

# Financial advice – a cottage industry

"The practices of advisers today in giving advice are the same as they were 20 years ago."

Michael Wall - Regional MD London, 1825



29 November 2018

3

# **Customers need advice at retirement**

Customer demand for advice at retirement

- Flexibility and choice post-pension freedoms
- Risk of costly mistakes

Limited advice capacity in the market

- · Industry dominated by manual processes which limit scale
- Very low ability to invest to industrialise processes
- Unaffordable for many (c£3k+ upfront)

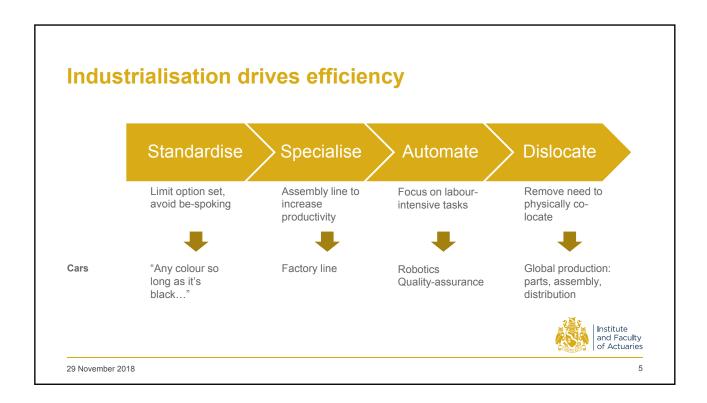
Weak digital advice landscape, so far

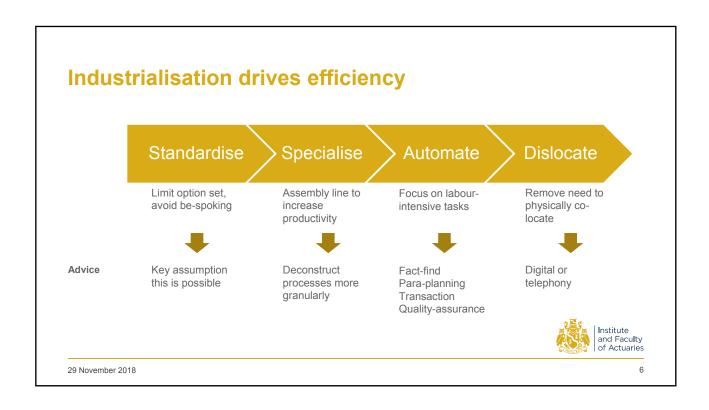
- · Generally accumulation focussed
- · Informed choice, not advice
- Retirement advice limited, journeys lack engagement

Challenge to drive capacity and reduce cost



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# Memory game (find something to write with)

Bed Doze

Rest Slumber

Awake Snore

Tired Nap

Dream Peace

Wake Yawn

Snooze Drowsy

**Blanket** 



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# Do you remember?

Bed

**Blanket** 

Sleep

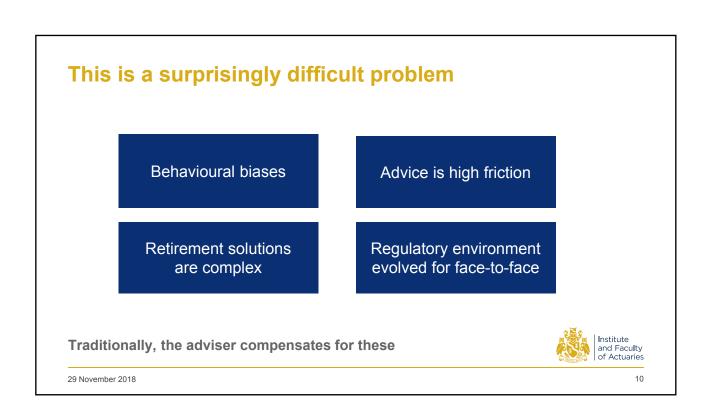


Source: Roediger, H. & McDermott, K., (1995), 'Creating False Memories: Remembering Words Not Presented in Lists', *Journal of Experimental Psychology: Learning, Memory, and Cognition*, Vol. 21, No. 4, pp. 803-814.



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# Humans come with behavioural bias built-in



### Choiceoverload

Decision making compromised with too much information

As actuaries, can we judge the right level?



### Overconfidence

Think they know more than they do (e.g. unrealistic downsizing)

How do we manage user disappointment?



# Mental accounting

Treat money differently because of its origin (e.g. pensions v savings, inheritance)



### Present Bias

Over-weighting immediate payoffs (e.g. caravan)



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# **Motivating through friction**

# Digital is different

# Making it easy (and look easy)

- Remove unnecessary steps (e.g. prepopulate what we know)
- Defer harder steps where possible (e.g. attitude to risk, terms of business etc)
- Treat attention as a scarce resource
  - Curse of knowledge
  - Remove visual clutter

# Value exchange

Showing the solution as it develops

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# **Managing cognitive load**

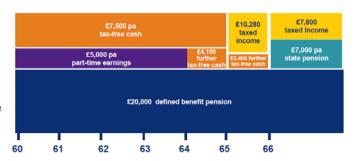
# Retirement advice is highly complex

- Interaction between pensions, savings, other incomes
- Annuity v drawdown

# **Key principles**

- Story telling smaller steps, just-in-time
- Manage working memory
- Summarise and repeat

Test, test, test...





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# Advice rules have evolved for face to face

Supporting the client through the fact-find

When is this "leading the witness"?

Advice v guidance perimeter

- Value exchange => show the "solution" as it develops
- · When does this become advice?

Experience & knowledge

• How to ensure client has "the necessary experience and knowledge in order to understand the risks"?

Vulnerability

How to assess digitally?

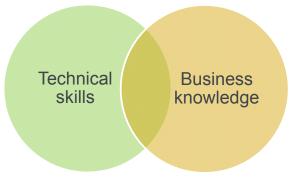


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# Digital first or digital only? Machines good at: **Humans good at:** · Hard sums - quickly · Sense-checking Drawing pictures, interactivity · Explaining and assessing comprehension (& vulnerability) Following procedures · Creating rapport, encouraging & motivating Suitability letter Letters of authority Para-Discovery meeting Fact-find Transaction planning Digital Human Digital Institute and Faculty of Actuaries 29 November 2018



# Modelling - Do actuaries have the skills?



# Know what you are trying to model

- · Do you have the right skillset?

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# **Modelling – The Adviser's Craft**



# Know what you are trying to model

- The adviser's craft Is the process well defined and complete before automation?
- · Advice is often run as a bespoke service



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# Modelling - The rules remain the same

Modelling needs to keep the significant features of real life and simplify everything else:

# Know the key drivers

- · Focus on the big things
- Here tax / source of income, time horizon, fund choice, fees

# **Know your simplifications**

- · Approximate where necessary, check simplifications are not material
- Here time steps, mortality

### Know when the model breaks down

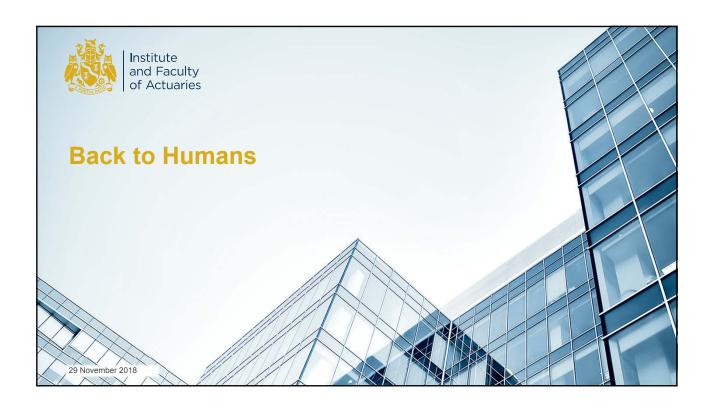
- · Fail out when answers are wrong
- · Warnings when answers look odd



· Do you have one? Do you apply it here?







# **Data Input by Humans**

# Customer don't know what they have

- · Data collection was always difficult pre-automation but fees were high and processes very manual
- We could repeat that process (or in short term at least)
- Some processes will translate (e.g. where did you work?)
- · We are driving efficiency through industrialisation so need a new process
- · Education likely to play a big role

### Customer don't know what they want

- · Does the customer understand what they want?
- · We are experts and need to help
- · Are you in the customer's world, helping them in their own mind set?





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# **Sense Checking Data Inputs**

# This is hard!!

Human are really good at sense checking data. How do you do it when you remove the humans?





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# Sense Checking - An Example

# Single male customer

58 years old	£25k salary	£500k house
£500k pension	£150k savings	No debt
High expenses	Expensive car	Swiss watch

· Assets and lifestyle look too big relative to salary!

### Human adviser would have a conversation?

- · Divorce?
- · Partially retired, previously had much bigger salary?
- · Inheritance?
- · Lottery win?



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23

# **Sense Checking Data Inputs by Machine**

Understand all relevant data relationships

- There are many data relationships (salary, assets, DB pensions, house value, mortgage value)
- Noting events like divorce or spouse's death can throw them out

Simple benchmarks

• Population data and research may be relevant to set benchmarks

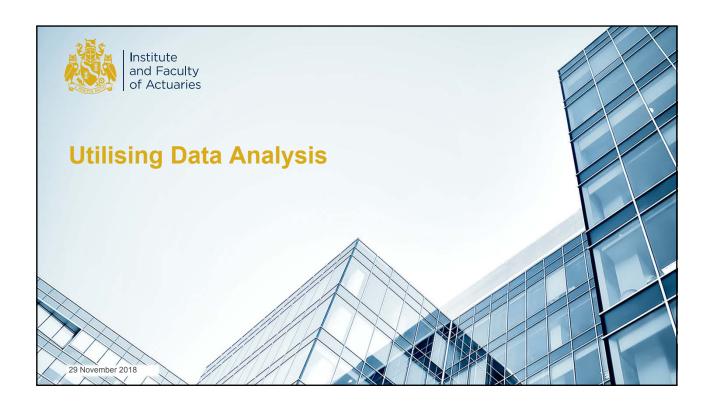
Hard & soft limits

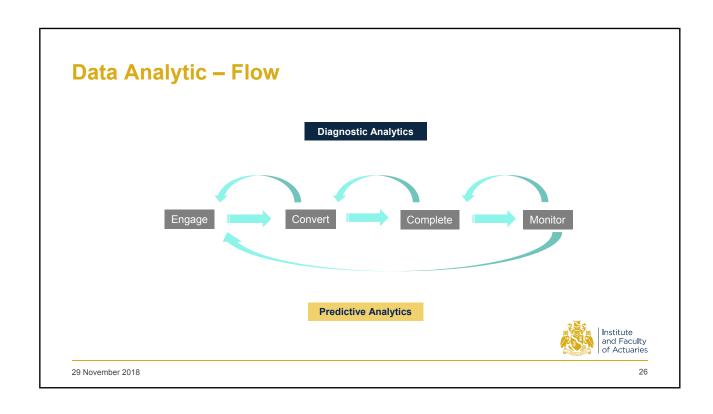
- How do you replicate "that doesn't feel right?"
- · Need to decide how limits should be applied in an online environment
- Hard fail-outs or "are you sure?"

Do humans continue to play a role?



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# **Data Analytics**

Automation should improve the accessibility and quality of data. How does that help?

### **Accessible Data**

- · Access to the right data is crucial
- New data feeds and data storage are probably required

# **Predicting Behaviour & Problems**

- Guess and learn
- · Test with 'real' people as you develop
- · Keep analysing what real customers do when live
- Constantly re-cycling learns
- · Al or 'human intelligence'?

### **Example**

· Analyse customer data to select most likely to take up offer and complete





# The Future - More Automation?

### More data accessible real-time

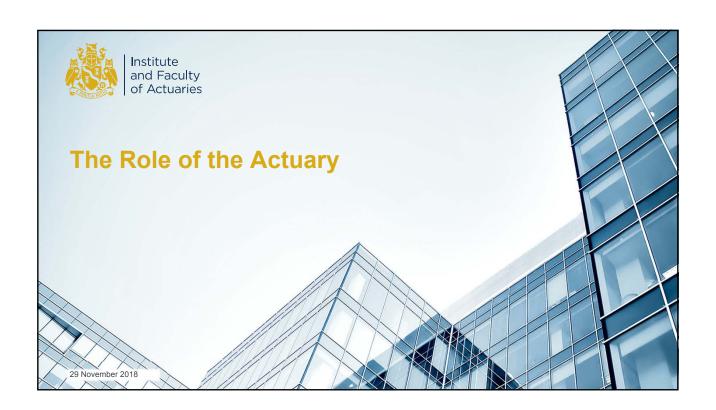
- · Pensions dashboard and beyond
- · Open Banking
- · Voice recognition

# Acceptability of online by next generation

- Engagement online likely to increase with passage of time
- Speed, cost / competition and convenience will become more dominant
- May hit the point where people prefer and trust online more







# The Actuary of the Future

### **Core Modelling Skillset**

- · A financial model is at the heart of digital advice
- · Traditional modelling techniques apply

### **Data Science**

· Data analysis is key to controls and predictive models

### **Behavioural Finance**

· Can actuaries own this space?

### **Building Business Knowledge**

- · Few actuaries have the necessary business knowledge to give personal financial advice
- · But we are good learners!



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# **Questions** Comments

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