

Innovations in finance: What Bitcoin is really about

Download the Cryptocurrency report <u>here</u>

Douwe Lycklama, 25 maart, Seminar Treasury, Cash- en Payment software

tomorrow's transactions today

Innopay consultants zijn innovatie-experts in betalen, digitale identiteit and e-business





- Opgericht in 2002
- Partners: Shikko Nijland & Douwe Lycklama
- Hoofdkantoor in Amsterdam
- 20+ consultants plus internationaal netwerk van geassocieerde experts
- Drie kern praktijken: betalen, digitale identiteit en F-Business
- Strategy, Co-creatie and Transformatie
- Focus op transactie en dienstverlenende sectoren
- ING, Western Union, Mastercard, Paypal, CCV, EMS, Rabobank, Equens, Worldline, BVN, iDEAL
- Geografische focus op EU
- Lid van o.a. EBA, ECP and EPCA
- Founding member HollandFintech

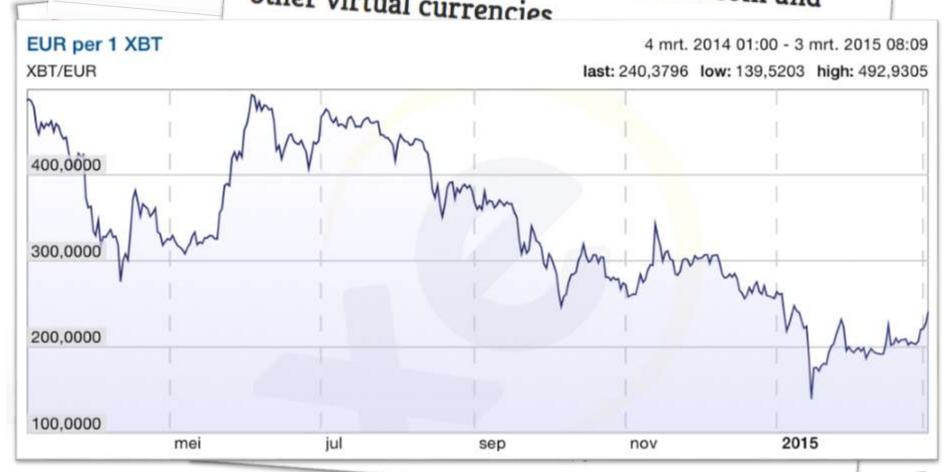




HSBC severs fund

By Mike Weir BBC News

Dutch Central Bank warns about Bitcoin and other virtual currencies



Storyline and main conclusion

- 1. What is Money?
- 2. What is Bitcoin about?
- An example of what Bitcoin could mean
- 4. When will everybody use it? How?
- 5. So, what is the most important thing to take home?

- Bitcoin is about a technology (and a bit about a coin);
 - The technology is in its infancy;
- Search companies that will be successful in the Bitcoin sphere and invest in them.

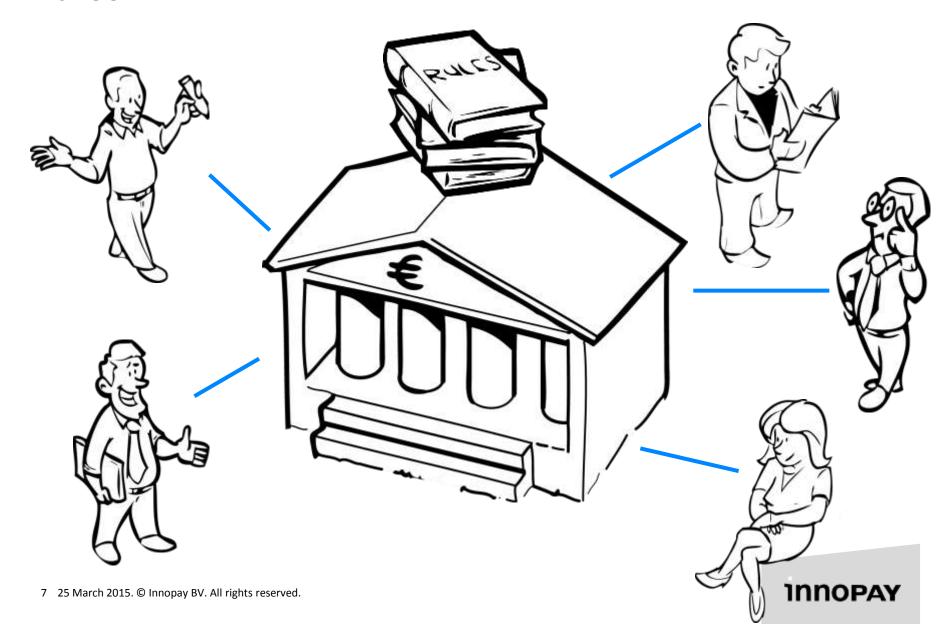


1: What is money?

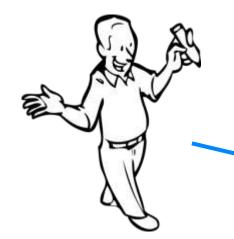
We collectively agree that money has value



We trust the banks to keep score according to the rules



Meanwhile, banks keep spreadsheets that say how much is in your account: a Ledger



	Α	В	С	D	E	F	G
1	14104000	Base Rent					
2							
3	Date	Description	Tp	Ref.	Batch	Amount	Balance
4	9/30/2000	Balance Forward				-142,189.89	-142,189.89
5	10/2/2000	Breathless Aerobics Corp.	PM	650	22363	-3,766.25	-145,956.14
6	10/2/2000	Callaway Exports	PM	654	22363	-780.00	-146,736.14
7	10/2/2000	Dr. Robert Synder	PM	8362	22363	-4,393.50	-151,129.64
8	10/2/2000	Ralph Taxar, CPA	PM	8362	22363	-4,072.50	-155,202.14
9	10/4/2000	Bendum Chiropractic	PM	1360	22391	-1,851.67	-157,053.81
10	10/5/2000	Breathless Aerobics Corp.	PM	297	22387	-1,150.00	-158,203.81
11	10/11/2000	Pisa Architectural	PM	512	22397	-788.33	-158,992.14
12	11/1/2000	Breathless Aerobics Corp.	PM	262	22627	-1,150.00	-160,142.14
13	11/1/2000	Callav).00	-160,922.14
14	11/1/2000	Dr. Ro				3.50	-165,315.64
15	11/1/2000	Ralph				2.50	-169,388.14
16	11/3/2000	Bendu		_		I.67	-171,239.81
17	11/7/2000			L	KC	3.33	
18	11/14/2000	Ralph			XU	5.65	
19	12/4/2000	Breath).00	-173,503.79
20	12/4/2000	Callav).00	-174,283.79
21	12/4/2000	Dr. Ro				3.50	-178,677.29
22	12/4/2000	Pisa A				3.33	-179,465.62
23		Ralph Taxar, CPA	PM	300	22956		-183,688.95
24	12/6/2000	Bendum Chiropractic	PM	1437	23148	-1,851.67	-185,540.62
25	12/31/2000	Breathless Aerobics Corp.	PM		23138	-72.23	-185,612.85
26	12/31/2000	Year-End Close:	**			185,612.85	.00
27		Bendum Chiropractic	PM	1530	23317	-1,851.67	-1,851.67
28		Callaway Exports	PM	264	23317	-780.00	-2,631.67
29		Dr. William J. Kaplan	PM	813	23317	-2,431.67	
30	1/3/2001	Breathless Aerobics Corp.	PM	360	23315	-1,150.00	-6,213.34
31	1/8/2001	The Law Office	PM	331	23311	-2,762.50	-8,975.84

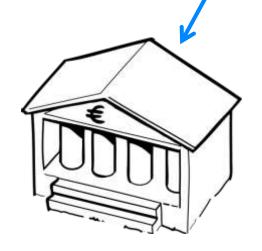




Conclusion:

Money is about <u>collectively trusting</u> <u>central organizations</u> to manage a









2: What is Bitcoin about?

Bitcoin is a network of unique addresses that are part of a single ledger



Address: 3J98t1WpEZ73CNmQviecrnyiWrn qRhWNLy.



5Jbqxe3AisuHck95ysBPKVR9poq Secret

noNwj3MJaQ91mPKgTJKsdcJe code:



Compare with e-Mail:

Address: Gijs.burgers@innopay.com



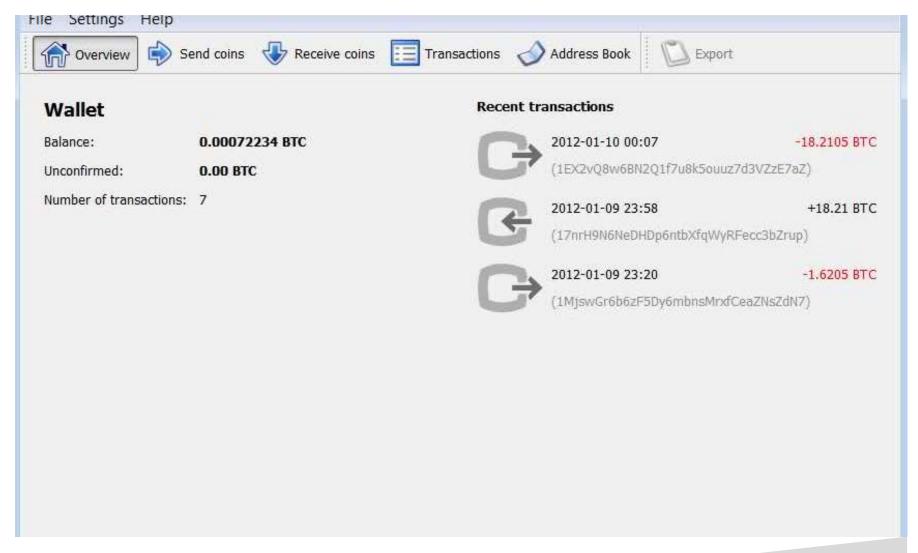
Secret

code:





Just like how you use an e-mail client, you use a Bitcoin client to send/receive bitcoins

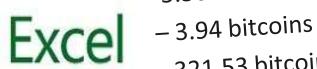


The "Blockchain" contains the ledger: It tells us which addresses contain bitcoins

- 3HBrS6jzE3AJ4sZ3tFij1BmTcpFGgN86hA 3.87 bitcoins
- 9DMr6tHVzY7AJ832sZij1cXsc4GGgM51N 0.56 bitcoins
- 1Jg2SkDtNnDTQM8FHKYpJyyUfYVbPaFiXk 1.20 bitcoins
- 17zNnPEBZnoNmppS5M53xjL1szvHhjqeQC 100.76 bitcoil
- 1KS2sWDuJ8S
- 1Kg4UwJNdD(
- 1BpoCkcr6yC
 - 1DwJGY5sd6F

1Q744BpwuJ_







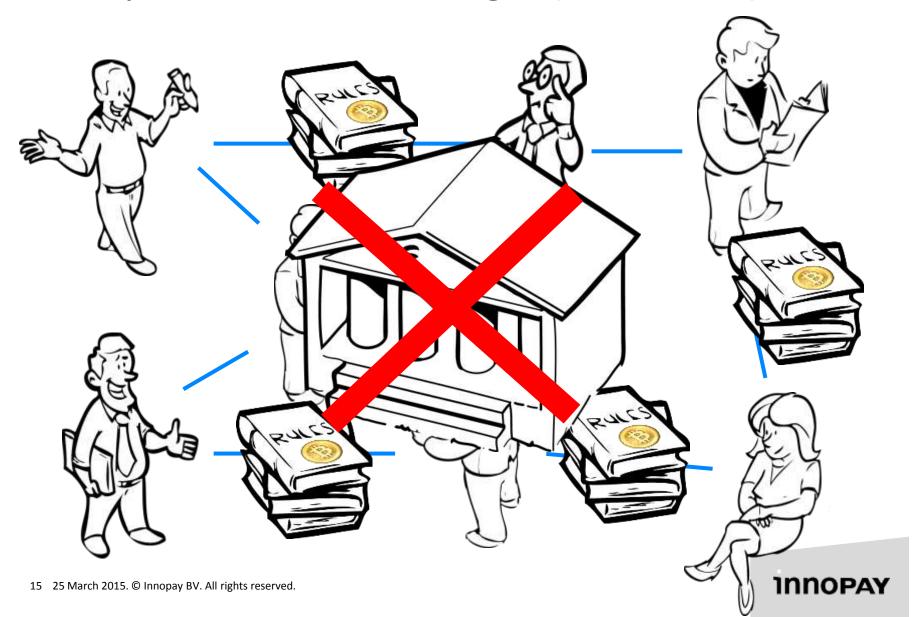
- 5.56 bitcoins
- 321.53 bitcoins
- 75846.32 bitcoins
- 123YKR2g5czuE3gjt6F14NqVLXLJXf8Yfq 3.12 bitcoins
- 1Ng3RGJo3D1KuJFUJSwzzxCZ4YccfuTd2k 8.34 bitcoins
- 1MPGXodxGDSeXVBJnP8n14WqKH 8.02 bitcoins



Every 10 minutes the latest additions to the blockchain are added to the blockchain

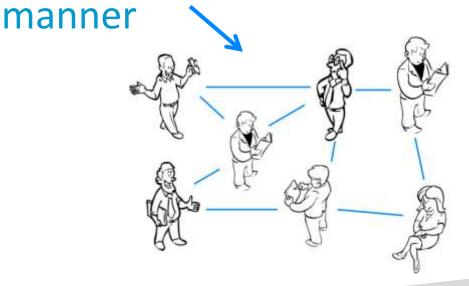


With Bitcoin, all participants collectively check and update the shared ledger (blockchain)



Conclusion: Bitcoin is about organizing consensus on the contents of a shared ledger in a decentralized & distributed







Ok, so what?

... Let's see an example of what Bitcoin could mean!



What if you... want to send 750 euros to Sri Lanka?



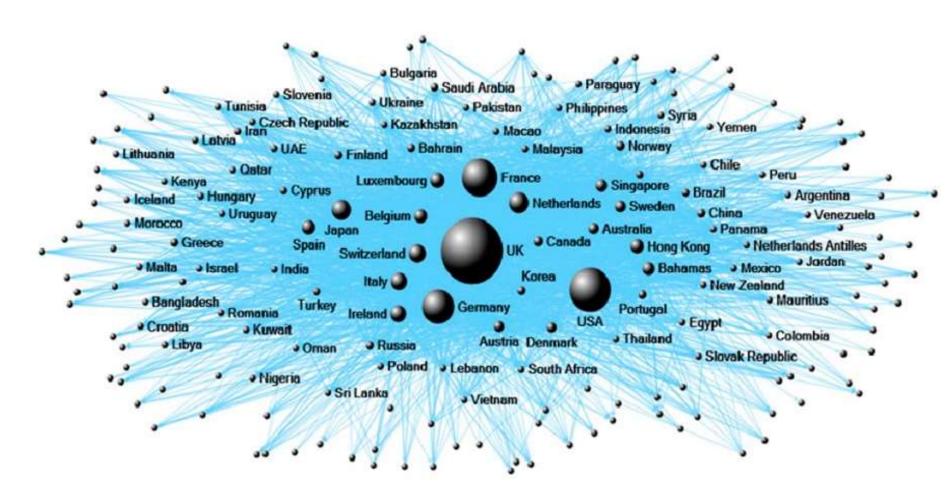








Sending money with the current financial system costs time... and money



Source: Yahoo / AA News 2014



What if you could send those same 750 euros instantly for the price of 1 euro?

With

Bitcoin

technology

We can!

... That would be huge!



bitcoin is a decentralized consensus technology; not just a currency





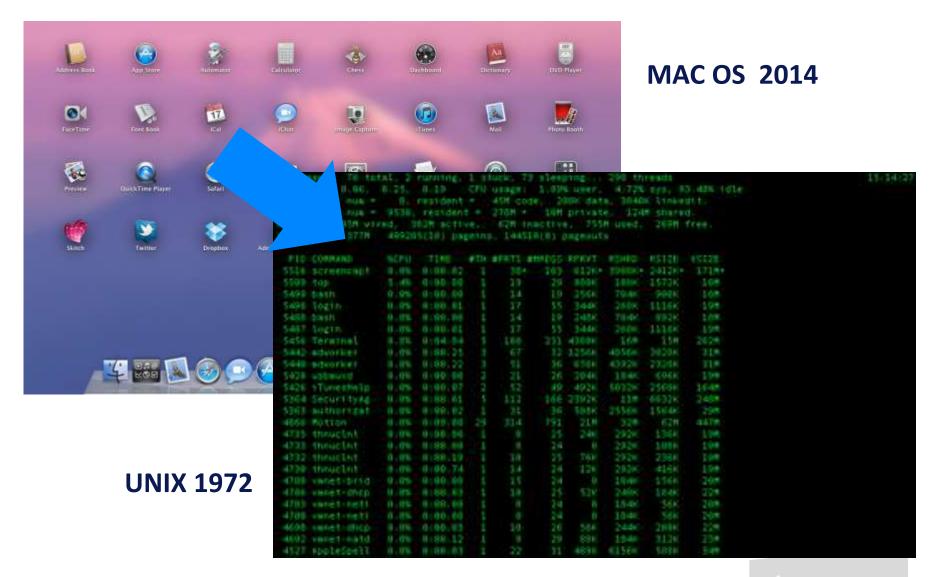
The technology can make transfers of anything that requires a certain consensus possible





Great. When will everyone use it? How?

Right now, the technology is in its infancy: it will take time to build services that are usable



Could you have invented YouTube (2005) in 2002? It was still unthinkable!

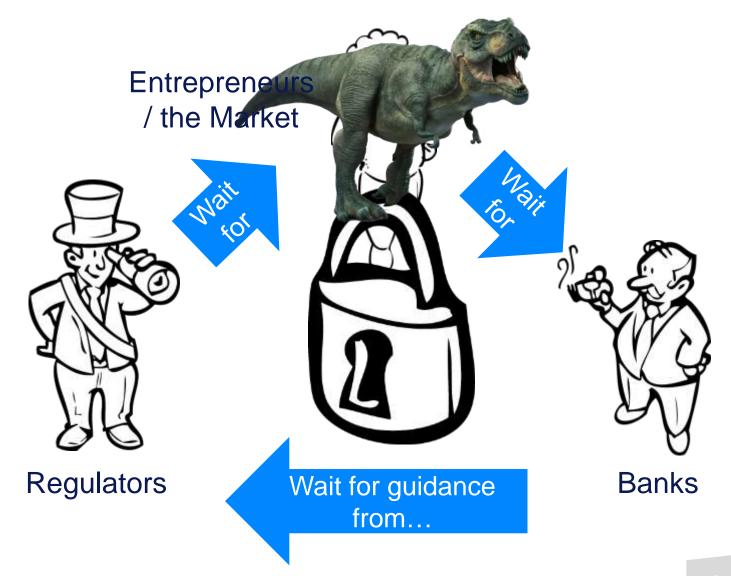


Companies will find ways to put the technology to use



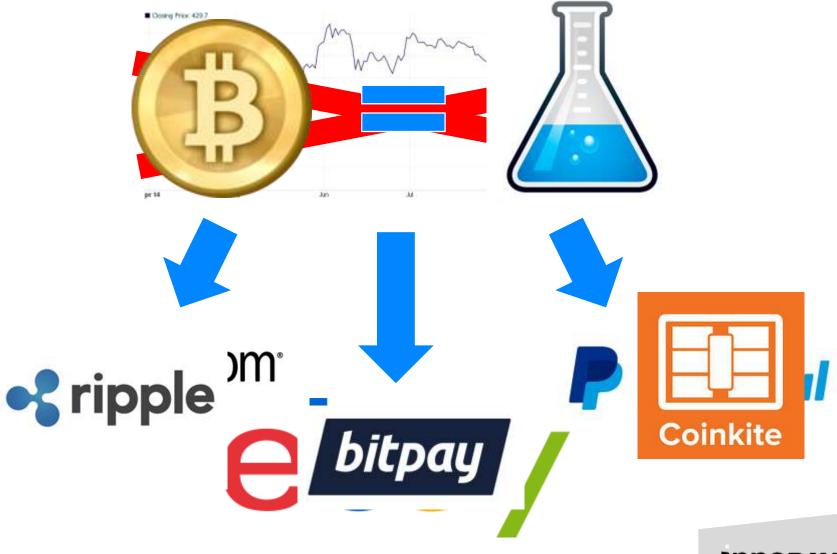


Momentum of technology is growing; current deadlock needs to be dealt with



So, what is the most important thing to take home?

it's about spotting the companies that find ways to unlock the potential of Bitcoin technology



In de praktijk

- Wallet installeren
- Bitcoin aanschaffen
- Gebruiken
 - Persoon ⇔ persoo
 - Winkel
 - Facturen

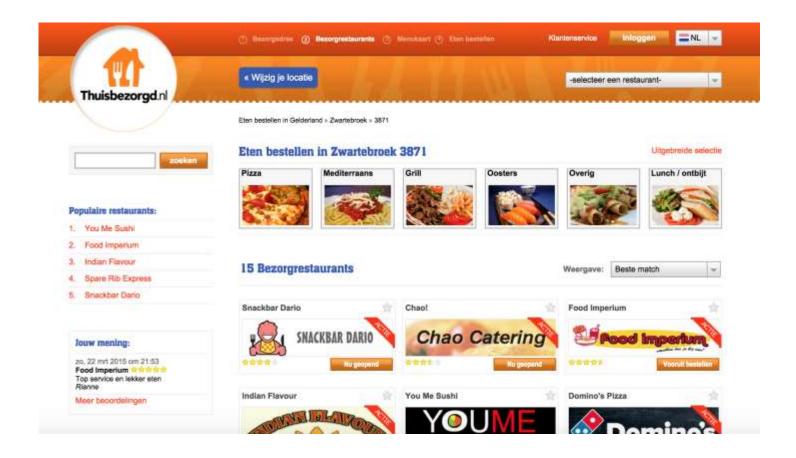




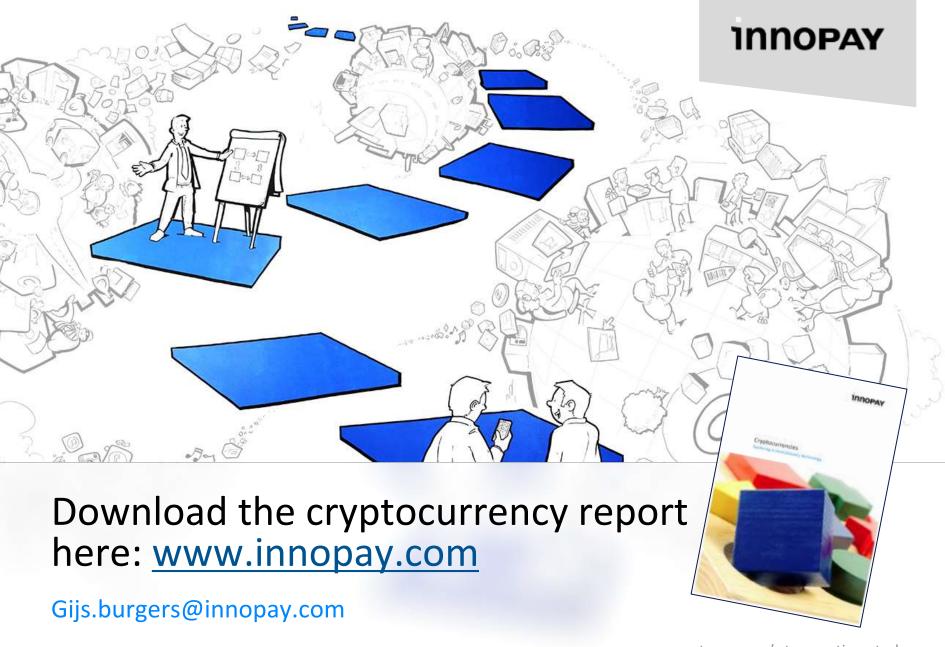




Demo







tomorrow's transactions today