

Changing Paradigm in Life Insurance

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Back to the Future

How the World Has Changed!!!

1986Music on Albums and CDs

- Movies on VHS or Beta
- Dozens of TV Channel Choices
- On Cable & Antenna
- Travel Agents
- AAA Triptik
- Banking in branches

2016

- Music on iTunes and Spotify
- Movies Netflix and iTunes
- Thousands of TV Choices On
- Satellite, YouTube, Amazon, etc.
- Expedia
- Google Maps
- Banking online

Yet buying life insurance hasn't meaningfully changed in 30 years...

Evolution in Life Insurance

... is somewhat very slow

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Life Assured Information Do you have, or have you ever had, trouble with or disorders of: 4.1. Your heart or circulation (e.g. blood pressure, chest pains, heart murmur, palpitations, rheumatic fever, stroke)? YC 4.2. Your lungs (e.g. persistent cough, shortness of breath, tuberculosis, asthma, bronchitis)? YV 4.3. Your digestive system or liver (e.g. recurrent indigestion, ulcers, bleeding from the bowel, hepatitis, gallstones)? **1** N 4.4. Your kidneys, bladder or reproductive organs (e.g. stones, infections, bilhartzia, prostate problems)? 4.5. Your nervous system (e.g. concussion, paralysis, fits, blackouts, depression, anxiety, persistent headaches)? YU 4.6. Your eyes (excluding errors of refraction), ears, nose or throat (e.g. dealness, ear discharge)? Y 🗠 4.7. Your skeleton joints or muscles (e.g. neumatism, arthritis, back or neck trouble, gout)? MIN 4.8. Your glands or blood (e.g. dlabetes, thyroid, spleen, bleeding disorder, leukaemia)? 20 4.9. Growths (e.g. cancer or tumour of any kind)? Y 64 4.10. Have you sought medical advice during the past five years in connection with any symptom or condition, or been a patient in a hospital or rursing home or undergone any medical examination (including ECG, X-ray examination or specialised laboratory tests) not mentioned above? 4.11. Are you taking, or have you ever taken drugs, tranquillisers or any other medicines in any form for a continuous period of more than two weeks? UN 4.12. Have you ever been tested for or received medical advice, counselling or treatment in connection with AIDS, or any infection by one of the AIDS viruses, or any sexually transmitted disease (e.g. hepatitis B, gonorrhoea, syphilis or any venereal disease)? 11 4.13. Has any proposal for life, sickness, accident or disability assurance on your life ever been declined, deferred, withdrawn or accepted at special terms or on special rates? MN 4.14. Are you aware of any other health or other factors (past or present), which may influence the risk attached to this policy? If you answered yes to any of the above, supply full details below Nature & Duration Outstion Name & Address of Date of Date

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Signature of Applicant

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Page 4 of 7

Change is Finally Arriving!

More Change in the Past 18 Months Than the Prior 10 Years

New Data and Models

- Focus on Predictive Analytics
- LexisNexis, etc.
- **Focus on Accelerated Underwriting**
- Not just for specific products
- But as part of underwriting process in general

Underwriting Triage

- Different underwriting paths based upon risk profile
- Puts predictive models & automated underwriting to work

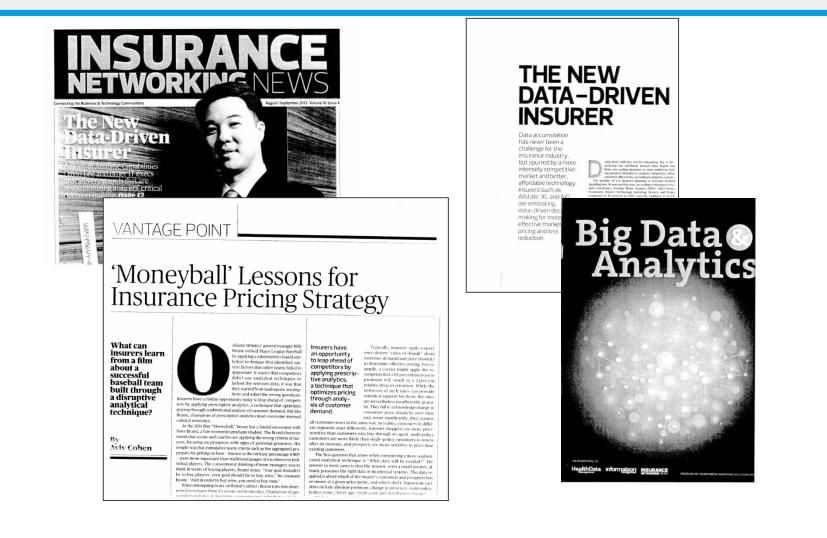
Increasing Focus on Lifestyle

- Including bringing in data streams from wearables, etc.
- AIA Vitality

FinTech Interest in Life Insurance Space

- Disruption coming especially to distribution
- Opens doors for new approaches

Big Data, Data Mining, and Predictive Modeling Made possible upgrades in Accelerated Underwriting



- LexisNexis (LN) developed a predictive model that uses FCRA data to estimate relative mortality risk
- Model produces a score from 200-997 with low scores=higher mortality
- Key attributes of model include:

Public records (felony, criminal, derogatory records, court filings, etc.)

Lifestyle (property ownership, home value, wealth index, professional licenses, etc.) Behavioural (credit, bankruptcies, foreclosure, eviction, motor vehicle record*, etc.)

Not using consumer data (magazine subscriptions, credentials, etc.)

Dataset

Includes over 4.5 million records representing 'P&C insurance shoppers'

• LN appended FCRA data and calculated a mortality score for each record

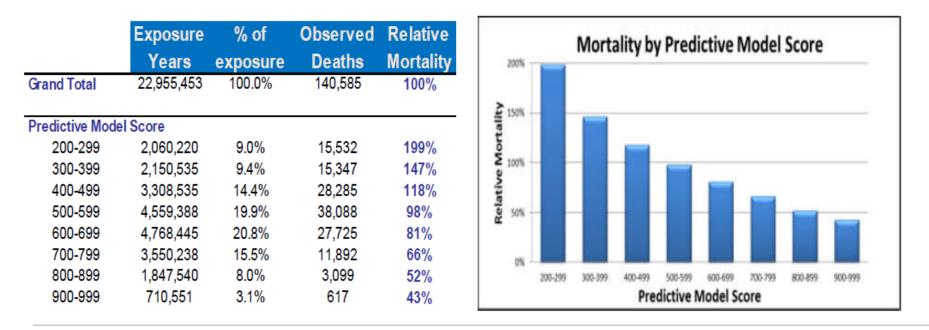
Initial records October 2006 followed through first half of 2013

- More than 140,000 deaths
- Mortality analysed relative to US population mortality, then adjusted to baseline referent to reflect relative risk

The high level results of the analysis on the predictive model score were as expected

Higher Scores = Lower Mortality

But we also wanted to understand those relationships at a more granular level to feel comfortable that the model wouldn't "break down"



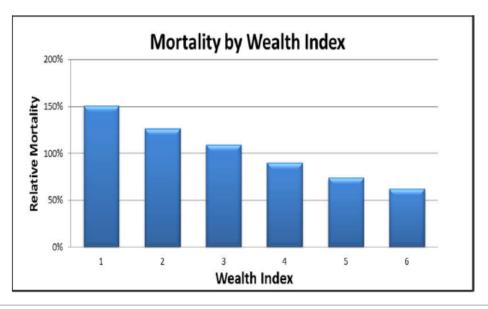
For example, we know that mortality and wealth tend to be inversely correlated

Higher Wealth = Lower Mortality

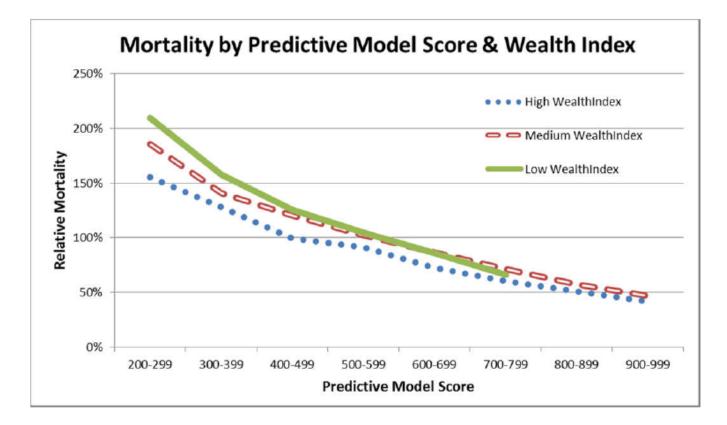
But wealth is also correlated with smoker prevalence, obesity, etc...

...so we wanted to be able to see that the predictive model score "worked" even when controlling for wealth

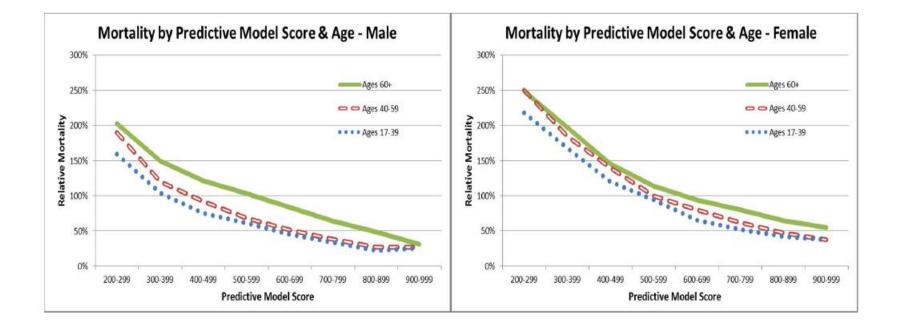
	Exposure Years	% of	Observed Deaths	Relative Mortality
Wealth Index	Tears	exposure	Deaths	wortanty
1	420,505	1.8%	2,291	4540/
1				151%
2	1,279,506	5.6%	11,664	126%
3	3,503,437	15.3%	22,398	109%
4	3,867,085	16.8%	22,032	90%
5	2,755,533	12.0%	13,753	74%
6	684,466	3.0%	3,095	62%
Unknown	10,444,922	45.5%	65,352	107%



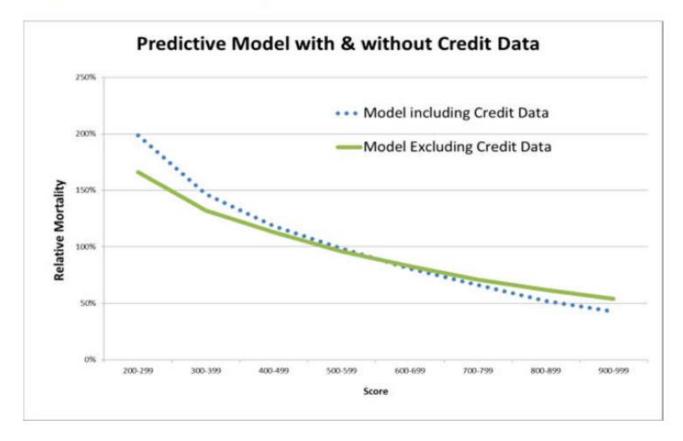
The predictive model score shows a strong relationship with mortality, even when holding wealth constant



The shape of the curve is consistent by age group and gender, suggesting it does not break down at this level of granularity



- Predictive model score has predictive value even without using credit data
 - So score w/o credit could be used in states where credit data not allowed for life UW
- Credit data provides additional predictive value to score (i.e., steeper slope)



A/E relative to 2008 VBT S&U table

	←					Risk strati based ma medica	inly on
	PM Score Range	Total	All Risk Classes Excludes Declines	Preferred Plus & Preferred	Standard Plus & Standard	Tobacco	Declines
٨	200-299	219%	166%	138%	184%	171%	371%
	300-399	142%	118%	105%	116%	144%	280%
Risk stratification	400-499	107%	93%	77%	104%	107%	233%
based on non-medical info	on 500-599 89% 80% 67% 85%	85%	98%	195%			
non-medical mo	600-699	75%	67%	57%	72%	86%	169%
	700-799	71%	64%	55%	69%	78%	183%
♦ 800-899 65% 57% 46	46%	65%	73%	192%			
	900-997 57% 51% 45% 62	62%	26%	202%			
	Total	95%	82%	68%	86%	105%	229%
	# of deaths	11,983	9,326	3,161	4,346	1,1819	2,657

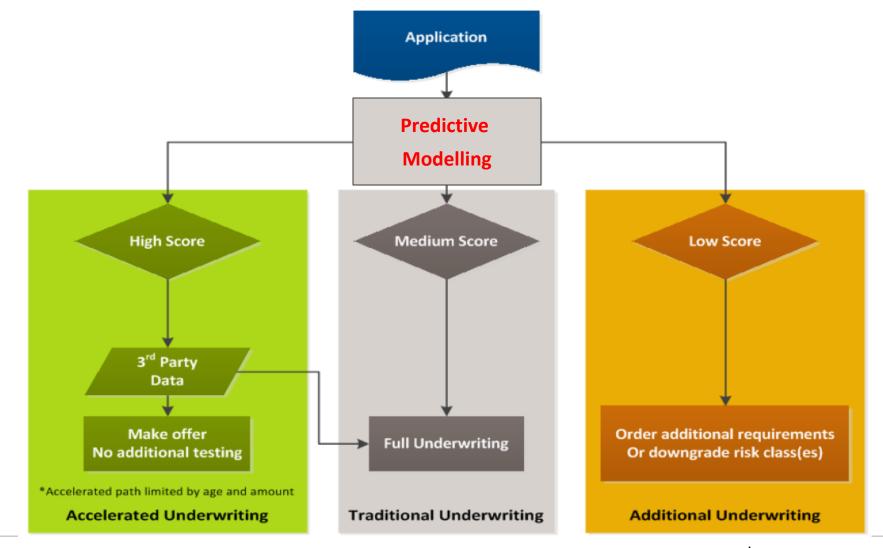
Results are consistent by duration suggesting the LN model provides insight into the level of ultimate mortality (vs. an impact that wears off over time)



Score Performance by Duration

Accelerated Underwriting

Illustrative Process Diagram



New Third Party Data sources for underwriting

To further augment accelerated underwriting

Electronic health records

>Genetics

Wearable technology



Wearable computing/technology Definition

- *"Miniature electronic devices that are worn under, with or on top of clothing" Wikipedia*
- ▶ Alan Turing (1912 1954) is generally considered to be the father of modern computer :
 - « On Computable Numbers » published in 1936
 - Excellent film : Imitation Game







Wearable Technology

The imagination is the limit



Wearable Technology

Health trackers

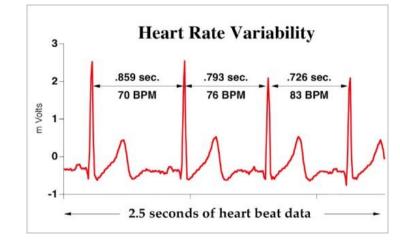
- Get live biofeedback and abnormal values.
- ► Two interesting variables for predicting mortality are :
 - Glucose level
 - Heart rate variability

By MARK SCOTT JULY 15, 2014



The lab known for self-driving cars is making a contact lens to measure glucose in tears. Google, via Agence France-Presse — Getty Images

LONDON — Google announced on Tuesday <u>a partnership</u> with the European drug maker Novartis to develop a smart contact lens with the potential to monitor the wearer's blood sugar levels.



Would allow better underwriting and better pricing

Prevention / personal advices could benefit both the insured and the insurer

Wearable Technology

Vitality members ...

Vitality : Being and becoming healthy, a modern lifestyle

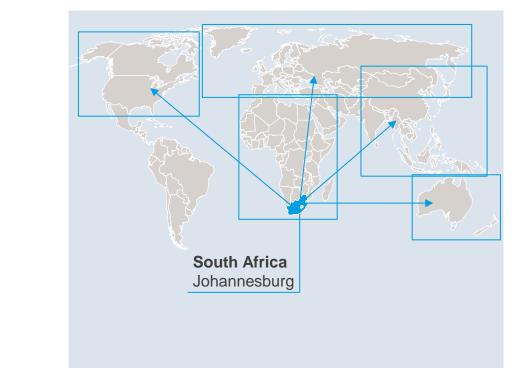
Incentivise members to improve quality of life and to reduce long-term medical costs

enjoy the rewards

. improve their health

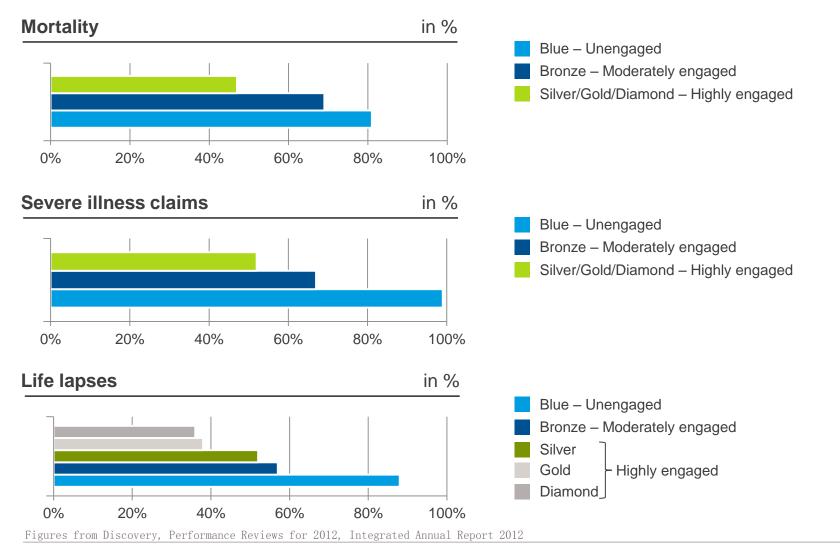
. know their health

The world's largest scientific incentive-based wellness program



Engage clients to actively manage & improve their health

Wearable Technology Vitality : Impact on mortality, critical illness, lapses



Wearable Technology Vitality : Active reward program

HOW IT WORKS



Get Apple Watch

Employees can order Apple Watch through Vitality for an activation fee of \$25 plus tax. The amount they pay for their Apple Watch thereafter is based on the number of workouts they complete in a calendar month.



Get Active

Apple Watch will help your employees achieve their weekly Vitality Active Rewards targets by measuring daily activity, allowing them to earn Vitality Points on the Vitality Today app.



Get Rewarded

Employees who achieve their fitness targets will fund their Apple Watch.

Monitor Applicants Activities will it gain acceptance?

Ask the Readers: Would you let your insurance company monitor your driving for a discount?

by Ellen Cannon

(L) Modified on February 10th, 2016

104 Comments

Privacy is a big issue for people these days, what with every website able to see where you go, what you're searching for and serve up ads. With the NSA looking at emails and phone calls from regular folks, the issue is bigger than ever. But would you elect to be monitored if it would save you money?

You've probably seen the commercials for Progressive insurance's Snapshot pay-as-you-drive device. State Farm has a similar program called <u>In-Drive</u>. If you opt for these programs to save money on your car insurance, you have to remember that it also means your car insurance company is tracking you.

Among the driving habits that Progressive's Snapshot monitors are how hard you apply the brakes, how many miles you drive each day and what time of day you drive (if you drive a lot from midnight to 4 a.m., that will be recorded).

<u>Some insurance companies will monitor your home</u>. United Services Automobile Association (USAA) has a patent for a device that will allow the insurance company to look at what goes on inside your house. The technology would monitor hot spots to find potential electrical problems, cold spots to detect lack of insulation and moisture and mold problems. Industry folks say this kind of monitoring will allow insurance companies to better manage their risk; consumer advocates say there is no benefit to homeowners unless they get a discount. At this point, home monitoring has not been implemented.

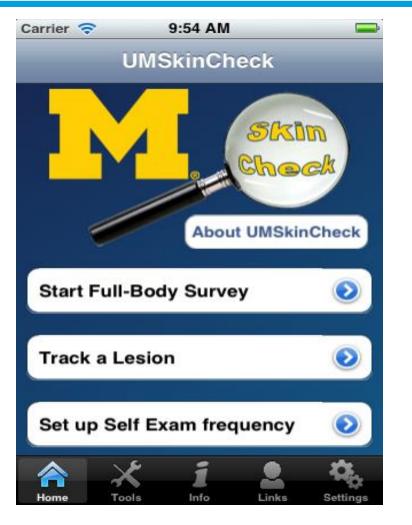
But monitoring driving habits to get a discount is growing and gaining acceptance. A <u>survey done by</u> <u>CarInsurance.com</u> earlier this year found that 39 percent of the participants would install a data-monitoring device in their car if they got a discount. (Sixty-four percent of survey participants also said they would let an insurance company install a breathalyzer in their car.)

So, readers, would you allow an insurance company to monitor your car? If you use a car-monitoring device, what kind of savings do you see on your premium?

GRS is committed to helping our readers save and achieve their financial goals. Savings interest rates may be low, but that is all the more reason to shop for the best rate. Find the highest <u>savings interest rates</u> and <u>CD</u> rates from <u>Synchrony Bank</u>, <u>Ally Bank</u>, <u>GE Capital Bank</u>, and more.

Technology is tipping the balance of knowledge It Will Impact Underwriting





Technology may even replace humans Artificial Intelligence

- "Artificial intelligence (AI) is the intelligence exhibited by machines or software" Wikipedia
- Currently in our every day life
 - Amazon, Spotify, Netflix...recognizing patterns
 - IBM Watson, Alpha Go....better than humans
 - Siri...helping humans
- Rise of the machine they
 - Listen, See, Read, Write all without instructions



Artificial Intelligence Here is now!





Artificial intelligence Application to the insurance industry



WellPoint, Inc.



IBM Watson enables more effective healthcare preapproval decisions using evidence-based learning



Artificial intelligence

Future application to the insurance industry

- Predictive analytics and deep machine learning (Other possibilities)
 - Sales \rightarrow individual needs assessment
 - Individual life expectancies
 - Claims assessment \rightarrow voice recognition to assess honesty

The Road Ahead

Increasing Underwriting Agility

- Not the same process of everyone
- Deal with having different types of information for different applicants
- Demands some degree of automation

Data Elements Will Change – Not Just How We Access Them

- Some historical UW data elements will continue
- But some will stop being utilized
- New data elements and metrics will replace them
- Will require a great deal of R&D and analysis

No One Company Can "Do it All"

- · Partnerships and alliances will increase in importance
- Data is a valuable currency

Products and Ratings Will Evolve

- Movement from discrete rate classes to a continuum
- Not locked into initial assessment based upon a point in time
- Health and lifestyle over time will drive product performance

A Recap!

- 1. Do you think that Predictive Modelling will have a place in your market?
- 2. Wearable technology fad or fashion?
- 3. AI Will machines really take over?
- 4. How will the role of the underwriter/actuaries change in the future?

Fintech encroachment into Insurance It's only just begun

Insurance Tech Insights	Subscribe to the insurance tech newsletter:	
	Your business email Subscribe	
Insurance Tech		

JANUARY 19, 2016

8 Insurance Tech Startups That Are Planning To Launch in 2016





Fintech encroaches into Insurance New Distributions

4. Ladder Financial

Innovation belongs in every industry, even life insurance. It's time for something new.

Ladder. The smart, simple way to insure your life.

Your full name	
Email address	
GET EARLY ACCESS	
Already have access?	

What they do:

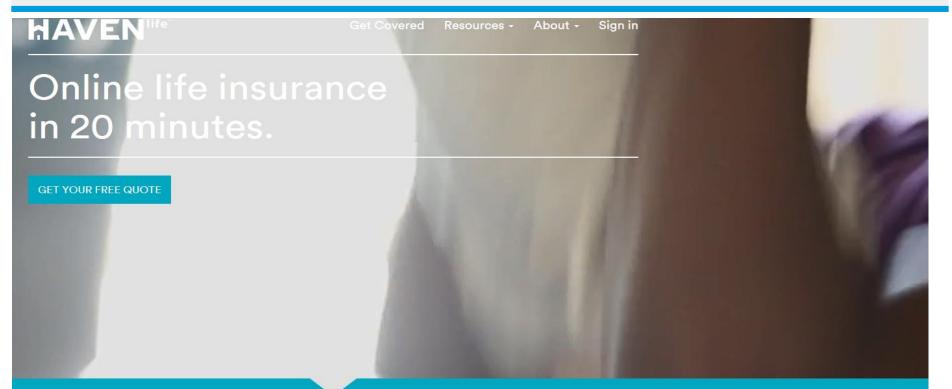
- Ladder is a stealth life insurance tech startup.
- Ladder's founding team includes Jamie Hale, previously a founding partner at specialized PE firm Aldenwood Capital, former Issuu chief revenue officer Jeff Merkel, and former Dropbox engineer Jack Dubie.

Location: Menlo Park, CA

Total Funding: \$2.05M, Seed VC

Select Investors: Lightspeed Venture Partners, 8 Partners, NYCA Partners, Barney Schauble

Fintech encroaches into Insurance New Distributions



A new way to get life insurance



1. Calculate how much insurance you really need

Ī

2. Apply in under 20 minutes

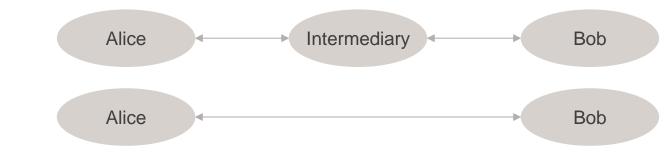


 Start your coverage right away[†]



Bitcoin in Insurance? Blockchain

- "Blockchain is a distributed database that maintains a continuously-growing list of data records hardened against tampering and revision" – Wikipedia
- Bitcoin
 - Invented by Satoshi Nakamoto in 2008
 - Peer to peer payment system



- Bitcoin advantages
 - Decentralized (no counterparty risk)
 - Transactions almost instantaneous
 - Transactions almost free

Blockchain Introduction

It is no longer something reserved to geeks or drugs addict :



- Major banks are working on this technology : in September 2015, 9 financial companies (Barclay, JPM, UBS, GS,...) created a consortium (R3) to work on it.
- Today 42 financial institutions have signed up

Blockchain in Insurance Possible Application - Micro-Insurance

- The cost of a bitcoin transaction is less than 0.10\$
- You just need a smartphone
- ▶ 3 billions adults are unbanked according to the world bank

Micro-insurance could be a use case

For example if you want a \$100 death cover, a possible scenario could be :

- Take a picture of your ID
- Send \$5 with your smartphone
- Your family take a picture of the death certificate
- Your family receives the money on your phone

Blockchain in Insurance

Possible Application - Smart contract

- Traditional contracts can be confusing, you often need the help of lawyers, it takes time and it costs money
- ▶ What if there was an automatic way to deal with this ?
- Smart contracts are basically contracts written like if they were a computer program : "IF policyHolder == dead THEN makePayment = 1 ELSE ..."
- No ambiguities, and because funds are locked in the blockchain, you are sure to be paid if the smart contract is executed
- Probably what most people have in mind when they are talking about the blockchain technology and insurance
- Other applications of smart contracts may include financial instruments such as bonds, shares, derivatives

What an insurance smart contract may look like :

Let's consider a temporary death cover.

- 1. The policy holder and the insurer agree on the terms and write the associated smart contract in the blockchain
- 2. The policy holder « sends the premiums to the smart contract ». The funds are locked in the blockchain
- 3. The insurer « sends the death benefit to the smart contract ». The funds are locked in the blockchain
- 4. The smart contract sends the premium to the insurer
- 5. The smart contract automatically check if the policy holder is dead (assuming there is a way to do it).
- 6. If the policy holder is dead, the smart contract sends the death benefit to his family
- 7. If not the death benefit is sent back to the insurer.
- No counter party risk for the policy holder
- Once the contract is created the insured doesn't have to manage it

Blockchain in Insurance Possible Application - Claims Management

Example: Claims handling

What are the current bottlenecks or issues?

For customers, insurance contracts are typically complex and difficult to understand because of the legal language used. In addition, when accidents or crimes happen, customers can often be faced with a complex and drawnout claims process.

From the insurer's perspective, the industry is facing ever-tighter regulation and a growing threat from fraud – whether from small-claims fraud by individuals or more serious and organised fraud spanning multiple insurers in the industry. The Insurance Fraud Bureau (IFB) is a not-forprofit body set up to tackle organised crime affecting the UK general insurance industry. In a typical motor insurance scam, for example, drivers deliberately stage or cause an accident or even pretend to have had an accident, and claims are then made by the various criminals involved. These so-called 'crash for cash' scams cost the industry around £400 million a year.⁴ Where claims are made against multiple policies held by different insurers, it becomes difficult to detect the fraud unless cross-industry data is shared.

How the blockchain could help

Smart contracts powered by a blockchain could provide customers and insurers with the means to manage claims in a transparent, responsive and irrefutable manner. Contracts and claims could be recorded onto a blockchain and validated by the network, ensuring only valid claims are paid. For example, the blockchain would reject multiple claims for one accident because the network would know that a claim had already been made. Smart contracts would also enforce the claims – for instance, triggering payments automatically when certain conditions are met (and validated).

Everledger, for example, uses the blockchain to create a distributed ledger that records details of precious stones like diamonds.³ This ledger allows insurers (as well as potential purchasers) to check the history of any individual stone, including previous claims that have been made, helping insurers prevent, detect and counter fraud.

* Excerpts from Deloitte's article on blockchain application in Insurance

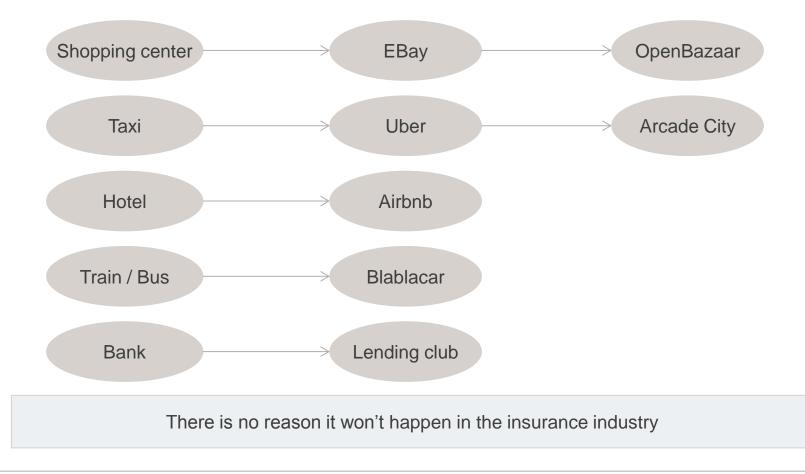
Blockchain in Insurance

Putting everything together!



Peer to Peer insurance Definition

- Peer to peer concept was popularized with file sharing systems such as Napster
- Mostly an IT concept but has real world consequences / applications :



Peer to Peer Insurance It is already here and surviving!



"

Look at Friendsurance. That's the perfect example of a social insurance company.

Randi Zuckerberg, sister of Facebook founder Marc Zuckerberg

Peer to Peer insurance More and more joining the bandwagon

- Guevara UK Guevara pools friends & trusted acquintances or adds users to existing groups of 5 or more for car insurance. Premiums of those members then go toward covering the group, with future discounts given to those with low claims.
- InsPeer France allows users to form small groups of family members with exposure limited to €100 pledged to cover claims for any one user, and €1,500 across the platform to reduce auto, motorcycle, and homeowners insurance premiums. InsPeer takes a 10% cut from each claim paid.
- PeerCover New Zealand allows users to join or create a group and pay a fee upfront. If claims are judged to be fair by the peer group, users can receive up to 3 times the users' balance to cover their claims.
- Bought By Many UK works with insurers to develop policies and negotiate discounts for users with longtail insurance needs (e.g. pet insurance for rescue dogs, health insurance for cyclists) and earns money through commissions. It had over 118,000 members at the end of 2015.
- Uvamo Chicago Founded by Lending Club alums, Uvamo is a stealth marketplace startup, which claims to be "bringing the P2P marketplace model to insurance."
- ▶ vPeersMutual Protection China claims to be "redefining mutual insurance" in China.
- Lemonade New York Lemonade plans to launch as an online P&C insurance carrier built around a yet-to-be announced P2P business model. Lemonade has applied to be a licensed carrier in New York. Carrier \$13M seed from Sequoia Capital & Aleph

Peer to Peer insurance Not just more but also more complicated



Summary:

- Alignment of interests: Regular insurance companies and policyholders have conflict of interests. We propose a peer-to-peer insurance organization devoid of this issue.
- Teams: Anyone can create a new team. Existing members decide who they want in their team.
- Voting: Everything in a team is decided via voting. The weight of a teammate's vote depends on premiums she has paid.
- Liquid Democracy: Teammates can delegate their votes to proxies. Those who do vote receive a reward so they can do this professonally.
- **Risk Coefficients**: Each teammate is assigned a risk coefficient by the team via discussion and voting.

- Fair P2P Coverage : If two teammates have same risk coefficients they cover each other for the same amount. If one is less risky, e.g. a good driver, she gets more coverage from the other.
- Distributed Wallets: A multi-sig wallet controlled by the owner AND 3 out of 8 his teammates. Wallet owner can veto any transaction. He is allowed to withdraw funds provided all outstanding premiums can be paid out. We coordinate payments but it's teammates who really make them.
- **Protection**: Our open-souce client software allows teammates to collectively withdraw their funds if the server is compromized/shutdown.

Peer to Peer insurance

It just gets more complicated

 Teambrella is aiming to create such a system using bitcoin properties (multi-signatures transactions)

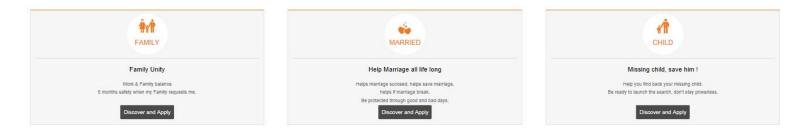
- People pool together (friends, friends of friends, colleagues) in a team
- If someone has a claim, the pool votes to decide if it should be reimbursed
- No predifined rules, each pool is free to be managed as its members want

Peer to Peer Insurance Extending to somewhat different offering! Not seen insurance!



Our Products

PROTECT YOUR LIFE THROUGH ITS MOST CRITICAL MOMENTS !



5 REASONS WHY TO USE TONGJUBAO AND PEER 2 PEER RISK SHARING ?

Peer to peer insurance Actually nothing new!

- Origin of insurance : similar people facing a same risk pool together to spread it
- « I pay a lot for my insurance and when I do not claim I don't get anything »
- But isn't P2P just mutual insurance?

What about P2P reinsurance?

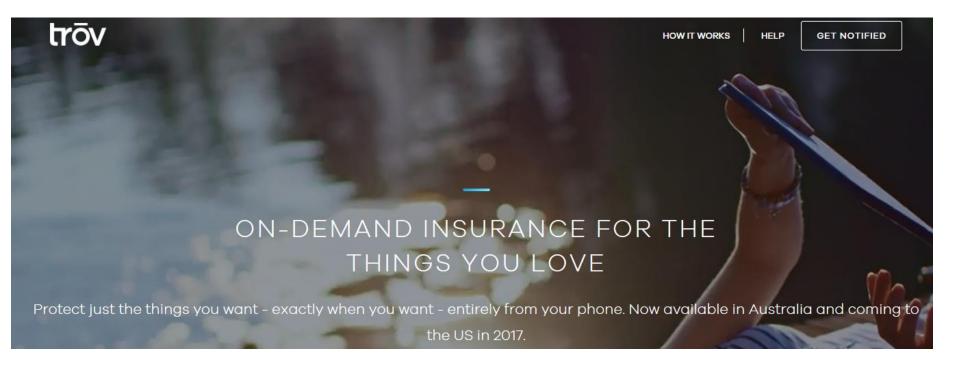
Pass the risk, or part of it, to private investors (Interest for the investor : new class of uncorrelated asset)

It's coming for the insurance industry : Ledger Investing just as in the lending sector

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Overview Browse Contracts Note:	s Automated Investing Orde	ers History Transfer				
Browse Contracts Explore						
Notes: 2	Amount: \$200 Average return: 4.88%			Review C	rder → 🕅	
	Cash left: \$99,700.00				199 contracts she	owinį
Filter Reset Update	SELECT	GRADE	AMOUNT	PROGRESS	DETAILS	
GRADE	\$100 🖈 🛛 Add	A 1.82%	\$95,400	58.8%	View	• III
	\$100 🖈 🛛 🗚	A 4.89%	\$85,200	68.3%	View	
D E F	\$100 🖈 🛛 Add	A 4.75%	\$87,660	86.7%	View	
	\$100 🖹 🛛 Add	B 5.27%	\$79,020	48.0%	View	
AMOUNT	\$100 🗮 🛛 Add	F 11.52%	\$58,560	28.4%	View	
\$ 36,120 \$ 96,000	\$100 🖈 🛛 Add	C 7.25%	\$57,480	31.9%	View	
	\$100 🚔 🛛 Add	F 12.09%	\$55,800	42.4%	View	

Changes are boundless

1st pay as you use insurance has started



What's next? Pick and choose which critical illness to cover, select different coverage period for different conditions

Don't expect Governments to keep us safe! from the disruptors!

FIRST there was UBER



SINGAPORE FINTECH FESTIVAL



Industry Problem Statements





MAS

Monetary Authority of Singapore

CONSULTATION PAPER

P005 - 2016 6 June 2016

FinTech Regulatory Sandbox

Guidelines



Version 2016.06.01

Even your somewhat different reinsurer

Is encouraging "self disruption"



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Never heard of reinsurance? No problem!

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Berlin, Boston, Dublin and Johannesburg.

BUT.....



Whether any of these "modern" changes worked or how successful they will be actually depends on an age old science



Maraming salamat sa 'yo

