

Society of Actuaries in Ireland

Reinsurance Forum: The Future of Underwriting: Session 2

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Disclaimer

The views expressed in this presentation are those of the presenter(s) and not necessarily those of the Society of Actuaries in Ireland or their employers.

Q&A with Mandy Luo, ReMark Health Incentives through Wearables

Please click on the Hands Up icon to ask a question

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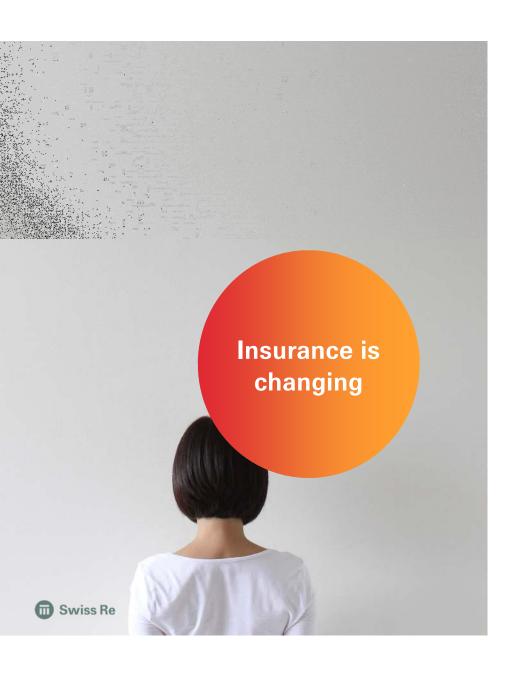
wait to be unmuted

or

Use the Q&A function







"Future of Underwriting"

...

Individualised insurance journey to meet the unmet customer needs.

But when will that future finally start?

Underwriting: the simmering revolution

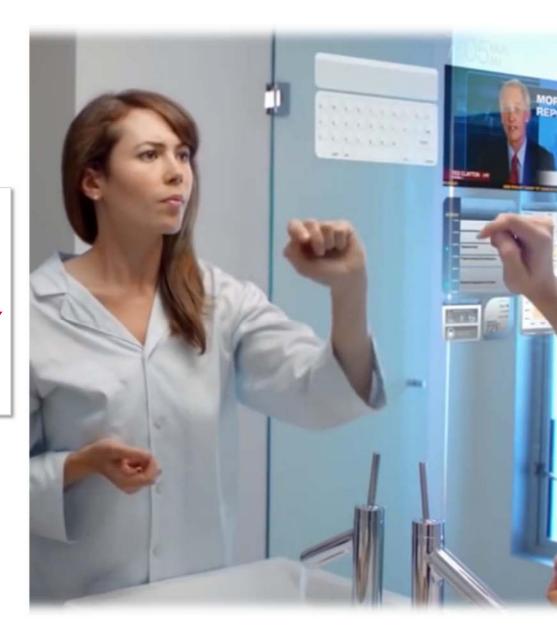
Pressures on the existing model....





To quote a famous philosopher: 'The times they are a-changin'

- Bob Dylan (1964)

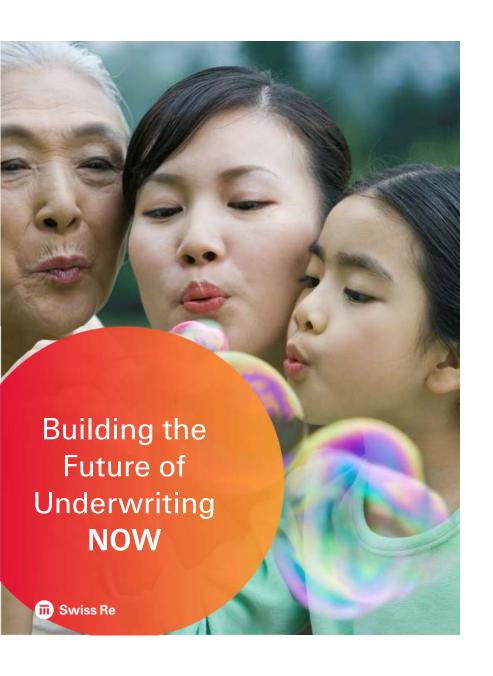




What have we been saying since 2015?







Today



Tomorrow

Disclosure Based UW



Static view of health



Insurer-led underwriting



Selecting risk via underwriting







Data Driven Invisible UW





Personalised Health Trajectory linked to lifestyle





Customer-led agile underwriting landscape





Transforming business with underwriting

So where did we think we would be by now as an industry and function?



Functions in which insurers apply data analytics *Survey question*: To which functions do you apply Big Data analytics?

Note: Note: if an insurer chose "today" but not "in 3–5 years", the "3–5 years" option was considered to be chosen as well.

Source: Global Digital Insurance Benchmarking Report 2015, Bain & Company, 2015.



Underwriting: the simmering revolution

Pressures on the existing model – but maybe some of these actually prevent innovation.....





But insurtech investments are piling up, with high ambitions...

from the possible...



extract risk factors from paper submissions...

...to the plausible...



use banking data for risk stratification...

...to the harder to achieve



quantify mortality risk based on face pictures...

Often disappointing results, but with positive unexpected outcomes











Data Capable



Sales Expert



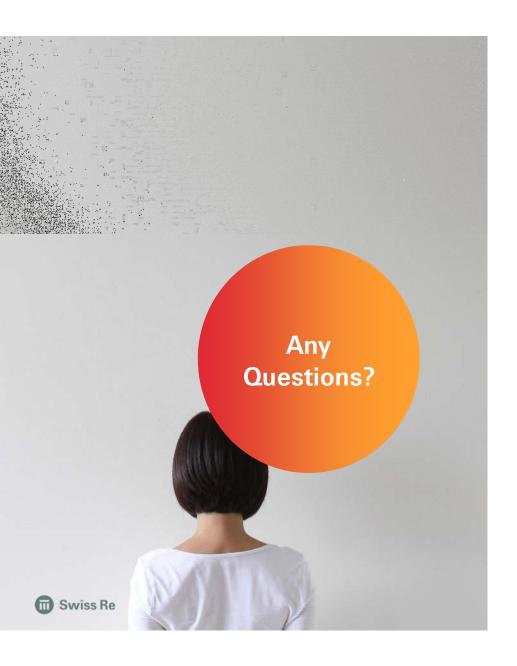
Behavioural expert



Legal Expert





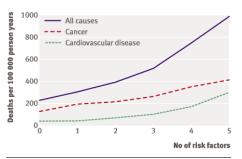


Underwriting: the simmering revolution

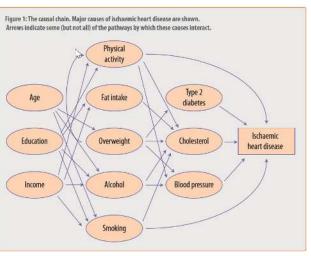
And if we have time, some evidence to justify the More Lifestyle, Less Medical

Table 1 | Multivariate relative risk of death from any cause, cardiovascular disease, and cancer during 24 years of follow-up according to body mass index, cigarette smoking, alcohol consumption, physical activity, and diet*

		Deaths from any cause		Cardiovascular deaths		Cancer deaths	
	Person years	Cases	Relative risk (95% CI)	Cases	Relative risk (95% CI)	Cases	Relative risk (95% CI)
Body mass index (k	g/m²)						
18.5-24.9	1 174 514	5095	1.00 (1.00 to 1.00)	855	1.00 (1.00 to 1.00)	2747	1.00 (1.00 to 1.00)
25-29.9	404 856	2359	1.18 (1.12 to 1.24)	511	1.46 (1.31 to 1.63)	1195	1.14 (1.06 to 1.22)
≥30.0	180 039	1428	1.67 (1.57 to 1.78)	424	2.81 (2.49 to 3.17)	585	1.32 (1.21 to 1.45)
Cigarette smoking							
Never	787 104	2998	1.00 (1.00 to 1.00)	595	1.00 (1.00 to 1.00)	1519	1.00 (1.00 to 1.00)
Past	667 250	4076	1.52 (1.44 to 1.59)	743	1.49 (1.33 to 1.66)	2079	1.47 (1.37 to 1.57)
Current 1-14/ day	104 428	609	1.94 (1.77 to 2.12)	145	2.61 (2.17 to 3.14)	318	1.82 (1.61 to 2.06)
Current ≥15/day	200 626	1199	2.32 (2.16 to 2.49)	307	3.34 (2.88 to 3.87)	611	2.10 (1.90 to 2.32)
Alcohol consumption	on† (g/day)						
0	386 395	2044	1.00 (1.00 to 1.00)	502	1.00 (1.00 to 1.00)	887	1.00 (1.00 to 1.00)
1-4	745 039	3589	0.81 (0.76 to 0.85)	712	0.69 (0.61 to 0.77)	1878	0.97 (0.90 to 1.06)
5-14	405 344	1861	0.80 (0.75 to 0.86)	324	0.63 (0.54 to 0.73)	1023	0.99 (0.90 to 1.09)
15-29	155 024	900	0.90 (0.83 to 0.98)	168	0.75 (0.62 to 0.90)	492	1.11 (0.99 to 1.24)
≥30	67 369	485	1.11 (1.00 to 1.23)	82	0.75 (0.59 to 0.96)	246	1.26 (1.09 to 1.46)
Physical activity‡ (h	nours/week)						
0-0.4	116 915	1143	1.00 (1.00 to 1.00)	231	1.00 (1.00 to 1.00)	513	1.00 (1.00 to 1.00)
0.5-1.9	596 872	3366	0.84 (0.78 to 0.90)	715	0.94 (0.81 to 1.09)	1644	0.88 (0.79 to 0.97)
2.0-3.4	370 631	1690	0.77 (0.71 to 0.83)	345	0.87 (0.73 to 1.03)	896	0.83 (0.75 to 0.93)
3.5-5.4	201 459	768	0.72 (0.65 to 0.79)	126	0.70 (0.56 to 0.87)	446	0.82 (0.72 to 0.94)
≥5.5	248 639	636	0.63 (0.57 to 0.69)	96	0.57 (0.45 to 0.73)	379	0.73 (0.64 to 0.84)
Healthy diet score§							
Fifth 1	337 747	2122	1.00 (1.00 to 1.00)	443	1.00 (1.00 to 1.00)	1038	1.00 (1.00 to 1.00)
Fifth 2	348 559	1848	0.85 (0.79 to 0.90)	427	0.96 (0.84 to 1.10)	891	0.83 (0.76 to 0.91)
Fifth 3	355 705	1766	0.80 (0.75 to 0.85)	344	0.78 (0.67 to 0.90)	895	0.81 (0.74 to 0.89)
Fifth 4	359 442	1701	0.76 (0.71 to 0.81)	326	0.75 (0.65 to 0.87)	894	0.80 (0.73 to 0.87)
Fifth 5	357 955	1445	0.65 (0.61 to 0.70)	250	0.59 (0.51 to 0.70)	809	0.72 (0.65 to 0.79)



Age standardised all cause, cancer, and cardiovascular mortality during 24 years of follow-up by number of lifestyle risk factors included cigarette smoking (ever), lack of physical activity (<30 min/day moderate to vigorous intensity activity), low diet quality (lowest three fifths of healthy diet score), alcohol intake of 0 or ≥15 g/day, and overweight (body mass index ≥25)



WHO Underwriting: the simmering revolution



We're smarter together

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