



# Financial Product Development: A Marketing-Finance Approach

Dr. Arvid O. I. Hoffmann & Dr. ir. Nikos Kalogeras

**Thursday October 8, 2015**  
**GSBE Marketing-Finance Symposium**

*"The Whole is Greater Than the Sum of Its Parts (III)"*

## Overview of Presentation

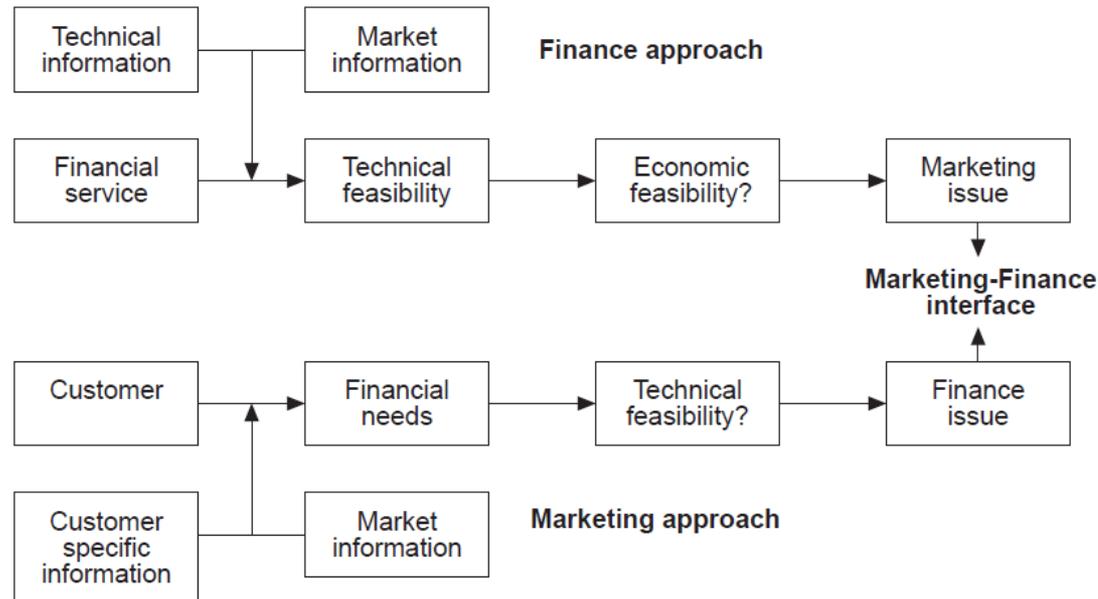
- Why a Marketing-Finance approach to Financial Product Development?
- With whom have we collaborated until now and on what topics?
- What kind of research on financial product development do we do?
  - Two examples (by far not exhaustive...):
    - Understanding Investors' Decisions to Purchase Innovative Products
    - Financial and Non-Financial Attributes of Pension Fund Structures
- Final remarks
- Research in progress
- ...your questions!

## Overview of Presentation

- **Why a Marketing-Finance approach to Financial Product Development?**
- With whom have we collaborated until now and on what topics?
- What kind of research on financial product development do we do?
  - Two examples (by far not exhaustive...):
    - Understanding Investors' Decisions to Purchase Innovative Products
    - Financial and Non-Financial Attributes of Pension Fund Structures
- Final remarks
- Research in progress
- ...your questions!

## Why a Marketing-Finance Approach to Financial Product Development?

- Marketing informs you about consumer needs and how to address them.
- Finance tells which consumer solutions are technically possible and viable.



Pennings, Wetzels, Meulenber (1999), *European Journal of Marketing*, 33 (5/6), pp. 531-547.

## Why a Marketing-Finance Approach to Financial Product Development?

- Not everything that is technically possible, is desirable from consumer protection point of view, while products consumers need may not succeed:
  - Sometimes fine line between investing and gambling (e.g., turbo's, speeders...).
  - Consumers typically have difficulty interpreting risk,
  - Consumers have a hard time identifying with their future selves (pensions!),
  - Many retirees are house-rich and cash-poor, but no demand for reverse mortgages,
- In the Marketing-Finance Research Lab, we combine the best and brightest minds from both marketing and finance to connect with industry and regulators to generate actionable insights, based on solid academic research.

## Overview of Presentation

- Why a Marketing-Finance approach to Financial Product Development?
- **With whom have we collaborated until now and on what topics?**
- What kind of research on financial product development do we do?
  - Two examples (by far not exhaustive...):
    - Understanding Investors' Decisions to Purchase Innovative Products
    - Financial and Non-Financial Attributes of Pension Fund Structures
- Final remarks
- Research in progress
- ...your questions!

## With whom have we collaborated until now?

- Some examples of previous research collaborations with industry partners:
  - Bouwaandeel (marketing aspects of a real-estate crowdfunding platform)
  - ING Private Banking (new developments as to private wealth management)
  - Meetinvest AG (introduction of a new financial social media platform)
  - Netherlands Authority for the Financial Markets (execution-only investor behavior)
  - Deluxe Corporation (marketing aspects of a financial service innovation)
  - Deutsche Postbank (fraud prevention measures and customer relationships)
  - Sparkasse KölnBonn (consumer intention to purchase fee-based advice)
  - APG (consumer interest in non-financial attributes of pension fund investing)
  - COPA-COGECA (business co-op innovation)

## Overview of Presentation

- Why a marketing-finance approach to financial product development?
- With whom have we collaborated until now and on what topics?
- **What kind of research on financial product development do we do?**
  - Two examples (by far not exhaustive...):
    - **Understanding Investors' Decisions to Purchase Innovative Products**
    - Financial and Non-Financial Attributes of Pension Fund Structures
- Final remarks
- Research in progress
- ...your questions!

## What do we want to know?

- Understand drivers of consumer adoption of financial service innovations.
- Focus on recently introduced, exchange-traded, investment products:
  - Leveraged structured investment products: “speeders”/“turbo’s”
  - Emergent market funds
  - Green funds
  - Non-western real estate funds
  - Index-based funds
- Products <5 years available on retail market at time of data collection (2009).

Hoffmann & Broekhuizen (2010). *International Journal of Research in Marketing*, 27 (4), pp. 342-355.

## Why is this important?

- Societal relevance:
  - Adopting (innovative) financial products and services have long-term wealth effects.
  - Understanding drivers of adoption behavior may help consumers make wiser choices.
- Business relevance:
  - Successful product innovation is crucial for success in financial services sector.
  - Growing industry: ageing demographics + increased self-responsibility for retirement.
  - Success depends on consumer acceptance of new products.
  - Currently: consumers skeptical towards adopting new and complex financial products.

→ *New services failure rate > 80%*

Hoffmann & Broekhuizen (2010). *International Journal of Research in Marketing*, 27 (4), pp. 342-355.

## Why would consumers adopt new investment products: standard finance

- Adopt new product if this improves portfolio's overall risk-return trade-off.
- Yet:
  - Consumers are often unable to adequately estimate risk and return.
  - Consumer preferences go beyond risk and return:
    - Trading as entertainment (Dorn & Huberman 2009)
    - Sensation seeking (Grinblatt & Keloharju 2009)
    - Preference for stocks providing status (Statman 2004)
    - Conforming to social norms (Hoffmann & Broekhuizen 2009)

Hoffmann & Broekhuizen (2010). *International Journal of Research in Marketing*, 27 (4), pp. 342-355.

## Why would consumers adopt new investment products: marketing-finance

- Psychological motivations are important to understand investor behavior.
- Marketing considers psychological motivations driving adoption decisions.
- Key psychological trait explaining adoption in marketing:
  - *Dispositional Innovativeness* (psychological predisposition to embrace new products)
- Innovators are first to accept new innovative products, and provide foundation for other consumers' adoption behavior by "word-of-mouth" and "social proof".

Hoffmann & Broekhuizen (2010). *International Journal of Research in Marketing*, 27 (4), pp. 342-355.

## What do we do in this study?

- Look at intrinsic and extrinsic motivations to approach/avoid new products:

	Intrinsic Motivations	Extrinsic Motivations
<p><b>Motivations to approach innovative investment products</b></p>	<p>“Adopting new investment products is an inherently interesting or enjoyable activity in its own right.”</p> <p><b>Focal construct: Product-Category Involvement</b></p> <p>Related concepts:</p> <ul style="list-style-type: none"> <li>Trading as entertainment (Dorn and Sengmueller 2009)</li> <li>Sensation seeking (Grinblatt and Keloharju 2009)</li> <li>Aspirations/hope of riches (Statman 2002)</li> <li>Fulfillment of social needs (Hoffmann and Broekhuizen 2009)</li> </ul>	<p>“Adopting new investment products is worthwhile because of the beneficial outcomes this activity can bring.”</p> <p><b>Focal construct: Market Mavenism</b></p> <p>Related concepts:</p> <ul style="list-style-type: none"> <li>Status (Statman 2004)</li> <li>Self-enhancement: recognition as opinion leader / knowledgeable person / (Barberis and Xiong 2008; Dichter 1966)</li> </ul>
<p><b>Motivations to avoid innovative investment products</b></p>	<p>“Adopting new investment products in its own right is an activity to steer clear of.”</p> <p><b>Focal construct: Ambiguity Intolerance</b></p> <p>Related concepts:</p> <ul style="list-style-type: none"> <li>Status quo bias (Kahneman, Knetsch, and Thaler 1991)</li> <li>Loss aversion (Benartzi and Thaler 1995)</li> <li>Reluctance / suspicion (Foxall and Pallister 1998)</li> </ul>	<p>“Adopting new investment products is <b>not</b> worthwhile because of the detrimental outcomes this activity can bring.”</p> <p><b>Focal construct: Susceptibility to Normative Influence</b></p> <p>Related concepts:</p> <ul style="list-style-type: none"> <li>Conformity (De Bondt 1998)</li> <li>Avoiding social punishment (Cialdini and Goldstein 2004; Hoffmann and Broekhuizen 2009)</li> <li>Reputation loss (De Bondt and Forbes 1999)</li> </ul>

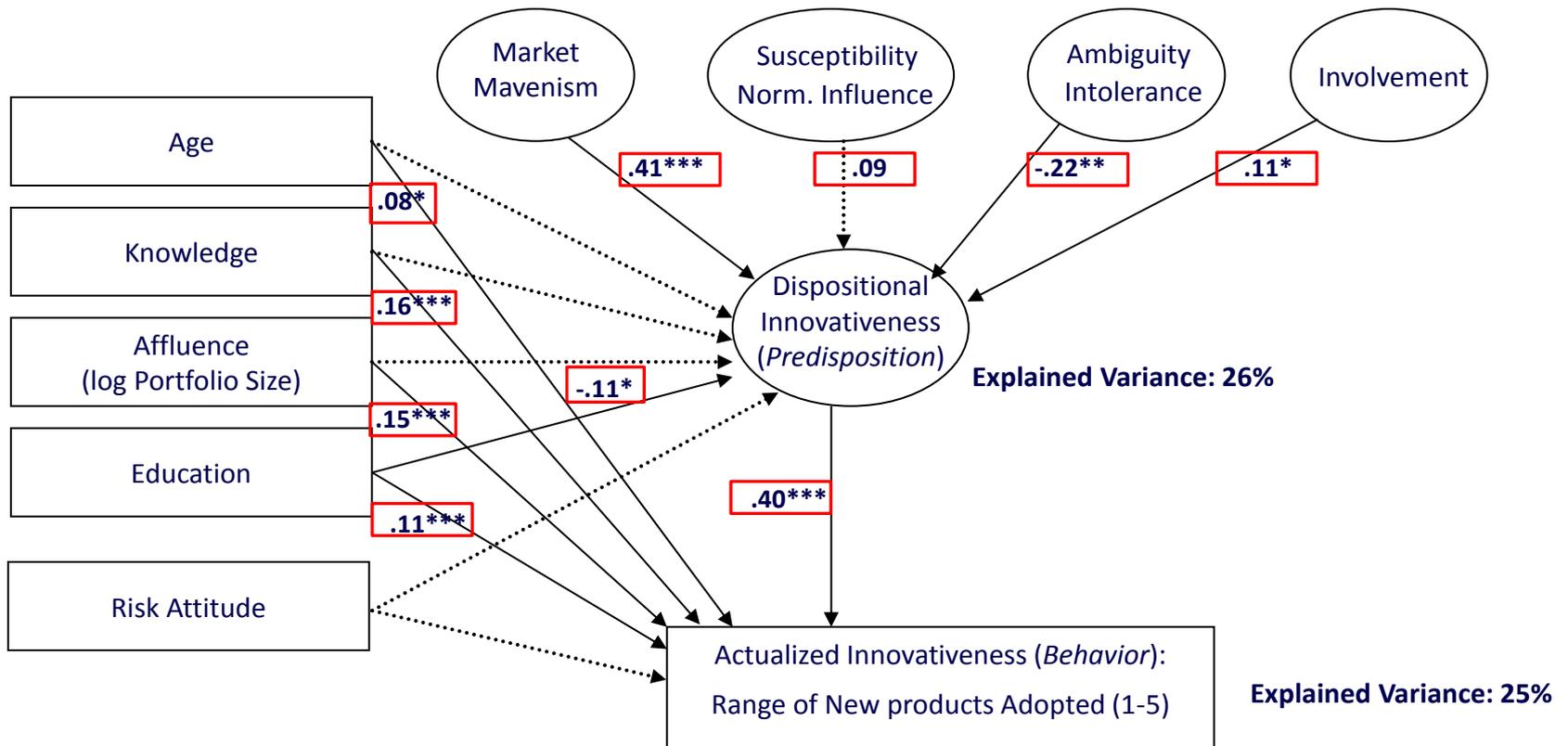
Hoffmann & Broekhuizen (2010). *International Journal of Research in Marketing*, 27 (4), pp. 342-355.

## Method: data, sample, and research instrument

- Data collection:
  - Web-based survey to test conceptual model using real-life investor data.
- Sample:
  - 596 individual investors.
  - Average age 57 years, 9% women, 67% have at least college degree.
  - Characteristics in line with typical Dutch self-directed individual investor.
- Research instrument:
  - Measurement model has good fit ( $\chi^2/df=2.1$ ; GFI=.91; TLI=.91; RMSEA=.042).
  - Scales have reliability, unidimensionality, convergent and discriminant validity.

Hoffmann & Broekhuizen (2010). *International Journal of Research in Marketing*, 27 (4), pp. 342-355.

## Structural model results



Hoffmann & Broekhuizen (2010). *International Journal of Research in Marketing*, 27 (4), pp. 342-355.

## Managerial implications

- To target consumer innovators, who are crucial for new product success:
  - Create products consumers like to talk about and introduce to others (market mavenism)
  - Support word of mouth in company-controlled communities (e.g. online platforms)
  - Reduce uncertainty: accurate performance range estimates (ambiguity intolerance)
  - Increase involvement of (potential) clients with product category and specific products
  - Focus on life goals/events and education (involvement: understanding *and* interest)

Hoffmann & Broekhuizen (2010). *International Journal of Research in Marketing*, 27 (4), pp. 342-355.

## Conclusion

- Study provides theoretical explanation for *why* some consumers score higher on consumer innovativeness, and *how* this affects financial innovation adoption.
- Especially involved consumers who are not afraid of ambiguity and like to talk about new products and introduce them to others tend to innovate.
- Older, wealthier, better educated, and more knowledgeable investors more likely engage in financial services innovation and buy new investment products.
- Interestingly, consumers' risk attitude does not predict their adoption behavior!

Hoffmann & Broekhuizen (2010). *International Journal of Research in Marketing*, 27 (4), pp. 342-355.

## Overview of Presentation

- Why a marketing-finance approach to financial product development?
- With whom have we collaborated until now and on what topics?
- **What kind of research on financial product development do we do?**
  - Two examples (by far not exhaustive...):
    - Understanding Investors' Decisions to Purchase Innovative Products
    - **Financial and Non-Financial Attributes of Pension Fund Structures**
- Final remarks
- Research in progress
- ...your questions!

## Background of Paper

- Prominent context to examine preferences for a complex financial service:
  - DB to DC shift promises increased portability of assets for pension fund clients,
  - Shift from DB to DC also increases personal responsibility for investment decisions,
  - Customers may not like these shifts, potentially leading to dissatisfaction and decreasing commitment, negatively influencing participation in these programs.
- Most employees remain in default plan long after automatic enrollment.
- Default bias could be overcome only through committed attempts to encourage active choice of individuals as driven by attribute preferences.

Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, *The Routledge Companion to Financial Services Marketing*. New York, pp. 101-115.

## Background of Paper

- Knowledge of (heterogeneous) preferences for structural aspects of fund crucial for re-designing programs and enhancing customer participation:
  - Pension fund policies that provide additional benefits (e.g., increases in retirement savings, lower administrative costs) may enhance customer retention.
  - How do customers evaluate aspects that make up a pension fund's structural design, which are hypothesized to be important for their commitment?
  - We run a conjoint study on customer preferences for key financial and non-financial attributes that make up the design of pension fund program.
- Both financial and non-financial attributes drive customer utility from pension fund participation. We assess impact of latent heterogeneity.

Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, *The Routledge Companion to Financial Services Marketing*. New York, pp. 101-115.

## Method, Model, and Data

- We combined qualitative and quantitative research techniques:
  - Step 1: in-depth interviews with pension fund experts (scholars and practitioners).
  - Step 2: focus-group discussions with customers of pension funds.
  - Step 3: use data of step 1 and 2 to design conjoint data-gathering instrument.
  - Step 4: examine empirically customer preferences for combinations of financial and non-financial attribute levels of a pension fund through large-scale survey (N= 912).
  - Step 5: examine empirically the impact of latent heterogeneity on customer preferences : application of a mixture modelling approach

Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, *The Routledge Companion to Financial Services Marketing*. New York, pp. 101-115.

## Method, Model, and Data

- Synthesis of literature review, expert consultation from academic and professional field, and focus group discussions with pension fund customers:

<i>Attribute<sup>a</sup></i>	<i>Level</i>	<i>Previous Studies</i>
<i>Financial Attributes</i>		
Average Investment Performance <sup>b</sup>	4% 7% 10%	Grinblatt and Titman, 1992; Carhart, 1997; Srinivas, Whitehouse and Yermo, 2000; Sapp and Tiwari, 2004; Tapia, 2008; Andonov et al., 2011.
Coverage ratio <sup>c</sup>	90% 105% 120%	Bauer, et al., 2006, van Rooij, Kool, and Prast, 2007; Mercer, 2010; DNB, 2010; Siegmann, 2010.
Administrative Expenses <sup>d</sup>	0.3% 0.9% 1.5%	Barber and Odean, 2001; Wilcox, 2003; Bateman and Mitchell, 2004; Bikker and de Dreu, 2006; Bauer, Cremers, and Frehen, 2010.
Total Investment Portfolio <sup>e</sup>	<500 million 500 million – 10 billion >10 billion	Chen et al., 2004; Bauer, Cremers, and Frehen, 2010, Andonov Bauer, and Cremers, 2011; Dyck and Pomorski, 2011.
<i>Non-Financial Attributes</i>		
Socially Responsible Investing	Yes No	Kreander et al., 2005; Nilsson, Nordvall, and Isberg, 2010; Renneboog, ter Horst, and Zhang, 2011; Derwall et al., 2011; Bauer and Smeets, 2012.

Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, *The Routledge Companion to Financial Services Marketing*. New York, pp. 101-115.

## Conjoint Results

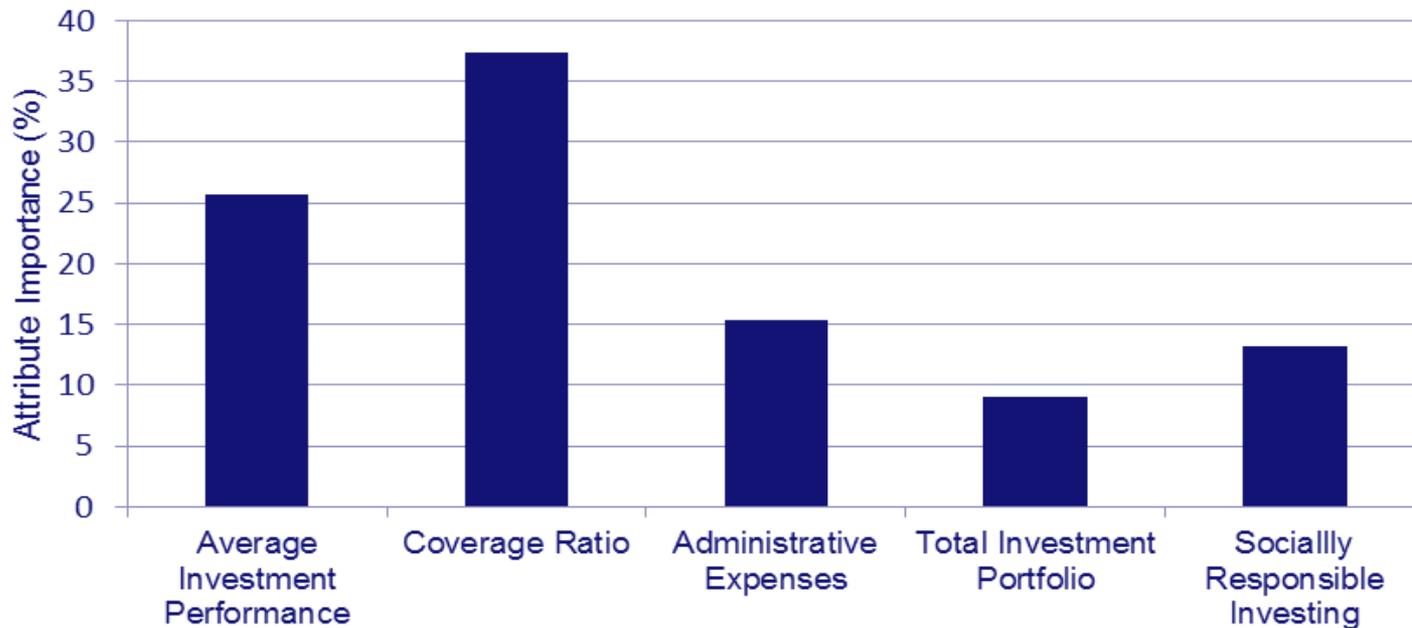
- Pension fund's structural design (dependent variable):

<i>Attribute<sup>a</sup></i>	<i>Level</i>	<i>APWs</i>
<i>Financial Attributes</i>		
Average Investment Performance <sup>c</sup>	4%	-0.223***
	7%	0.097***
	10%	<b>0.126***</b>
Coverage ratio	90%	-0.324***
	105%	<b>0.198***</b>
	120%	0.127***
Administrative Expenses	0.3%	0.042***
	0.9%	<b>0.092***</b>
	1.5%	-0.133***
Total Investment Portfolio	<500 million	-0.078***
	500 million – 10 billion	<b>0.043***</b>
	>10 billion	0.035***
<i>Non-Financial Attributes</i>		
Socially Responsible Investing	Yes	<b>0.106***</b>
	No	-0.106***

Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, *The Routledge Companion to Financial Services Marketing*. New York, pp. 101-115.

## Conjoint Results

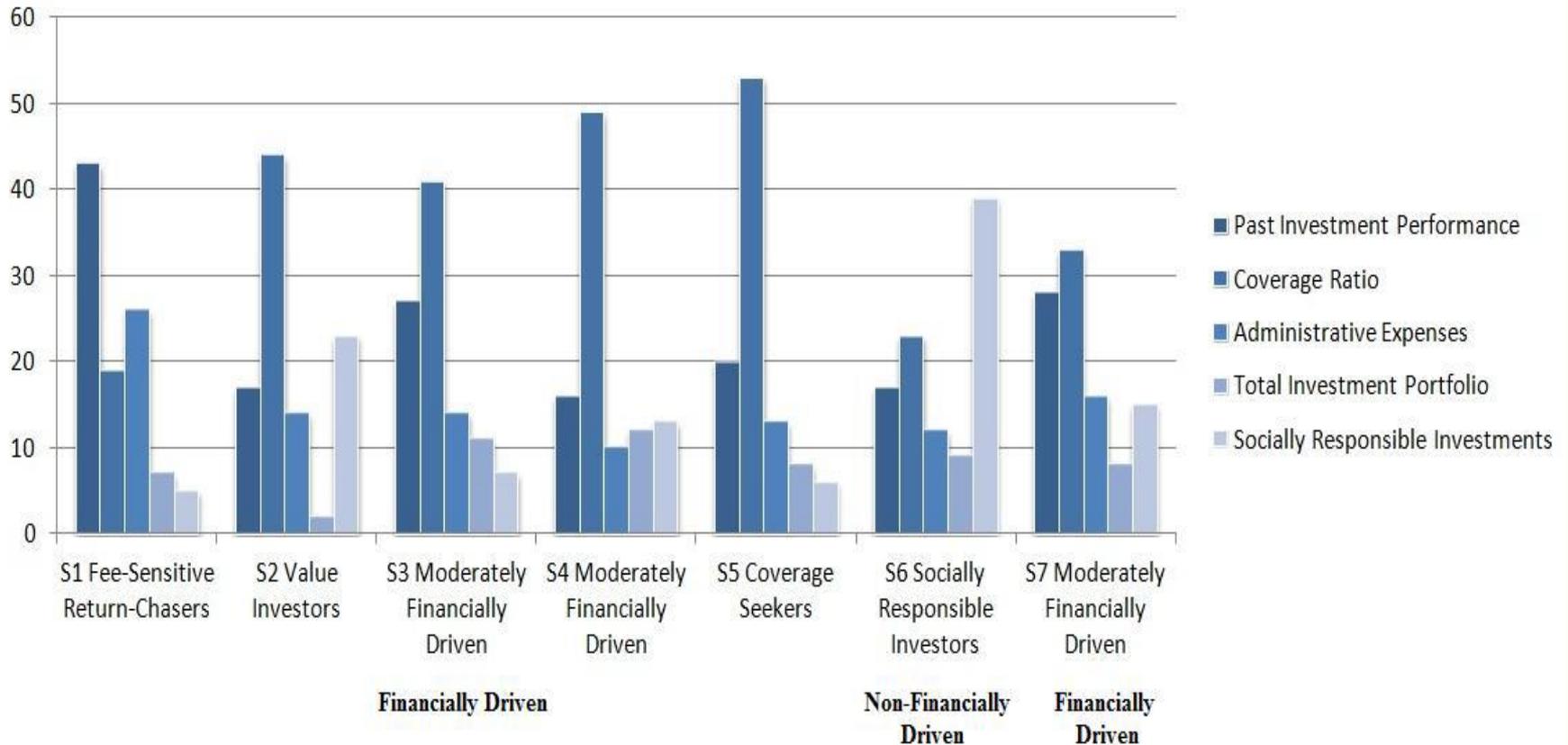
- Attributes' relative importance, based on range of part-worth estimates:



Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, *The Routledge Companion to Financial Services Marketing*. New York, pp. 101-115.

## Pension Fund Customers' Heterogeneous Preferences

- Mixture modelling approach accounts for latent heterogeneity in preferences:



Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, *The Routledge Companion to Financial Services Marketing*. New York, pp. 101-115.

## Impact of Drivers of Pension Fund Customers' Heterogeneity per S

Segment	Label	Significant Demographic Drivers	Significant Psychographic Drivers
S1	Fee -Sensitive Return Chasers	Age*** (31 -50) Financial Education*** (yes) Gender** (male)	Risk attitude *** (risk seeking)
S2	Value Investors	Age*** (61 -65)(18 -30 less likely)	Risk attitude *** (risk -averse )
S3	Moderately Financially Driven	Education***(LBO or MBO) Age** (18 -30) (31 -40 less likely)	
S4	Moderately Financially Driven	Financial Education*** (no)	
S5	Coverage Seekers	Education*** (LBO or MBO less likely)	
S6	Socially Responsible Investors	Gender *** (female)	Overconfidence ** (less)
S7	Moderately Financially Driven		Risk attitude *** (risk seeking)

\*\*\* denotes significance at  $p < 0.01$ , \*\* denotes significant at  $p < 0.05$

Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, The Routledge Companion to Financial Services Marketing. New York, pp. 101-115.

## Managerial Implications

- Social responsibility is important, but customers' preference for coverage ratio and average investment performance of funds suggests managers focus here.
- Accounting for customer heterogeneous preferences, managers may enhance the communication efforts of pension funds in several ways. For example:
  - Women and those relatively more overconfident more receptive to newsletter on SRI.
  - Middle-aged, financially educated, male, or relatively risk-seeking customers attach more value to a bulletin emphasizing past performance and low management fees.
  - Individuals nearing retirement, and those who are relatively risk-averse more likely to attach value to campaign emphasizing stable coverage ratio and SRI efforts of pension funds, rather than being informed about the highest investment returns.

Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, *The Routledge Companion to Financial Services Marketing*. New York, pp. 101-115

## Conclusion

- First study to empirically identify relevance of financial and non financial attributes for pension fund structural design from customers' perspective.
- Customers desire mostly pension fund program with quite high coverage ratio and average investment performance, reasonable level of administrative expenses, SRI investment style, and a medium scale.
- Both demographic (e.g., age, education, gender) and psychographic drivers (e.g., risk attitude, overconfidence) have a significant impact on customer heterogeneous preferences structure for pension funds.

Kalogeras, Hoffmann, Mahr (2014). "Financial and Non-Financial Attributes of Pension Fund Structures: A Customer Perspective from the Netherlands." In: Harrison & Estelami, *The Routledge Companion to Financial Services Marketing*. New York, pp. 101-115.

## Overview of Presentation

- Why a marketing-finance approach to financial product development?
- With whom have we collaborated until now and on what topics?
- What kind of research on financial product development do we do?
  - Two examples (by far not exhaustive...):
    - Understanding Investors' Decisions to Purchase Innovative Products
    - Financial and Non-Financial Attributes of Pension Fund Structures
- **Final remarks**
- Research in progress
- ...your questions!

## Final Remarks

- Marketing-Finance interface relevant in financial product development.
- What consumers want, may not be good for them...
- ...while what consumers need, may not be demanded.
- Marketing tells what consumers like, but can also *make* them like it...
- ...while finance tells us whether the products are technically feasible.
- New financial products have to be developed while thinking about both marketing and financial aspects of consumer financial decision-making:
  - Psychographics often more predictable of behavior than demographics
  - Consumers seem to have difficulty grasping concept of (perceived) risk
  - Heterogeneous preference structure requires tailored marketing campaigns

## Overview of Presentation

- Why a marketing-finance approach to financial product development?
- With whom have we collaborated until now and on what topics?
- What kind of research on financial product development do we do?
  - Two examples (by far not exhaustive...):
    - Understanding Investors' Decisions to Purchase Innovative Products
    - Financial and Non-Financial Attributes of Pension Fund Structures
- Final remarks
- **Research in progress**
- ...your questions!

## Research in Progress

- How Past Performance Framing Impacts Investors' Belief Updating:
  - Manipulating portfolio evaluation periods can affect beliefs and behavior.
  - Displaying return experiences in a less volatile way could lead to smaller updates in investors' beliefs, giving them less reason to trade, thereby improving their returns.
  - Lab experiments, varying length of default return horizon shown.
- Measuring Distance Amongst Member-Investors Relationships:
  - Member-investors of cooperative business schemes
  - Ostracism construct
  - Field studies in Netherlands and Greece at micro-micro level

## Overview of Presentation

- Why a marketing-finance approach to financial product development?
- With whom have we collaborated until now and on what topics?
- What kind of research on financial product development do we do?
  - Two examples (by far not exhaustive...):
    - Understanding Investors' Decisions to Purchase Innovative Products
    - Financial and Non-Financial Attributes of Pension Fund Structures
- Final remarks
- **...your questions!**



**Thanks for your attention!**

**Questions?**

**Thursday October 8, 2015**  
**GSBE Marketing-Finance Symposium**

*"The Whole is Greater Than the Sum of Its Parts (III)"*