

The Actuarial Conundrum - Will Actuaries still be on Demand in 2120?

Xavier Gomez

MANDELBROT ACTUARIES & STATISTICIANS



About the speaker

• Xavier Gomez – Founding partner, Mandelbrot Actuaries & Statisticians

Master in Actuarial Science and BSc in Mathematics and Statistics, he is currently a member of the Board of Directors of the Catalan Association of Actuaries (CAC). He also contributes to the AAE's Task Force Role of Actuaries.

 Mandelbrot Actuaries & Statisticians is an independent consulting firm in actuarial and statistical science, specialised in insurance strategy, risk management, and training in accountancy, finance and insurance. We are, first and foremost, focused on preserving our customers' interests to assure their financial success in the long run.



Actuaries & Statisticians

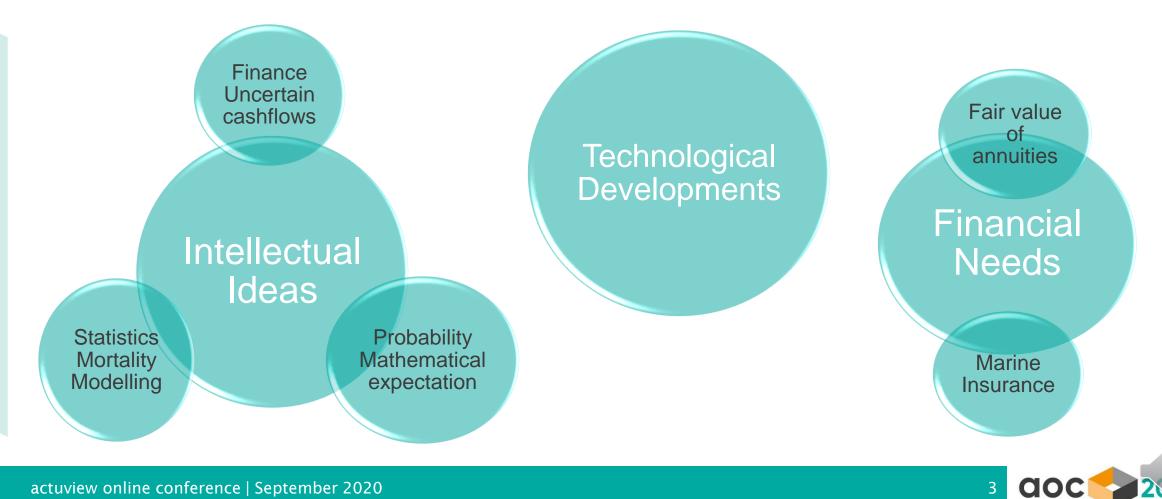


The beginning – the forerunners

Johan de Witt (1625 – 1672)

John Graunt (XVIIth Century)

James Dodson (1705 - 1757)



In fact, what's an actuary?



- Highly **qualified** professionals
 - Analyze the **financial** impact of **risk**
 - Apply their mathematical expertise
 - Rigorous standards of practice



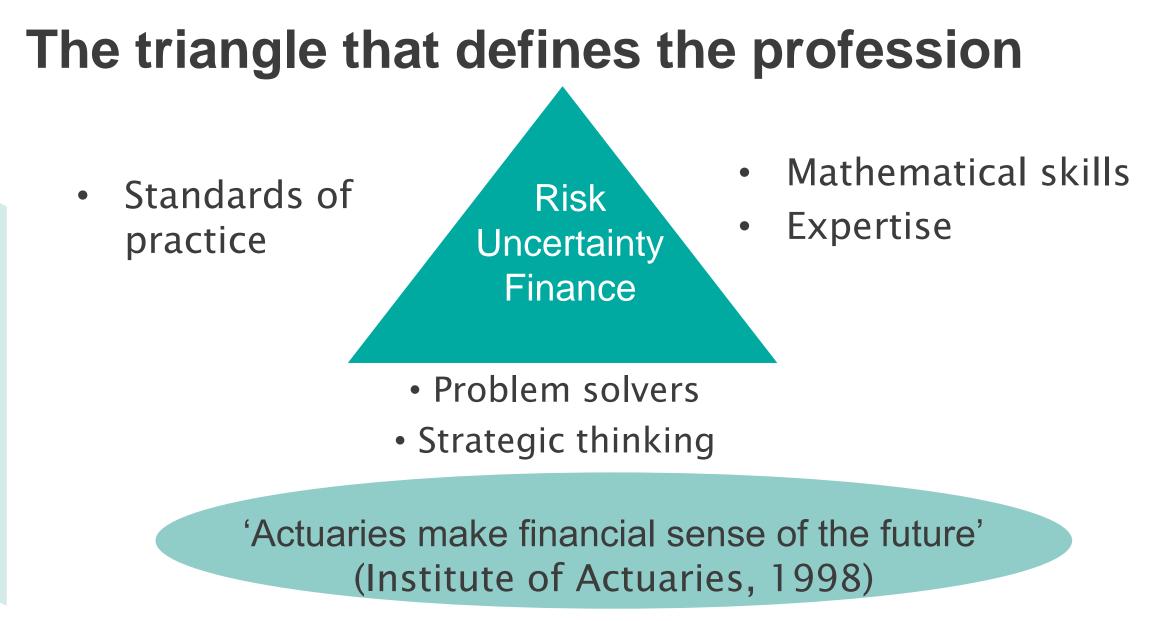
In fact, what's an actuary?



Problem solvers

- Strategic thinkers
- Understanding of financial systems
- Highly valued mathematical skills
- Expertise



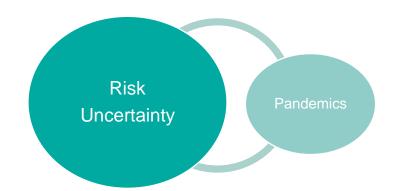




Are there problems around to solve in 2020? Looming debt Pandemics Low Trade Finance Interest Wars Rate Risk Climate Mortality Change Uncertainty Sluggish growth Demography







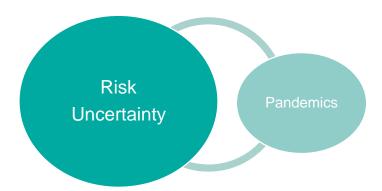
a **community** (...) and forum for actuaries (and others) to help them in (...) responding to the COVID-19 crisis

supporting and enhancing our profession's **commitment** to societal and public interest

We face a **global crisis** of epic proportions[,] We must do what we can **quickly, meaningfully and thoughtfully**







DEATHS, EXCESS DEATHS AND STATISTICS

on the (un)reliability of daily COVID-19 death figures in England



CARE HOMES – FORGOTTEN BY US, NOT BY COVID

on the high COVID-19 mortality rate in care homes

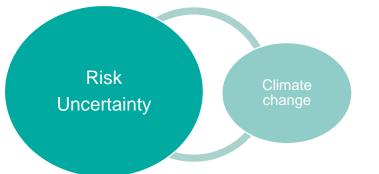
We face a **global crisis** of epic proportions[,]

We must do what we can quickly, meaningfully and thoughtfully'





ACTUARIES CLIMATE INDEX INDICE ACTUARIEL CLIMATIQUE



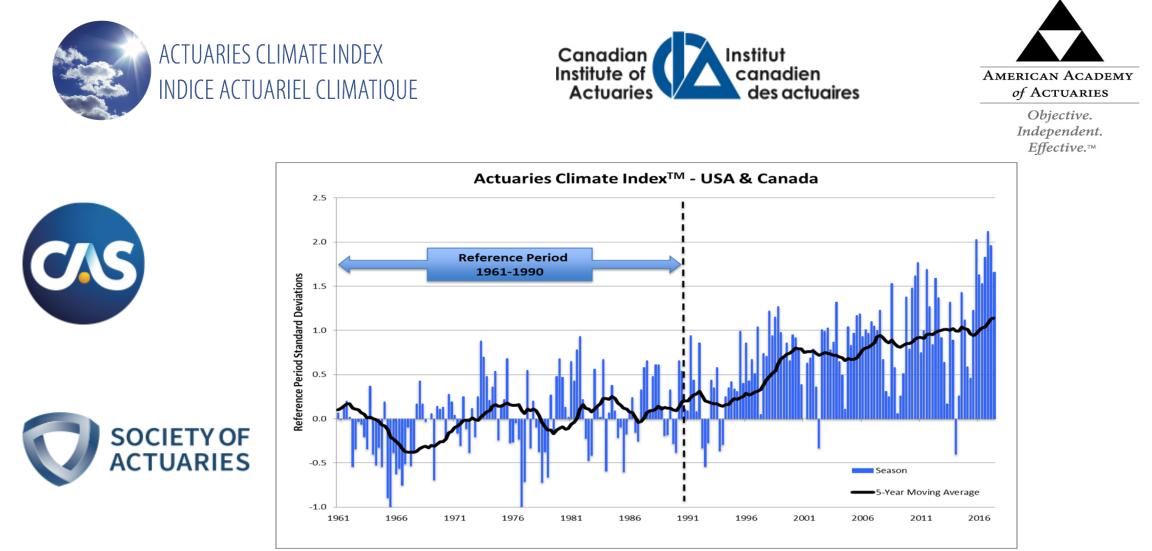
'a measure of **long-term** changes across an array of observed weather extremes and sea level in Canada and the USA'

'an educational tool to help inform actuaries, public policymakers, and the general public'

Actuaries are **experienced** in

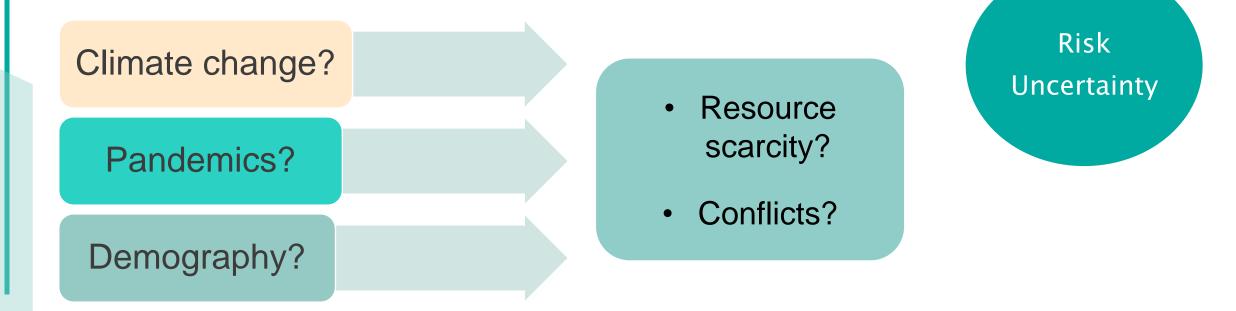
- the assessment and mitigation of financial consequences of risks
- the summarization and presentation of complex data







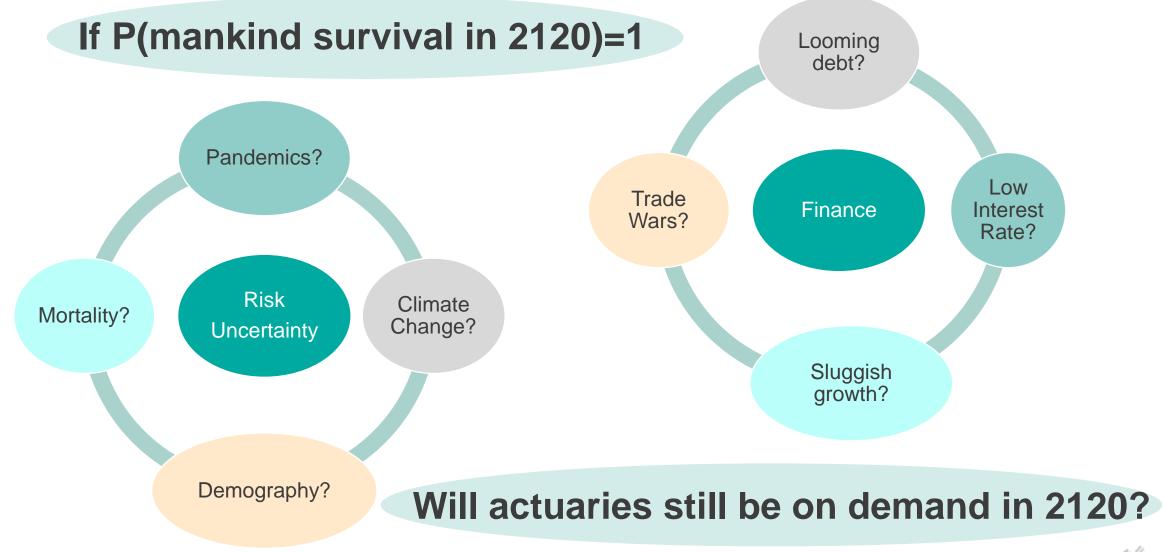
The first actuarial conundrum for 2120



Is the survival probability of mankind in 2120 < 1?



The second actuarial conundrum for 2120





The heptagonal answer to the conundrum Risk Commitment Core syllabus actuview (Act) Quickly Meaningfully Community Finance Thoughtfully Continuous To solve problems **Professional Standards** for social benefit **Development** Education of Practice Experience Data Mathematical Skills **Global Association**





contact details

Xavier Gomez

Mandelbrot Actuaries & Statisticians Xavier.Gomez@mandelbrot-actuarialstats.com +34 616 508 946 www.mandelbrotactuarial.com

