

# FinTech and the Traditional Insurer: Disruption or Distraction?

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Stephen J. Mildenhall

November 10, 2017



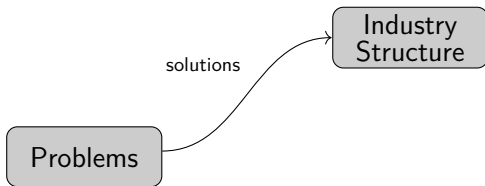
**ST. JOHN'S**  
UNIVERSITY

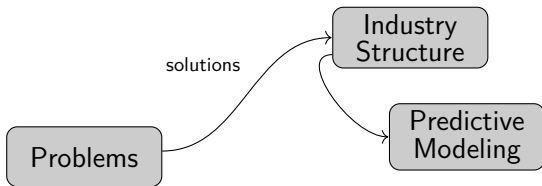
Tobin College of Business  
School of Risk Management

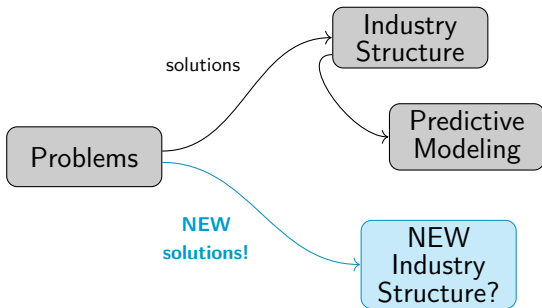
*The insurance industry is prime for disruption in its current state.*

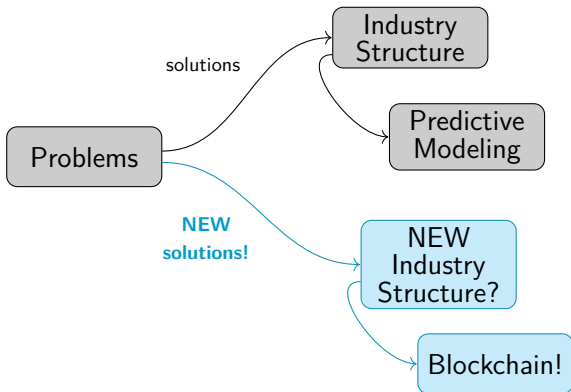
*Managing change is a mix of art and science, especially in an **antiquated** sector such as Insurance.*

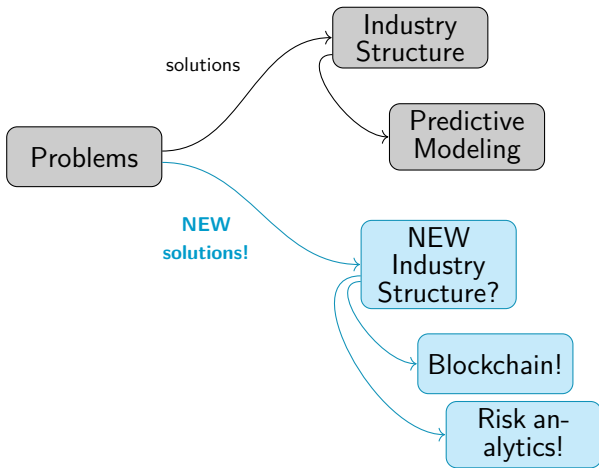
<https://hackernoon.com/tradable-insurance-on-the-blockchain-why-we-should-think-about-it-part-1-of-2-b4e3109cd148>











# Insurance: Strong but Stealth Innovation Track-Record

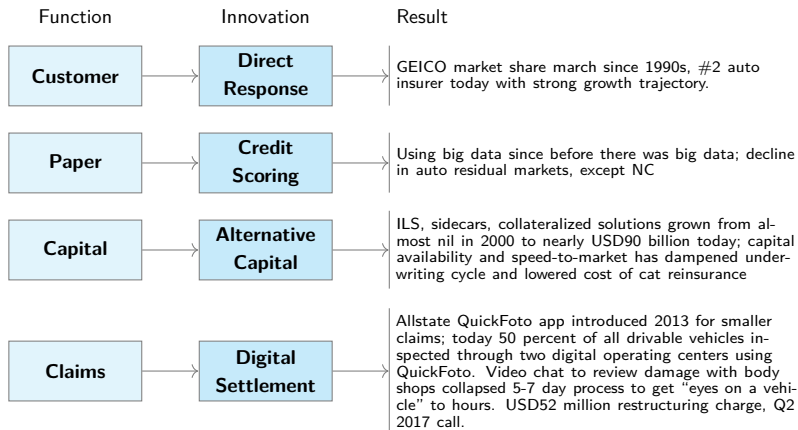
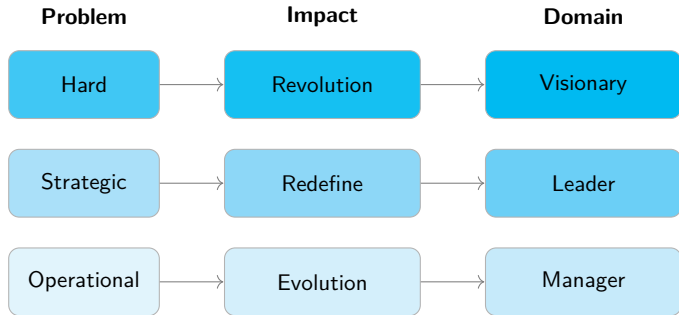


Figure 1: Insurance industry has a strong but stealth track-record of innovation!



# Hard Problem: Big Impact



# The Hard Problems of Insurance

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# Theoretical Model of Insurance

## If...

- we all **agree** on possible outcomes and their **probabilities**, and **if...**
- final states are known with certainty, **then...**
- there will be lots of risk trading **between** risk averse individuals
- The **mutuality principle**: everyone will **quota share** the **economy**
  - One decision variable: your participation percentage
  - Arrow, Debreu, Borch, 1960s

# Assumptions Do Not Hold...

## Ambiguity, uncertainty, opinions abound

- **Risk aversion** does cause agents to **share** risk, but...
- Behavioral economics and cognitive biases: framing, recency, zero-risk, status quo, optimism, outcome, illusion of control
- Ambiguity aversion: prefer bets with known probability distributions over ones where the probabilities are unknown
- **Ambiguity** provides an incentive to **bet** against each other, Tsanakas and Christofides (2006)

## Even if Assumptions Did Hold...

... insurance has a behavioral dimension

***The insurance policy might itself change incentives and therefore the probabilities upon which the insurance company has relied.***

*... it is clear that this principle explains the limitations of both insurance in particular and risk-shifting through the market in general.*

Insurance, Risk and Resource Allocation, Kenneth J. Arrow (1971). Emphasis in original.

# Hard Problems of Insurance

## Information, information, information

- What do I know?
- What do you know?
- Will you tell me?
- How will knowing it change behavior?

# Hard Problems of Insurance

## Information driven problems

- Adverse selection
  - Insured to insurer
  - Insurer to capital markets
- Moral hazard
  - Ex ante: before the event, less care
  - Ex post: after the event, less remediation, claim padding
- Fraud

# In Practice Management Preoccupied With Difficult Problems...

## ...but not **hard** information-related problems

- New market entrants
- Substitute products
- Buyer power
- Supplier power
- Competitors
- Growth
- IT
- Product differentiation
- Brand and image
- Business processes
- Efficiency
- Catastrophe risk
- Emerging risks
- ORSA & Regulation



# KYC and Insurance Buying Motivations

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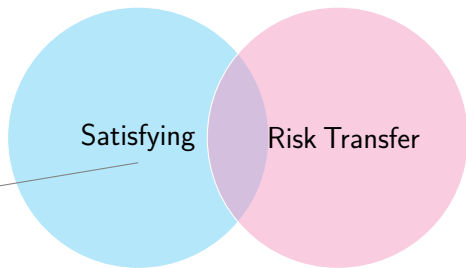


# KYC and Insurance Buying Motivations



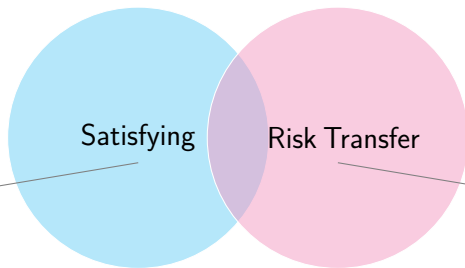
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- Term life insurance
- Cat re, outside rating agency PMLs
- High limit property per risk re

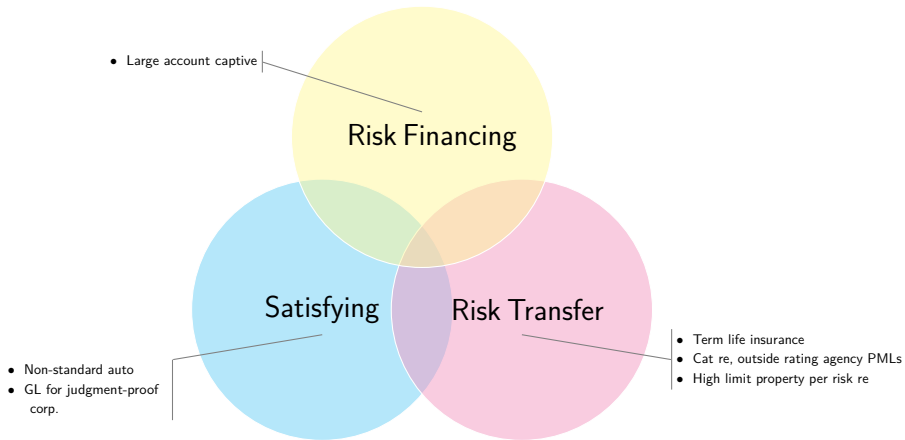
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# KYC and Insurance Buying Motivations



# KYC and Insurance Buying Motivations





# The Insurance Stack

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# Lemonade could collapse the Insurance stack #insurtech



### The current Insurance stack

The insurance industry works through a 3 layer stack:

- **Layer # 1: Brokers.** Their job is to gather premiums from customers.
- **Layer # 2: Insurance Companies.** Their primary job is claims processing. They take in premiums via brokers, invest the cash flow and pay out claims when needed.
- **Layer # 3: Reinsurance Companies.** They are the payers of last resort. They insure the insurance companies. Their job is to have enough capital to pay out claims, even if the models did not predict the volume of claims.

Figure 2: Tech view of insurance

# The Insurance Stack

CUSTOMER	PAPER	CAPITAL	CLAIMS
<ul style="list-style-type: none"><li>• Education</li><li>• Needs analysis</li><li>• Sales, marketing</li><li>• Origination</li><li>• Distribution</li><li>• Servicing</li><li>• Billing</li><li>• Loss control</li><li>• Engineering</li><li>• Risk management</li></ul>	<ul style="list-style-type: none"><li>• Pool management</li><li>• Solvency</li><li>• Capital structure</li><li>• Regulation</li><li>• Compliance</li><li>• Rating agency</li><li>• Product design</li><li>• Pricing</li><li>• Underwriting policy</li><li>• Line underwriting</li></ul>	<ul style="list-style-type: none"><li>• Guarantee solvency</li><li>• Liquidity</li><li>• Reinsurance</li><li>• ILS / Alternative</li><li>• Debt</li><li>• Hybrid</li><li>• Equity</li><li>• Frictional cost</li></ul>	<ul style="list-style-type: none"><li>• FNL</li><li>• Investigation</li><li>• Litigation</li><li>• SIU</li><li>• Fraud</li><li>• Loss control</li><li>• Bill review</li><li>• Payment</li><li>• Assistance</li></ul>

Figure 3: Four primary functions within the Insurance Stack

# The Insurance Stack

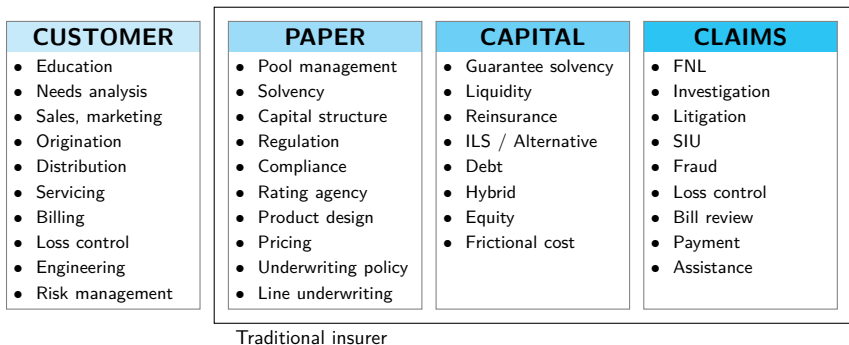


Figure 3: Four primary functions within the Insurance Stack

## Quantifying Value by Stack Function

Table 1: Average customer, paper, reinsurance and claim function expenses as a percent of direct earned premium, calendar years 2007-2016. 2016 direct earned premium USD599 billion. Combined expenses **USD245 billion** excluding cost of capital.

Line	Customer	Paper	Net Re	Claim	Combined
All Lines	0.187	0.084	0.023	0.115	0.409
Commercial Auto	0.205	0.095	0.005	0.118	0.424
Commercial Property	0.211	0.093	0.096	0.060	0.460
Other	0.182	0.093	0.043	0.045	0.362
Other Liability	0.203	0.086	0.019	0.204	0.512
Personal Property	0.211	0.070	0.056	0.089	0.426
Private Passenger Auto	0.167	0.076	-0.009	0.119	0.354
Workers' Compensation	0.167	0.105	0.006	0.136	0.414

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## Observations

- Stunningly high
- Stunningly stable



Figure 4: Reinsurance function expenses, calendar years 1996–2016. Non-proportional assumed reinsurance is included in Other.

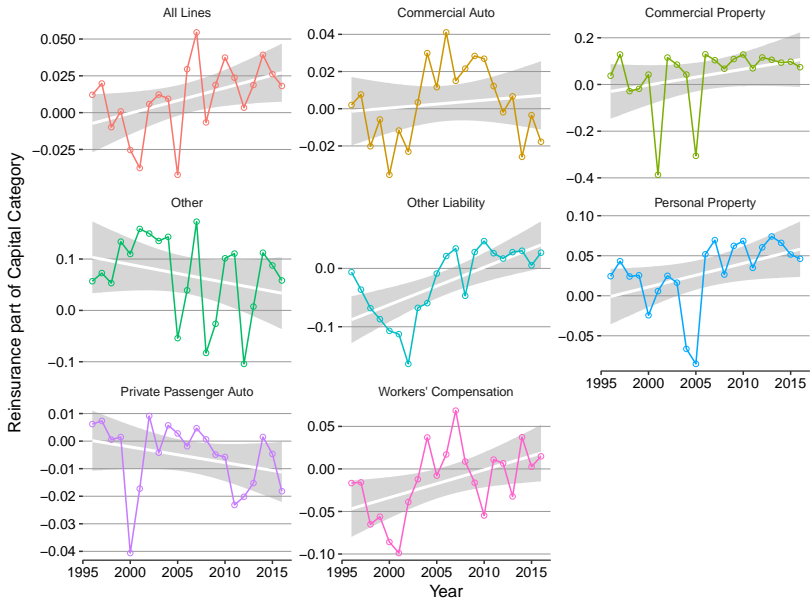


Figure 5: Reinsurance function expenses, separate scale by line, calendar years 1996-2016. Non-proportional assumed reinsurance is included in Other.



# Structural Implications for Paper

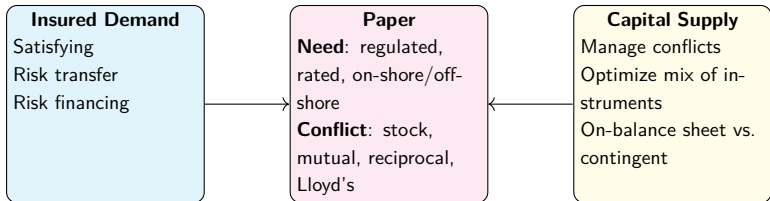


Figure 6: Insurance buying motivations and demand interact with Capital supply considerations within Paper function to determine form and organization.

# X-Tech Enabled Solutions

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Fin**Tech**, Insur**Tech**, **Financial**Tech Solutions

# FinTech, InsurTech, FinancialTech Solutions

## Hardware

- Mobile
- Cloud
- Internet of Things (IoT)
- Home sensors
- Auto telematics
- Drones, micro satellites
- Augmented reality (AR)
- Alexa

## Software

- Text analysis, semantics
- Voice recognition
- Chat bots, Siri, Alexa
- Image recognition
- Augmented reality
- Tensor Flow, Go
- Hadoop, MongoDo, Redis
- Python, R, Julia

## Algorithms

- Neural networks
- Deep learning
- Artificial intelligence (AI)
- Hash functions
- Cryptography
- Clustering
- Compressed sensing

## Data

- Big data
- Text, speech, image, video
- Behavioral data
- Social media
- Spending
- Credit
- Trading, financial data

# FinTech, InsurTech, FinancialTech Solutions

<b>Hardware</b> <ul style="list-style-type: none"><li>● Mobile</li><li>● Cloud</li><li>● Internet of Things (IoT)</li><li>● Home sensors</li><li>● Auto telematics</li><li>● Drones, micro satellites</li><li>● Augmented reality (AR)</li><li>● Alexa</li></ul>	<b>Software</b> <ul style="list-style-type: none"><li>● Text analysis, semantics</li><li>● Voice recognition</li><li>● Chat bots, Siri, Alexa</li><li>● Image recognition</li><li>● Augmented reality</li><li>● Tensor Flow, Go</li><li>● Hadoop, MongoDo, Redis</li><li>● Python, R, Julia</li></ul>	<b>Trust</b> <ul style="list-style-type: none"><li>● Blockchain</li><li>● No central authority</li><li>● Distributed, decentralized</li><li>● Peer-to-peer</li><li>● Public</li><li>● Anonymous</li><li>● Cryptography</li><li>● zk-SNARKs</li></ul>
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FinTech, InsurTech

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FinTech, InsurTech

# FinTech and InsurTech Narratives

# FinTech and InsurTech Narratives



Figure 7: Silicon Valley: comedy with a serious message.



# FinTech and InsurTech Narratives

## Better experience, simpler process, comparison, guides

- $\left\{ \begin{array}{l} \text{Mobile} \\ \text{Instant} \end{array} \right\}$  personalized expert  $\left\{ \begin{array}{l} \text{assistance} \quad \text{recommendations} \\ \text{education} \quad \text{advice} \end{array} \right\}$   
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- **Rethinking** the relationship between insurers and their customers and the ways in which they interact

# FinTech and InsurTech Narratives

## Online and mobile insurance and insurance markets places

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- **Redefining** how insurance is priced and delivered

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- **Online** { pool  
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cover each other } and have exclusive control
- If you **submit a claim** within your team, your teammates **pay it**

# FinTech and InsurTech Narratives

## New coverages and risk products

- { On-demand  
Micro-duration } insurance for your  
{ smart phone, camera laptop, tablet  
standalone car rental driving friend's car } entirely from your phone

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- Enable { bulk purchase } for { small groups }  
    { self-insurance }
- A **better way** to insure your gizmo

# FinTech and InsurTech Narratives

## Blockchain

- The vision is {   
 more insurance   
 less admin }
- Blockchain empowers {   
 immutable transactions   
 decentralised agreement } with audit history, **smart contracts**, high resilience and built in **fraud protection** mechanisms
- ... {   
 democratize access to   
 increase transparency of } reinsurance investments
- The market for insurance products broken into small **insure-bits**, each of which fundamentally represents an investment
- **Arrow** again!

# Blockchain

Blockchain can refer to a combination of one or more of

Figure 8: Bitcoin combines four separate functions and some magic.



# Blockchain

Blockchain can refer to a combination of one or more of



Chained  
**key-value**  
database

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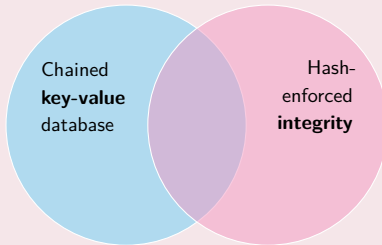


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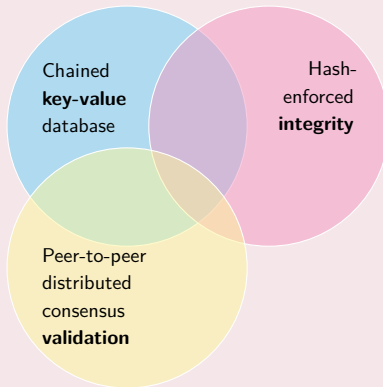


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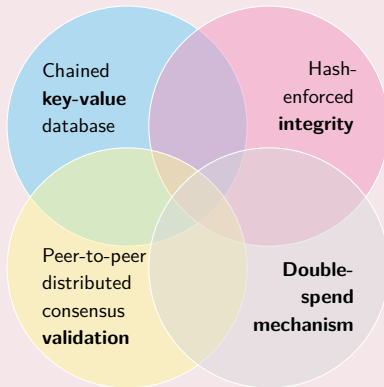


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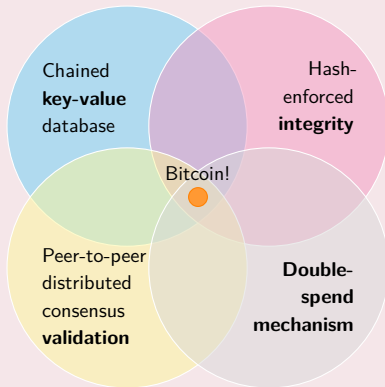


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# Blockchain: Bitcoin Mining Network



Figure 9: Racks of machines mining Bitcoins and Ether at a server farm in Guizhou, China, June 2017. Current hash rate estimated at **10 million trillion** SHA256 hashes per second! Over USD1.1 billion of electricity consumed annually, about the use of Ecuador. Sources: photo Gilles Sabrié for The New York Times, <https://blockchain.info/charts/hash-rate>, <https://digiconomist.net/bitcoin-energy-consumption>

# Blockchain: Finance and Insurance

## R3 and Corda, Chain; B3i, Blocksure, Etherisc, TeamBrella

- Blockchain incorporating some, but not necessarily all, components of Bitcoin network would enable efficiencies
  - Shared view of truth: not my copy vs. your copy, no reconciliation; hash integrity and validation ensures we all have identical databases
  - Database can be private
  - Validation can involve authorities or decentralized consensus mining
- Effectiveness requires a willingness to change processes and behaviors
  - One party can post a contract and the other signs it to finalize
  - Definitive language available to both parties. . . but they still have to do the work
- Blockchain:  $\left\{ \begin{array}{l} \text{a good tool to enable} \\ \text{won't magically enforce} \end{array} \right\}$  contract certainty

# Blockchain and the Future

## Zero knowledge proofs

- It is possible to **verify** information without **revealing** it: a **zero knowledge proof**
- Where's Waldo? with a mat
- Alibaba's Cave
- Distributed database of all private credit, health, behavioral data
  - One-time **read/verify-only** access
  - Read, **act** and **forget**, rather than read, act and **store**
  - User **cannot pass along** what they've learned
- No possibility of Equifax hack: data encrypted, you hold keys
- Central database of underwriting information: easier quotes
- Theoretic potential is huge: commercial model less clear



# FinTech and InsurTech Narratives: Lessons

## Within Sales and the Customer Function

- Simpler, faster, more engaging
- Game-ification, risk feedback
- Customizable: coverage, duration, location
- Perception: **serious distribution problems**

# FinTech and InsurTech Narratives: Lessons

## Within Trust $\subseteq$ Paper Function

- Current narrow thinking misses full potential: more than admin
- Industry actively engaged with Blockchain
- Need for education: there are magic ingredients
- At peak of Gartner innovation curve?

# FinTech and InsurTech Narratives: Lessons

## Within the Claims Function


- Less confrontational, on your side
- You or your team in control
- Algorithmic, deterministic, coverage certainty
- Perception: **serious willingness-to-pay problems**

# FinTech and InsurTech Narratives: Lessons

## Industry addresses claim payment meme


The image shows a screenshot of a Farmers Insurance website advertisement. At the top, the Farmers Insurance logo is on the left, and navigation links for 'Get a quote', 'Browse insurance', 'Find an agent', 'Claim services', 'Resources', and 'Login' are on the right. The main content area features a video player with a light blue car and a dog in the driver's seat. A white play button is centered over the video. To the left of the video is a text box with the following content:




**Chauffeur Terrier**  
Covered by Farmers® 2/23/16

 **Audio Tour**

They say you can't teach old dogs new tricks, but that didn't stop one from learning how to shift a car into gear after he was left alone briefly. Unfortunately for our dog driver, steering didn't come as naturally, and his journey quickly became a fender bender.

We've seen almost everything, so we know how to cover almost anything<sup>SM</sup>.

 **Are you covered for this?**

Share:   

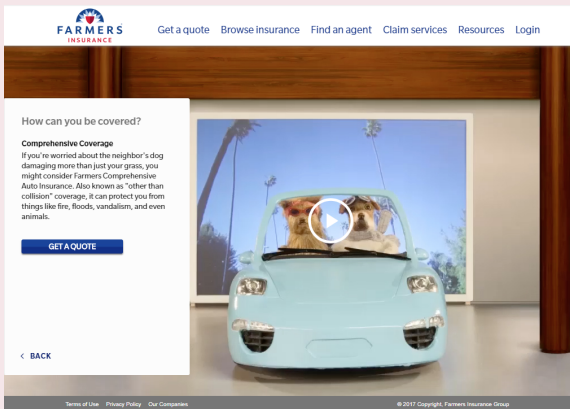
At the bottom of the page, there are links for 'Terms of Use', 'Privacy Policy', and 'Our Companies', and a copyright notice: '© 2017 Copyright, Farmers Insurance Group'.

Figure 10: Farmers Insurance ad promoting claims paying.

<https://www.farmers.com/hall-of-claims>

# FinTech and InsurTech Narratives: Lessons

## Industry addresses claim payment meme



The screenshot shows the Farmers Insurance website. At the top, the Farmers Insurance logo is on the left, and navigation links for "Get a quote", "Browse insurance", "Find an agent", "Claim services", "Resources", and "Login" are on the right. The main content area features a video player with a play button in the center. The video shows a light blue car with a dog sitting in the driver's seat. To the left of the video is a text box with the heading "How can you be covered?" and a sub-heading "Comprehensive Coverage". The text explains that this coverage, also known as "other than collision" coverage, protects against damage from things like fire, floods, vandalism, and even animals. Below the text is a blue "GET A QUOTE" button. At the bottom left of the text box is a "< BACK" link. At the bottom of the page, there are links for "Terms of Use", "Privacy Policy", and "Our Companies", along with a copyright notice: "© 2017 Copyright, Farmers Insurance Group".

How can you be covered?

**Comprehensive Coverage**

If you're worried about the neighbor's dog damaging more than just your grass, you might consider Farmers Comprehensive Auto Insurance. Also known as "other than collision" coverage, it can protect you from things like fire, floods, vandalism, and even animals.

[GET A QUOTE](#)

[< BACK](#)

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Figure 11: Farmers Insurance ad, coverage explanation and education.  
<https://www.farmers.com/hall-of-claims>

# FinTech and InsurTech Narratives: Lessons

## Good news for incumbents

- **New product ideas have limited scale**
  - No one is going after auto!
  - Phone, camera, renters
  - JIT-insurance
- Beware: disruption starts at low end
- Driverless cars will take care of auto in due course. . .

# FinTech and InsurTech Narratives: Lessons

## Bad news for incumbents

- **New product ideas have limited scale**
  - No strong grow-the-pie concepts
  - Particularly weak in mature markets
- **Stealing market share**, e.g. granular underwriting, auto telematics, can be very **effective** and **disruptive** to slow-reacting incumbents
  - UK motor has seen disruptive change since mid-1980s
  - US auto more gradual ascent of GEICO
- Though **traditional insurer** structure will persist, **specific** traditional insurers need not!
- Recommend **vigorous engagement** with FinTech