

Flooding





21 November 2019

Heatwaves





21 November 2019

3

Spread of disease





21 November 2019

4

Migration





21 November 2019

Climate emergency (or "climate conspiracy"?)

I want you to act as you would in a crisis. I want you to act as if our house is on fire. Because it is

Greta Thunberg, January 2019

We don't need an army of actuaries to tell us that the catastrophic impacts of climate change will be felt beyond the traditional horizons of most actors – imposing a cost on future generations that the current generation has no direct incentive to fix

Mark Carney, September 2015

Trustees need to think very seriously about climate change risk and actually their true role of duty to the beneficiaries, by which I mean, there's no point having a nice pension if you haven't got a world to live in

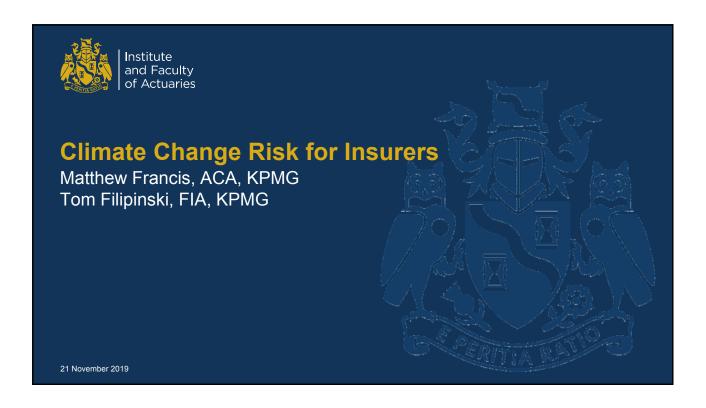
Ed Davey, May 2019

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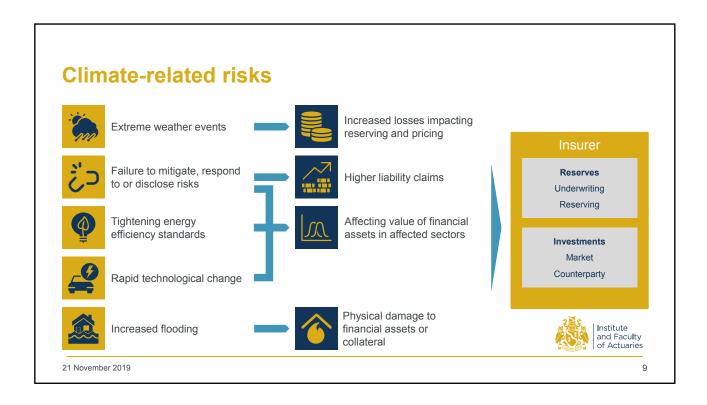
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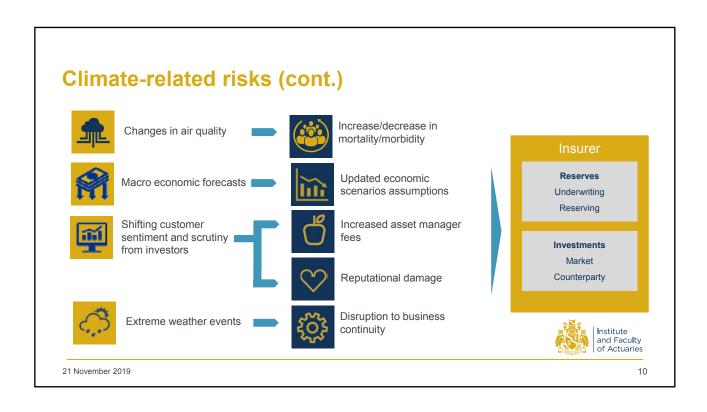


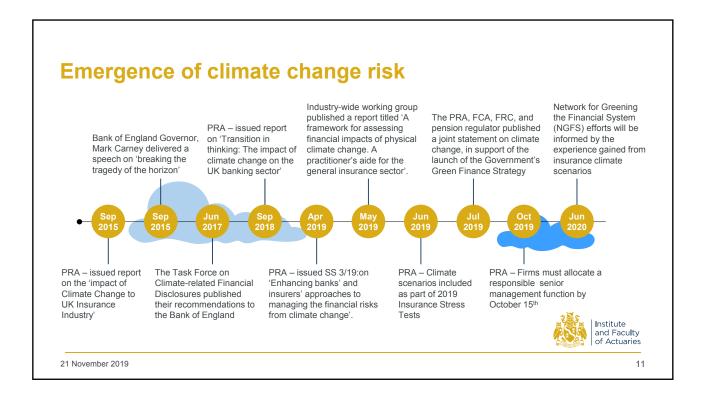
Agenda

- 1. What are climate-related financial risks?
- 2. How has insurance regulation reflected climate change risks to date?
 - What developments have occurred at European level?
- 3. What must UK insurers to do respond to SS3/19?
 - Who is responsible for climate change?
 - What does a climate change plan look like?
 - How does the time horizon for climate change risks differ from that current practice?
 - What challenges for life insurers in developing appropriate scenarios for stress testing?
 - What factors should a life actuary be aware of when considering climate change risk management?
 - How are insurers currently disclosing climate change risks in public reports?









What developments have occurred at European level?

ECO labels for green financial products

Non-Financial Reporting Directive requires companies to provide environmental, social and governance related disclosures in Management Report.

EU Green Bond Standard

EIOPA Opinion on sustainability within Solvency II to be incorporated within European Commission 2020 review (report due 1 January 2021)

In June 2019 the European Commission (EC) has published new guidelines on reporting climate-related information, supplementing its non-binding guidelines on non-financial reporting published July 2017.

Development of an EU Sustainable Finance Taxonomy

Transparency of integration of sustainability risks in the financial advice process and transparency over financial products.

Benchmarks comprising low-carbon and positive carbon impact investments and ESG disclosures.

EIOPA technical advice on potential amendments to Solvency II and Insurance Distribution Directive (IDD) on integration of sustainability risks and factors into organisational requirements; operating conditions; risk management and target market assessment.



An overview of SS3/19 regulatory expectations



Disclosures proposed to increase transparency of firms' approaches to managing climate related financial risks



Governance

Firms are expected to appoint a responsible senior management function(s) and embed climate change in their governance arrangements



Risk Management

Firms are expected to incorporate the financial risks from climate change into existing financial risk management practice



Scenario Analysis

Firms should use scenario analysis to inform strategy setting and risk assessment and identification.



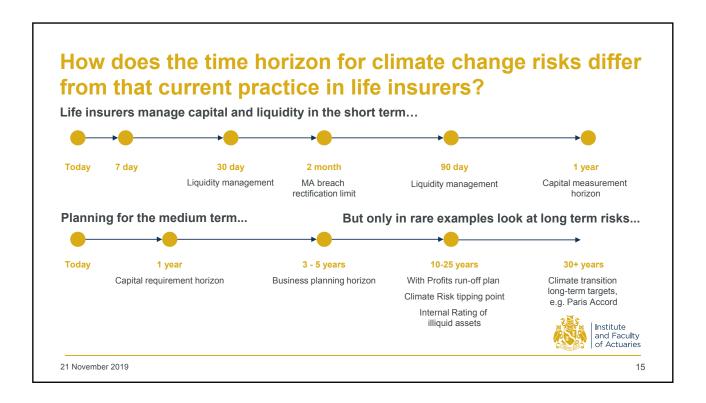
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Who is responsible for Climate Change?

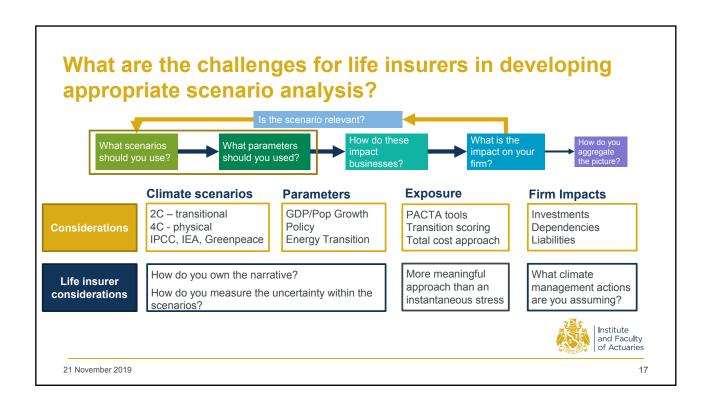


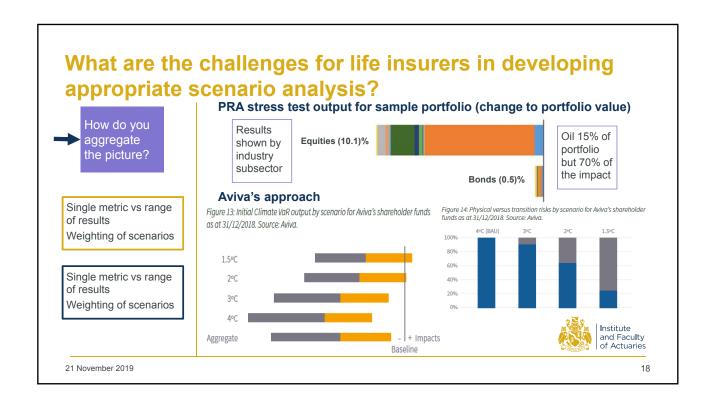
- CEO / CFO / 1st Line of Defence
- CRO / 2nd Line of Defence
- Both 1st and 2nd Lines of Defence
- CSR team
- Don't Know











What factors should a life actuary be aware of when considering climate change risk management?



wrong but it is about explaining the thought process



Scenario analysis can be about more than just financial impacts



Capturing the dynamic nature between physical and transitional risks is key



Indicating the uncertainty in the results helps communicate to users.

This is a fast developing field and best practice is still emerging



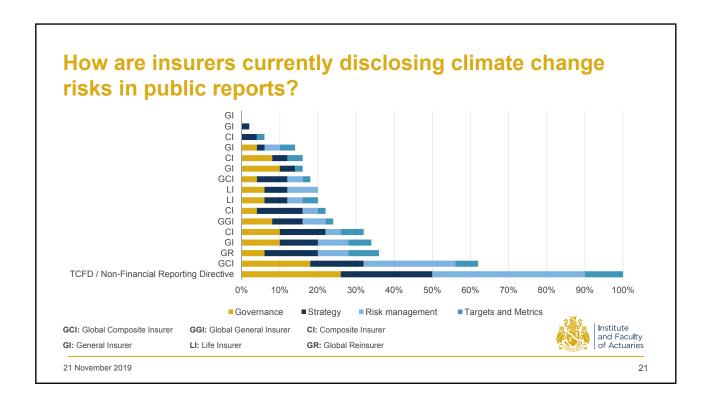
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How are companies disclosing climate change risks in public reports?

Recommendation	Recommended disclosure	Banking	Insurance	Energy	Materials & Buildings	Transport	Agri, Food & Forest	Tech & Media	Consumer Goods
Governance	a. Board Oversight	48%	29%	38%	37%	25%	22%	19%	29%
	b. Management's Role	54%	35%	32%	35%	18%	26%	17%	40%
Strategy	a. Risks and Opportunities	51%	39%	57%	50%	39%	40%	38%	50%
	b. Impact on Organisation	55%	26%	64%	65%	34%	45%	25%	52%
	c. Resilience of Strategy	20%	12%	13%	12%	5%	4%	2%	6%
Risk Management	a. Risk ID and Assessment Processes	52%	30%	38%	41%	23%	24%	24%	22%
	b. Risk Management Processes	46%	33%	42%	39%	17%	26%	19%	23%
	c. Integration into overall Risk Management	32%	16%	21%	18%	11%	9%	17%	21%
Metrics and Targets	a. Climate-Related Metrics	51%	27%	49%	63%	36%	45%	37%	55%
	b. Scope 1,2,3 GHG Emissions	42%	22%	39%	41%	28%	26%	29%	38%
	c. Climate-Related Targets	50%	24%	45%	53%	32%	30%	24%	51%

Source: Mark Carney Speech on TCFD: strengthening the foundations of sustainable finance
The Task Force on Climate-related Financial Disclosures Status Report, June 2019

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Key takeaways



- Have wider strategic conversations and do broader education. Use regulatory expectations as a prompt
- 2. Remember there are opportunities as well as risks to manage
- Reuse existing frameworks and approaches, but recognise the differences
- Align your risk appetite with the climate change risks and opportunities you carry (e.g. not writing certain sectors)
- Rationalise your own climate scenarios. Do your homework, galvanise your team
- Expand your tool kit to enable you to carry out impact assessments over your climate scenarios (e.g. adjusted cat models, dynamic risk assessment)
- 7. Be wary of assumptions/statements you make about "green" companies, particularly in light of your firm's own credentials
- 8. "Don't let perfect get in the way of the good"

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Speaker details



Matt Fran Director

T: +44 (0)20 7311 5506

E: matthew.francis@kpmg.co.uk



Tom Filipinski

Manager

T: +44 (0)20 7896 4293

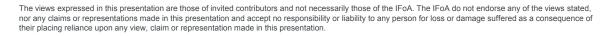
E: thomas.filipinski@kpmg.co.uk



21 November 2019 23

Questions

Comments



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