

Institute and Faculty of Actuaries

GIRO Conference 2022 21-23 November, ACC Liverpool





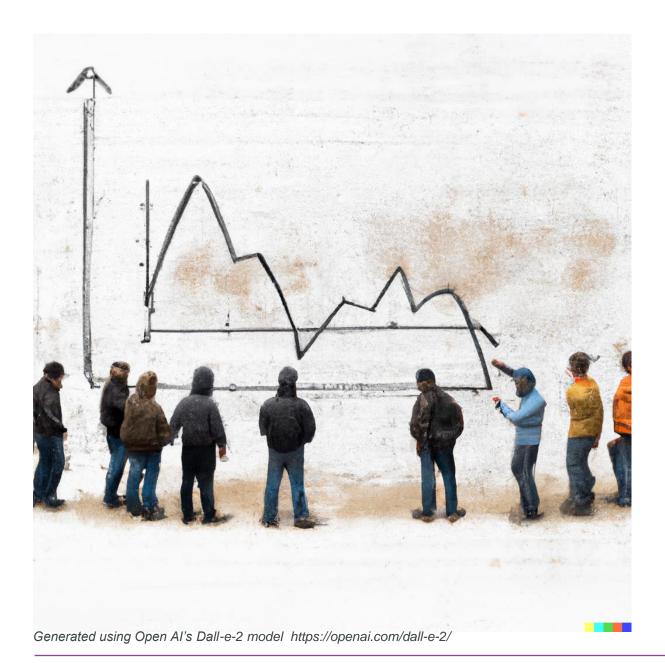




Walk the talk – the trials and tribulations of building a market leading Pricing Data Science team

Amar Kotecha FIA Alex Hanks FIA

#GiroConf22



Asked DALL-E for:

"A Banksy painting of how to build a market leading Pricing Data Science team"



16 November 2022

To be the market leading Pricing Data Science team, working with Underwriters to deliver profitable business, investing in the development of every team member to build expertise in both insurance and data science and providing them with the tools and data that they need to excel in their roles.

Alex Hanks FIA lead of Pricing and Data Science	Amar Kotecha FIA Head of Pricing Data Science Transformation
Joined QBE March 2022	Joined QBE March 2020
Previous roles in Broking/Consulting/(Re)Insurance	Background in Reinsurance Pricing
MSc in Data Science and Machine Learning	Data Science Specialisation - Coursera
Chair of IFoA Data Science Member Interest Group 2018-19	•Consulting experience within the Pricing space
•IFoA Modelling Analytics and Insights from Data Working Party 2016-18	



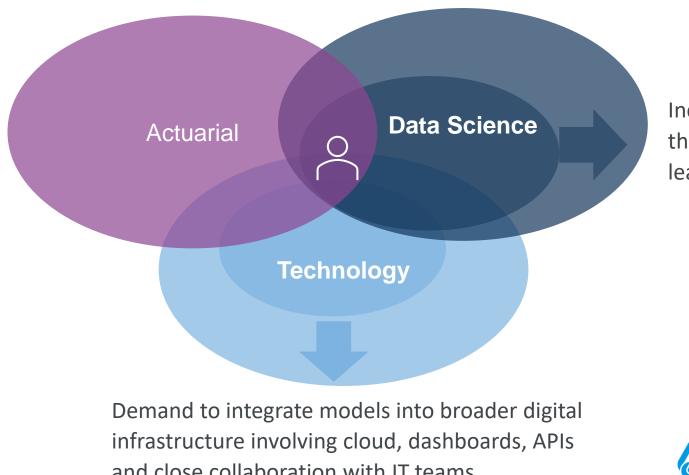
Background on the Pricing and Data Science teams

- 40 Pricing and Data Science specialists in 2023, increase from 30 in 2022
- Pricing and Data Science were separate teams until 2019
- Supporting the pricing of \$5 Billion of annual premium
- Working with Underwriters across the UK, Europe and Lloyd's and London Markets.





Pricing roles are increasingly spanning three domains

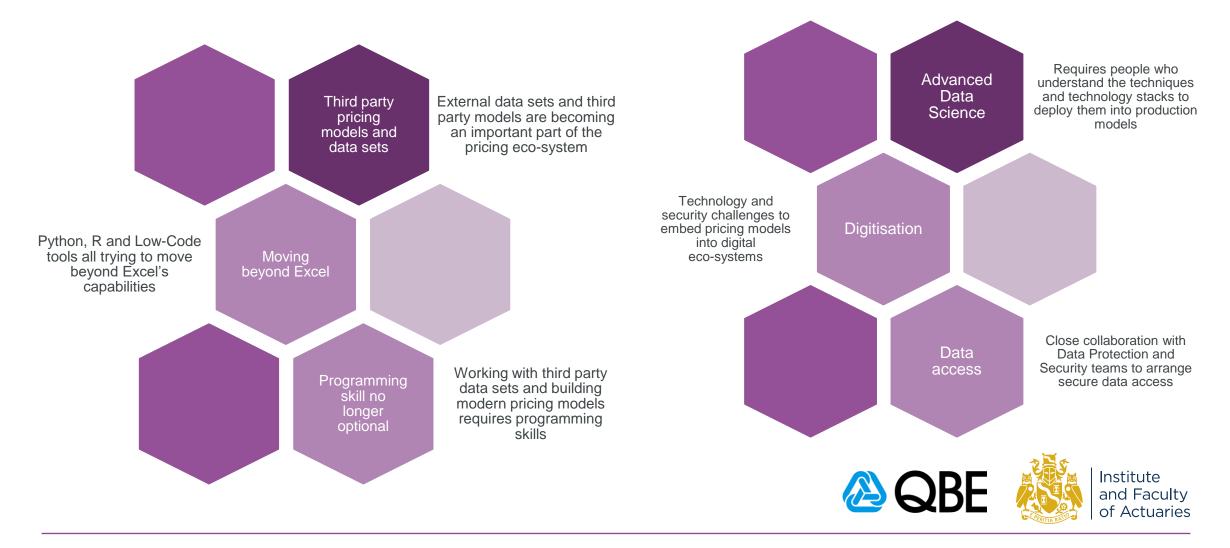


Increasing use of non-traditional third party data sets and machine learning techniques

and close collaboration with IT teams



Several new themes are emerging in pricing work



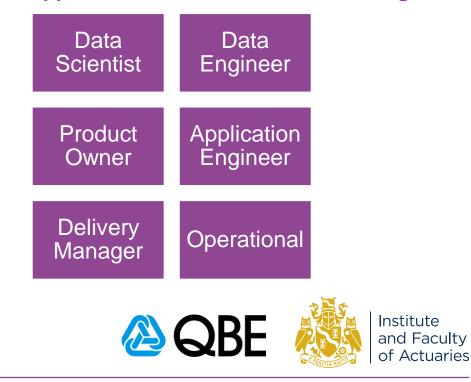
Companies hire Data Scientists in isolation

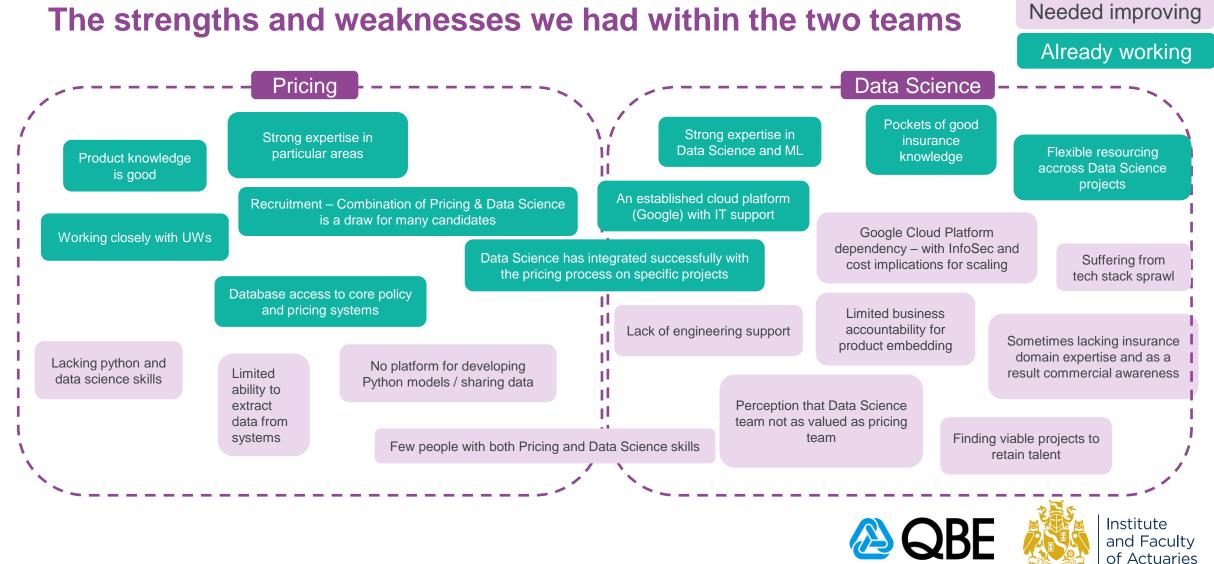
QBE started it's Data Science team in 2017 and fell into a number of common pitfalls in doing so



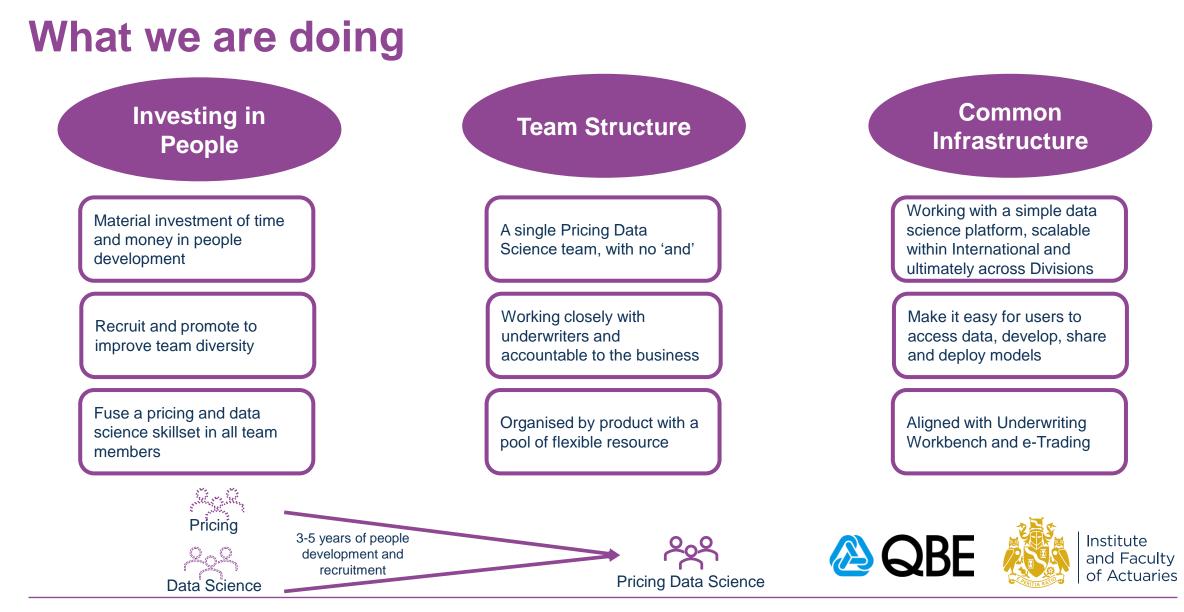
It's possible to find "unicorn" Data Scientists where the skillset is broad enough to tackle the above issues alone. But this is rare and not scalable longer term.

A number of key roles are required to support Data Science teams, including:





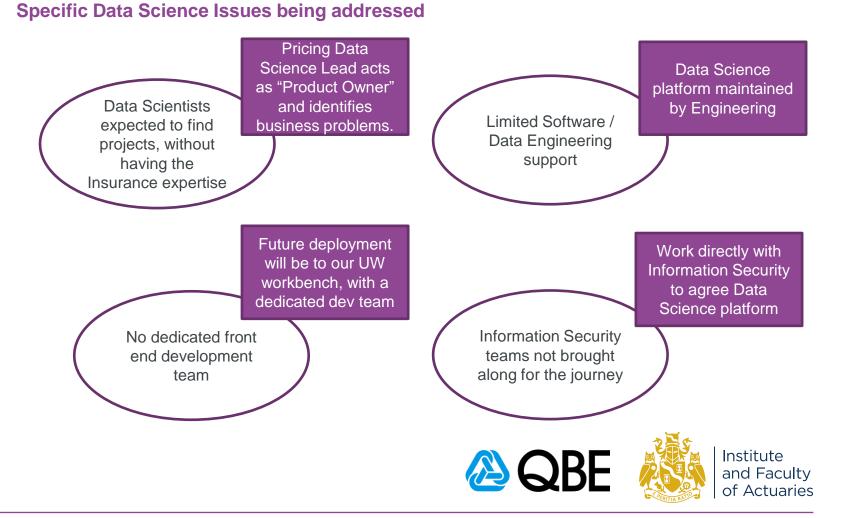
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How will this address our key issues

Key to enabling the vision is to ensure those from an actuarial background are sufficiently trained in various Data Science skills (Analytics, Coding, Databases, Modelling)

With this skillset, Pricing Actuaries can act as the bridge between the business and the Data Scientists.





Expressions of individual views by members of the Institute and Faculty of Actuaries and its staff are encouraged.

The views expressed in this presentation are those of the presenter.





Asked DALL-E for:

"A Salvador Dali painting of an Actuary Data Scientist"



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Thank you



