



### IMPACT OF BIG DATA ON THE FUTURE OF INSURANCE

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1. How is data currently used in insurance?

4. How might society be adversely impacted?

#### Agenda















Disclose all information that the insurer determines is relevant to pricing their risk

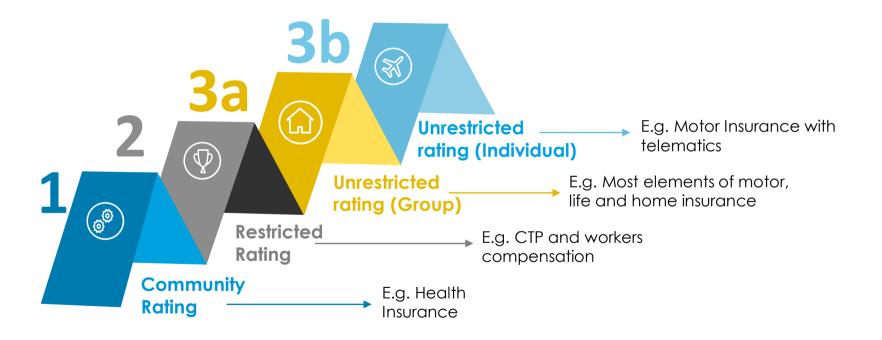
Insurers rely on data to identify the relevant pricing factors

Many other areas where insurers use data e.g. marketing, analytics, valuations, etc



### **Levels of Pricing Freedom**

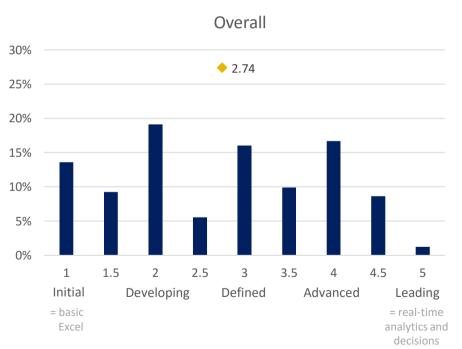


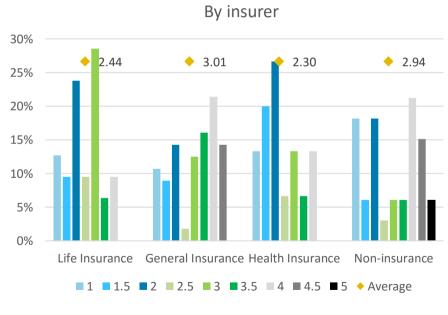




#### Where are you now?



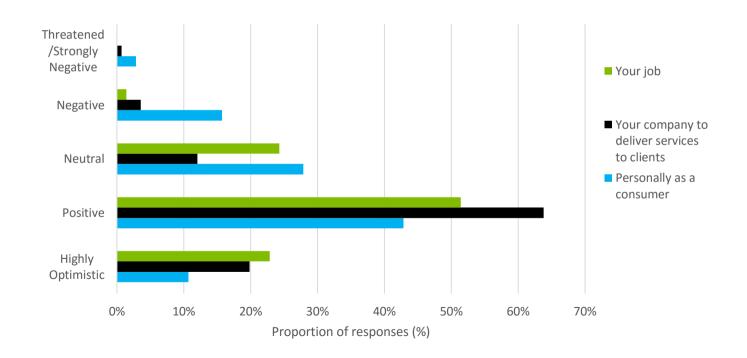








### How do you feel about the prospects of big data?





### What are the implications on society?





- Better Risk Signalling
  - Insurers can take a proactive role to reduce risk rather than be reactive
  - Develop services around risk reduction



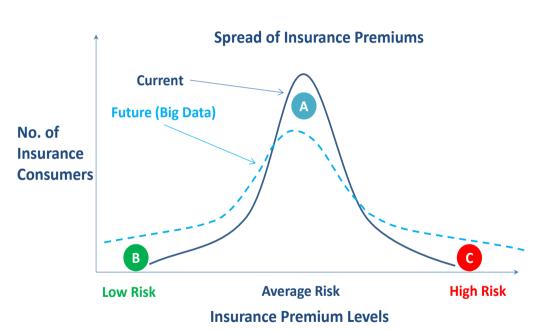
- Greater Premium Dispersion
  - Allows insurers to price at granular levels
  - Less element of cross-subsidy



Privacy Considerations



Risk Pooling still Relevant





# Is it inevitable that insurers will use big data?







#### How might society benefit?









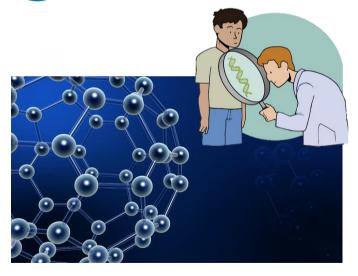




### How might society benefit?













### How might society benefit?



Near Future













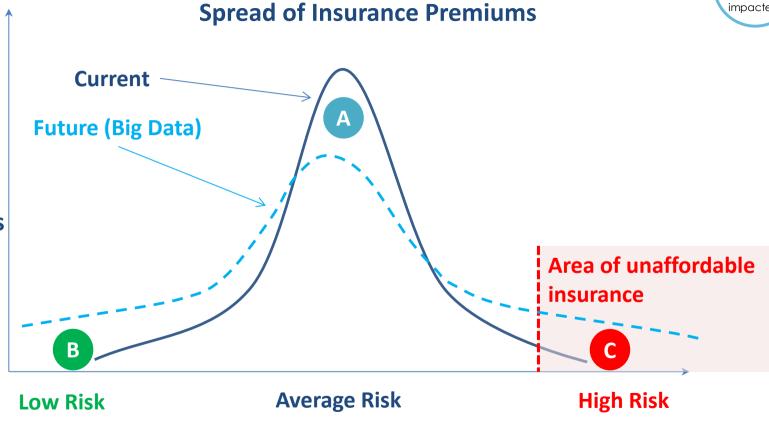






































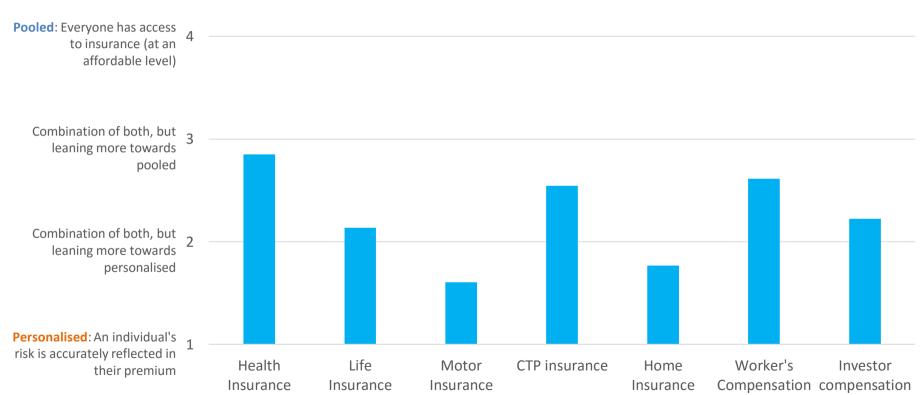


"Given insurers' increasing ability to accurately price risks, do we want to charge individuals the price that reflects their risk level or do we want to ensure that everyone has access to affordable insurance?"



### How do you interpret a "fair premium"?









































### O1 Unaffordable insurance

- Cap insurance premiums
- Risk sharing mechanisms
- Government to be "insurer of last resort"



02 Privacy Concerns

#### Consider:

- What restrictions should be placed on what an insurer may seek
- What responsibilities to place on insurers
- Right of insured to understand whether their social network footprint or internet browsing history being used



# Considerations for Policymakers (Cont'd)





### 03 "Fair" Premium becomes undesirable?

 Prevent insurance pricing reflecting uncontrollable risk factors



04 "Risk signalling"

 Consider insurer's responsibility to share knowledge of risk with consumer



#### 05 Competition

- Review benefits and costs of increasing data availability and improving data use
- Consider ways to improve individuals' ability to access their own data



#### **Considerations for Insurers**



**Enhancing Business Processes** 



**Deepening Customer Relationships** 



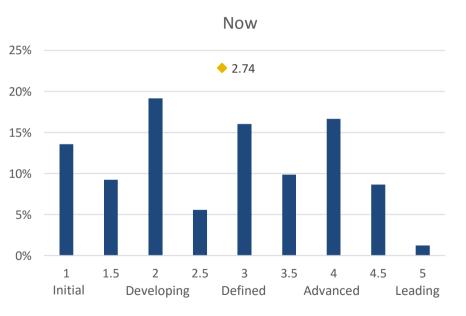
Improved Management of an Insurance Portfolio

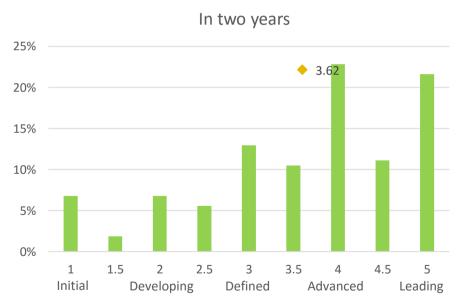




### Where do you see yourself in two years?



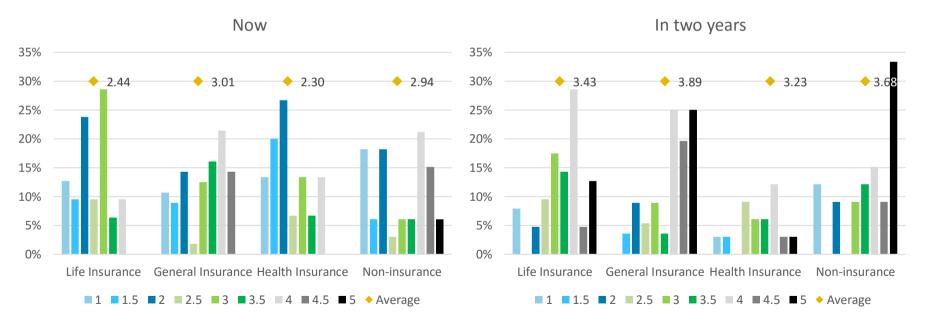






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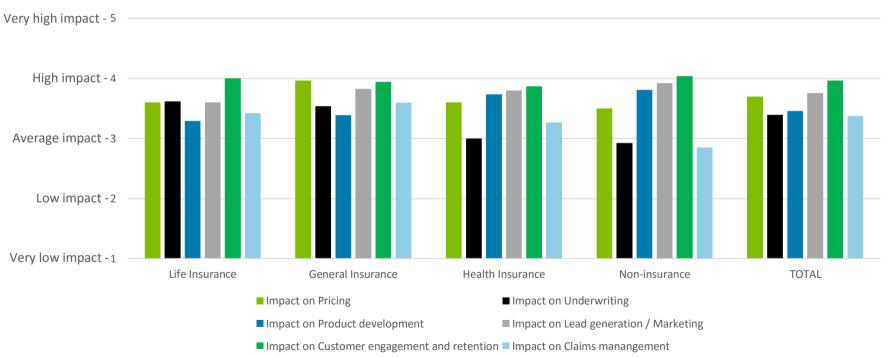








### In which area do you believe the analysis of big data would be most impactful?





#### **Discussion**





### Thank you!

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