

Automation and Underwriting

CURRENT ENVIRONMENT

- Underwriting automation today
- Underwriting trends
- Consumer trends and behaviours New, what's new?

SMART WAYS FORWARD

- A smarter way to connect with our consumer?
- A smarter way to assess risk?
- 5th Generation automation

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UW Automation - Definition and Trends

Straight Through Processing – how many definitions are there?

Some market consensus towards:

"An automated and final underwriting decision applied to an applicant by an underwriting rules engine where no manual intervention is required"

(A. Smith circa 2012)

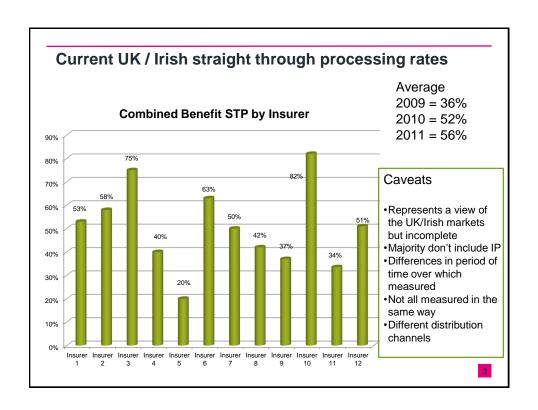
Components

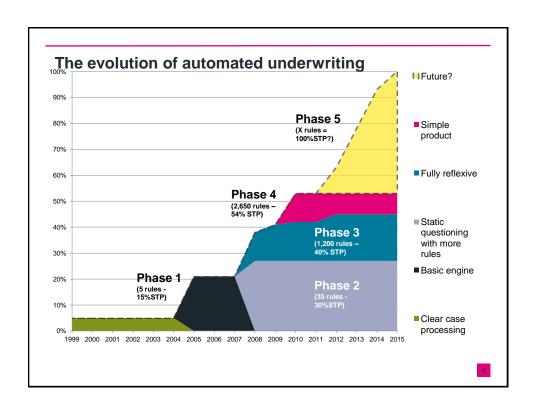
- standard rates
- loaded terms
- exclusions
- postpone
- decline
- downgrades

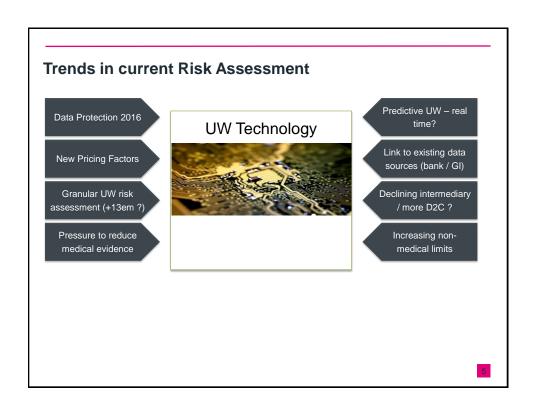
Straight Through Processing

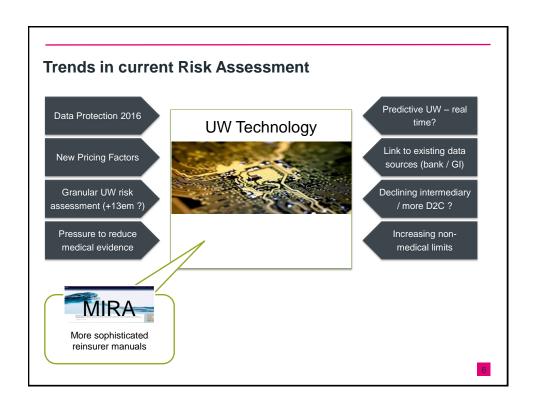
Variances

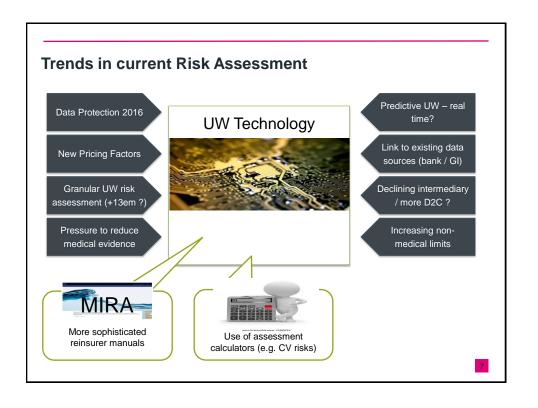
- Recorded by cover, by life or by case?
- Include further evidence requests?
- Is a decline / postpone decision actually issued or referred to UW to issue?
- Case submitted versus decision reached but not proceeded with?

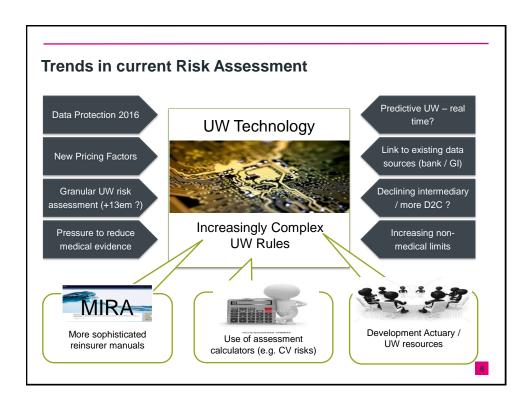


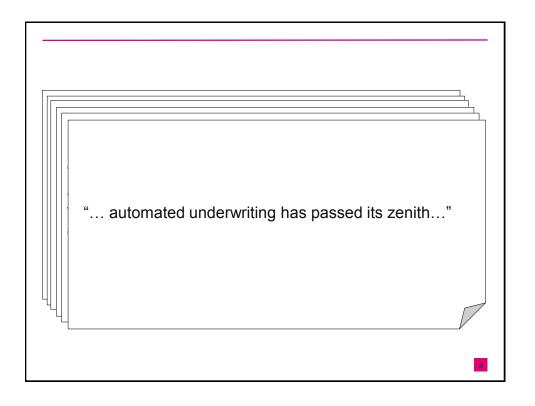






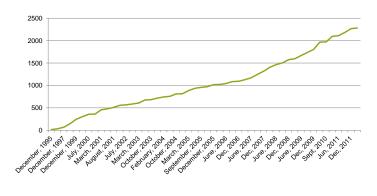






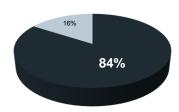
NEW CONSUMER BEHAVIOUR?

INTERNET USAGE GROWTH FROM 1995 - 2012

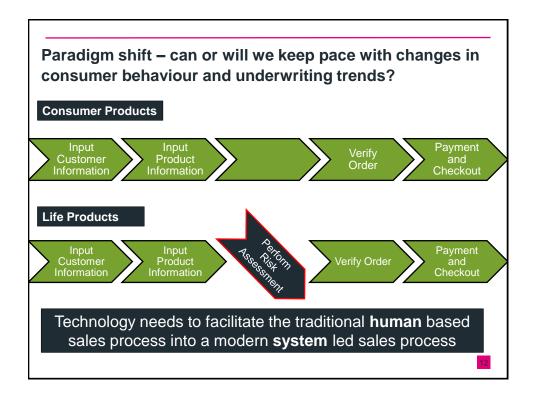


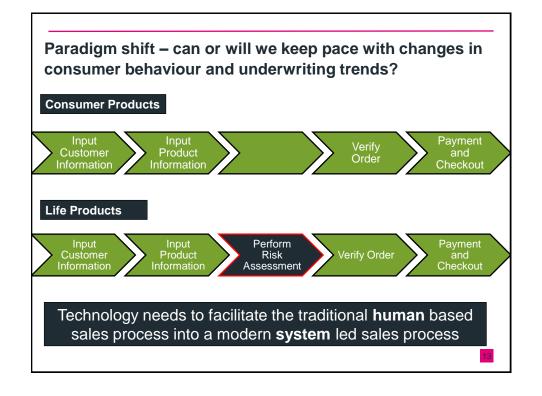
UK Internet Usage 2011

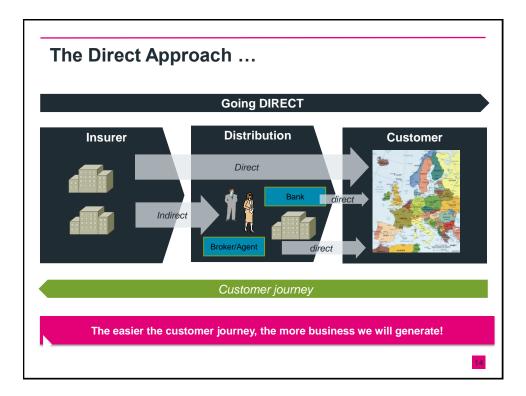
Percentage of UK Population Online



- 84% of UK population are on line
- 74% (nearly 47 million people) will go online at least once per month in 2012, primarily from home
- Proportion of households online up from 63% in 2006 to almost 85% in 2011
- Adults in the U.K. used the internet on average 8 to 11 hours per week in 2011







The smarter way ...

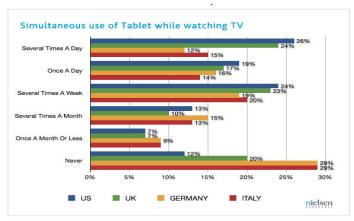
- 49% of the UK population have a smart phone.
- 50% of android smart phone and 43% of Apple iPhone users are below 34.
- 89% of smart phone owners use their phone every day.
- 10% of all global web page views are from mobile devices
- 79% of online advertisers still do not have a mobile optimised website.

I am my phone and my phone is me ...

- Mobile Wallet
- Mobile Access

5





- "Using a tablet or smartphone while watching TV is more common than not," reported Nielsen in April 2012.
- Forrester reports that 63% of Gen Xers and 74% of Millennials use a secondscreen device more than half the time they watch TV.

Smart monitoring, smart health, new data ...

- Smart-phones through wristbands/shoes
 - data gathered through sensors embedded in users' clothing to provide
 - Information
 - recommendations
 - reminders
 - track physical activity
 - track sleep patterns
 - track calorie intake
 - use data to get tailored advice on how to make health improvements in real time.
- Medical Services:
 - remote monitoring services
 - remote advice services
 - could cut 10-12% from the \$6 trillion annual spend on health care worldwide (McKinsey & Co)
- · Personal Data Store of Lifestyle Data



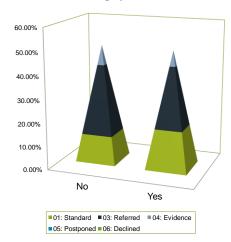




Is there a SMART way to assess risk?

... access the customer directly

Automated decisions with the applicant present when the underwriting questions were completed



5% more STD rates 3% less refer UW 2% less evidence

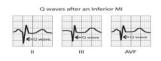
STP Uplift 10%



Why technology is needed to by-pass customer responses

The limitations of Underwriting based on applicant disclosure



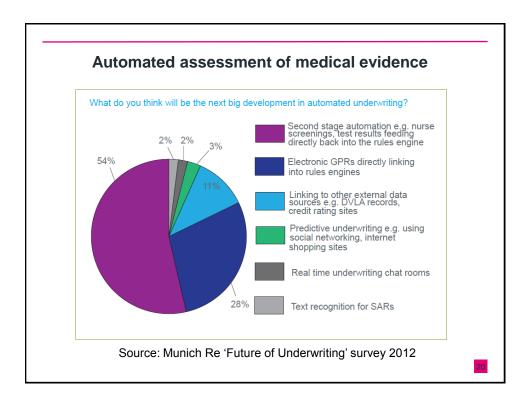


Three options available:

 Serious heart problem = Decline

(risk damage to brand / turn away insurable business)

- 2. Guess = +100em? +300em? (if wrong = lapse, churn or NTU)
- 3. Simple faint = O/R (Experience impact? Attract antiselection?)

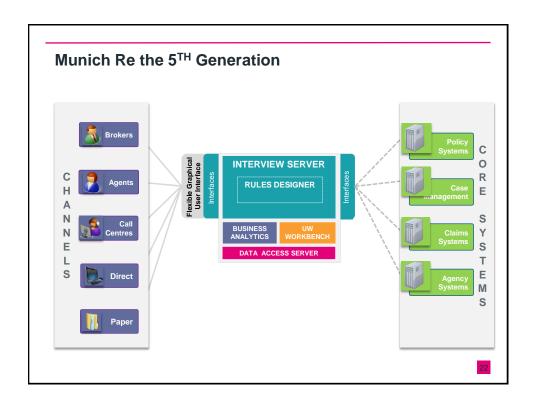


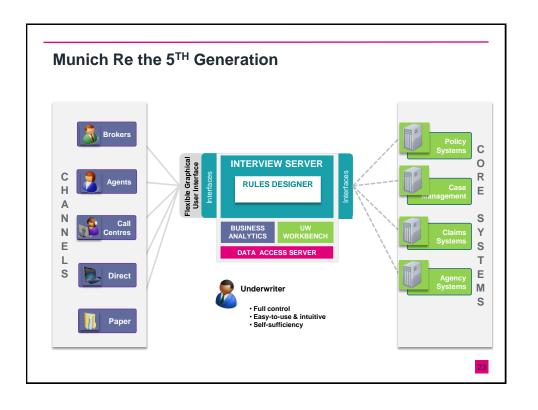
What does this mean ...

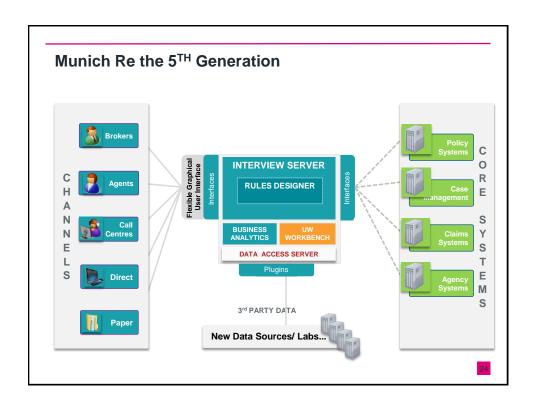
8 Technologies that will Shape the Future

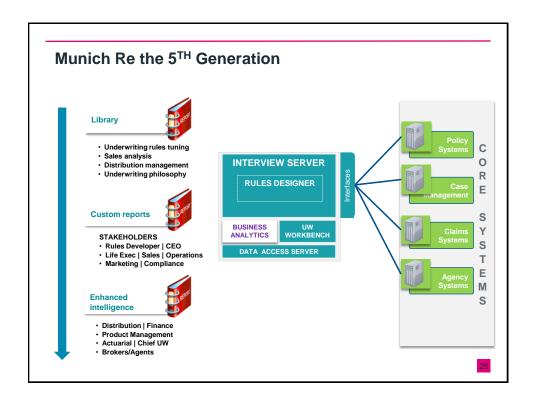
- 1. Smartphones
- 2. 3G and 4G Wireless Broadband
- 3. Cloud Computing
- 4. Eye-Tracking / Voice Commands
- 5. Augmented Reality
- 6. Social Networking
- 7. CAD, 3D Printing & Custom Products
- 8. Autonomous Cars

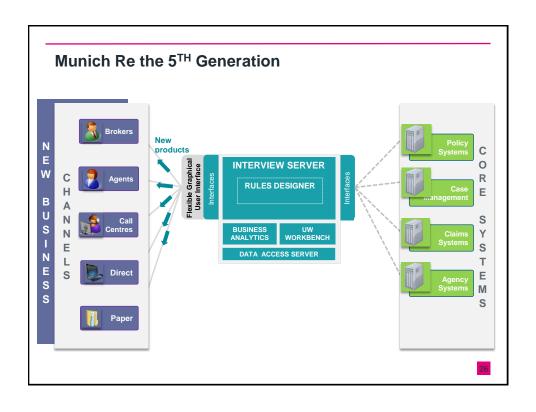
Source: Mashable

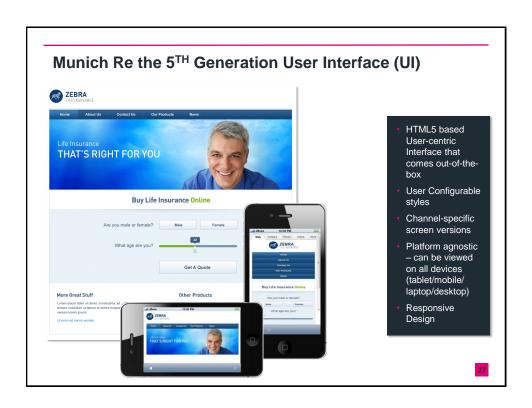












Insurance Market Trends

"We expect many players ...
to continue to struggle to differentiate between
what sounds like a great idea
and
one that will result in a sustainable business,"

"But for insurers that can stay ahead of the curve and competition, drawing successful lessons from global players,

direct business will reach well beyond the fraction that it is today"

Head of Insurance Strategy for Oliver Wyman

Questions or comments?

Expressions of individual views by members of The Actuarial Profession and its staff are encouraged.

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

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THANK YOU VERY MUCH FOR YOUR ATTENTION

5th November 2012

Diane O'Brien & Andy Smith

