## Blockchain & Digital Health Assets



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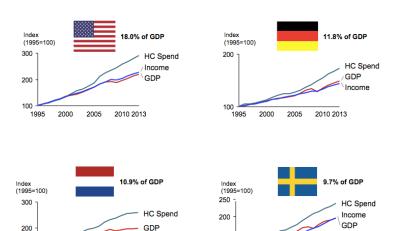
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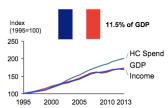
## Global Healthcare's Challenge:

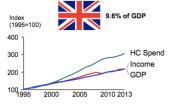
### The Complex Relationship Between Cost & Quality



### The Health Care Problem is a Global Issue Health Care Spending vs GDP and Income







Notes: Indexes based on local currencies; Income = Personal Disposable Income; HC expenditures as % of GDP are OECD estimates Source: Economist Intelligence Unit May 2014, BCG analysis

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#### Variation in Quality Within and Across Countries

Variation in 30-day mortality rate from heart attack in US hospitals
Variation in bypass surgery mortality in the UK hospitals
Variation of major obstetrical complications among US hospitals
Variation in Dutch hospitals' complication rates from radical prostatectomies in the Dutch hospitals
Variation in reoperation rates after hip surgery in German hospitals
Variation in mortality after colon cancer surgery in Swedish hospitals

Variation is pervasive across conditions and all types of outcomes wherever systematic data is available

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#### Unsustainable Costs

### Growing Variation





Source: Employee Benefit Research Institute 230% 17.8% of \$10,000 \$14,300 \$3.2 TRILLION \$338.1 BILLION increase since **GDP** per capita average per **Total Healthcare** 2006 Consumer Out of family Pocket Spend Costs - US

## Health Infrastructure Working As Designed



#### trans-ac-tion

/tran'sakSH(ə)n,tran'zakSH(ə)n/ ◆)

noun

an instance of buying or selling something; a business deal.

"in an ordinary commercial transaction a delivery date is essential"

synonyms: deal, business deal, undertaking, arrangement, bargain, negotiation, agreement,

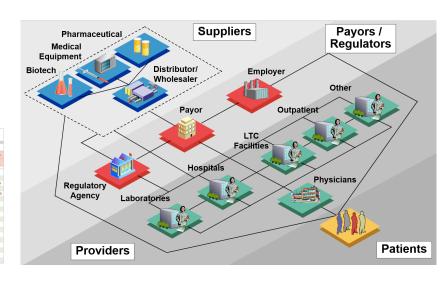
settlement; proceedings

- "property transactions"

  the action of conducting business.
  - synonyms: conduct, carrying out, negotiation, performance, execution "the transaction of government business"
- an exchange or interaction between people.
   "intellectual transactions in the classroom"









We have a cost / quality problem.



# By moving trust

to the software, we can change how digital assets

are transacted across value chains.



## The world's first blockchain is called







## The Power of the Bitcoin Blockchain:

- Public
- Immutable
- Secure

"Limitations" of the Bitcoin Blockchain:

- Slow
- Energy Intensive
- Not a Development Platform
- Narrow Definition of Asset







The world's second blockchain is called



Ethereum opened the door to digital assets.

Purpose	Digital money	Smart Contracts	Digital Assets
	Send Currency Without Middleman	Send Digital Assets Without Middleman if/when	Programmable Value
Market cap	~\$70 billion	~\$31 billion	~\$44 Billion
Founding	Satoshi Nakamoto 2009	Vitalik Buterin 2015	855 Project- specific
Release	Mining	\$18M presale	ICOs



#### Hashed Health:

digital health assets
+
enterprise businesses
+
decentralized health infrastructure

"Health As An Asset"

Medical Records
Claims
Products
Services
Patients
Data



Healthcare Digital Asset Use Case 1:

Identity



Healthcare Digital Asset Use Case 2:

Programmable Payments









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## Create Your Own Economy / Market

- Embed Economics in Care Delivery
- Embed Incentives in Wellness





## "Changing the Container"

- Tokens, digital assets, currencies & markets
  - Rise of the prosumer
  - Fracking traditional industries and roles
  - Re-construct value chains
  - Collaborative, public & open source



### Blockchain + Digital Health Assets:

It's time to re-think the \$5T relationship between commerce & care.