

# Actuaries: Disrupt Yourself or be Disrupted

Annette King, FIAA, FAICD







## **Disruption**

Happens at an industry level, individual Company level, and Personal level





## **Disruption**

01

There are overserved or underserved customers 02

Incumbents are willing to concede segments to new entrants

03

New entrants could deliver a better service at a lower cost than incumbents

04

Existing sales channels are expensive and have limited reach

Adapted from Clayton Christensen





# The opportunity



## Emerging middle class segments

Developing Markets



#### Millenniallyminded people

Mature Markets



# Industry pain

#### INCUMBENTS STRUGGLE TO ADDRESS THIS OPPORTUNITY



**Product Challenges** 



Legacy Systems



Business Process Challenges



Incomplete Client Experience



#### Joint Seminar 2018

# Traditional Barriers to Entry are Failing

CAPITAL REQUIREMENTS



- VC appetite for insurtech and wealthtech investments
- Reinsurers' evolving role

COMPLEXITY AND EXPENSE OF REGULATORY COMPLIANCE



- Regulatory sandboxes
- Regtech
- Open API regulations

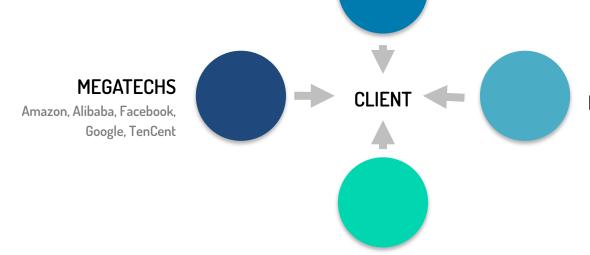




## Disruption Threats

#### **NEW ENTRANTS**

Lemonade, Trov, Sherpa, Friendsurance, Picnic, Coverhero



#### **INCUMBENTS**

#### INSURTECHS / WEALTHTECHS

Galileo Platforms, Blue Zebra, Claim Central, Clara Acorns, Spaceship, OnTrack, FNZ





### **Innovation Sandboxes**





## Disruption is Happening:

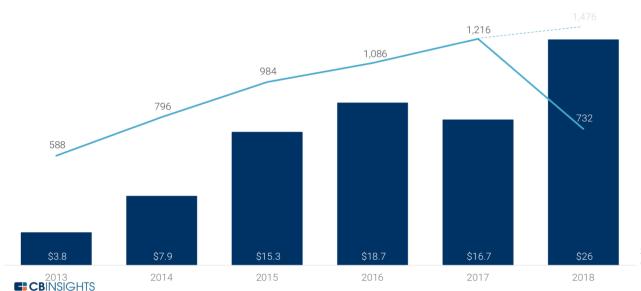
### Macro





# Global Fintech deals: record levels

Annual VC-backed global fintech deals and financing, 2013 – 2018 YTD (Q2'18), (\$B)

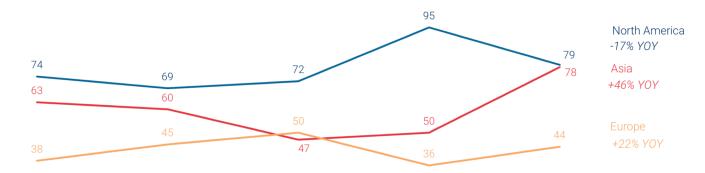


Source: CB Insights Q22018 Quarterly Fintech Report



### Asia Pacific nears US deals

Quarterly Seed and Series A deals to VC-backed fintech startups, Q2'17 - Q2'18



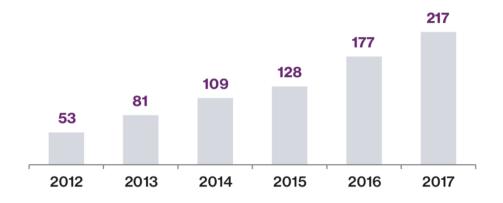
Q2'17	Q3'17	Q4'17	Q1'18	Q2'18	Source: CB Insights Q22018 Fintech
					Report





# Number of VC Investors in Insurtech

More than 4x the number of investors today than in 2012 (+30% CAGR)



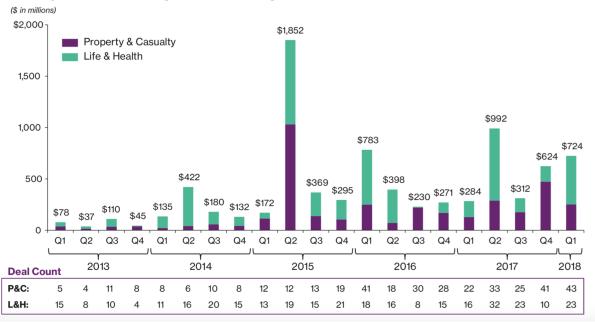
Source: Willis Towers Watson Q12018 Quarterly Insurtech Report





# Funding Volume Increasing

#### **Quarterly InsurTech Funding Volume – All Stages**



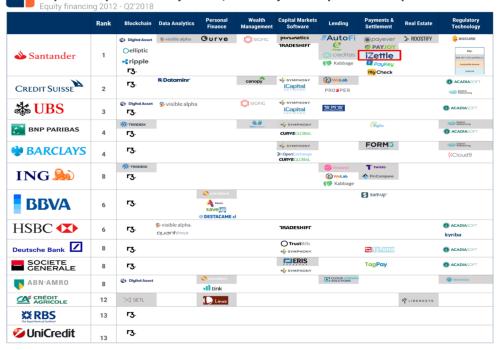
Source: Willis Towers Watson Q12018 Quarterly Insurtech Report





# Incumbents get Involved

Top 14 European banks by assets, ranked by fintech portfolio companies



Source: CB Insights Q22018 Fintech Report



# **Activity in Different Segments**



**CBINSIGHTS** 

Source: CB Insights Q22018 Fintech Report



# Disruption is Happening:

### Grassroots



## Life Insurance – buying made easier



Focus: Term life insurance

Coverage: Up to \$8M

(Re)insurance partners:

Hannover Re, Fidelity Security

### ETHOS

Focus: Term life insurance

Coverage: Up to \$10M

(Re)insurance partners: Assurity, Munich Re, RGAx

H1'18 Funding: \$40M Series B H1'18 Funding: \$11.5M Series A

### Fabric

Focus: Accidental death and

term life insurance

Coverage: Up to \$5M

(Re)insurance partners:

Vantis Life, RGAx

H1'18 Funding: \$10M Series A



Focus: Term life insurance

Coverage: Up to \$500K

(Re)insurance partners: North American Company for Life &

Health, Munich Re

H1'18 Funding: \$15M Series A

Source: CB Insights Q22018 Fintech Report





# Home Insurancevoice activated

"Ok Google, talk to Amaguiz..."

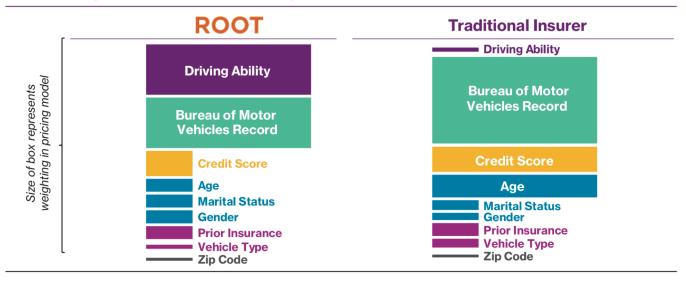






# Car Insurance – underwriting & pricing

Root's Pricing Model vs. Traditional Pricing Model

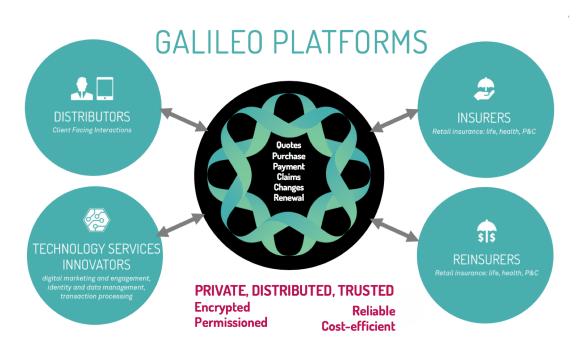


Source: Company filings.





### Purchase & Claims – real-time

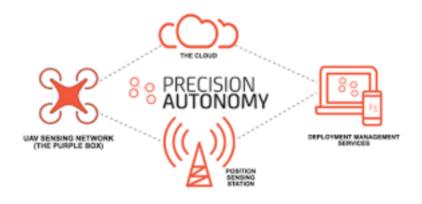




## **New Insurance Risks**











# Wealth – competitive & transparent fees



#### **Betterment**

Morgan Stanley

J.P.Morgan

#### **Management Fees**

0.25%; first \$10,000 is managed free

0.25% to 0.40%, depending on plan

VS.

#### **Management Fees**

0.35%

0.25% to 0.50%

robinhood	Trading Fees	<b>'етого'</b>
\$0		\$0

E <b>X</b> TRADE	<b>TD</b> Ameritrade	<b>Fidelity</b>	charles SCHWAB						
Trading Fees									
\$6.95	\$6.95	\$4.95	\$4.95						
			Source: CB Insights Q22018 Fintech Report						





# Wealth Management – robo advice





# The Disruption Enablers



# The ABC of Disruption

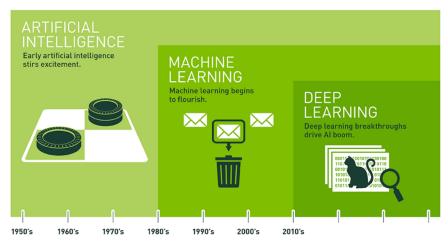
- A Al and Machine Learning
- Blockchain
- Connected Devices
- Data Analytics
- E Ecosystem Platforms

The Big 5



# Al & Machine Learning

- Intelligence demonstrated by machines
- Eg: reasoning, planning, learning
- Uses:
  - understanding human speech
  - statistical methods and mathematical optimization often used in marketing
  - autonomous cars
- Requires lots of data



Since an early flush of optimism in the 1950s, smaller subsets of artificial intelligence – first machine learning, then deep learning, a subset of machine learning – have created ever larger disruptions.

Source: Invidia Blog



## Blockchain

- Distributed Ledger Technology
- Digitised, decentralized ledger, used to record and verify ownership and transactions
- Record cannot be altered retroactively
- The network forms a consensus about the validity of transactions
- High security, stability & scalability at low cost
- Real-time transactions
- No reconciliations between parties

- Uses:
  - Insurance, wealth, banking
  - Supply chain mgt
  - Identity mgt







# **Connected Devices (IoT)**

- Devices connected to other devices or networks usually wirelessly (eg Bluetooth, NFC, Wifi, 4G) that can operate interactively and autonomously
- Uses:
  - Autonomous vehicles (GI)
  - Smart building detection (GI)
  - Health detectors (Life Ins)
  - NFC and nudge psychology (wealth)
- Produces lots of data





# **Data Analytics**

#### **Career option!**

30

- Inspecting, cleansing, transforming and modelling data with the goal of discovering useful insights, informing conclusions and supporting decisionmaking
- Uses:
  - Marketing
  - Pricing
  - Claim management
  - Inv risk profiling
  - Behavioural psychology

#### **Most Attractive Subsector for Investment**

### Participants view data & analytics as the most attractive subsector for InsurTech investing



Source: Willis Towers Watson Q12018 Quarterly Insurtech Report





# **Ecosystems & Platforms**

- Latest technology enables completely new business models and collaboration
- Not bounded by traditional industry boundaries





























# Disrupt ... or be Disrupted!





# What can you do today, in your job?

- Identify painpoints or areas of opportunity
- Build a business case
- Be a champion of change
- Garner support
- Disrupt from within or partner



## How to collaborate with startups

- Identify painpoints or areas of opportunity
- Build a business case
- Be the Champion!
- Move fast
- Cashflow counts simplify corporate procedures and speed up sales cycles
- Start small and build: do a Proof of Concept

No innovation theatre!

JRS Sydney 2018 / Annette King



# What can you do for yourself?



# What can you do for yourself?

## Be Brave!



## Call to Action!



## Call to Action!

### Create the Future!





# Reading Suggestions

- CB Insights
- Fintech Reports from big consulting firms
- Insurtech Reports from big consulting firms

- The Digital Insurer
- Insurance Thought Leadership
- Hubbis (wealth mgt)
- TED talks