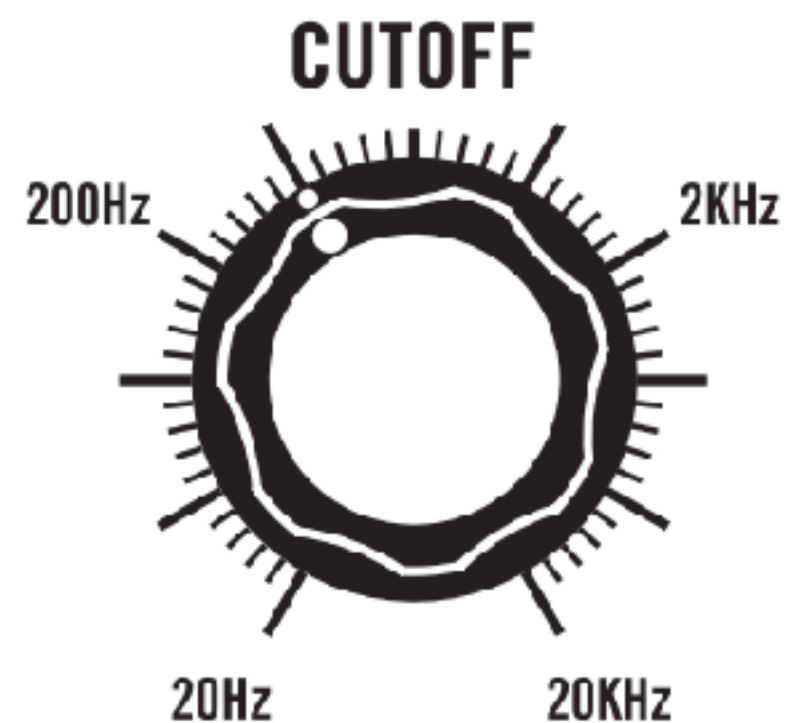
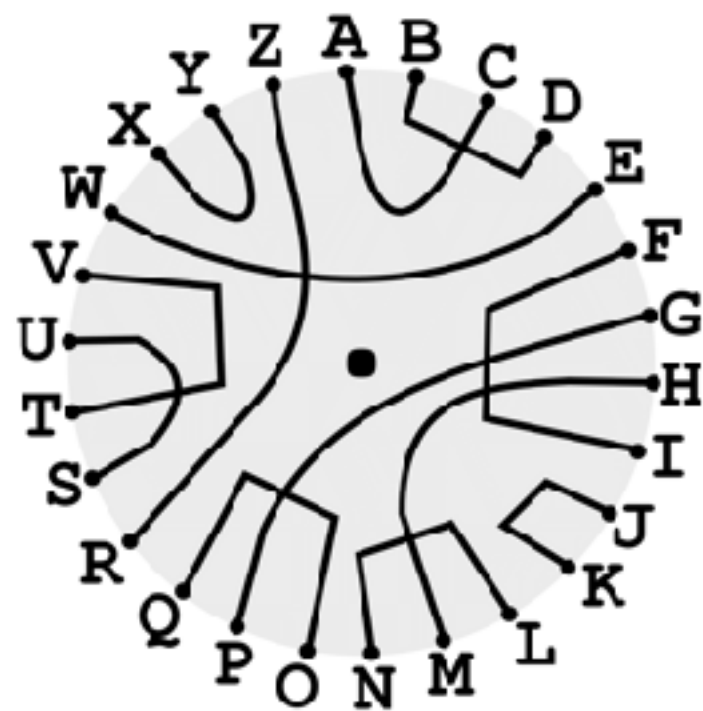


blockchains

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betahaus |

Adrià, 4a planta



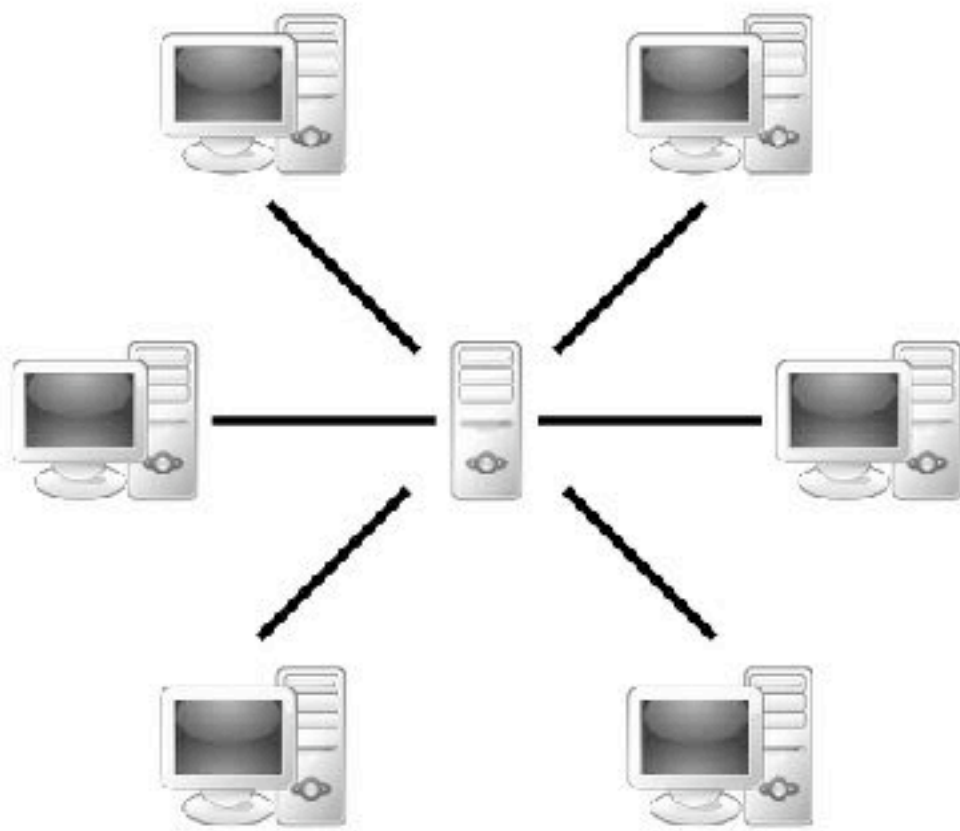


The Pirate Bay

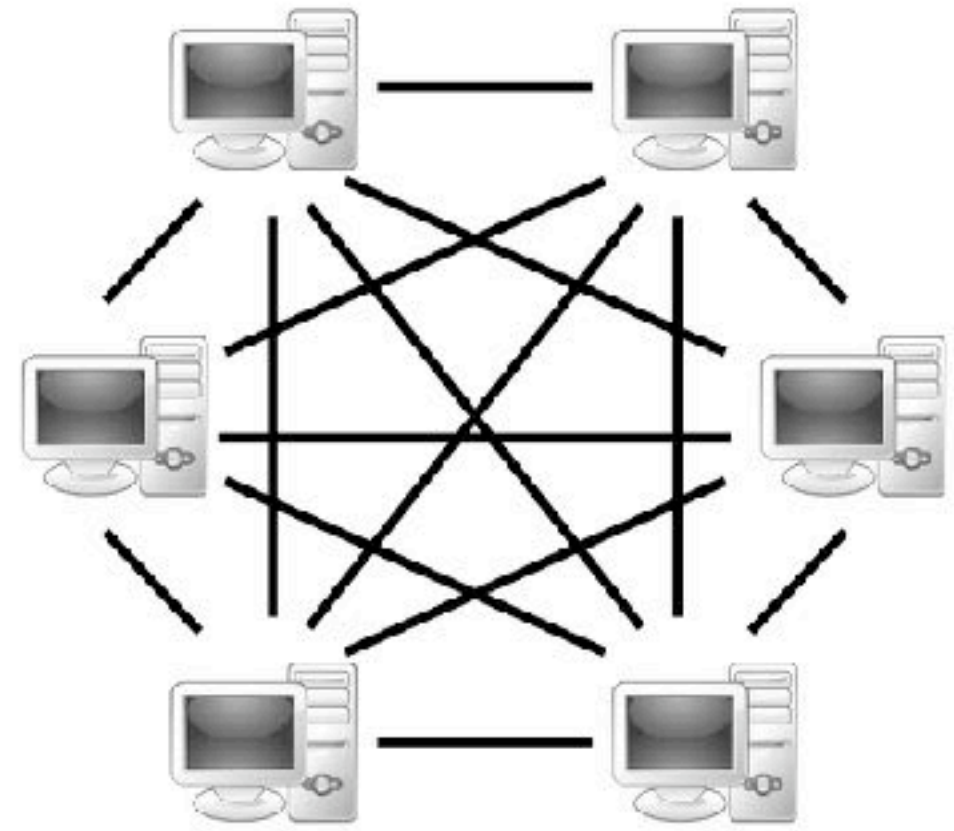
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Server-based

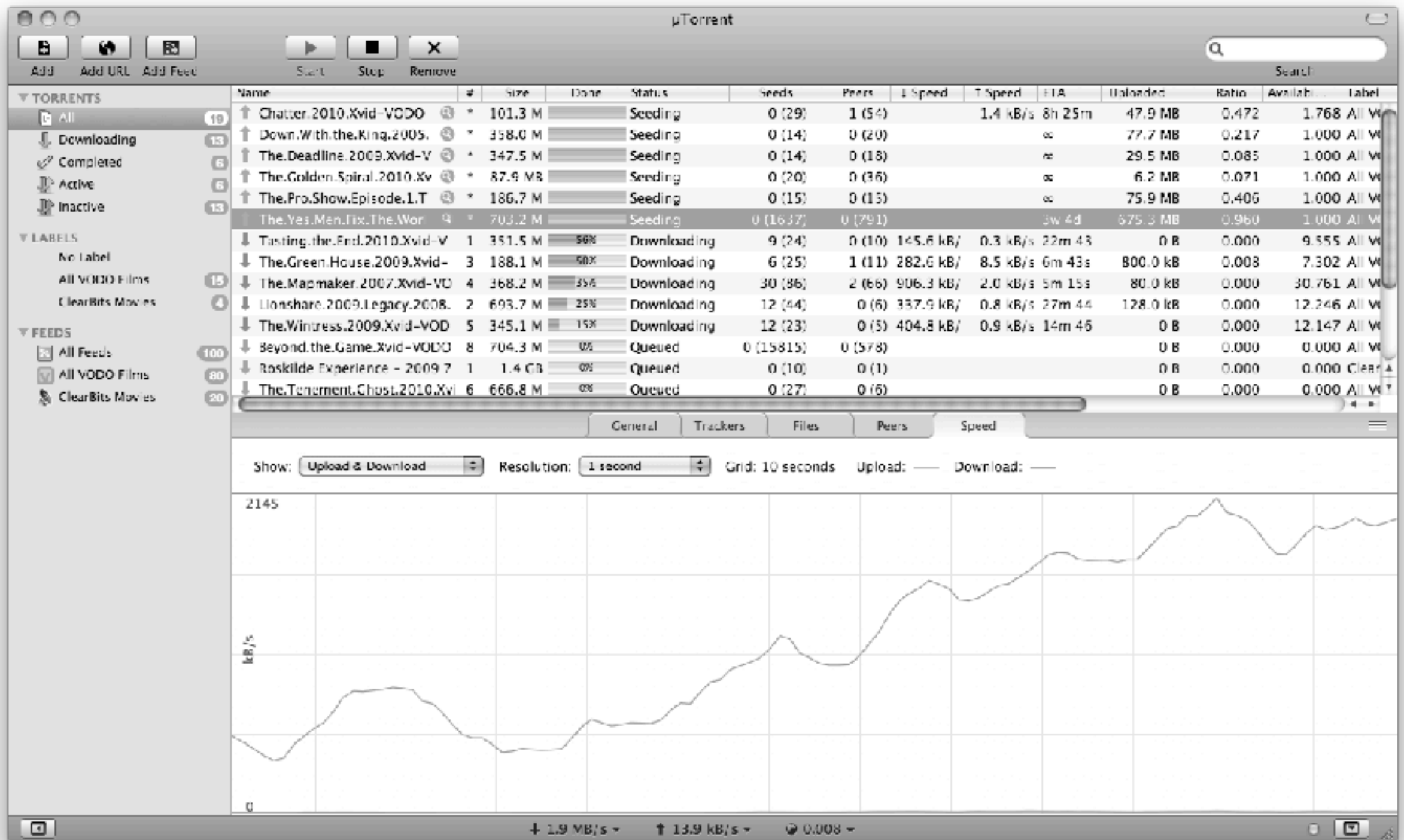


P2P-network

Descentralizado

No hay “autoridades”

Funcionamiento por consenso



...

Windows 10 Pro v.1511 En-us x64 July2016

Windows 7 SP1 Ultimate (64 Bit)

Windows 7 SP1 (RUS-ENG)(x86-x64)

WINDOWS 8.1 PRO x64-ACTIVATED(EXCELLENT)

Windows Loader v2 2 2 by Daz

Microsoft Windows 10 Home and Pro x64 Clean ISO

Windows 10 Activator

Windows 7 SP1 Ultimate (32 Bit)

Windows XP Professional SP3 - Activated

...



...

- 29981** Windows 10 Pro v.1511 En-us x64 July2016
- 29982** Windows 7 SP1 Ultimate (64 Bit)
- 29983** Windows 7 SP1 (RUS-ENG)(x86-x64)
- 29984** WINDOWS 8.1 PRO x64-ACTIVATED(EXCELLENT)
- 29985** Windows Loader v2 2 2 by Daz
- 29986** Microsoft Windows 10 Home and Pro x64 Clean ISO
- 29987** Windows 10 Activator
- 29988** Windows 7 SP1 Ultimate (32 Bit)
- 29989** Windows XP Professional SP3 - Activated

...

concenso numeración automatizado
contenido no modificable a posteriori

...

29981	GL8964710001000206	->	KZ176011000042993	33\$
29982	KZ1760102510002993	->	LU28001s644750000	12\$
29983	NO9386011117947222	->	KZ176011000042993	8\$
29984	NO9386011117947222	->	KZ176011000042993	81\$
29985	NO9386011117947222	->	KZ176011000042993	118\$
29986	KZ1760110000429932	->	KZ176011000042993	99\$

...

libro de contabilidad

transacciones firmadas origen trnf.



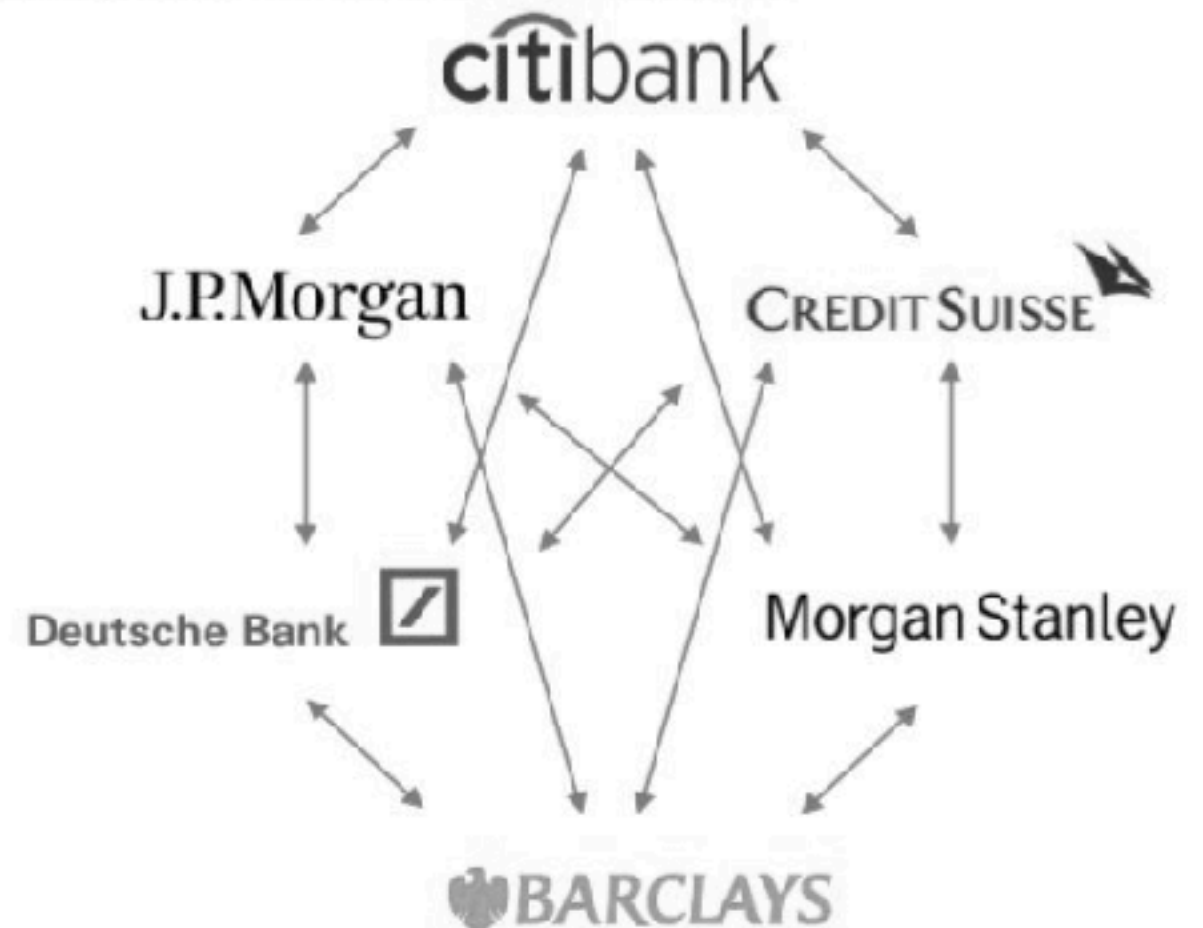
sha / dsa

Figure 7: Traditionally, a 'centralized ledger' approach solves the transaction trust issue by tracking the movement and ownership of value



Source: Credit Suisse research

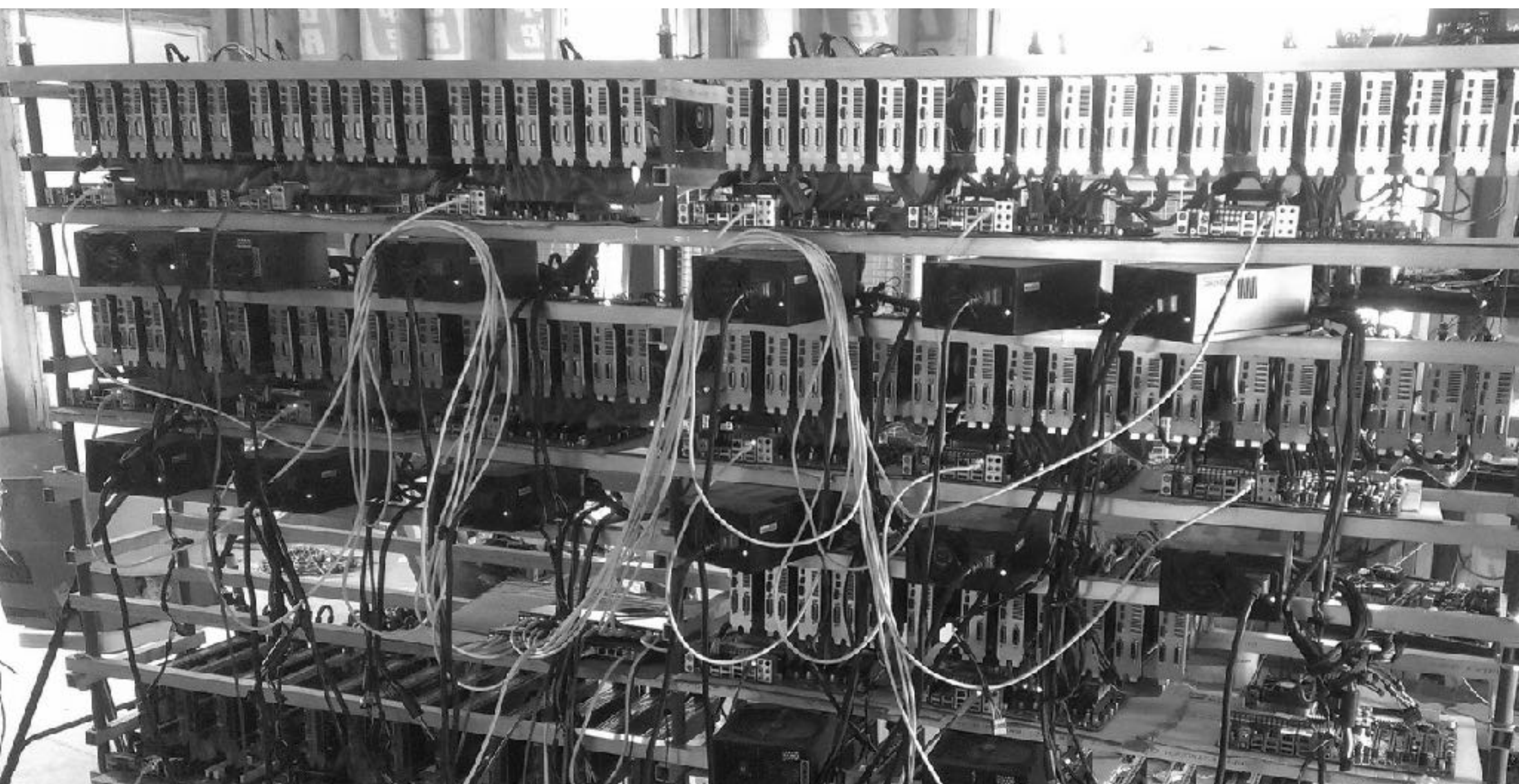
Figure 8: A secure distributed ledger removes the counterparty as the transaction record is universally visible and immutable



Source: Credit Suisse research



La manera de obtener moneda virtual es colaborar en el mantenimiento de la infraestructura (gasto consumo eléctrico)





Se puede calcular pero no es posible conocer el contenido de las transferencias

...

29981	????????????????	->	????????????????	??\$
29982	????????????????	->	????????????????	??\$
29983	????????????????	->	????????????????	??\$
29984	????????????????	->	????????????????	??\$
29985	????????????????	->	????????????????	??\$
29986	????????????????	->	????????????????	??\$

...

SMARTCONTRACTS

...

29981 GL8964710001000206 > KZ176011000042993 33\$

29982 KZ1760102510002993 > LU28001s644750000 12\$

29983 **SI HAY INGRESO EN NO9386011117947222 ANTES
DEL 1 DE MARZO 2019 REENVIAR DINERO A LAS
CUENTAS KZ999911000042993 y NO187277771771111**

29984 NO2992828818111222 > KZ176011000042993 8\$

29985 *KZ176011000042993U > NO9386011117947222 80\$*

NO9386011117947222 > KZ999911000042993 40\$

NO9386011117947222 > NO187277771771111 40\$

29986 NO2882881818181222 > KZ176011000042993 118\$

29987 KZ1760110000429932 > KZ176011000042993 99\$

...



Permite tener programas (smartcontracts). El código y su base de datos están en el blockchain

Como TODOS los nodos que participan en el consenso ejecutan TODOS los programas, en el blockchain si un nodo manipula el resultado los otros lo rechazan.

Funciona bien para algunos escenarios sin “autoridad central”

- Monedas virtuales
- Contratos financieros
- DAO - Digital Autonomous Organization
- Sistemas autonomos basados en IoT
- Cocooking? Uber? AirBnb?

Actualmente en “innovation trigger” del hype

That's all Folks!