

HOSPITAL REVIEW

Healthcare Solutions and Business Models That Were Not Possible Before Blockchain & Where We Are Headed.

It's Not About the Hype, It Is About What Comes After That.

John Bass, Founder & CEO Hashed Health @johngbass or @HashedHealth

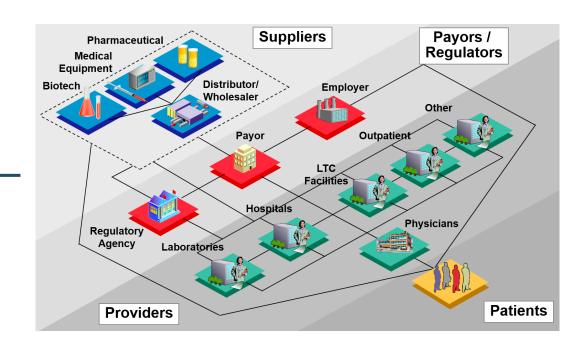
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Healthcare: Working As Designed

- Transaction Focused.
- Lacks Consumer Choice.
 - Irrational Pricing.
 - Less Competition.
 - Massive Infrastructure.
- Massive Administrative Burden.
- Development on Silo'd Systems.



The Big Problem: Prices & Inefficiencies

18% of GDP in 2018

>\$5.7T by 2023

1/3 Administrative Waste



"Blockchain" In Context



It is a transformative **new way of developing products** at the market level. New approach to old problems that thrive on the lack of trust, transparency and the alignment of incentives.



"Blockchain" represents a **spectrum of technologies** that power distributed networks. There are a number of tools and protocols to choose from along this spectrum, depending on the business problem's need for:

- censorship resistance,
- privacy,
- permissioning,
- throughput,

- payload,
- data elements,
- scalability,
- business model constraints,
- governance constraints...



Bitcoin proved that by moving

trust

to the software we change how

digital assets

are transacted across value chains.

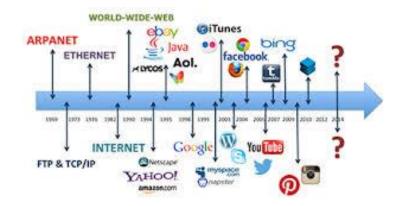




The Internet of Value

	WWW	www 2.0	www 3.0
Primary focus	information	reputation	value
Primary unit	search / links	likes	assets
Dominant Platform	Google	Facebook	?

Gartner: \$3T by 2030

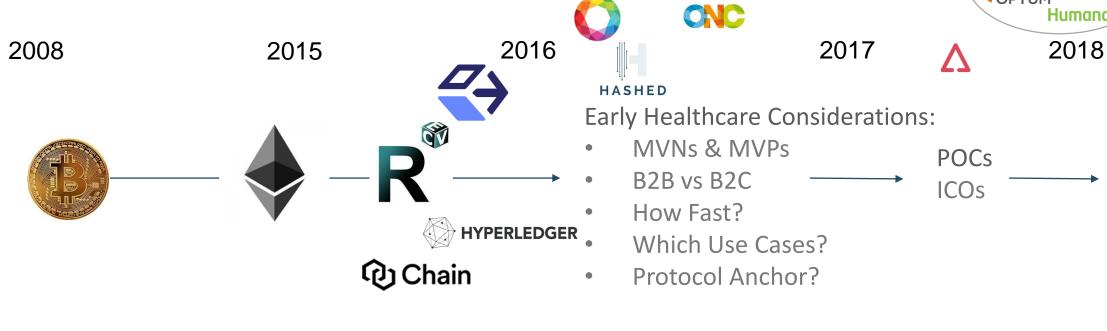


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"The Early Days"





Health / Life Sciences
Community-Building

POCs & Market Development ————

Product Development ——





2+ Years Experience with Digital Assets

- Physician Identity
- Services
- Claims
- Products/Supplies
- Patients
- Clinical Trials





Proof-Based Contracting Initiative

Track & Trace (x2)





Interstate Medical Licensure

interstate Medical Licensure

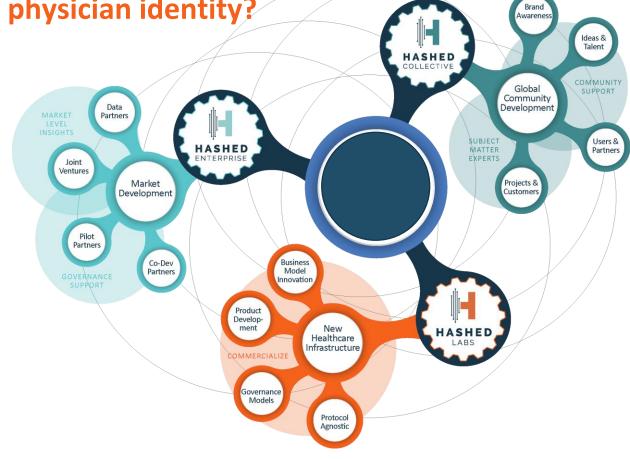
Old problem: How do states collaborate on physician identity?

Old solution:

- Centralized company
- Centralized business model
- Centralized database
- Charge rent for access

New solution:

- Shared ledger
- Exchange business model
- Digital Asset = Identity Artifacts







New Business Models

Example: Decentralized exchange / marketplace

- "Tokenized" digital assets are created
- List asset on the Exchange for consumers
- Creates a rational, decentralized market for trading
- Allows for innovation on the buy & sell side
- Creates a foundation for smart value-exchange innovation & automation





A Credentialing "Exchange" Business Model

It takes 4-6 months to credential a new physician.

That's \$7500 / day in lost revenue

Old solution:

- Centralized business
- Aggregate licensure & credentialing information
- Sell data

New solution:

- Exchange business
- Put together buyers and sellers
- Facilitate network activities







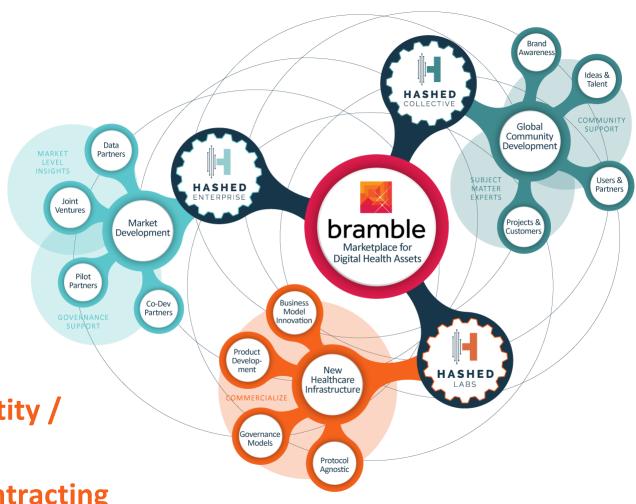
A Services "Exchange" Business Model

Old problem: Competition, choice, and rational market forces in the buying and selling of healthcare services.

Old solution: Pipelines / Impossible

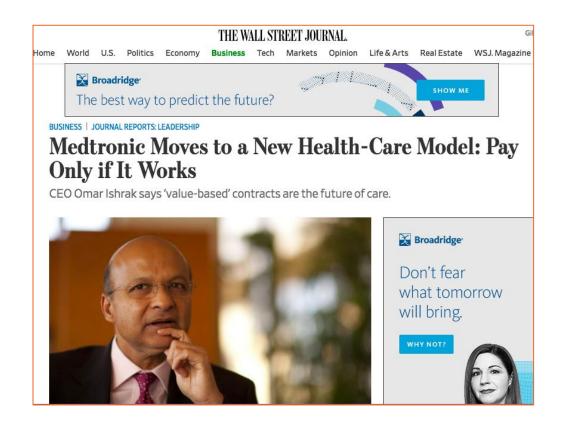
New solution:

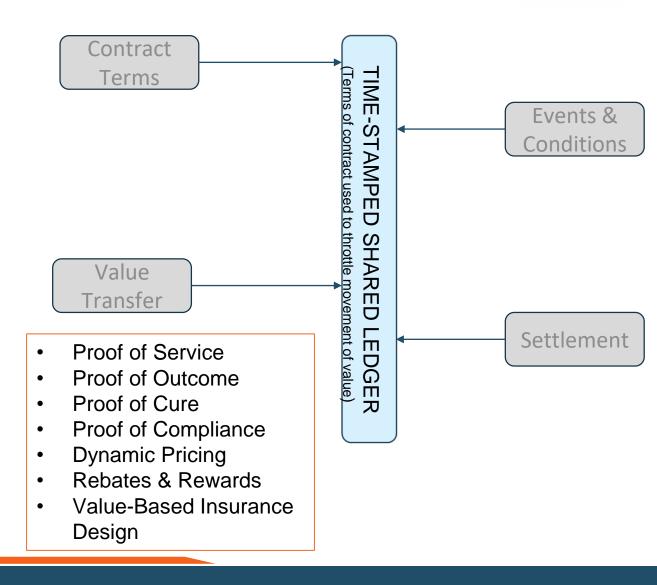
- Service Innovation: NFTs (with unique characteristics)
- Identity Innovation: Buy & Sell Side Identity / Reputation Functions
- Contracting Innovation: Value-Based Contracting Model



A New Model for Value-Based Contracting

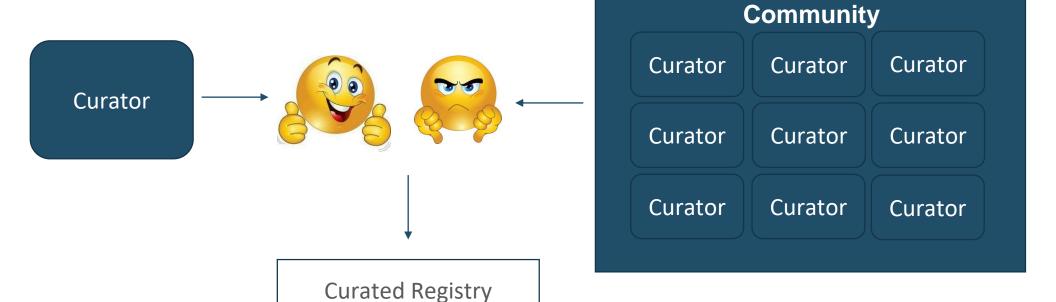






A New Model for Master Data Management





Curator Voting

Eth Address	Vote	Stake
0x1A5	Y	50
0x783	N	100

Data Field	Status
Data Field	Status



Why do you need a blockchain for these use cases?

- 1. Market-level, multi-constituent process
- 2. Trust
- Transparency
- 4. Alignment of incentives
- 5. Programmable asset transfer (overcome limitations of the current infrastructure)



Technical



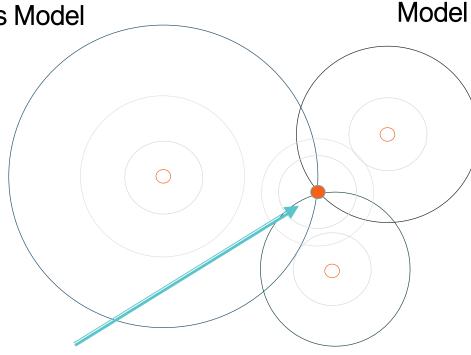
The Opportunity / Challenge

Why All the Hype?!?!?

It's the Innovator's Dream Come True...

- new ways of building applications.
- **new infrastructure** designed for trust, transparency & incentive alignment in healthcare.
- new business models designed for adoption.
- new actors & jobs in markets.
- new economies / markets / value chains.

Business Model



Finding this is hard but potentially very rewarding.

Network
Governance
Structure



Collaboration / Consortia

Old Problems Suffer From Failures of Trust & Collaboration

Patient-Centered Care, Data/Medical Records Centralization, Pipelined Value-Chains, Irrational Markets

- Collaborate starts with communication & the sharing of ideas.
- Blockchain presents us with a unique opportunity.



Working Together to Change the Relationship Between Commerce & Care

Questions? Want to Join the Conversation?

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