GRADUATE INSTITUTE GENEVA

Economics of Bitcoin and Cryptocurrenies

Bastiaar Quast

The Basic

The Economics

The Social

### Economics of Bitcoin and Cryptocurrenies

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The Graduate Institute, Geneva

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### Overview

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The Economics

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# The Basics

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The Soci Value What is Bitcoin?

peer-to-peer online payment system
decentralised open system
open-source
How does Bitcoin Work?
wallet

private keypublic addresssignaturemining

miningblockchain

What are the Drawbacks?

I full relience on the pro-

full relience on the protocolrelience on the internet

relience on the internethacking: more frequent and more severe

## The Basics II

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What are the Benefits?

virtually instant transactions

no middle men

highly predictable system (no boom-bust cycles?)

When is Bitcoin useful?

financial inclusion / empowerment

remittances

capital controlsIs Bitcoin Money?medium of exchange

2 unit of account3 store of value

4 standard of deferred payment
5 legal tender?!

Is Bitcoin Legal?
■ currency vs. financial asset

### The Economics

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The Socia Value Denationalized Money: Hayek's Paradise

- no government control
- no inflation
- limited number -> information asymentry -> market failure
- situation on international currency competition (David D. Howard)
- Has the Government a Role in Money? (list of good reasons, Friedman & Schwartz, 1985)

Cryptocurrencies and Inflation

■ not within a cryptocoin, but through plurality

Free banking

■ similar?



#### The Social Value

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The Social Value Is Mining Socially Wasteful?

- compared to what? paper money? coins? gold?
- what happens to the costs?

Proof of Stake

■ inflation or not