

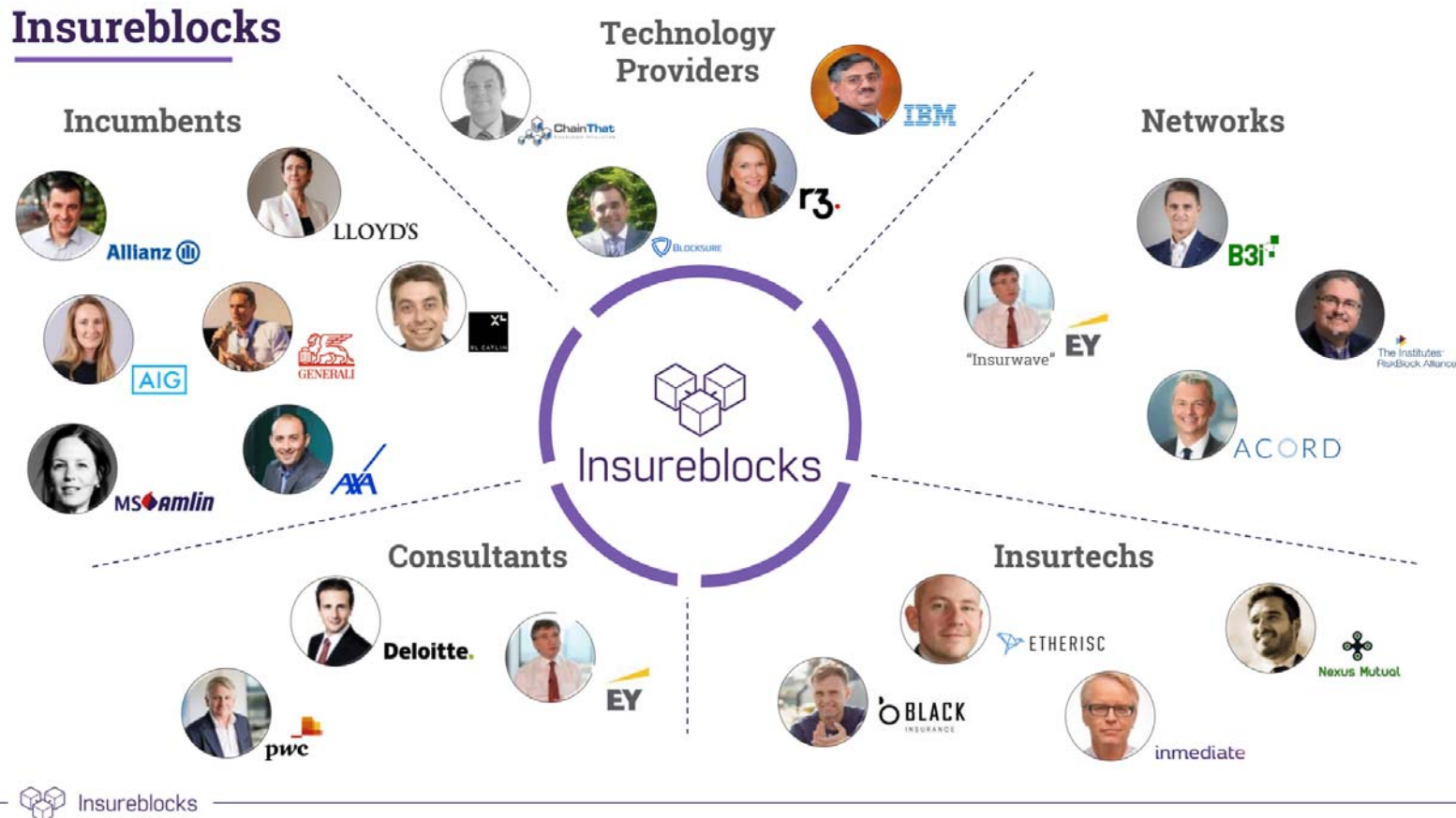
Blockchain is dead, long live blockchain

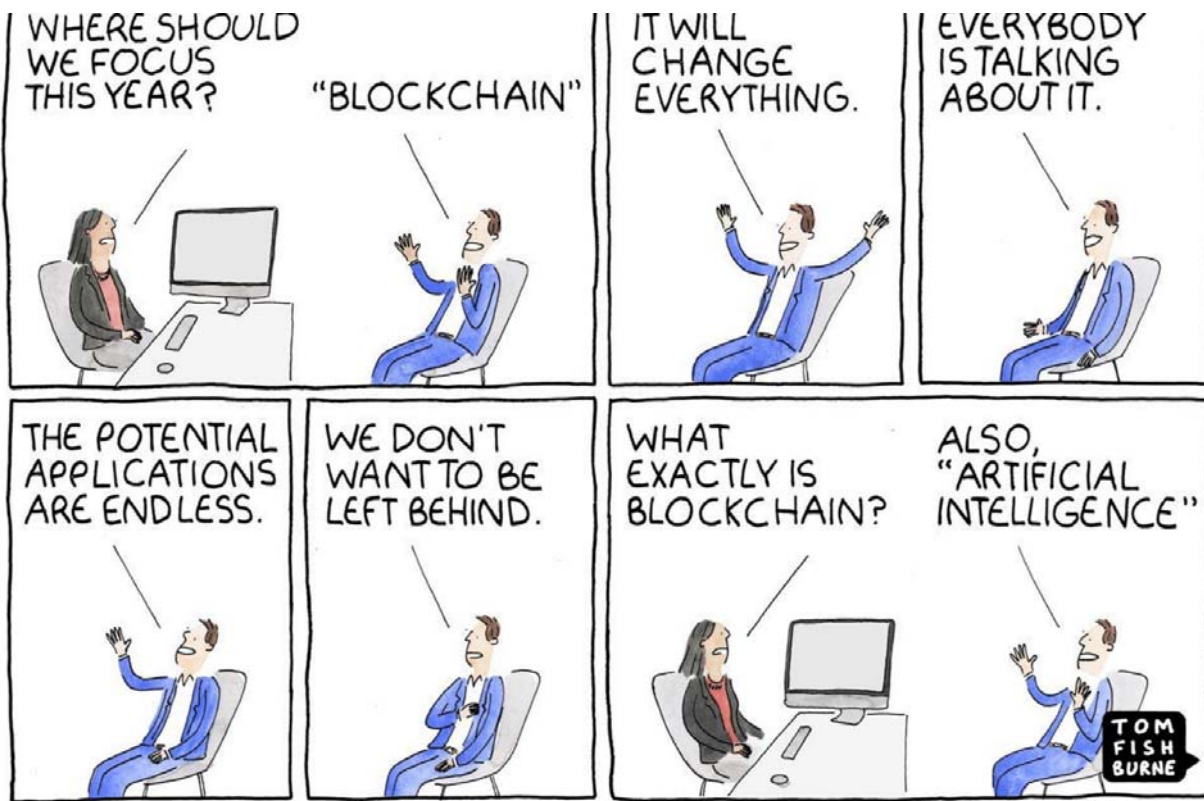
Walid Al Saqqaf – Founder of Insureblocks

Connecticut Captive Insurance Association

Hartford, 21st May 2019

Insureblocks





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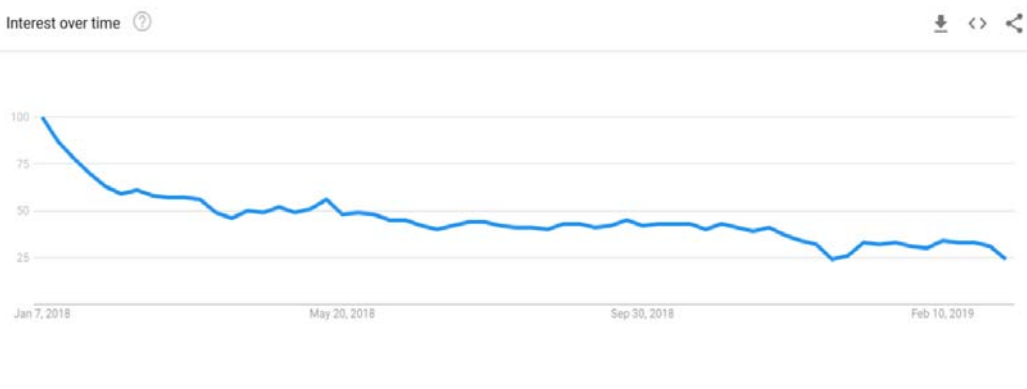
Is Blockchain Dead?

Google Trends Explore Sign in

● blockchain
Search term

+ Compare

Worldwide 1/1/18 - 3/13/19 All categories Web Search



Is Blockchain Dead?

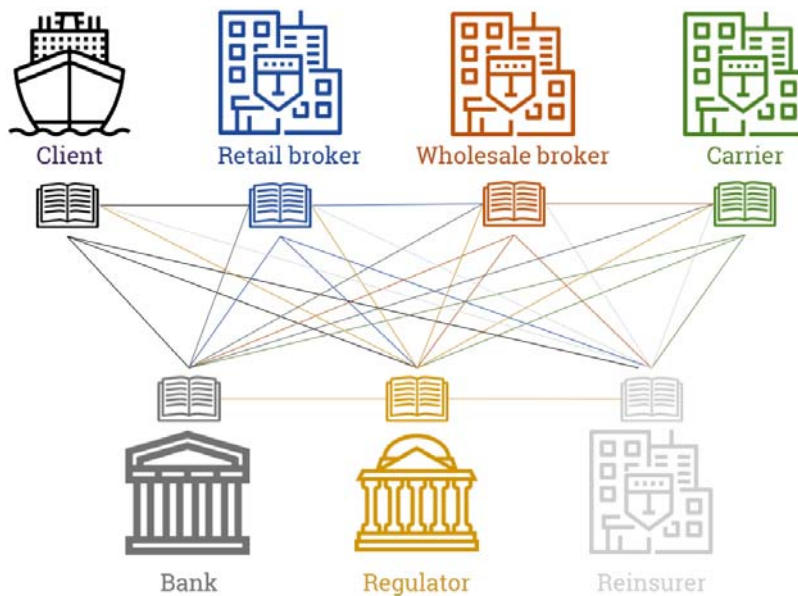


"The bottom line is that despite billions of dollars of investment, and nearly as many headlines, evidence for a practical scalable use for blockchain is thin on the ground." – McKinsey & Company

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The Problem

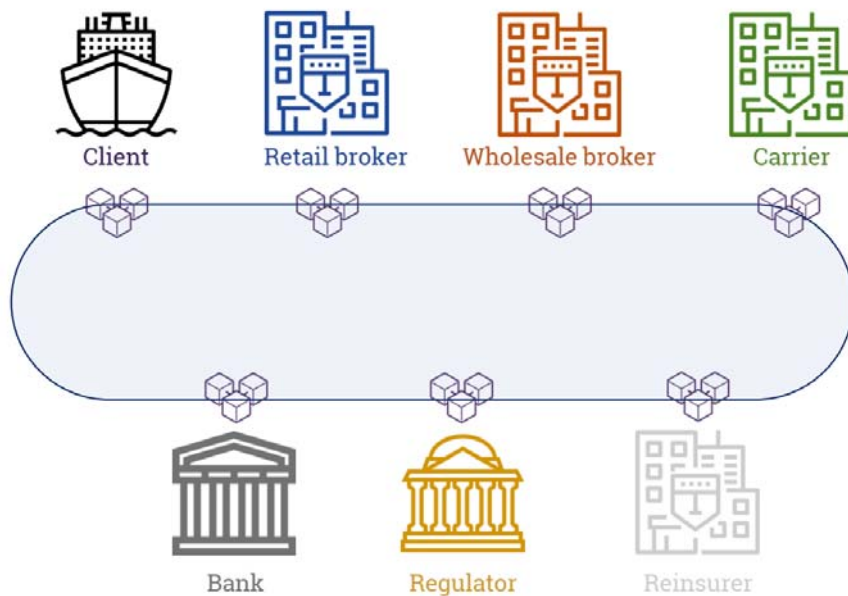
The way in which we exchange information today is inefficient, expensive and has both security and human error vulnerabilities.



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With Blockchain

A shared, distributed, auto replicated and permissioned based ledger



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What is Blockchain?

Blockchain is a digital ledger that provides a shared single source of truth between multiple trustless parties. Blockchain has the following attributes:



Distributed ledger



Tamper proof



Transparent & set data format



Consensus



Public



Private



Smart Contracts

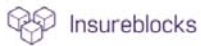


Cryptographically secured

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What is a Smart Contract

- Codified business logic – “if X occurs, do Y”
 - X = objective trigger
 - Y = insurer’s contractual obligations
- Contract is self executing / no human review is required
 - Contract is triggered by a deterministic event
- Oracles (e.g. flight or weather database)



Challenges of the Insurance industry

- High costs due to administrative friction
- Regulatory reporting requirements
- Increasing number of complex contracts
- Paper processes
- Lack of standards
- Trust concerns with respect to data



Benefits blockchain can bring to insurance

- Reduced administrative costs and friction
 - Reduced friction through the elimination of reconciliations or re-keying of data
- Automatic contract terms and conditions
 - Self execution of contractual terms when verified event occurs (e.g. hurricane)
 - Reduced administrative costs
- Digital data exchange
 - Greater fluidity and efficiency in trading risks, value and assets in real time
- Trust in the data and its security
 - Increases contractual certainty and transparency of data
- Regulatory and compliancy transparency



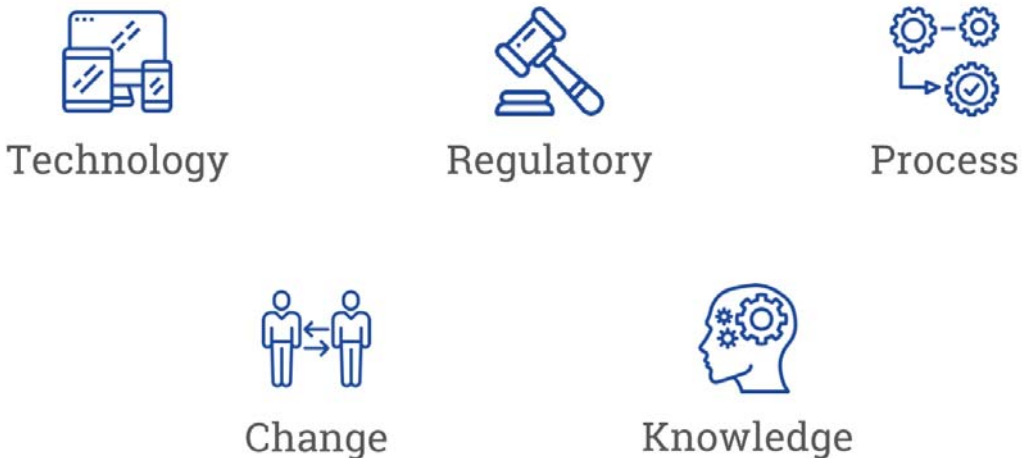
Decision criteria – when to use blockchain technology?

- Multiple parties generate digital transactions that change information in a shared repository
- Multiple parties update data and these actions need to be permanently recorded
- Participants need to trust that the recorded actions are verified as valid
- Intermediaries introduce an unnecessary complexity in communication and information exchange
- Enhanced security is needed to ensure integrity of the system

▶ If these conditions are (largely) met, Blockchain is likely to be more suitable than a standard database or other solution

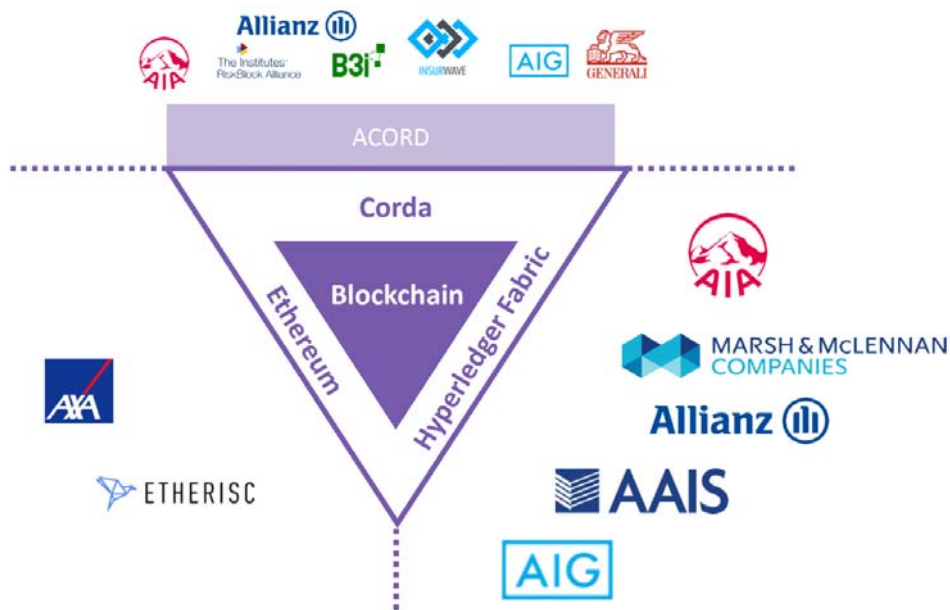


Key barriers to overcome



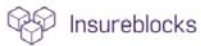
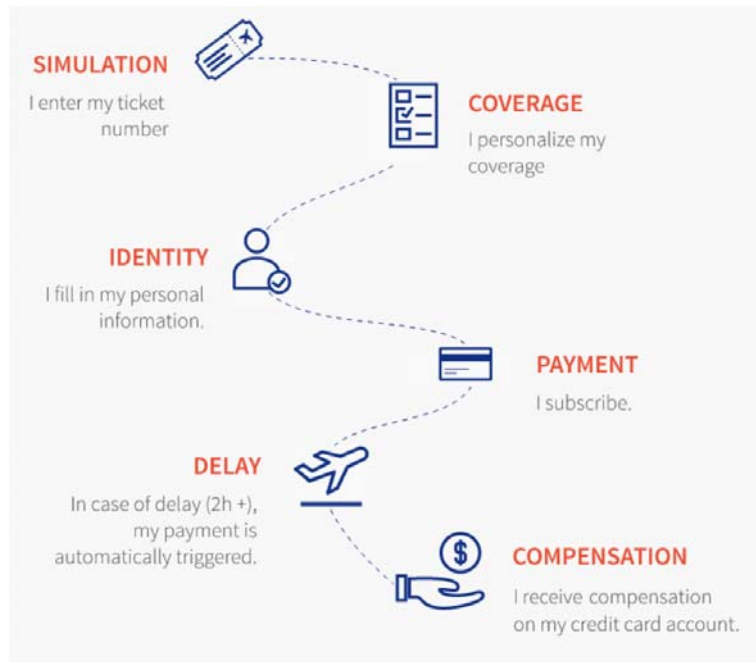
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Insurance blockchain ecosystem(s)



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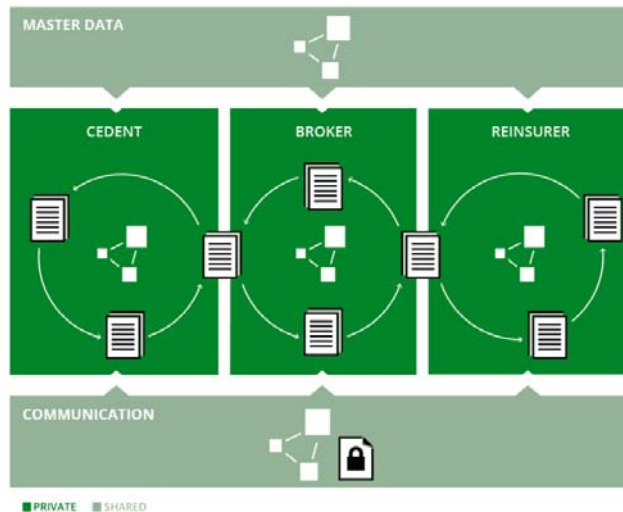
Insurance case studies – Auto Claims



Insurance case studies – Reinsurance



The Blockchain Insurance Industry Initiative



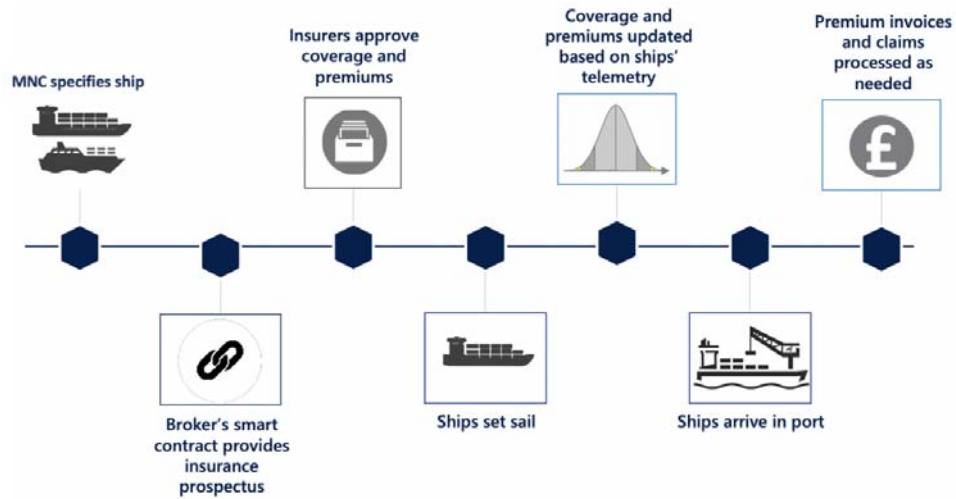
- Shared ledger
 - Single source of truth
 - No rekey
- Smart contracts
 - Builds premium schedule and the associated payables and receivables
 - Distributes materialised updates of losses to reinsurers



Insurance case studies – Marine Insurance



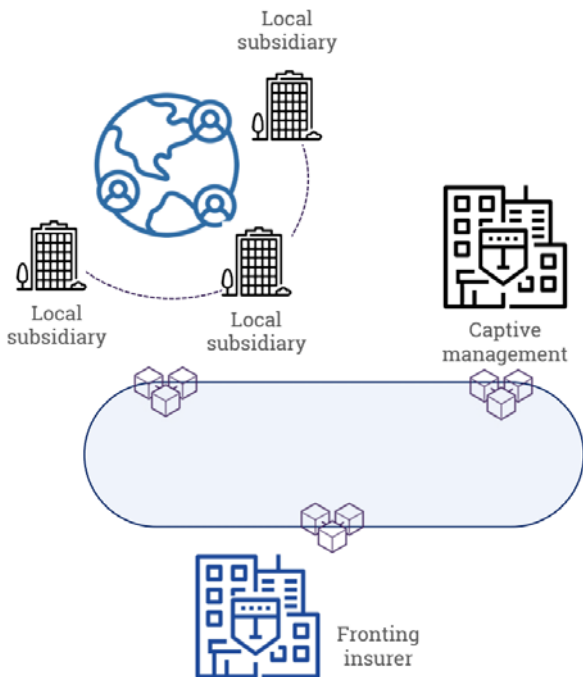
Insurwave takes clients, brokers, insurers, and third parties and connects them to distributed common ledgers that capture data about identities, risk, and exposures, integrating this information with insurance contracts.



Blockchain will provide unprecedented visibility to accurate ship and coverage data across the entire maritime market landscape



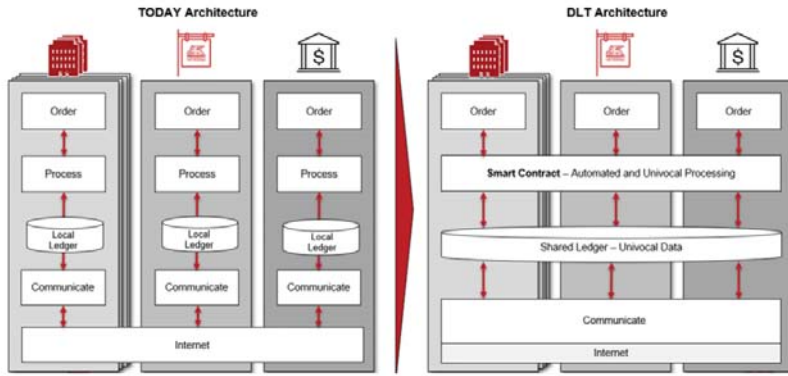
Captive insurance case study – Allianz




- Blockchain connects all parties involved in the captive insurance program
- Allianz's blockchain captive insurance program focuses on professional indemnity and property with local subsidiaries in the US, China and Switzerland
- Focuses on annual policy renewals premium payments and claims submission and settlement
- "Automated processing replaces the exchange of thousands of emails and massive data files. Each process is transparent and can be tracked in real-time. Our customers benefit from increased speed, reliability and auditability."



Captive insurance case study –



- Generali Employee Benefits (GEB) is an employee benefit solutions provider
- Prototype in 2018, involving major agricultural firm Syngenta, as well as Spanish, Swiss and Serbian local insurers. It allows participants in the reinsurance process for captive or pooling services to access the same data and reduces processing errors through smart contracts and automated reconciliation.
- Greater transparency – increases data quality and processing of data
- Move away from batch executions
- Reduction of human errors – eliminating multiple reworks of the same data
- Increased efficiency and speed - accounts payable are automatically shared between the involved parties, enabling cascading to the Treasury and Banks with no manual intervention required.

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Captive insurance

VERMONT OFFICIAL STATE WEBSITE

STATE OF VERMONT

Department of Financial Regulation

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PRESS RELEASE

DEPARTMENT OF FINANCIAL REGULATION AND SECRETARY OF STATE COLLABORATE ON CAPTIVE INSURANCE BLOCKCHAIN PILOT

10 JANUARY 2019

- Launch a pilot program allowing new captive insurance companies to register with the Secretary of State using blockchain technology.
- The pilot program is designed to test the functionality of the emerging technology in state regulatory processes.
- The pilot will also include a review and revision of relevant statutes, rules, regulations, and bulletins to ease blockchain implementation.

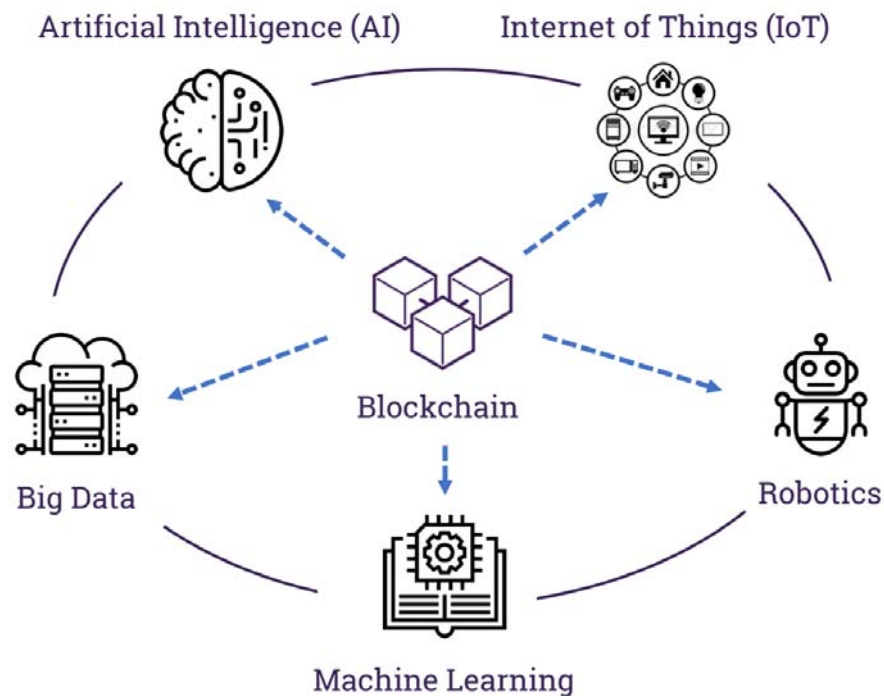
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Insurance case studies – Learnings

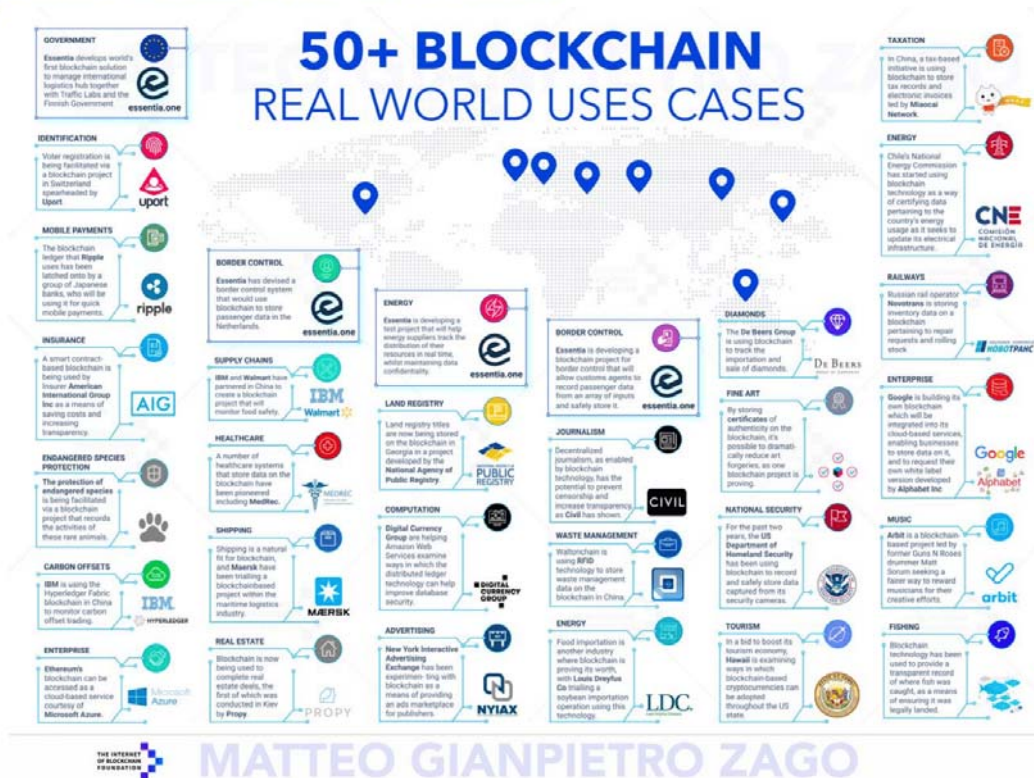
- Have a clear business case, not a hammer looking for a nail
- Customer centricity is key!
- You can't replicate existing business processes onto the blockchain you need to reinvent them
- Blockchain works with friends, it's all about the ecosystem
- Do not boil the ocean, start small and focus and expand. Minimum viable product to a Maturing Loveable Product. Take an iterative approach



Blockchain & new technologies – the new stack



Blockchain non-insurance use cases



MATTEO GIANPIETRO ZAGO



Blockchain non-insurance use cases

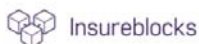
TRADELENS

IBM Food Trust™

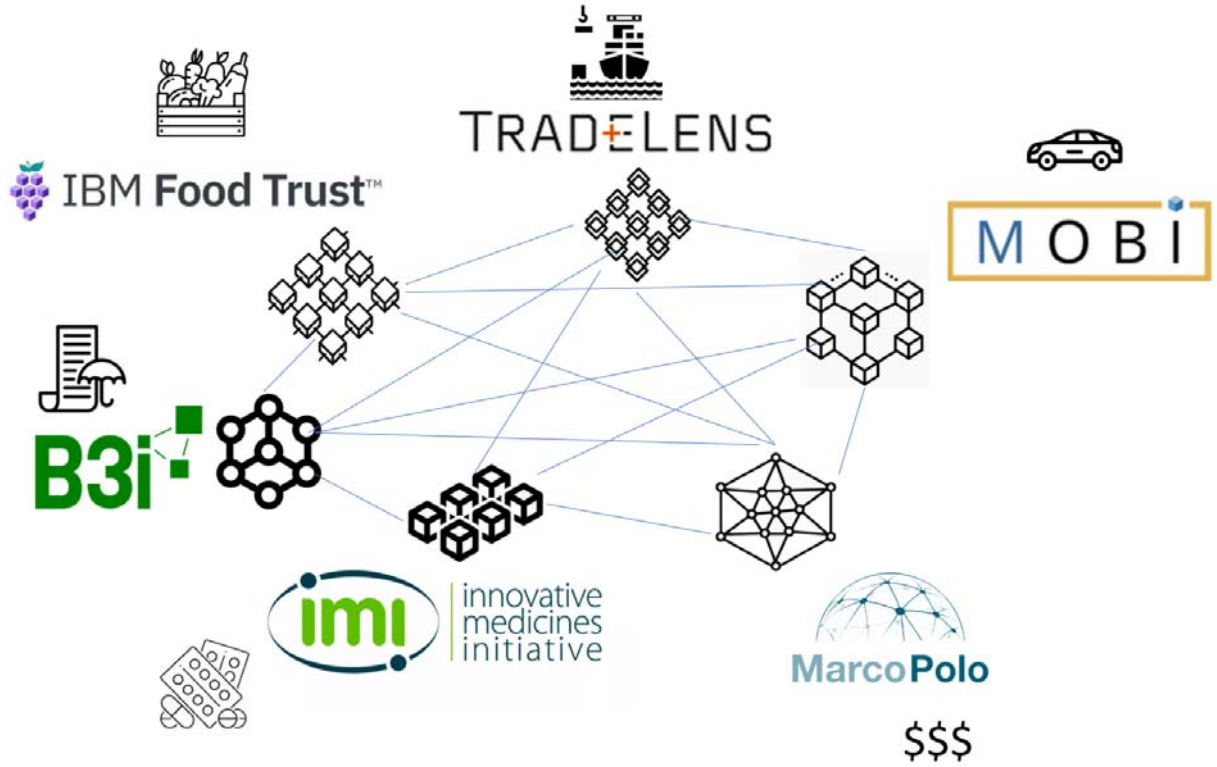
MOBI

imi innovative medicines initiative

Marco Polo



Ecosystems of Ecosystems



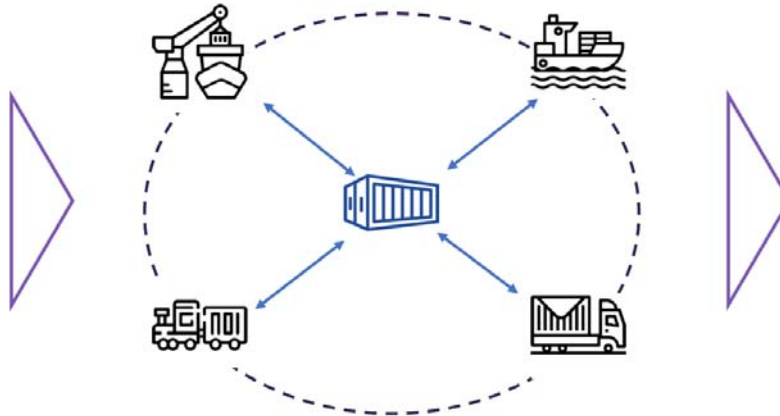
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Similarities to Containerization

Need for ships, trains, trucks and port terminals to align themselves in order to offer a standardized method of transport of goods



- 1956 cargo cost \$5.86 per ton to load



- 2018 cargo cost \$0.16 per ton to load

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Get on the education curve!

- Blockchain has arrived to insurance
- Latency period is shrinking
- Get on the education curve
 - Attend conferences
 - Read, read, read
 - Play with the technology within your firm and join a consortium (e.g. B3i)
 - Listen to thought leaders on Insureblocks & get our insights on this market



Insureblocks

- Cross industry and technology educational podcast
- Consultancy service:
 - Blockchain education
 - Identifying a business case and building a PoC / Prototype
 - Blockchain strategy

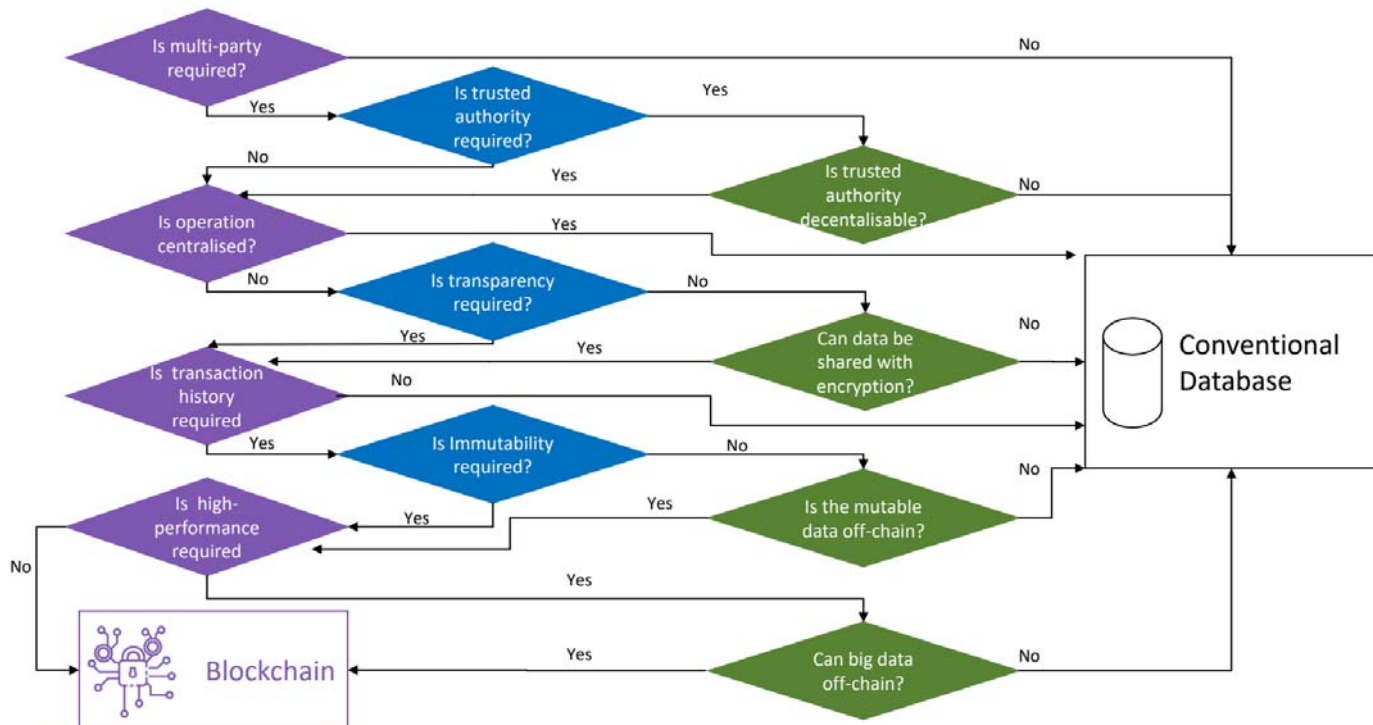
Contact Details

- [Insureblocks.com](https://insureblocks.com)
- Walid Al Saqqaf: walid@insureblocks.com

APPENDIX

Decision criteria – when to use blockchain technology?

Suitability Evaluation Framework; Lo, Xu, Chiam and Lu (2017)



Overcoming barriers – top tips! (1/3)



The power of networks and communities – collective action, sharing knowledge, ideas and selling the change with representation from all stakeholder groups



Community agreement on the need and potential for huge improvement to efficiency, quality and growth throughout the insurance value chains; the high-level “what” understood – deliver on this



People aspects are key focus on what needs to be improved and why
Technology is an enabler to improvements rather than the sole reason for change



Education, education, education
Why block chain? What it means? What helps the change?

Overcoming barriers – top tips! (2/3)



Generating buy-in from all stakeholder groups – a network needs participation from clients, brokers, insurers and reinsurers – not forgetting regulators ,TPAs, etc...



A solid business case is key:
What moves the needle for the policyholders, our company and the market?
With specifics (Growth, Quality, Efficiency)



Don't try to boil the ocean, pick tangible and valuable use cases



Deliver something that can be used and evaluated



- does not count

Overcoming barriers – top tips! (3/3)



Be clear on the regulatory/compliance issues/adherence
Work closely with regulators



Learn from the experiences of ACORD, Ruschlikon, etc.



Integration with existing technologies and standards vital – build on existing standards,
Make it easy for us to adopt



Standardisation is desirable, but it should not limit the ability to be flexible

