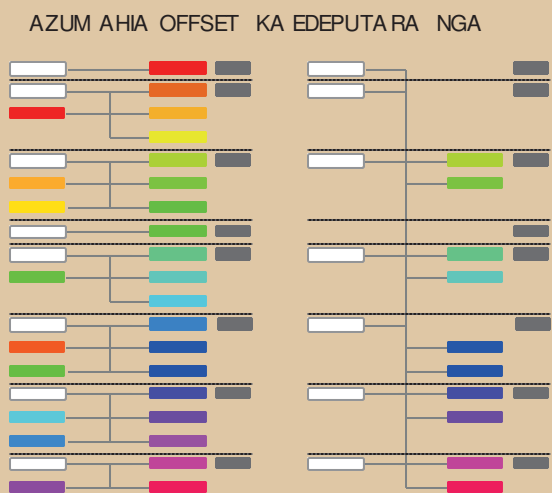
Na fig 2 na 3, sitere na mmeghe Andrew Poelstra¹⁰, anyi niile nwere ike ihu "Epic Cash" ohuru. site na iji usoro Cutkpu-Site, a na-ewepu input na ihe ndi ozu kwekoru output iji belata ebe nchekwa na Bulck, nke na-ebelata ego data kwesiri jchekwa na blockchain. A na-ewepu azumahia ahụ na neke aporo ledger, ebe Kanels (ihe di ka 100 byte) na-edeko oge o bua azumahia ahụ mere.

Dika a na-emeputa buloks kwamgbe MimbleWimble na-emetuta Cut - Site na Buloks, (ihe di ka 250 bytes), azumahia ndi na-enweghi atụ, na kernels azumahia (ihe di ka 100 bytes). oge ew eputara MimbleWimble, o gosi na chain nke MimbleWimble buru ibu nke Bitcoin chain bu, o gahu eri ihe kariri 10%. nke a putara na, oke Nodu ga adi "n'usoro nke GB ole na ole maka udi Bitcoin chain na megabytes.

Nke a bu ihe puru iche na Bitcoin, ebe a ga-edoche blockchain niile na Nodu nke o bua. dika Epic Cash blockchain na-eto kota ka nyiri Bitcoin blockchain, otu ohu ka ahia nodus o bua ga-abawanye na Epic Cash.

Site na tekizu MimbleWimble yana usoro Cut-through, Epic Cash blockchain na-enye Scaeuabiliti n'uzu nke ndi mmadu nke ndi ulo ego nke cryptocurrency na elegari anya. nke a bu n'ezie ihe na-enweta uru nke Bitcoin na ozu ndi nke Dicentrizason. N'agbanyeghi ego ole nke mkpuru ego abuo ga-enwe ike ihazie, olee uru ogwodu a na-enweghi ike ikwado ya? O buru na ihe di otu anahu-ekwu maka Maunin bu okacha mma, mgbe ahụ mbo niile nke obodo nke cryptocurrency imeputa Dicentulazi Sistemu lara n'yi. Maka okwsiri lji nye Sistemu ntinye aka maka Epic Cash development Rodimapu

Figure 3:
Ahia MimbleWimble mgbe emechra na tupu Cut-Through.



¹⁰ SF Bitcoin Developers, *MimbleWimble with Andrew Poelstra*, 24 November, 2016, <https://www.youtube.com/watch?v=aHTRibCaJyM&t=940s>
¹¹ Grin Forum, *Grin Blockchain Size*, December, 2018, <https://www.grin-forum.org/t/grin-blockchain-size/1334>
¹² GandalfThePink, *Introduction to Mimblewimble and Grin*, 28 March, 2019, <https://github.com/mimblewimble/grin/blob/master/doc/intro.md>

V. Iwu Ego

Amụma ego Epic Cash na Bitcoin yiri nno. Ọdiche ahụ bụ mbuzo Epic Cash [supply](#) buru ụzọ gbasaa ngwa ngwa wee mekọrịta na ikesa Bitcoin na 2028. Ọ na-abawanye nwa nke nke, nke nke rue mgbe o ga eru ego ngucha ya bu nde 21 Epic na 2140. Epic Cash nwere ọgwà pụrụ iche jiri bụrụ ego nchekwa na ogologo oge n'ihi na amara mpuru ego ole oga eru na ngucha. . Iwu Ego Epic Cash gosipụtara n'ezie atụmatụ anọ ndị a:

- ✓ a ga-enwe Emission na afọ itoolu nke Epic Cash, mgbe a ga-emeputa 20,343,750 Epic (96.875% nke mkpuru ego). Edere onwego ole edere na ngalaba [Emission](#) nke akawukuo a
- ✓ Ego Epic cash ga ero oke nke Bitcoin Na ebe ihe dika May 24, 2028. ebe [Epic Singularity](#), Emission ga-agbadata kwa mgbe, ebe ego ya ga eto ntakiri ntakiri.
- ✓ a ga - enweta ego ruru nde 21 Epic nke ga - adị na afọ 2140, ihe dị ka n'otu oge ahụ Bitcoin erugo ihe ruru nde 21;
- ✓ Epic nwere nkewa asato dika omumaatu a: otuu Epic ga enye 100,000,000 freeman (dika 1 Bitcoin bụ 100,000,000 satoshi).

A na-enweta amụma Epic Cash site na Bitcoins maka ebumnuche ndị a:

- ✓ Nkwekọrịta na isi nke Bitcoin, ya bụ ụkọ na ole na ole na-eweta ụlọ ahịa bara;
- ✓ Dika ọha na eze mara ịi maka ihe atụ nke Bitcoin na nke ọma gosipụtara na afọ iri gara aga kemgbe a mmalite ya. Site na iwere ogo ego ole bitcoin ji eje nakwa I jiri nno nyiri ego ole bitcoin ga eru, Epic na-aga n'uzọ doro anya nke oha ga anabata.

VII. Meinin

Epic Cash blockchain na-achụ Decentrulizasonu site na inabata onụ ogụgụ dị ukwuu nke Hadiware. Epic Meinin bu ụzọ nweta [CPUs](#), [GPUs](#), na [ASICs](#), na-eji usoro atọ nke [hashing algorithms](#): RandomX, ProgPow, na CuckAToo31 +. Enwere ike imegharị algoridim n'emebighị emebi iguzosi ike n'ezì ihe.

1 RandomX na CPUs

RandomX bụ [Proof-of-Work](#) (PoW) algorithm kachasi mma maka iji CPUs. Ọ na-eji usoro eji eme ihe mgbe niile nke na-eji otutu usoro ebe [memory-hard](#)-emezu nweta ebumnuche ndi a:

- igbochi mmepe nke tekinuzu ASIC;
- ibelatakwa uru arumoru ngwaike puru iche na-arụ karịa CPUs.

Iji CPC Meinia Epic ga achọ ruo nkesa oke 2 GB [RAM](#), 16 KB nke [cache](#) c1, 256 KB nke oghere L2, yana 2 MB nke ihe mkpuchi L3 kwa minin obula. Ngwa Windows 10 choro 8 GB RAMma o bu karịa Iji ruo oru ofuma . Ọ bughị ihe ojoo na ikwu na otu ubochi na agighi anya, a ga eji ekwenit na eme meinin. Mbido CPU meinin Epic bu ohere di mma maka otutu ndi mmadu inweta ugwo oru boluk site na inye aka na nchekwa Epic Cash.

2 ProgPow na GPUs

Programmatic Proof-Of-Work ([ProgPow](#)) bụ ihe algorithm nke dabere na ebe nchekwa na nchikota nkweko, nke a na-erite uru n'otutu atumatu nke GPU ma were ike ngukota nke ngwaike ahụ. Dika ProgPow, nke a emeputara ya iji nweta uru GPUs, o siri ike ma di onu ahia iji nweta ihe oka tekinuzu puru iche site na ngwaike a. ProgPow algorithm na-emeputa ego maka ASIC. Iji hu GPUs, dika a na-ahukari ya na otutu PoW algorithms ndi ozo, di ka Bitcoin's [SHA-256](#). Site na mmepe nke teknuzu nke ike eletrik, Nvidia na AMD, GPU na-enwe ike hazie otutu meinin ngwota na elu karịa CPUs kwa ubochi. Ọ bụ n'ihì njikọ a nke ike nhazi di elu nke GPU ga-enye akwara azu nke ukwuu na oru meinin n'oge a ka egosiri na Table 2

3 CuckAToo+31 na ASICs

CuckAToo31 + bụ teknuzu ndi enyi ASIC nke Cuckoo Cycle algorithm nke okà mmuta sayensì kòmputa Dutch, John Tromp meputara. Onye ikw u nke teknuzu ASIC [CuckARoo29](#), CuckAToo31 + na-eseputa eserese [bipartite graphs](#) ese ma na-ew etara ndi oru aka ichota oru nke nyere ogologo 'N' na-agafe eserese.

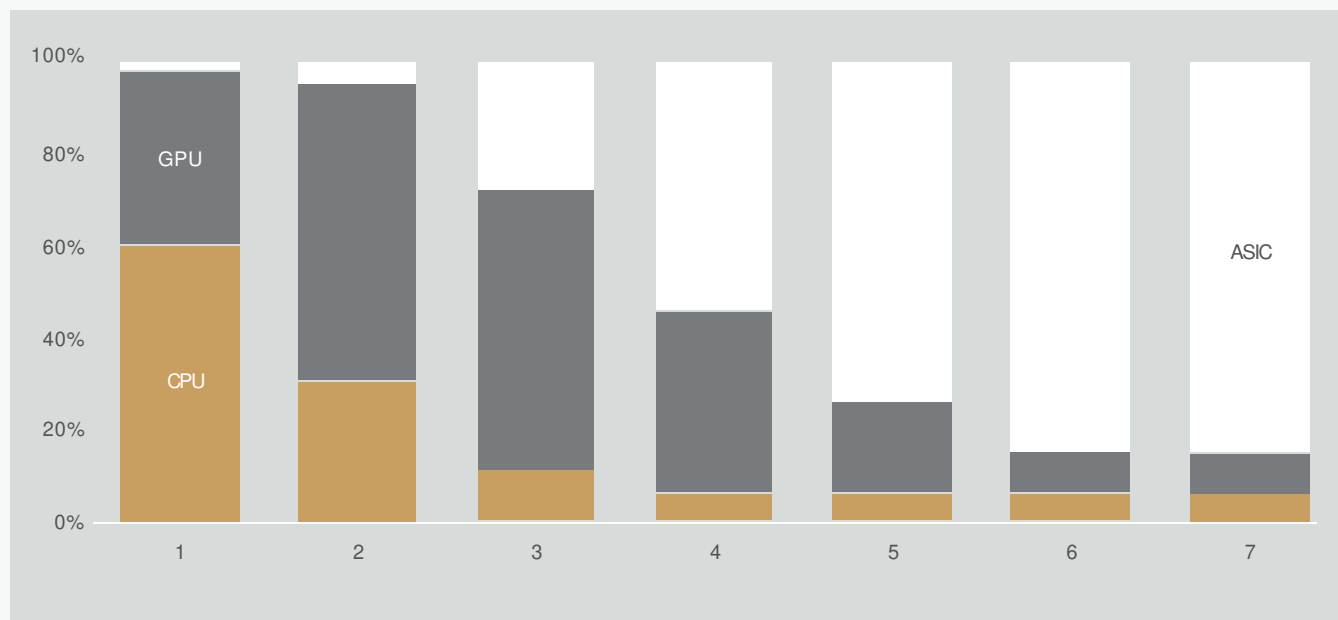
¹³Tevador, *RandomX*, 28 March, 2019, <https://github.com/tevador/RandomX>

Nke a bụ ọrụ nchekwa, nke ahụ pụtara na oge a ga - eji ikike nchekwa ya na - ejigide Badiwit kama Raw Procasoor ma ọ bụ GPU. N'ihii nke a, Cuckoo Cycle algorithms na-ewepụta obere ọkụ ma na-eri obere ume karịa nke a na-ahụkarị maka usoro ihe ochie PoW algorithms. The ASIC enyi na enyi CuckAToo31 + mepụtara teknụzụ maka ndozi karịa GPUs site na iji ọtụtụ narị MB nke [SRAM](#) pụrụ iche ebe a ka na-echeta ebe nchekwa [IO](#)¹⁴. ASICs na-enye ikike kachasị ukwuu nke nha nke nhọrọ Meinin atọ ahụ. Nke ahụ pụtara, ekenye ha obere akụkụ nke ụgwọ ọrụ Meinin n'ihii CPUs na GPUs, ka oge na-aga ASICs na-ewere ọtụtụ akụkụ nke ụgwọ ọrụ Meed block, na echiche ahụ ga-enweta echiche nke ndị rụpụtara ngw aọrụ maka CuckAToo31 +.

Table 2: Ejiri ụgwọ ọrụ Meinin na ntugharị. A ga-eduzi onyinye iji nweta dicentrilization kachasị ma kwekọọ n'ọdịmma netwọk nke ogologo

Oge	1	2	3	4	5	6	7
Days	334	470	601	800	1019	1460	1460
CPUs	60%	30%	10%	5%	5%	5%	5%
GPUs	38%	65%	62%	40%	20%	10%	10%
ASICs	2%	5%	28%	55%	75%	85%	85%

Fig 5: ụgwọ ọrụ menin ka esiri kwasoo ya Tabulu 2. ewere ike idegari ya.



¹⁴ Le Sceller, Quentin, *An Introduction to Grin Proof-of-Work*, 16 November, 2018, <https://blog.blockcypher.com/an-introduction-to-grin-proof-of-work-103aaa9f66ce>

4 Uru Nke Meinin

ma o buri na ibido na Epic Genesis (2019) na mmechi na Epic Singularity (2028), n'oge usoro Ngwuputa, enwere oke nke ego Epic akporo meinin. Enwere oke Epic an na eziga na EPIC Blockchain Foundation iji hu na o na aga na ihu.

Ebumnuche EPIC Blockchain bu mmepe nke teknuzi na ikwalite mmata na ime ka Epic Cash baa uru n'oge afo mbu nke mmalite ya, site na imeputa azumaahia na imepe mmekorita n'etiti ulo ori teknuzi ego.

Mgbe otu a gachara, EPIC Foundation ga-aru ori nke EPIC Distributed Autonomous Corporation (EDAC), nke a ga-ewulite ntala tupu ntinye aka ahụ.

Ndi EPIC Blockchain Foundation na enweta ego site na meinin bulok obula:

Table 3: Onwego kw a afo maka onyinye Ngwuputa di ka pasent nke ugw ori Ngwuputa.

Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
%uru meinin	8.8 8 %	7.7 7 %	6.6 6 %	5.5 5 %	4.4 4 %	3.3 3 %	2.2 2 %	1.1 1 %	1.1 1 %	0 %

VIII. Mmechi

Epic bu n'uche ka a mata ya dika 'Decentralized digital sliver', nkea putara ihe mgbanwe na aka Bitcoin. O ga eme ka o dika ọla ego Decentralized. site na ntinyeghachi Fungibility furu efu na ijiri Hadiw are nke ọma, Epic Cash na-akw alite nguzozi nke ike n'ọhọdụ onye ọrụ. Nchikota nke Bitcoin Economist, usoro Gamu, na usoro Proof-Of-Work nke teknụzụ mere ka aruputa ego Decentralized akporo (Epic), ọ na-echekw a azumahia emere nke ndị na eji ya azu ahia. Epic Cash blockchain mepere emepe, ọhaneze, ma djkwa mma. Ọ na-echekw a privaci nke ndị ọrụ ya ma kw ọ ndị na-ebughari Hadiw are ha nkwado na netw ọk site na Meinin. Kw a Epic na-etinyere ndụ site na usoro akporo Proof Of Work. mkpuru ego ga-amalite na efu ma na-ew ere netw ok dji ka ngosiputa dji mma, yana Nnw ale ugbu a

Eziokwu nke Epic Cash:



Meining na-ebido Ọgost 2019.



Epic Cash blockchain dakwasiri na MumbleWimble.

ikw aputa ihe dji na atumatu a bu:

1. **Cut-Turu** – nke bu bu iw epu ihe banyere ozi na blockchain iji kw alite oru oma, gbaa ndi mmadu ume na ntinye netw ork, na Dicenterazason;
2. **CoinJoin** – ọlọ nke azumahia n'ime a Bulk iji hu nke Fungibiti Epic cryptocurrency
3. **Dandelion++ Protocol** – ebe azumahia na-eme site na ikparita ọka gafee ọwa, na izipu ọi gafere netw ọ nke Nde, na-eme njiko dji n'etiti azumahia na ọye zitere ya
4. **eweghi Adiresu** – iji nke multisignature iji meputa igdo nbanye kinda maka ndi ọrụ transact, na-ew epu mkpa niile maka adreesi akpa.



iw u ego Epic Cash ga iw ekota ego Epic na nke Bitcoin n'ime ihe dika afo iteghete, wee rute otu mkpuru ego nde iri abuo na otu nke Bitcoin, n'afọ 2140. metodu mgbada ga eme ka ego epic sie ezigo ike na odinihu.



Meinin nke na-eji teknuzụ nke CPUs, GPUs, na ASICs site na RandomX kw ekoro, ProgPow, na CuckAToo31 + algorithms, iji mee ka nzuko onu na nruputa netw oku dji mfe

IX. nkọwapụta Teknụzụ

Aha oru ngo: Epic Cash

Aha Ego: Epic Block

Oge: 60secondi

Block Nhaya: 1 MB

Mbido onuego epic 0

Ngwucha onuego epic: 21,000,000

Mbido Bulok: August 2019

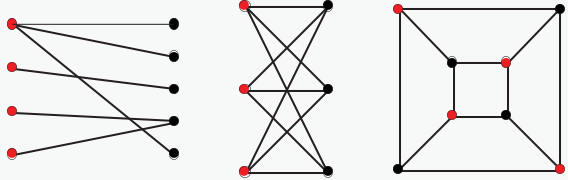
ihe ndi ozo: RandomX(CPUs), ProgPow (GPUs) na CuckAToo31+ (ASICs)

Links:

www.epic.tech

t.me/EpicCash – Telegram

X. NkowaOkwu

ASIC	Ngwa Circuitu Pụrụ Iche; teknụzụ ndị emebere maka ebumnuche mara mma o
Bipartite Graph	Ihe eserese edobere n'ime ihe abuo nke na onweghi nkenke eserese ya na otu ihe di otu.
	
Blinding Factor	ihe ewebata n'ime ozi dijitalu jiri bulie izo ozi dijitali ezo; ihe nzuzo di n'etiti ndi oru abuo nke na-ezo Inputu na Outputu nke azumahia yana igodo ego ndi azumahia jiri zuo ahia ha.
Ugw o blok	Epic ohuru ahụ nke netw oku kesara di ka ugw o oru maka arumoru jiri gosiputa azumahia bulok ohuru.
Cache	hadiware ma o bu sofutuware na-echekw a data ka enw ee ike ihu na ndi ga eji ngwa epic ga ewe obi anuri.
Circulating Supply	ego nke Epic di na oge n'oge enyere.
CPU	Sentara Procecin Unitii: akurungwa komputa na-ahụ maka igu na ezecutin nyere iw u hadiware komputa yana sofutuware.
Cut-Through	MimbleWimble blockchain na eprocesi enputu na outputu na-ewepu ohere n'ime bulok, na - ebelata kwa data nke a ga-echekw a na blockchain.
Decentralization	Uzo puru iche nke netw oku gi agbasa ozi na ochichi.
Emission	Ikew aputa ego Epic site na bulok nke bu ugwo oru nke mienier. A na-emeputa Epic na nkeji iri isi o bula ka egosiputara azumahia na blockchain.
Epic Singularity	Nke a bu mgbe mkpuru ego Epic zutere onwego ego Bitcoin (na Mee 2028).
Excess (MimbleWimble)	ihe di iche n'etiti Autoputu na Enputu, yana Cigunature (maka nnabata na jiri gosiputa oke adighi).
Fungibility	aku nke ezi ma o bu nnw eta ebe mmadu abuo na-agbanwe agbanwe, akuku ya o bula anaghị agbanwe agbanwe n'akuku ozu..
Genesis (Event)	Mienin nke mbu Epic bulok na mmalite nke goomentu mmalite nke blockchain.
GPU	Gafis Procecin Uniti: Otu nwere ihe mgbagha mmemme (programu) puru iche maka oru ngosi. Enwere ike jiri GPU Consumer mee ihe maka meinin.
Halving (for Bitcoin)	Nke a na - eme n'afu anu o bula. Onwego nnw eta ego na-ebelata 50% mgbe oru o bula onu ahia gbaotara onu site na onugwu enputu site na jiri oru hacin.
Hash	usoro mgbako na mwepu na-egosi data nke arbiteri nha gaa na haci nke nha anya ejiri maka inye ma gosiputa siigunatu dijitalu, Koodu otenticasun ozi (MACs), na udi otenticasun ndi ozu.
Hashing Algorithm (function)	usoro ngukota nke ozi edere edegara na-ebughu uzu kagbu ya. (na teknuzu) steeti na-enweghi ike idozighari ihe mgbe emechara ya.
Homomorphic Encryption Immutability	akurungwa nke MimbleWimble azumahia na-egosi onye zitere onye ahia ahu; sitere na outuputu nke azumahia mbu gara aga.
Input (MimbleWimble)	enputu / outuputu; nkwojita n'etiti ozi, di ka komputa, na mpuga uwa, ikekwe mmadu ma o bu usoro nhazi ozi ozu.
I/O	

¹⁵ <http://mathworld.wolfram.com/BipartiteGraph.html>

¹⁶ Macdonald, Andrew, *Grin Coin and MimbleWimble: An Introductory Guide*, 18 October, 2018, <https://cryptobriefing.com/grin-coin-mimblewimble-introduction/>

Ego Epic	ego nke Epic nke aga enw eta n'inye ya agaghị abaw anye (21,000,000 Epic).
Nchewa ne akporo Hadi	ihe ọtụtụ Ram iji gbochie njikọta na-agba mbọ. ọrụ nchekwa hadi bụ algoridim nke nwere oge mgbako na mbụ kpebiri site na ebe nchekwa dị iji jigide data. Amara nke oma dika ihe eji etinye ebe nchekwa.
Osisi nke Merkle	nka a bu ihe owuwu data eji na ngwa sayensi komputa. Na blockchains, osisi Merkle na-enye ohere maka nyocha nke oma na nchekwa nke ihe ndi na nnukwu data.
MimbleWimble	Nke a bu teknuzụ mmadụ meputara aha ya bu Tom Elvis Jedusor, na ulo ọrụ teknuzụ Bitcoin.
Multisignature	Atumatụ mbinye aka dijitalu nke na-enye ndi otu ọrụ aka ibanye otu akwukwọ. Ọtụtụ mgbe, algorithm dī iche iche na-emeputa otu mbinye aka nke dī itunanya karja iwere akara ndi ọrụ niile
Node	komputa na-ejikọ na netwọdụ blockchain na ngalaba na-eduga na nodus ndi ọzọ nọ na netwọdụ iji kesaa ozi gbasara azumahia na ngongọ, na usoro di mma
One Way Aggregate Signature (OWAS)	mbinye aka nke ọtụtụ edebanye nke ezighara n'uzọ dī itunanya ka o wee sie ezigbo ike iji akurungwa nke MimbleWimble azumahia na-anochite anya nnata nke azumahia ahụ; Ejiri ya na enputus maka azumahia ndi ọzọ.
Outuputut (MimbleWimble)	
Pedersen Commitment Scheme	teknuzụ nke na-enye onye ọrụ ohere iji netwọkụ na-enweghị ekpughe ozi ọ bula gbasara ya na onye ọrụ ahụ nwere nchekwa.
Igodo nke Private Key	igodo onwe ya bu obere koodu nke ejikotara ya na igodo oha iji belata algoridim maka izo ederede na idochie ederede. Emeputara ya ka ọ buru akukụ nke igodo nzuzo oha na eze n'oge izochiri asymmetric ma jiri ya mebie ozi ma gbanwee usoro a gurụ.
Proof of Work (PoW)	mpempe data nke siri ike (nke na-eri oge na-ewe oge) imeputa, mana ọ dijiri ndi ọzọ mfe ichoputa, nke na-egbokwa ọfọdụ ihe achoro. A na-ejikari Purof Ofu Wokwu eme ihe n'ogbo bulok cryptocurrency.
Igodo nke Public Key	A na-emeputa mkpisi ugodi oha na nzuzo nzuzo nke oha na-eji algoridim asymmetric-key. A na-eji mkpisi ugodi oha iji gbanwee ozi gaa n'ogu na-agughị akwukwọ.
RAM (Random Access Memory)	ehekwa data na ngwa ọrụ ebe a na-edebe sistemụ (OS), apikation na data ka enwere ike ibute ngwa ngwa nke ngwa ọrụ ahụ.
Rangeproof	Nkwekorita nke na-egosi na nchikota nke azumahia dī ukwu karja nchikota azumahia Otuputu yana na ukpuru azumahia dī ukwu. ma gbakwa mbọ hụ na egoghị ya nke oma
(Degitalu) Signature	okoloto nke usoro iwu blockchain, ejikari maka ichebe azumahia na ngongọ nke azumahia, nnyefe ozi, njikwa nkwekorita na ikpe ọ bula ọzọ ebe ichoputa na igbochi ọzọ ọ bula nke mgbochi mpuga dī mkpa. Ha na-enye uru ato nke ichekwa na inyefe ozi na blockchain: <ul style="list-style-type: none"> • Ha na-ekpughere ma ọ buru na data ejiri zigasja ozi; • Na-egosiputa nsonye nke otu onye ọrụ na azumahia ahụ; • Nw ere ike idowe iw u.
SRAM (Static Random Access Memory)	Ebe nchekwa Random Access (RAM) nke na-ejigide data na ebe nchekwa ya ma o buru na a na-ebute ibu
Throughput	onwego nke usoro azumahia kwa sekond nke enwere ike iru site na usoro inye onyinye cryptocurrency.
Trustlessness	njiri mara nke netwọkụ cryptocurrency iji gbasoo iw u nke usoro iw u na-enweghị mmanye site na otu etiti

¹⁷ Bellare, Mihir, Neven, Gregory, 2007, *Identity-based Multi-signatures from RSA*, Lecture Notes in Computer Science vol. 4377, https://link.springer.com/chapter/10.1007%2F11967668_10

EPIC CASH

EPIC EGO ENTANET ZORO E ZO

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