

Regulating InsurTech: Role of the Regulator in managing data risks and protecting consumers

Presenters

Technical expert



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Moderator



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Supervisory Presenters

Case study 1: BaFin, Germany Case Study 2: IRA, Kenya Case study 3: NAIC, USA

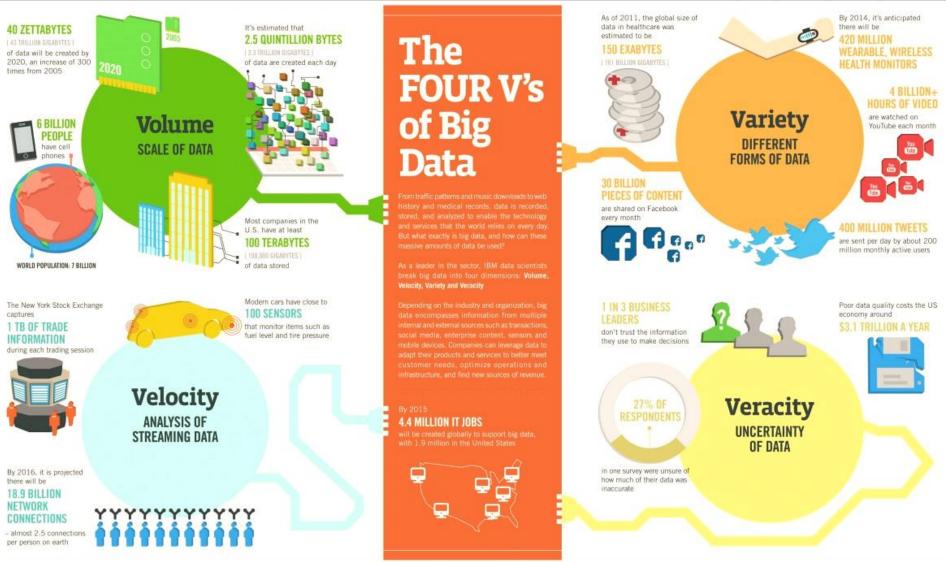
Speakers: Kathleen Koehn, BaFin Elias Omondi, IRA Tim Mullen, NAIC

Enter the code and participate!

Go to <u>www.menti.com</u> and use the code 58 69 85

Big Data

TRM



Sources: McKinsey Global Institute, Twitter, Cisco, Gartner, EMC, SAS, IBM, MEPTEC, QAS

http://www.ibmbigdatahub.com/infographic/four-vs-big-data

Technology has allowed businesses to better understand and serve consumers through the collection and analysis of big data.

Current Insurtech innovation landscape



Source: Venture Scanner (2018)

But innovations, and specifically the use of consumer data, also leave consumers vulnerable

Where data leaves consumers vulnerable

Personal data of a billion Indians sold online for £6, report claims

Newspaper says it bought access to details from world's largest biometric database, used to administer public services



Business Daily



Could Big Data Kill Off Health Insurance?

As US health insurers ask customers to wear fitness trackers, are they opening a Pandora's Box of ethical dilemmas and business threats?

Available now O 18 minutes

Ed Butler speaks to Brooks Tingle, chief executive of insurer John Hancock, which has been pioneering the controversial policy of rewarding customers willing to demonstrate that they exercise more.

BBC World Service (01.11.2018)

The Guardian (04.01.2018)

For example, Tala, a firm that offers microloans in Kenya using a smartphone app to evaluate applicants' credit risk, gathers various types of data, including where loan applicants spend their time, how many people they communicate with every day, how often they call their parents (by <u>searching call logs for</u> <u>the word "mama"</u>) and, less surprisingly, whether they pay their bills on time.

CGAP blog (11.12.2018)

Data protection says: "Collect and use only that information which is necessary to serve the immediate purpose."

Big data says: "Give us everything you have and we'll see if we can find a purpose for it."

https://www.centerforfinancialinclusion.org/getting-data-right

Key consumer data risks affecting the insurance industry

Drivers

- Failure of controls
- Error
- Obstructed consent
- Unauthorized collection, storage and use
- Data breaches

Negative consumer outcomes

Address negative outcomes directly

Onus on providers to operate in consumers' best interest

Example:

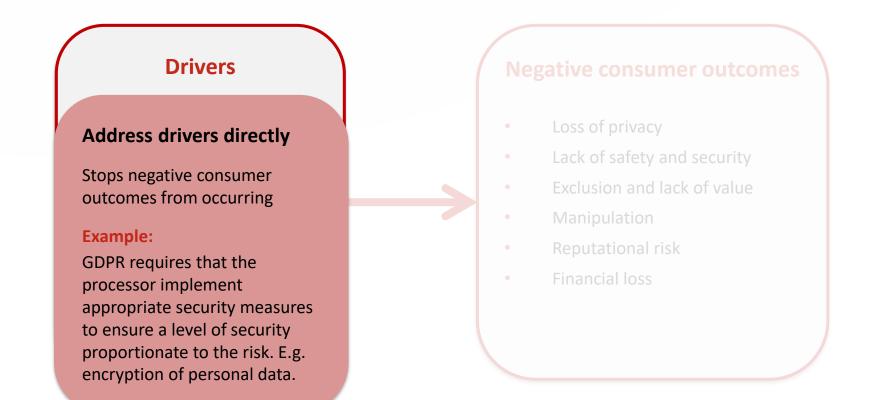
Treating Customers Fairly (TCF) in South Africa Regulators can hold firms accountable for consumer harm due to inappropriate data collection, storage or use.

Source: Based on IAIS (2016), IAIS (2018a), IAIS (2018b), Institute of Actuaries of Australia (2016), McKee *et al.* (2015), The Smart Campaign (2016), The World Bank Group (2017), BaFin (2018) and stakeholder interviews (2018)

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How high or low do you assess consumer data risks in your jurisdictions? Very high – high – low – very low

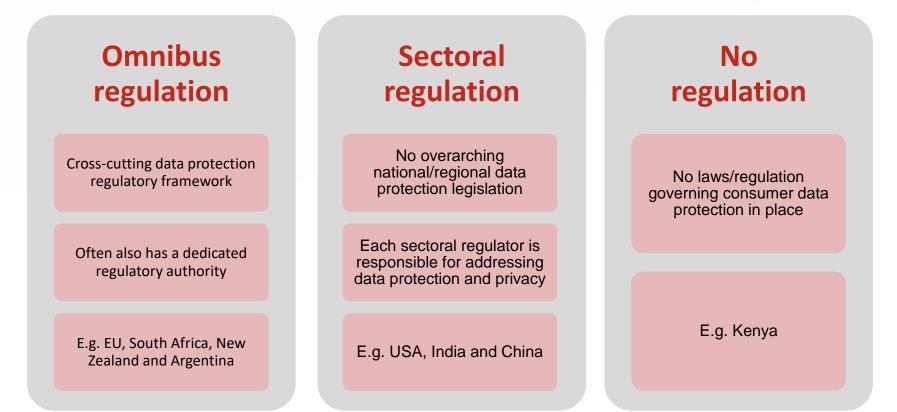
Key consumer data risks affecting the insurance industry



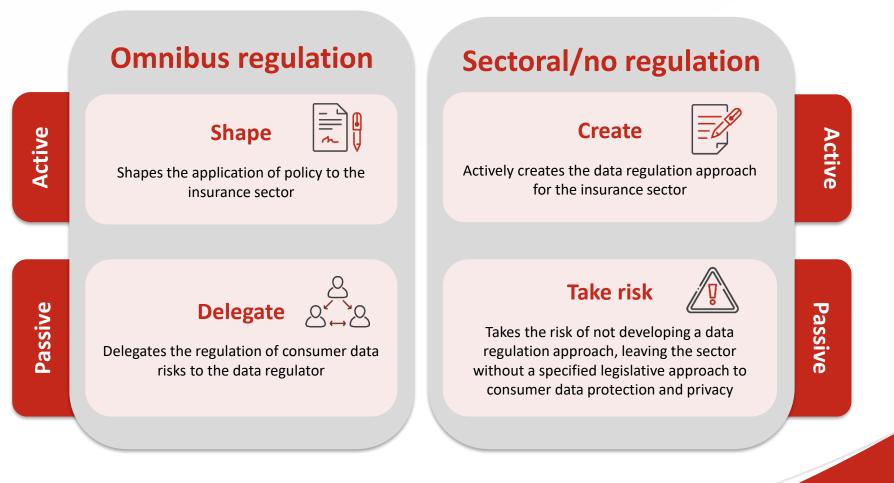
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But data and data risks are pervasive and seldom affect only one sector

Legislative approaches



Countries falling into a particular category may have draft or pending legislation, which once in operation, may change the applicable framework category.



Omnibus regulation

Active

Shape

Shapes the application of policy to the insurance sector

Del

elegate <u>උ</u>

elegates the regulation of consumer data risks to the data regulator

E.g. BaFin (Germany)

Employs regulatory and supervisory tools to augment the existing omnibus legislative framework

Tools employed:

- *Regulate:* Data protection requirements beyond GDPR
- Supervise: Supports BfDI (Federal Commissioner for Data Protection) in implementing/enforcing data protection laws
- *Advise:* Assists firms with compliance with GDPR (innovation hub)

E.g. IRA (Kenya)

Data protection and privacy legislative framework absent; IRA has amended regulation to deal with data-related risks to consumers.

Tools employed:

 Regulate: Amending and reinterpreting existing market conduct guidelines to ensure appropriate consumer protection against arising data risks; Explicit consideration of harmonisation with pending data regulations and global guidelines

Sectoral/no regulation



Actively creates the data regulation approach for the insurance sector







Takes the risk of not developing a data regulation approach, leaving the sector without a specified legislative approach to consumer data protection and privacy

Omnibus regulation

Active

Shap

Shapes the application of policy to the insurance sector

Delegate

Delegates the regulation of consumer data risks to the data regulator

E.g. CNSF (Mexico)

The Comisión Nacional de Seguros y Fianzas (CNSF) of Mexico considers the Federal Law on the Protection of Personal Data held by Private Parties to sufficiently deal with the risks in the insurance sector.

Tools implemented:

 Monitor: Monitoring the prevalence and impact of data risks in its market which includes conducting research on these risks.





Take risk

Go to www.menti.com and enter the code 58 69 85

Has your authority taken an active approach on data regulation ("shapes" or "creates" data regulation)? yes/no

Do you think your authority should become more active in data protection? Yes/no

Test it yourself!

Check if your data has been compromised in a data breach

https://haveibeenpwned.com/

('; 	nave i been pv	wned?
Check if yo	u have an account that has been compromis	ed in a data breach
email address		pwned?





Bundesanstalt für Finanzdienstleistungsaufsicht

Big data meets artificial intelligence Challenges and implications for the supervision and regulation of financial services

Source picture: iStock/spainter_vfx

The idea behind it: Bringing together experts from all fields

Technology



Market perspective

- Banks and financial service providers
- Insurance companies
- Capital markets

Supervisory perspective

- Financial stability and market supervision
- Firm supervision
- Consumer protection



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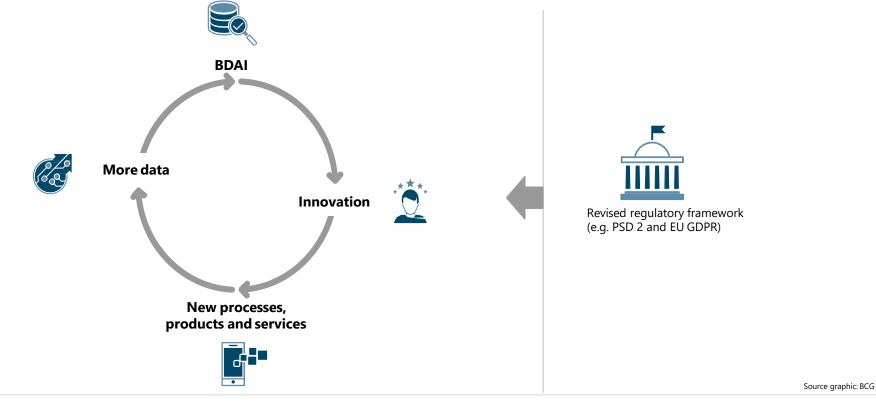
Bundesanstalt für Finanzdienstleistungsaufsicht

Link to the study: <u>https://www.bafin.de/SharedDocs/Downloads/EN/dl_bdai_studie_en.html</u>



Big data meets artificial intelligence

Cycle of innovation requires early supervisory attention



≋ BaFin

Big data meets artificial intelligence

3

Profound implications along three dimensions





- New forms of systemic importance
- Market structures
 change

Microprudential Supervision



- Responsibility remains with people
- No black box excuses
- Detection of financial crime

Consumer Protection

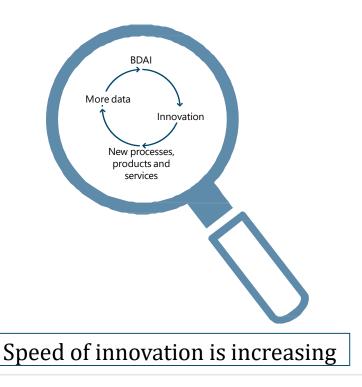


- Discrimination vs. differentiation
- Consumer sovereignty



Big data meets artificial intelligence

Basic regulatory principles should remain unchanged



Regulatory principles

- Technology-neutral
- Principles-based
- Further strengthen international cooperation to reduce regulatory arbitrage
- Develop BDAI capabilities as a supervisor





Bundesanstalt für Finanzdienstleistungsaufsicht

Thank you for your attention!

Role of the Regulator in managing data risks and protecting consumers "CREATE STRATEGY"

Elias Omondi Actuarial Associate Insurance Regulatory Authority - Kenya

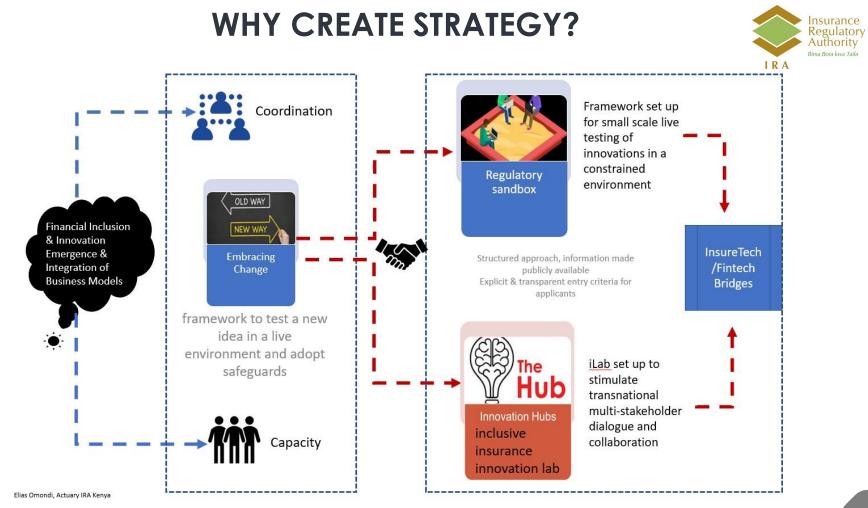


STATE OF PRIVACY?



- Constitutional privacy protections: Article 31 of the Kenyan Constitution specifically protects the right to privacy.
- Data protection law: Kenya does not currently have specific data protection legislation. However, a Data Protection bill was tabled in Parliament in 2015.
- Data protection agency: Kenya does not have a specific data protection authority. To be set once the law is enacted
- The Integrated Population Registration System (IPRS) collects data from a dozen databases held by various government agencies.





RISKS VS BENEFITS





Consumer benefits

- Access to insurance
- Better alignment to customer needs
- Better risk pricing
- Potentially lowering cost

Role 1: Maintenance of a fair, safe and stable insurance sector

Role 2: protect the interest of the insurance policyholders and beneficiaries

<u>Consumer risks</u>

- Less personal interaction / consumer trust
- Privacy & cyber-risks
- Reduced risk pooling & risk of financial exclusion
- Reduced transparency (AI / machine learning)





Role 3: promote the development of the insurance sector

IMPLEMENTATION STRATEGIES



MARKET CONDUCT GUIDELINES



Amending and reinterpreting existing market conduct guidelines to ensure appropriate consumer protection against arisin data risks TCF MODEL



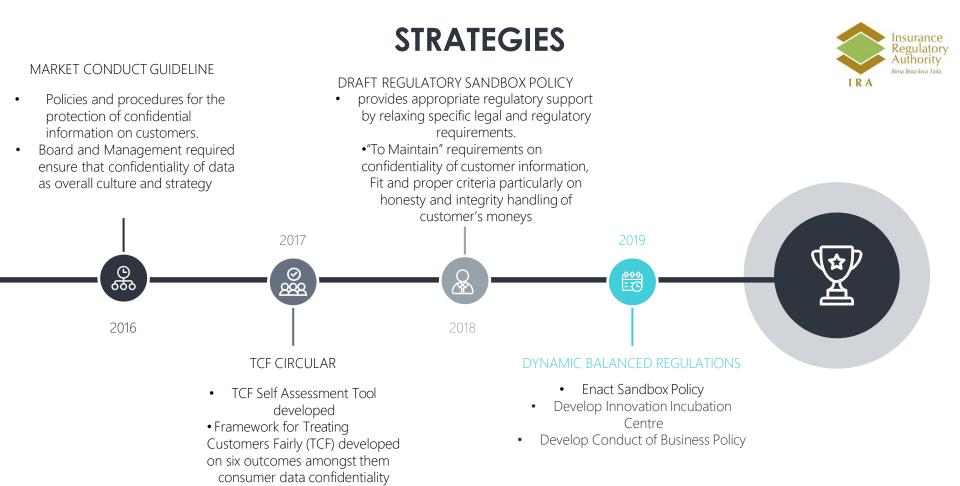
TCF Model of Consumer Protection aims to raise standards in the way firms carry on their business by introducing changes that will benefit consumers and increase their confidence in the financial services industry

REGULATORY SANDBOX



Framework employed to create experimental environment where FinTech/InsureTech can test new ideas and innovations in product design, product development and distribution with a leverage to contain the consequences of failure

Your logo



THANK YOU ASANTE!!

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The Role of the Regulator

Tim Mullen NAIC Director of Market Regulation January 24, 2019



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Regulating for Responsible Data Innovation

- Encourage innovation and maintain consumer protections
- Consumer Benefits
 - More accurate assessment of risk of loss
 - Faster processing of quotes and claims
 - Enhanced risk management and loss prevention
- Consumer Concerns
 - Accuracy and completeness of data
 - Disclosure to consumers and consumer consent
 - Privacy and cybersecurity
- NAIC Workstreams and Model Laws
 - Innovation and Technology (EX) Task Force
 - Big Data (EX) Working Group
 - Standards for Safeguarding Consumer Information Model Regulation (2000)
 - Privacy of Consumer Financial and Health Information Regulation (2002)
 - Insurance Data Security Model Law (2017)

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Case Study Data Breach and the Regulatory Response

• Four Stages of Exam

- Integration
- Initial Assessment
- Breach Assessment
- Cybersecurity Assessment
- Presentation of Exam Findings
 - Data Breach
 - Pre-Breach Cybersecurity
 - Pre-Breach Response Preparation
 - Response Adequacy
 - Post-Breach Cybersecurity
 - Corrective Actions

Questions and Comments

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Thank you. Save the Date! Next Consultation Call on 21 March, 2019 RegTech and SupTech: Implications for Supervision

