

INSURTECH: A GUIDE FOR THE ACTUARIAL COMMUNITY

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INTRODUCTIONS AND BACKGROUND



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INTRODUCTIONS AND BACKGROUND



COVID-19 UPDATES CALEND.

Future Actuaries Education & Exams Professional Development Research Professional Sec

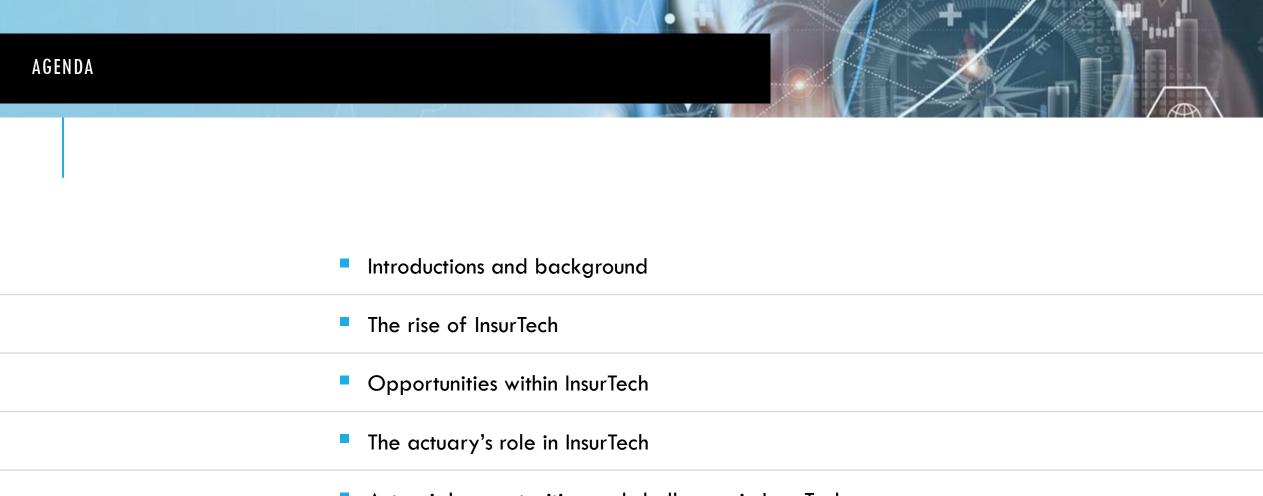
InsurTech: A Guide for the Actuarial Community

Authors

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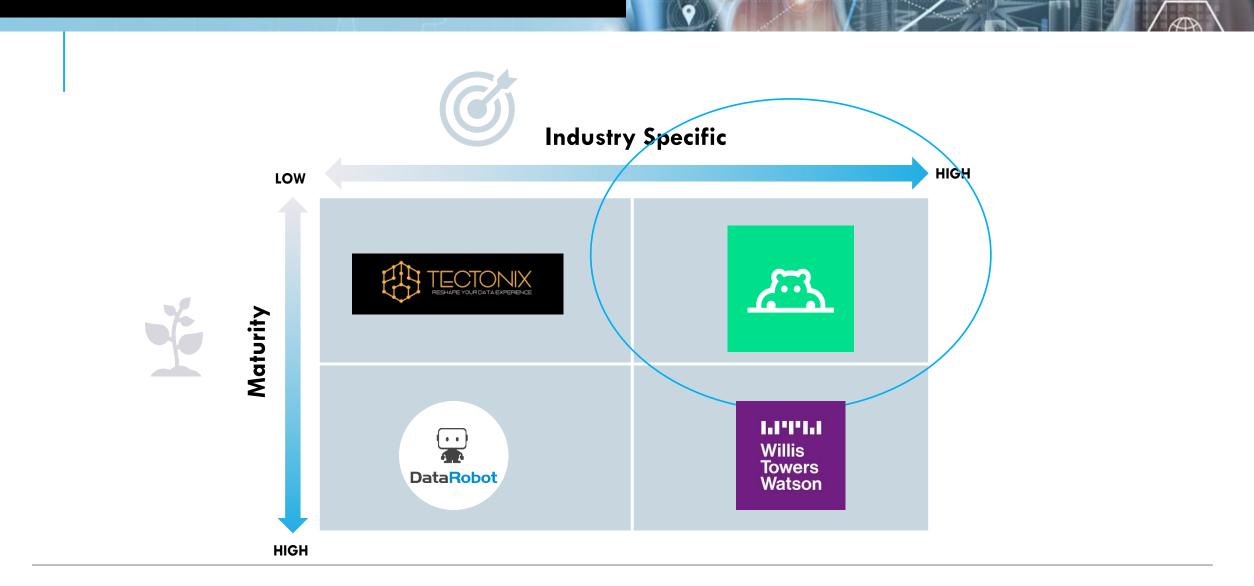
Kiki Wang, ACAS Senior Consultant

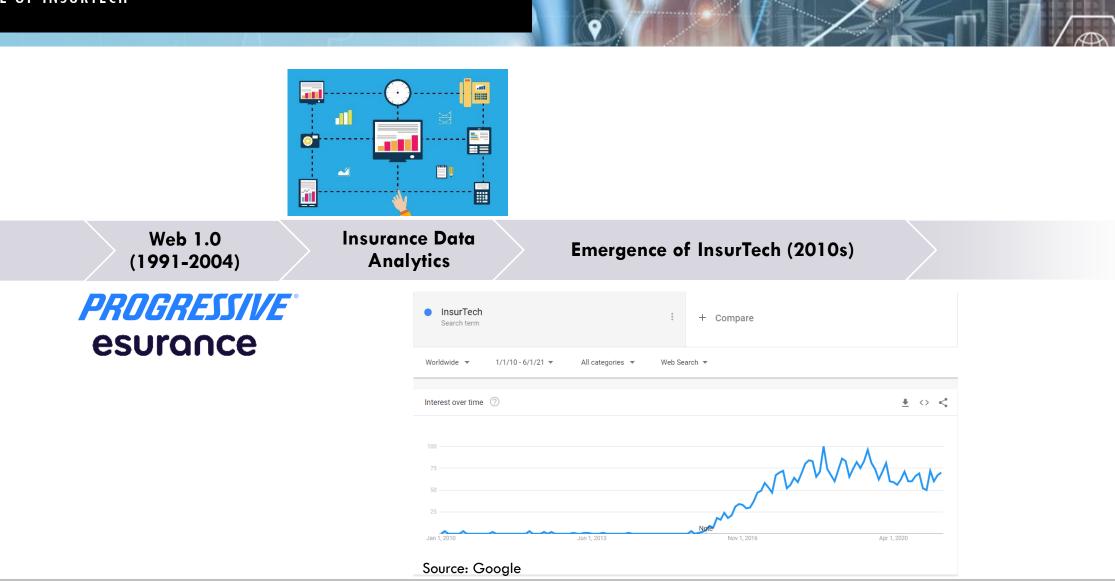


Actuarial opportunities and challenges in InsurTech



There are many debates and confusions about the definition...

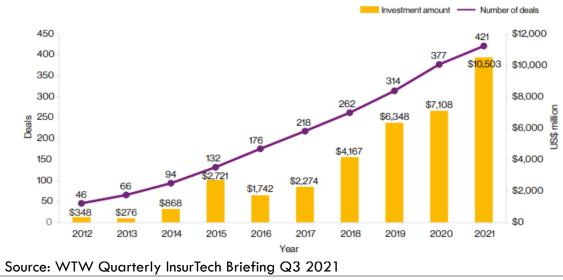




What's causing the rapid growth in InsurTech?

Annual InsurTech startup funding volumes grew substantially since **2015**

Annual InsurTech funding totals, 2012 - Q3 2021



Major InsurTech incubators and accelerators are all created after **2014**

Name	Founded
Global Insurance Accelerator	2014
Silicon Valley Insurance Accelerator	2016
Plug and Play (added InsurTech track)	2016
FinTech Innovation Lab (added InsurTech track)	2017
Hartford InsurTech Hub	2018
OnRamp Insurance Accelerator	2018

What's causing the rapid growth in InsurTech?

- Customer experience
- Customer-centric product
- Interconnected services

Surround Insurance

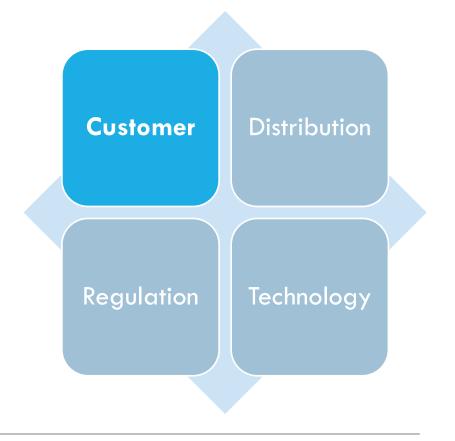




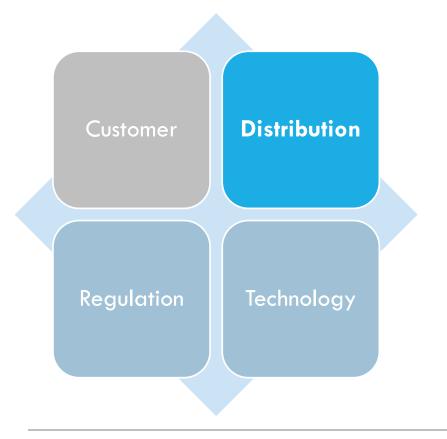
Source: Lemonade

Hippo Home Care can help care for your home

You can get free, professional guidance anytime you have a question or concern about your home. Simply call or email Hippo Home Care and a Home Pro will provide immediate recommendations, quick fixes and more.* Source: Hippo



What's causing the rapid growth in InsurTech?



Direct-to-consumer

Digitalization



Bring AI-Powered Responsible Insurance Distribution to North America

Source: PR Newswire

Premiums, %1

What's causing the rapid growth in InsurTech?

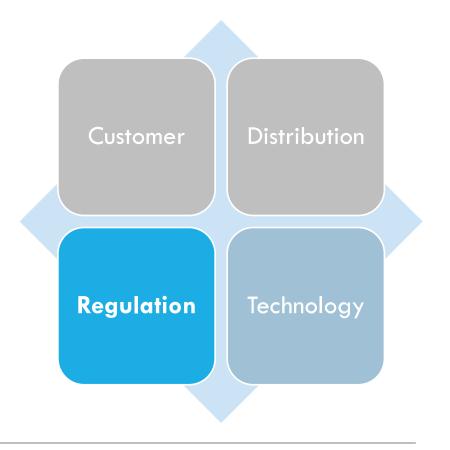
- Anti-rebate law discussion
- New product filings related to InsurTech



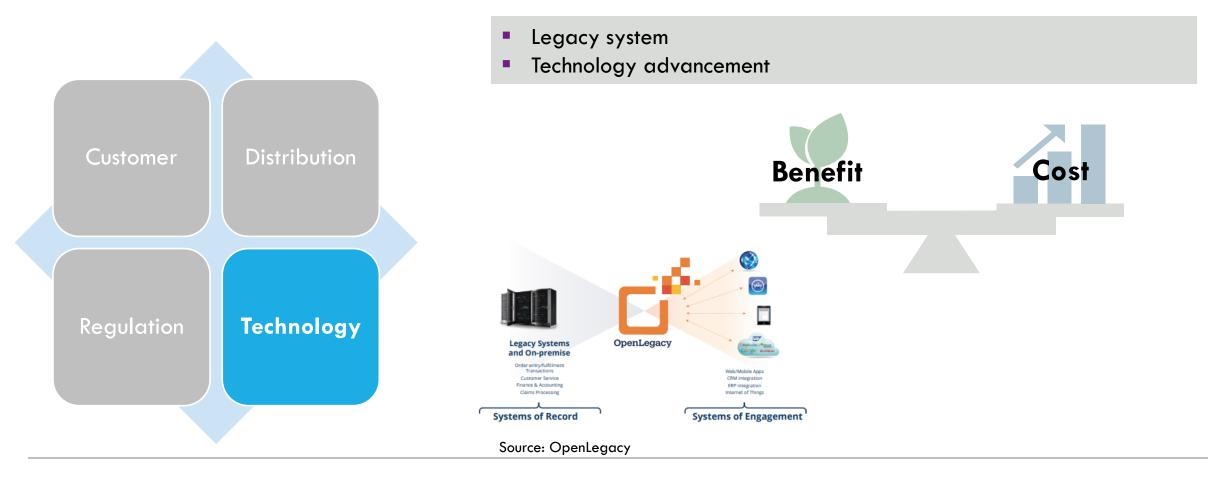
Source: Plug and Play

Innovation and Technology (EX) Task Force

Source: NAIC

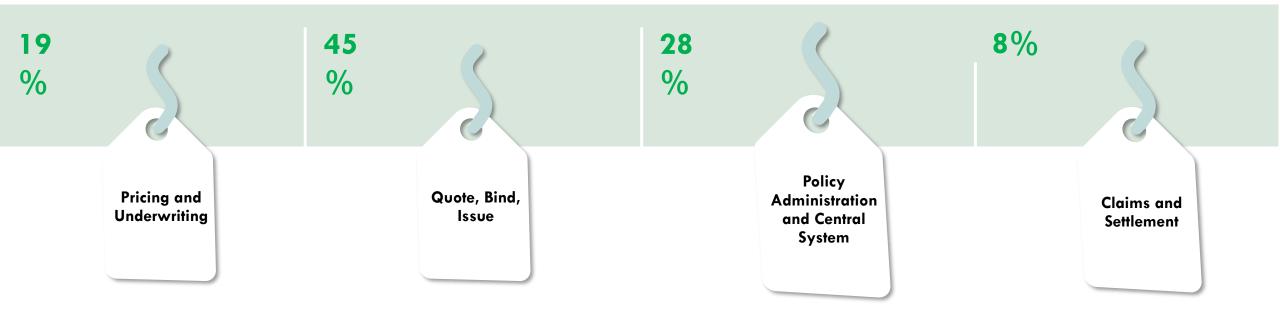


What's causing the rapid growth in InsurTech?



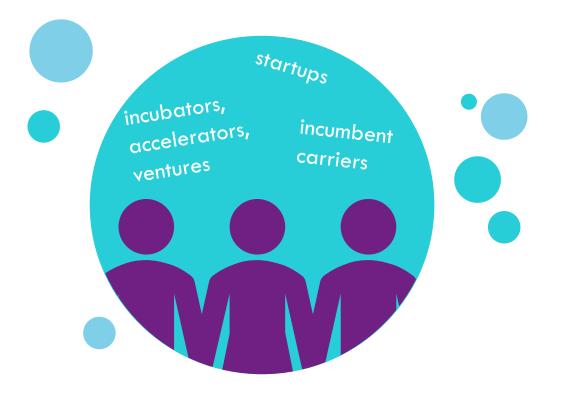
OPPORTUNITIES WITHIN INSURTECH

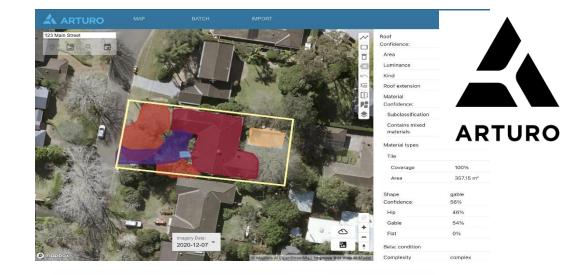
InsurTech can play a role in several areas along insurance value chain



OPPORTUNITIES WITHIN INSURTECH

There are many players in the InsurTech space





Silicon Valley is not the only place...

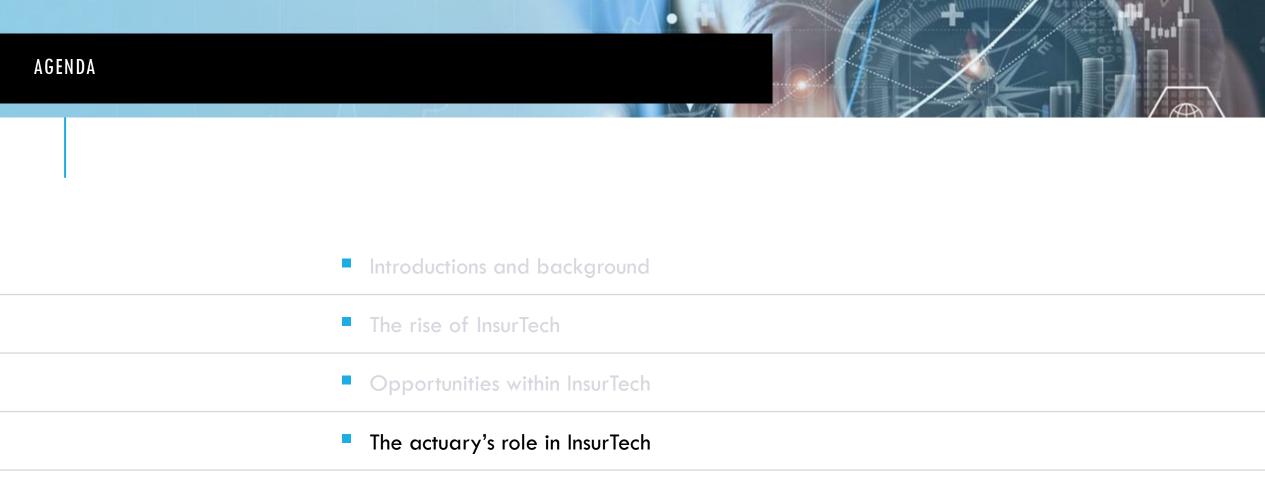
OPPORTUNITIES WITHIN INSURTECH

While we generally hear about successful stories...

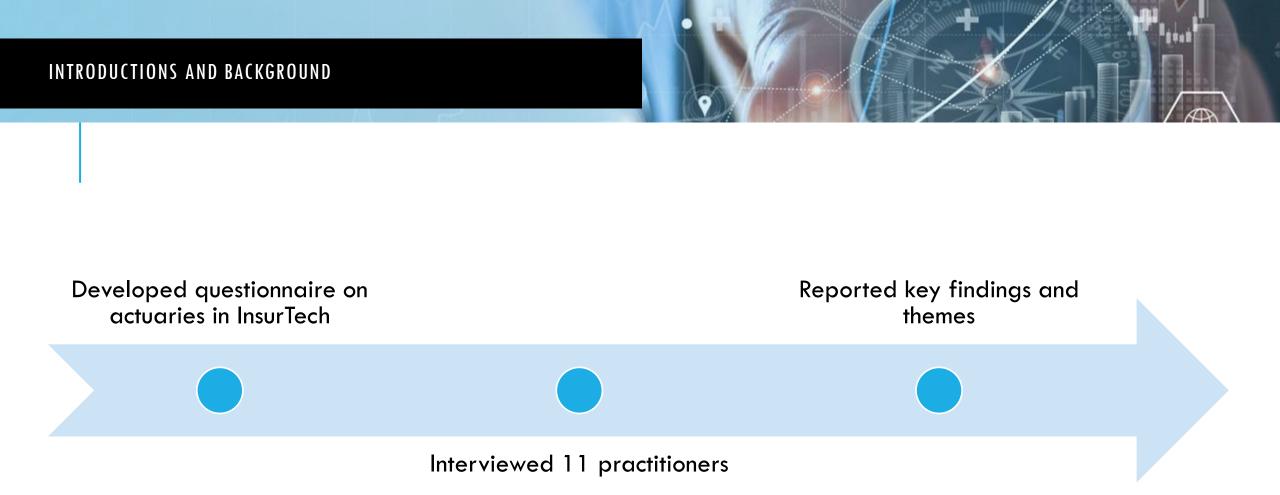


Between 2017-2019, approximately **184** funded InsurTech companies **closed**.

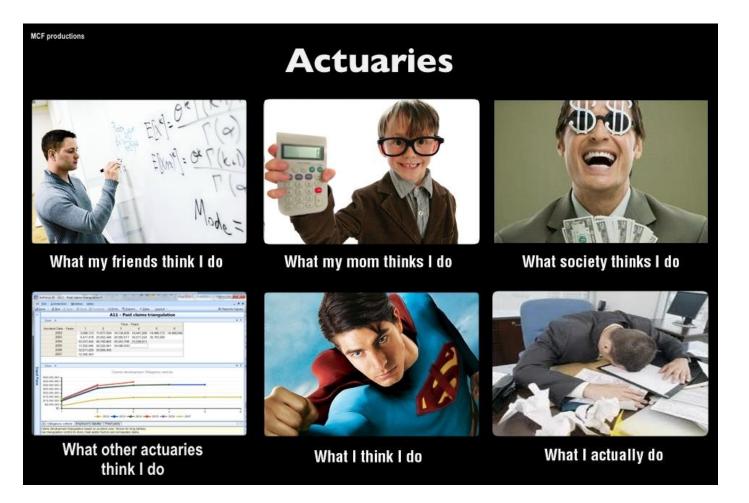
What does it mean with the inherent risk from entrepreneurship to actuaries? How should we position ourselves during this rapidly changing time?



Actuarial opportunities and challenges in InsurTech



WHAT IS AN ACTUARY'S ROLE IN INSURTECH?



WHAT ACTUARIES BRING TO INSURTECH

- Actuaries
- The bridge between InsurTech and the insurance industry
- Subject matter expertise
- Broad business expertise applicable to many roles
- Understanding and quantifying risks



Non-Actuaries

- The potential to be the bridge between the InsurTech and the insurance industry
- Subject matter expertise
- Expertise limited to specific roles (e.g. reserving)
- Understanding and quantifying risks, when there is data

ACTUARIAL STRENGTHS AND CHALLENGES

itrengths

- Guide/perform technical work with a broader perspective
- Can add value to decisions across the company
- Reputation as subject matter experts
- Professionalism and ethics

- Communication
- Exploring and quantifying new risks where limited or no data exists
- General resistances to new ideas or concepts

THE CULTURE CLASH



The InsurTech industry is focused on disruption, actuaries may be seen as the incumbent Actuaries were seen as needing to understand and embrace new and different ways of doing things

Many InsurTechs rely on a test and learn environment, actuaries were seen as wanting to perfect products and ideas before they enter the market

ACTUARIES VS. DATA SCIENTIST



- The actuarial value is helping interpret results and turn data into business solutions
- Non-actuaries saw actuaries as a limited technical resource, not expected to be data scientist but competing for technical focused roles
- Actuaries believe that we need to understand, not compete with data scientist, and bring companies a broader perspective on their work.

These lines may be more blurred in the P&C world

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InsurTech does not just include start-ups, many incumbent carriers have their own innovation labs

No venture capital funding

- Immediate first customer
- Product and industry experience and insights
- More time and funding to explore ideas

 Slower product ideation and testing compared to true startups

- Limited broader market interaction
- Conservatism of incumbent insurance company
- Limited diversity of thought

CREATING OPPORTUNITIES IN INSURTECH



- Market actuarial skill set and value within the InsurTech space
- Become partners in finding InsurTech solutions
- Find ways to be comfortable with assessing risks with limited or no data
- Understand the technical aspects of data science and IT enough to interpret applications of InsurTech offerings
- Reach outside of the actuarial space to train actuaries
- Train actuaries on new technology and methods, not just the older or now established methods

It is up to actuaries to leverage their strengths while being adaptable to create opportunities in the InsurTech world.

QUESTIONS?

