BUSINESS INSURANCE.

VIOLE FORUM

Blockchains in Insurance & Captives

#WorldCaptiveForum

JANUARY 30 - FEBRUARY 1, 2019

Our Panel

Steven Bauman, Head of Global & Captive Programs, AXA XL Rocco Mancini, Vice President, Marsh Captive Solutions Doug Alexander, Digital Enterprise Architect, AXA XL Ashish Gadnis, Co-Founder / CEO BanQu, Inc. Susan Joseph, North American Representative, B3i





Agenda

- What is Blockchain?
- Getting Started with Blockchain
- Practical Applications of Blockchain
 - BanQu
 - B3i





What is Blockchain?

Blockchain is the combination of three existing technologies:

- Cryptographic Keys
 - Creates a secure digital identity
- Peer-to-Peer (Distributed) Networks
 - Creates a shared system of records
- Protocols
 - Similar to a computer's operating system
 - Establishes the rules of the blockchain

What are Smart Contracts?

- A product of second generation blockchain technology
 - Blockchain 1.0: Distributed Ledger
 - Blockchain 2.0: Distributed Virtual Machine
- Blockchain Protocol = Operating System
- Smart Contracts = Computer Programs
- Potential value of smart contracts:
 - Manage multiple workflows without intermediaries



Are Bitcoin and Blockchain the Same?

- Blockchain is Bitcoin's "operating system"
- Blockchain protocols can create digital assets that are:
 - Scarce can't be copied
 - Immutable/Secure difficult to tamper with
 - Auditable can be tracked by all parties
- Bitcoin is the oldest and most infamous example
 - Trial by fire



Is Blockchain Secure?

Misleading headlines obscure the real problem:

\$1.1 billion in cryptocurrency has been stolen this year, and it was apparently easy to do

- \$1.1 billion worth of cryptocurrency was stolen in the first half of 2018, and it's relatively easy to do, according to cybersecurity company Carbon Black.
- "It's surprising just how easy it is without any tech skill to commit cybercrimes like ransomware," Carbon Black Security strategist Rick McElroy says
- The necessary malware, which even occasionally comes with customer service, costs an average of \$224 and can be as cheap as \$1.04 on the "dark web."



Is Blockchain Secure?

- Poor cybersecurity practices are a significant real problem
 - Ransomware and other cyber attacks continue to be successful
 - Usually demand payments in Bitcoin
 - Blockchain industry can benefit from a greater focus on risk management
- Blockchain, like any software, can have vulnerabilities:
 - If Blockchain Protocol = Operating System
 - Think vulnerability in Windows Operating System
 - If Smart Contracts = Computer Programs
 - Think vulnerability in Microsoft Word
- Only as secure as underlying cybersecurity practices



What have we done? Blockchain Experiments to Live Platforms

What is Blockchain and do we care?

Blockchain R&D was an initial focus of our Digital innovation team



First Blockchain
POC:
6 weeks;
Ceded Reinsurance
use case



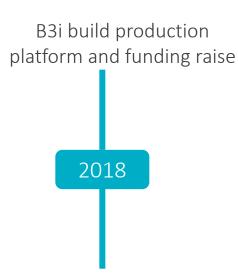
InsurWave: Successfully concluded 20 week POC

Joined InsurWave Marine Consortium



Real client, defined use case
Desire to lead the market; managing internal and external stakeholders!

InsurWave
Phase 1 launch:
Register of Assets; SMART
contracts



What's the opportunity, what's the business case?

InsurWave
Expand to new
clients, increasing
functionality

B3i live and expand



Realizing business benefit disrupt AND IMPROVE (re)insurance



What have we learned?



Getting started — Education and communication is key. Leverage your partners, networks and those waiting in the wings. Lead with a business problem vs technology problem.



Working with consortia – Patience, patience and patience. Know when to lead, know when to follow. When in doubt, go smaller and faster.



Overcoming obstacles – Inclusion with all concerned parties is key and have a business problem. Use dedicated resources vs hobbyists. Have senior business and technology personnel supporting.

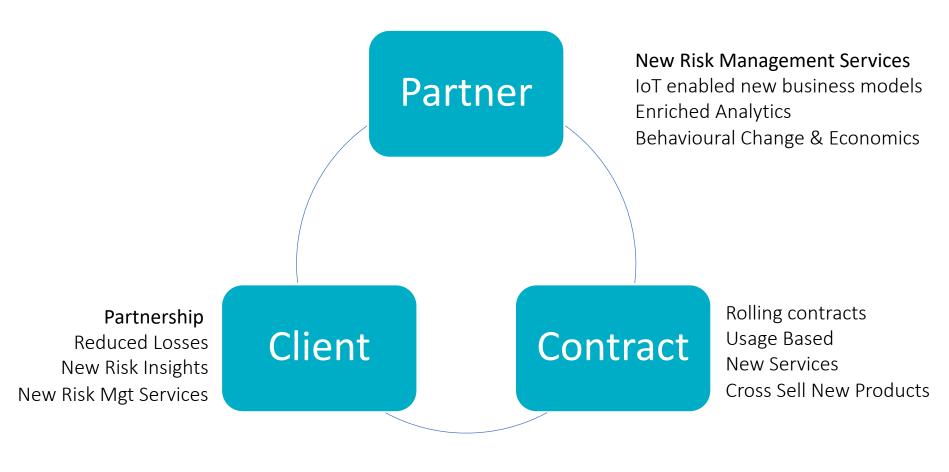


Working with startups — Individual results will vary, ensure you have a fit and alignment with desired outcome, success, and next steps. The novelty will wear off and you'll need a great working relationship. Know what the startups can and can't do. Remember the majority will fail / exit / pivot.

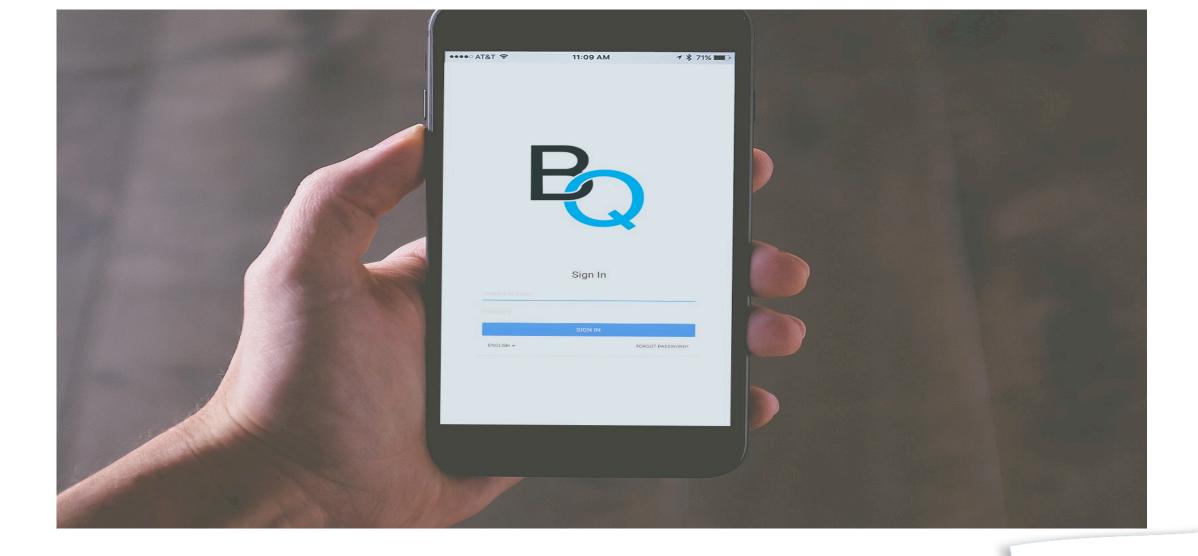


What do we want to do next? Move from Payer to Partner

Blockchain is an enabling technology for our ecosystems





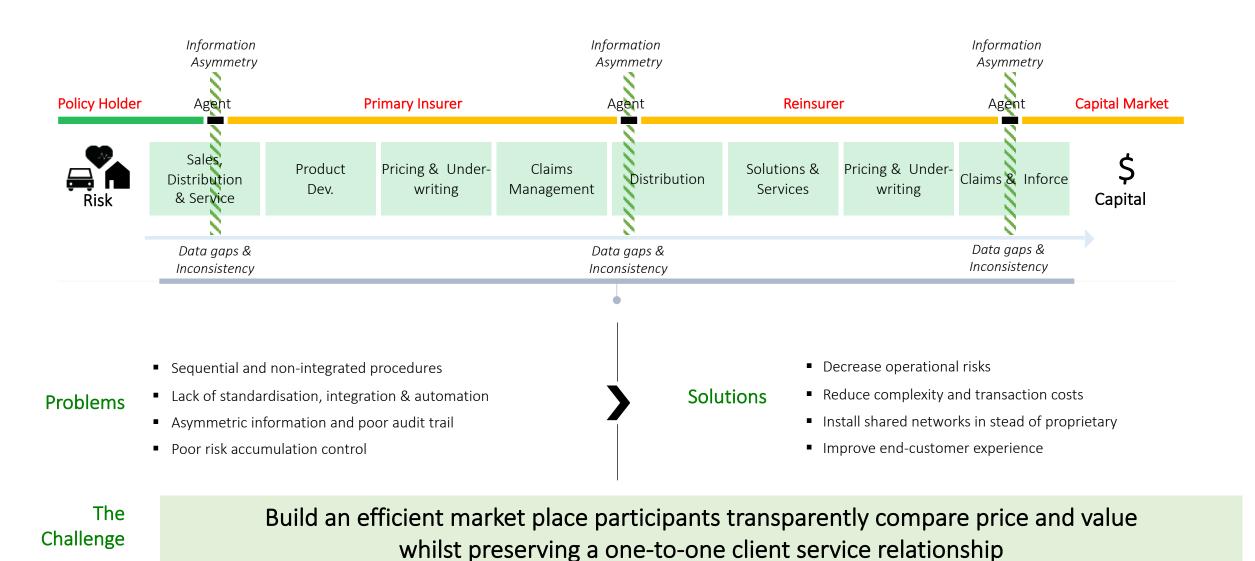


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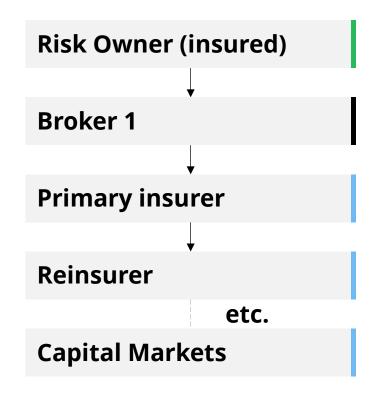
Challenges in re/insurance value chain



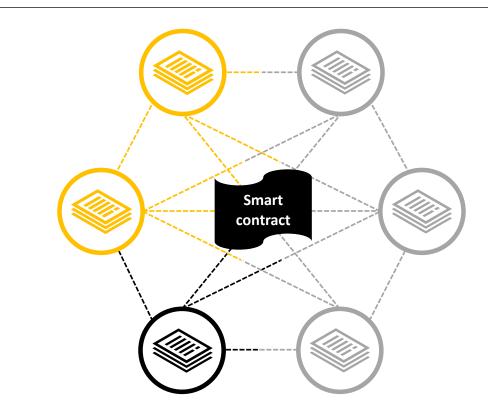
Enable the industry to truly act as a network

Past: Insurance process

Future: B3i enabled future



Asymmetry, duplication, redundancies



Efficiency, transparency, privacy, speed, positive customer experience

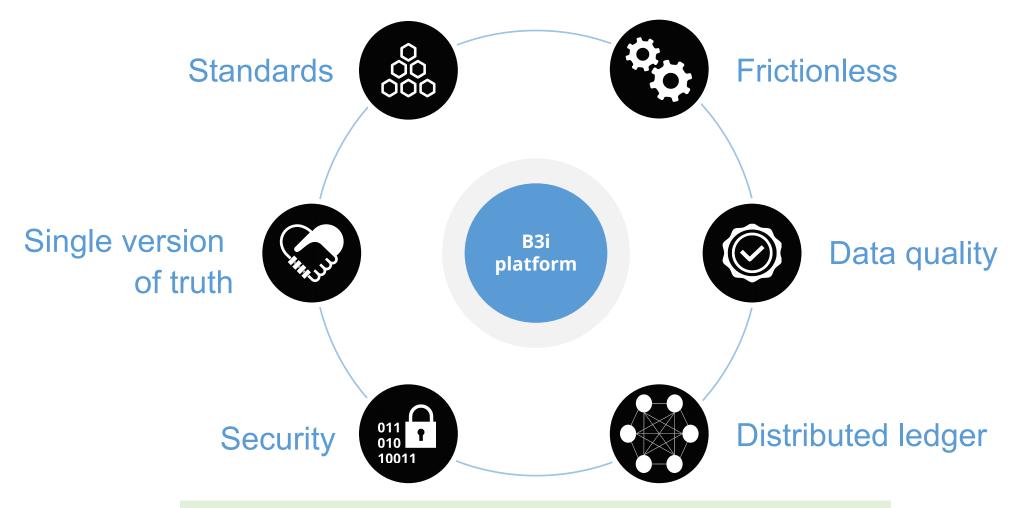






Broker ---- Direct peer to peer connection

Use Distributed Ledger to combine different capabilities



Advantages of information sharing and trading efficiencies without disadvantages of concentration of data and power

B3i – The Network becomes the Marketplace



B3i's deployment strategy



A three-wave build strategy reflecting industry priorities, data volumes, diversity and complexity

	Underwriting Contract certainty Faster quoting	Claims Claims and fraud prevention	Accounting Faster settlement, improved liquidity
Reinsurance Wholesale insurance-to-insurance (global market)			
Commercial Insurance Wholesale insurance-to-corporate (regional market)			
Primary insurance Retail insurance-to-consumer (local market)			

► Integrated value chain approach: UW > Premium / Claims > Accounting process cycles

2019 - property

> B2B2C go-to-market strategy : start with more standard contracts with lower data volumes

> Partnerships : collaborate to address diverse primary insurance contract types (incl. jurisdiction, language)

Commercial Insurance – minimum viable product scope





Placement of commercial insurance property contracts on the platform-start with pre-binding: submission, quotation and location



Manage and share contract data and documents to ensure a single version of truth

Commercial Insurance Functionalities

(minimum viable product, "MVP")



Seamless collaboration using workflows, messaging, notifications, status updates



Transparency achieved through audit trail and version control



Support for co-insurance



Technical accounting

Pilot countries selected per local demands