





Developing effective communications for aging audiences

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Aging

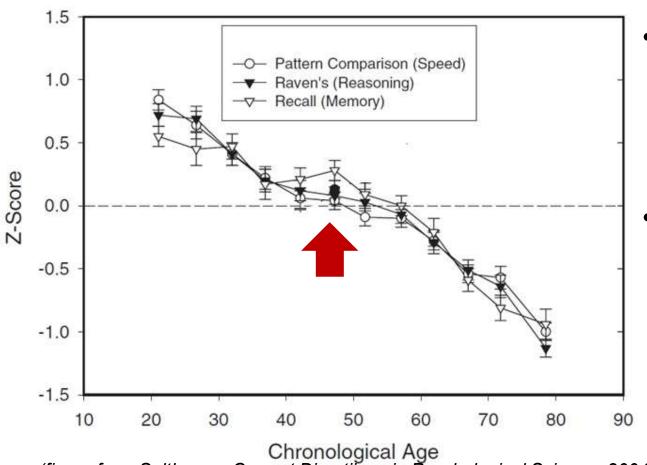
- Population age is increasing worldwide
- Older adults face difficult pension decisions
- New literature on aging and decisionmaking competence
 - 4 emerging findings
 - implications for pension communications



Overview

- 1. Key findings from literature on aging
- 2. Suggestions for pension communications
- 3. Take-home messages

Finding 1: Decline in 'fluid' cognitive abilities

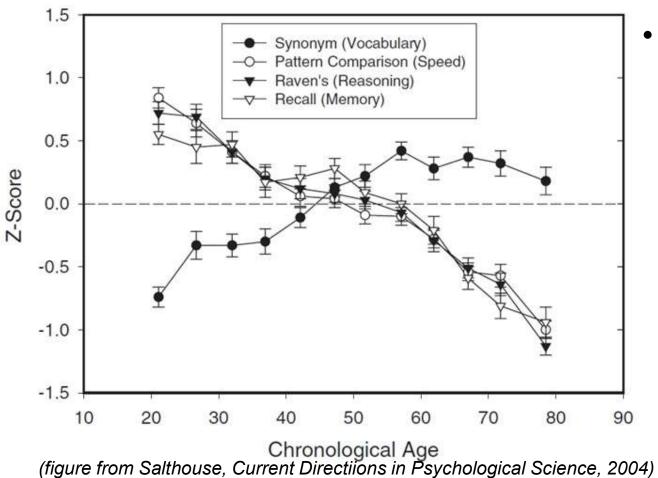


- Older adults do worse than younger adults on complex decision tasks
- But they do just as well on simple decision tasks

(figure from Salthouse, Current Directions in Psychological Science, 2004)

See: Bruine de Bruin et al., Journal of Behavioral Decision Making, 2012

Finding 2: Increased experience



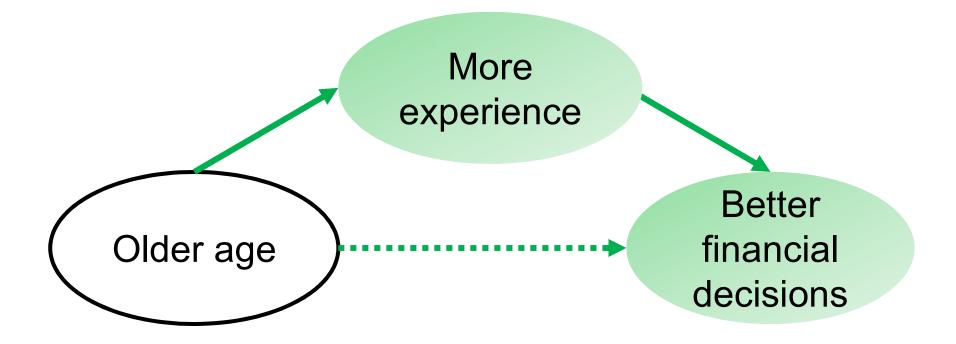
Experienced decision makers may not have to think as hard about their decisions

Bruine de Bruin et al., Journal of Behavioral Decision Making, 2012

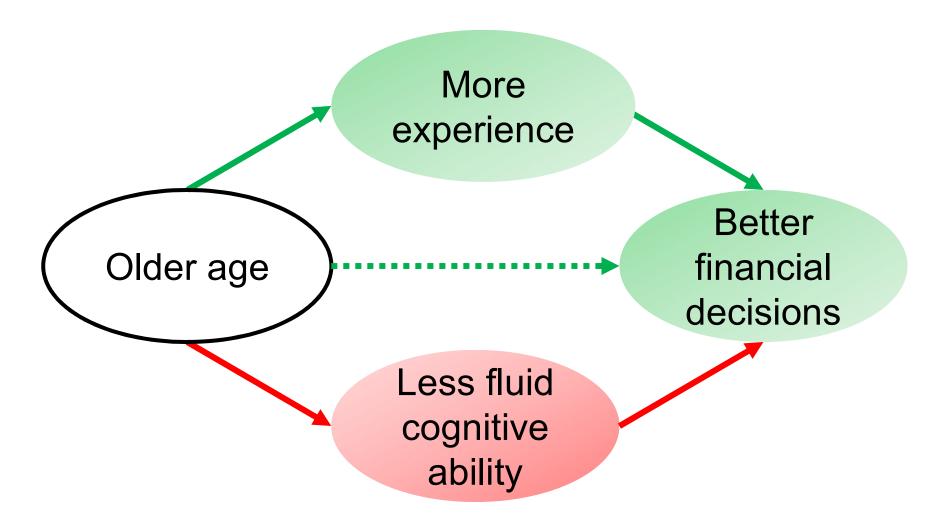
2: Experience-based knowledge



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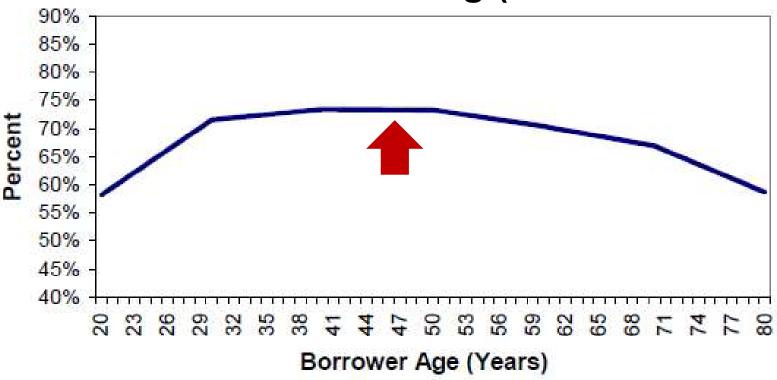
2: Experience-based knowledge



Li et al, Psychology and Aging, 2013; PNAS, 2015

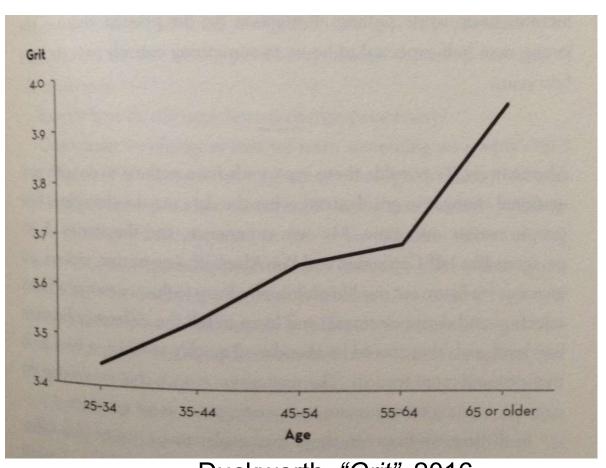
Finding 2: Increased experience

Financial decision making (about credit cards)



Agarwal et al., Brookings Papers on Economic Activity, 2009

Finding 3: Age-related change in motivation



Grit means
 selective
 motivation for
 personal goals
 (vs. other
 goals)

Duckworth, "Grit", 2016

Finding 3: Age-related change in motivation

Table 1—Variable Return Investments									
Name/ Type of Option	Average Annual Total Return as of 12/31/XX				Benchmark				
	Syr.	Syr.	10yr.	Since	1yr.	5yr.	10yr.	Since Inception	
Equity Funds	A Property			Steel P	Marine.	5-0191	200	81	
A Index Fund/S&P 500 www. website address	26,58	-143	-1,00A	9.25A	25.46%	.42% S	.95% M° 500	9.3KW	
B Fund/ Large Cap www. website address	27.6A	.99%	N/A	2.26N	27.80%	27.80% 1.02% N/A 2.77% US Prime Market 750 Index			
C Fund/ Int'l Stock www. website address	36,73%	5,20%	2.294	937%	40,40%	5.40% Ms	2,405 KO IWE	12.094	
D Fund/Mid Cap www. website address	40.22%	2.281	6,13%	3.29%	46,294	2.40% Rosse	-524 ell Middep	4.16%	
Bond Funds		ALC: US			0	775			
E Fund/ Bond Index www. website address	6,45%	4,40%	6,08%	7,08%	3.93%	4,97% Bacdays	6,00% Cap. Aggr.	7.01% Bd.	
Other									
F Fund/ GICs www. website address	72%	3.36%	3.114	5.56%	48.1	3,1% 3-month	DON US T-ROUTE	5.75% idex	
G Fund/Stable Value www. website address	4.36%	4.645	5,07%	3,754	1.8%	3.3% 3-month	3.0A US T-880 h	4,99% xdex	
Generations 2020/ Lifecycle Fund www. website address	27.94%	N/A	NA	2.45%	20.95A	N/A S	NA SP300	3.0%	
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- Many older adults dislike complex numerical information
- But they will spend effort, if information is relevant

Bruine de Bruin et al., Medical Decision Making, 2015

Finding 4: Better emotion regulation

- Emotional well-being improves with age
- Older adults are more focused on maintaining positive emotions
- Positive emotion focus affects decisions



Bruine de Bruin et al., Psychology & Aging, 2014, 2015

Overview

- Key findings from literature on aging
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Suggestions for communications

- 1. Target cognitive decline
 - Provide decision aids
 - Reduce number of options
- 2. Build on experience
 - Build on familiar examples
- 3. Improve motivation
 - Increase personal relevance
 - Set default
- 4. Build on emotions
 - Frame information positively
 See for reviews:

Bruine de Bruin, *Pension Research Council Publications*, in press; Strough, Bruine de Bruin, & Peters *Frontiers in Psychology*, 2015

Same for younger adults

Give younger 'safe' experiences

Provide monetary incentives?

Existing communications

- Many communications are disseminated without testing their effectiveness
- Those that are tested are often found to be ineffective, perhaps due to
 - Providing information that is too complex
 - Not covering what recipients want or need to know
 - Not involving psychologists



Behavioral decision research approach to developing communications

- 1. Normative: What should people know to make more informed decisions?
 - Literature review and expert panel
- 2. <u>Descriptive</u>: What do people already know and how are they making their decisions?
 - Interviews and surveys
- 3. <u>Prescriptive</u>: What do people still need to know to make more informed decisions?
 - Compare step 1 and 2 to develop message
- 4. Evaluation: Does the communication help people to make more informed decisions?
 - Evaluate message effectiveness

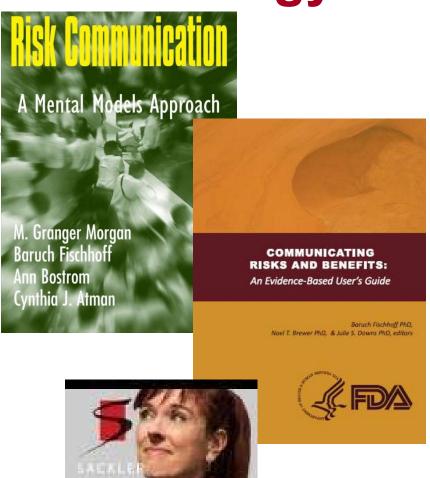
More about the methodology

Morgan, M.G., Fischhoff, B., Bostrom, A., & Atman, C. (2002). *Risk communication: A mental models approach.* New York, NY: Cambridge University Press.

Fischhoff, B., Brewer, N.T., & Downs, J.S. (2011). Communicating risks and benefits: An evidence-based user's guide. USFDA.

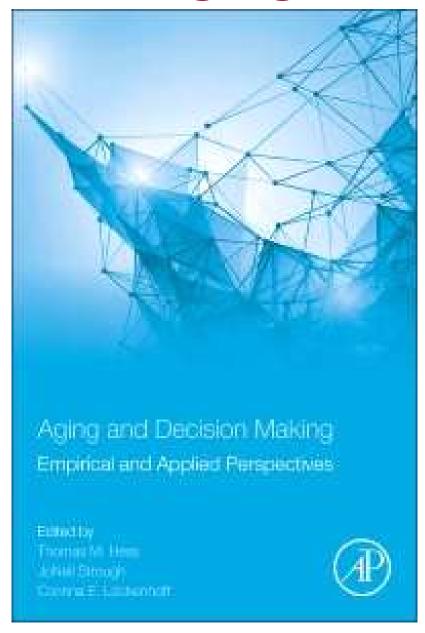
(www.fda.gov/oc/advisory/ OCRCACACpg.html)

Bruine de Bruin, W., & Bostrom, A. (2013). How to assess what to address in science communication. *Proceedings of the National Academy of Sciences*, 110, 14062-14068.



Also on YouTube

More about aging audiences



Overview

- Key findings from literature on aging
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Take-home messages

- Older adults face cognitive decline
- Age is also related to more experience, changes in motivation and emotions
- Communication should be designed with audience members' strengths and weaknesses in mind
- Collect data to understand your audience
- Test messages <u>before</u> disseminating them
- Psychologists can help

Related projects in Centre for Decision Research

- Understanding age differences in financial decision making (with Wiebe Eberhardt, funded by EU)
- Helping people in financial distress (funded by Leverhulme Fellowship to Simon McNair)
- Using graphs to improve communications (funded by Cancer Research UK Fellowship to Yasmina Okan)
- Understanding patients' preferences for health information (funded Swedish Riksbanken Jubileumsfond)





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www.leeds.ac.uk/decision-research/

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