



Effects of Distribution Channel Types and Determinants Influencing the Market Share of National Brands and Private Labels





Presenter

Philipp Brüggemann University of Hagen, Germany



philipp.brueggemann@fernuni-hagen.de www.fernuni-hagen.de/marketing

Overview

- Research Questions
- Research Model
- Hypotheses Overview
- **Empirical Analysis**
- Discussion:
 - What's new?
 - What's confirmed?
 - What's most surprising?
 - What limits the results?



1. Research Questions

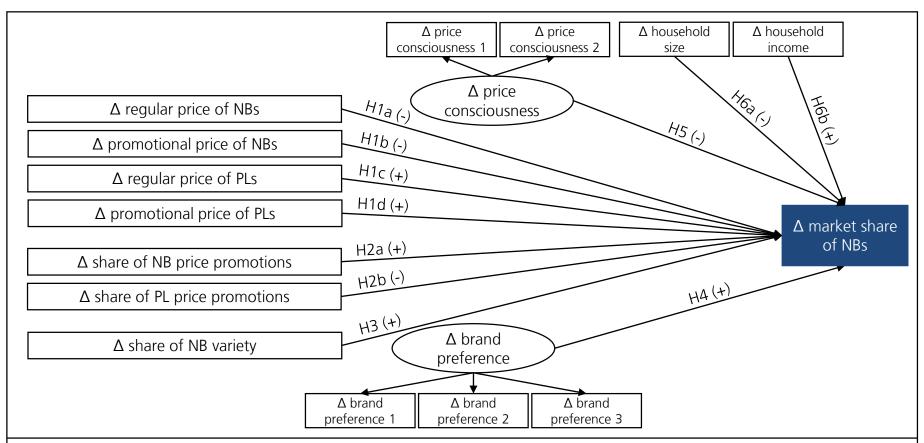
- How can purchase of national brands (NBs) be influenced in competition with private labels (PLs)?
- Which determinants affect the purchase of NBs?
- Are there similarities differences between types of distribution channels?





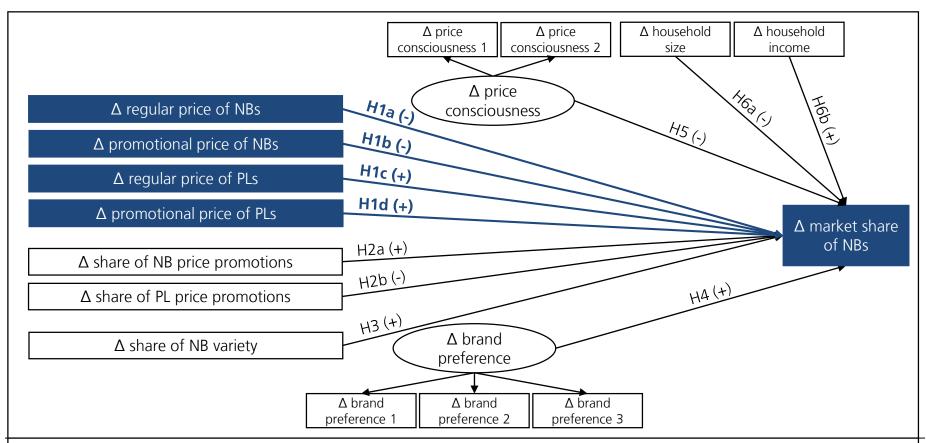






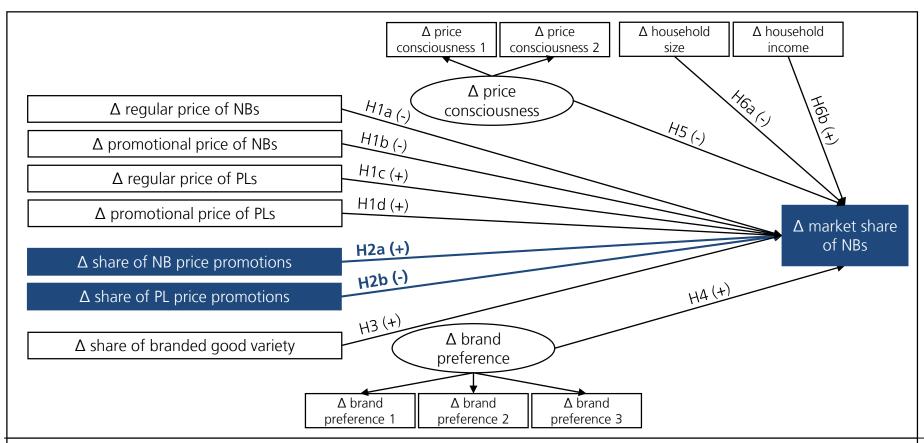
Multi group analysis:





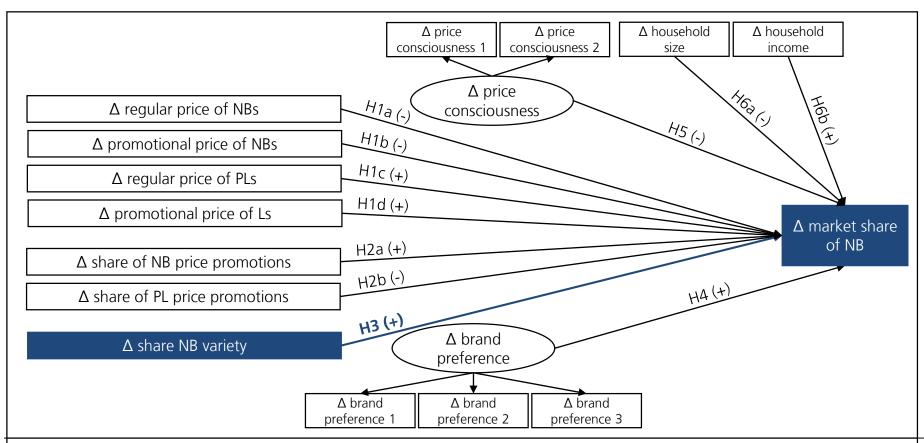
Multi group analysis:





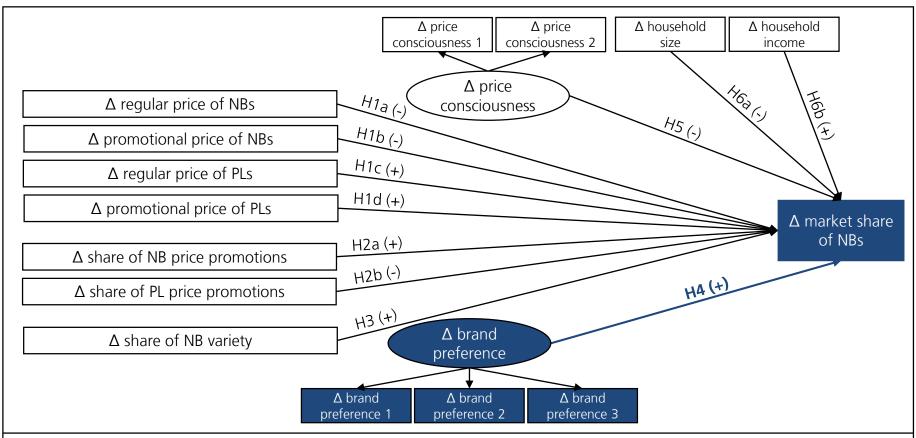
Multi group analysis:





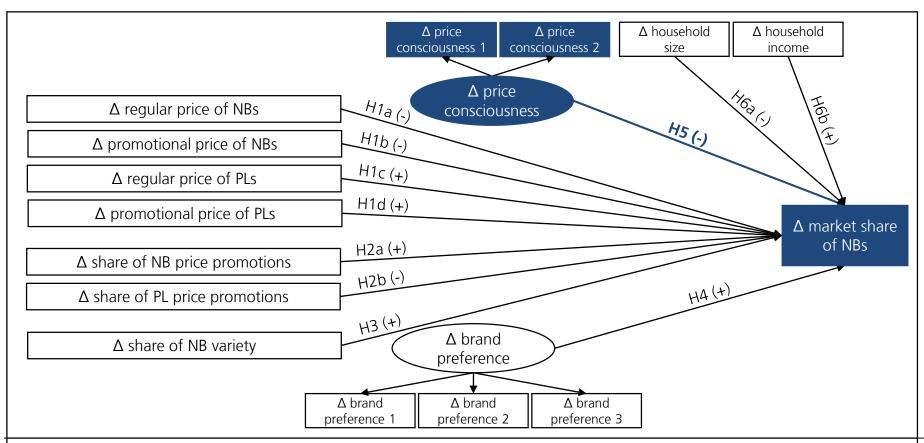
Multi group analysis:





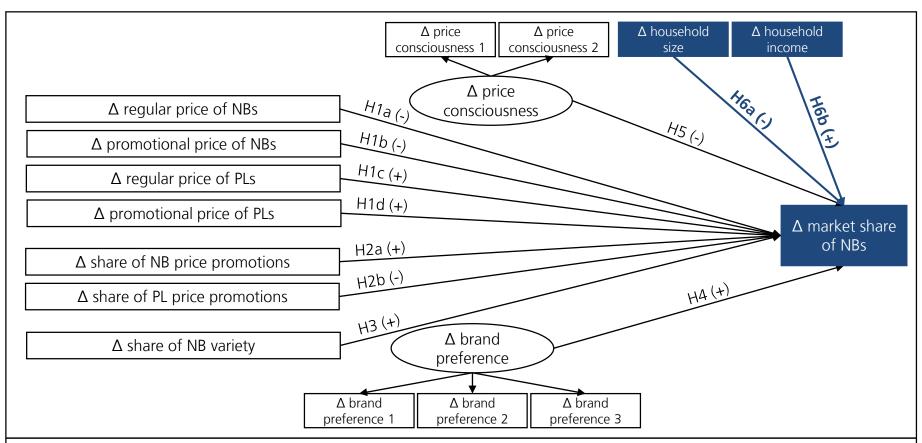
Multi group analysis:





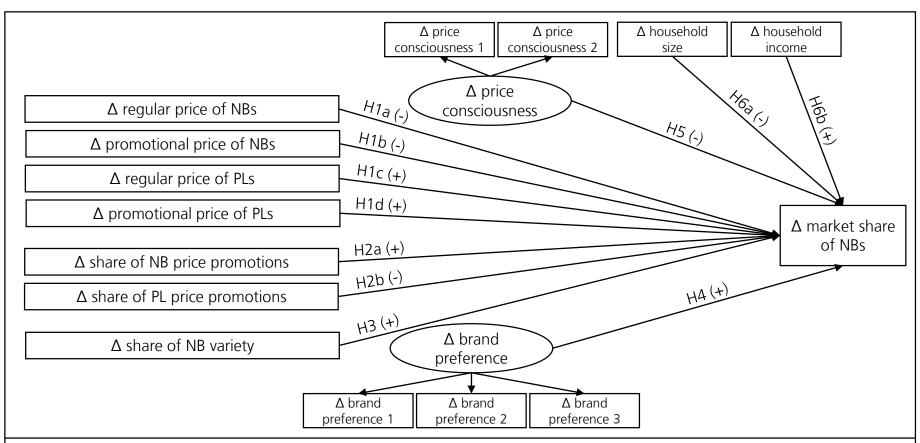
Multi group analysis:





Multi group analysis:





Multi group analysis:



3. Hypotheses Overview

		independent variable	Literature		
1	H1a	Δ regular price of NBs			
2	H1b	Δ promotional price of NBs	Putsis 1997; Cotterill and Putsis 2000; Rubio and Yagüe 2009; Sethuraman and Gielens 2014; Fornari et al. 2016; Olbrich et al.		
3	H1c	Δ regular price of PLs	2017		
4	H1d	Δ promotional price of PLs			
5	H2a	Δ share of NB price promotions	Blattberg, Briesch and Fox 1995; Nijs et al. 2001; Srinivasan et al. 2004; Sethuraman and Gielens 2014; Olbrich, Jansen and Hundt		
6	H2b	Δ share of PL price promotions	2017		
7	Н3	Δ share of NB variety	Raju, Sethuraman and Dhar 1995; Baker, Baltzer and Mølleri 2006; Olbrich, Grewe and Orenstrat 2009		
8	H4	Δ brand preference	Banks 1950; Padberg, Walker and Kepner 1967; Sriram, Chintagunta and Neelamegham 2006; Rubio and Yagüe 2009; Ebrahim et al. 2016		
9	Н5	Δ price consciousness	Sinha and Batra 1999; Jin and Suh 2005; Mostafa and Elseidi 2018		
10	H6a	Δ household size	Richardson et al. 1996; Cotterill and Putsis 2000; Lin and Char		
11	H6b	Δ household income	2003		
12	H7	differences between the types of distribution channels	Cataluna et al. 2005, Schäfer 2010		

dependent variable: Δ market share of NBs



4. Empirical Analysis – Data Collection

- household panel data from 2006 to 2015
- 7,211,154 sales, 98,326 households (about 30,000 at same time)
- types of distribution channels: discounters, supermarkets (≤ 5,000 m^2), hypermarkets (> 5,000 m^2)
- product groups: chocolate, coffee, hair shampoo, laundry detergent
- data sample:

100001 2006-11-08 2 200 276 <i>brand 1</i> NB regula		
	ir price	
100001 2006-11-08 1 100 65 brand 2 NB regula	r price 1	
100010 2007-10-30 1 200 99 <i>brand 3</i> PL regula	r price 3	
138661 2008-04-24 2 500 398 <i>brand 2</i> PL promo	otional price 4	
987314 2015-10-28 1 200 129 <i>brand 1</i> PL regula	r price 2	



4. Empirical Analysis – Results

		across	multi group analysis			
		across channels	discounters	supermarkets (≤ 5,000 m²)	hypermarkets (> 5,000 m ²)	
1	observations (= weeks * retailers' distribution channels)	8.886	3.364	2.396	3.126	
2	R ²	.089	.091	.197	.114	
3	Δ regular price of NBs	022**	053** ^b	.001 ^{a,c}	068** ^b	
4	Δ promotional price of NBs	091***	118*** ^{b,c}	066***a	100***a	
5	△ regular price of PLs	.123***	.098**b.c	.223***a,c	.156***a,b	
6	△ promotional price of PLs	.082***	.087*** ^{b,c}	.090***a	.127*** ^a	
7	Δ share of NB price promotions	.126***	.170*** ^{b.c}	.050*a,c	.180** ^{a,b}	
8	△ share of PL price promotions	010	021	004	016	
9	Δ share of NB variety	.185***	.118*** ^b	.318*** ^a	.190***	
10	Δ brand preference	.057***	.051*b,c	.102***a	.016a	
11	Δ price consciousness	.023	.009 ^c	.085**	.000a	
12	Δ household size	002	019	.004	.024	
13	Δ household income	.030**	.061** ^{b,c}	.020a	014 ^a	

^{*} p < .050; ** p < .010; *** p < .001

a = significant differences to the discounter (significance level: 5 %)

b = significant differences to the supermarket (significance level: 5 %)

c = significant differences to the hypermarket (significance level: 5 %)



4. Empirical Analysis – Hypotheses Review

		independent variable	dependent variable	hypotheses review		
1	H1a	Δ regular price of NBs		weakly supported for discounters and hypermarkets		
2	H1b	Δ promotional price of NBs		supported		
3	H1c	Δ regular price of PLs	Δ market share of NBs	supported		
4	H1d	Δ promotional price of PLs		supported		
5	H2a	Δ share of NB price promotions		partly supported for discounters and hyper- markets (weakly supported for supermarkets)		
6	H2b	Δ share of PL price promotions		rejected (n.s.)		
7	Н3	Δ share of NB variety		supported		
8	H4	Δ brand preference		partly supported for supermarkets		
9	H5	Δ price consciousness		rejected (because of the positive sign)		
10	Н6а	Δ household size		rejected (n.s.)		
11	H6b	Δ household income		partly supported for discounters		
	differences between analysed groups (multi group analysis and Chi ² -Test)					
12	H7	differences between the types of distribution channels		partly supported for Δ regular price of PLs, Δ share of NB price promotions, Δ share of NB variety, and Δ brand preference		



5. Discussion - What's new?

- data over a long time period (10 years)
- intertemporal changes regarding the determinants and the market share of NBs
- differentiation between
 - regular and promotional prices of NBs
 - > regular and promotional prices of PLs
- using the changes in share of NB variety (instead of i.e. change in NB variety and change in PL variety)
- differences and similarities regarding the influence in *types of distribution channels* (discounters, supermarkets, hypermarkets)



5. Discussion - What's confirmed?

- competition between NBs and PLs is (still) intense
- the *prices* and *promotional activities* are partly influencing the market share
- share of NB variety influences the market share

Slide 10 2021-06-04 Brüggemann/Olbrich/Schultz



- (1) weak and not significant results
 - changes in regular prices of NBs and changes in brand preference affect the market share of NBs only partly and very weak
 - there is no significant influence regarding the change in share of PL price promotions

	multi group analysis			is	
	across channels	discounters	supermarkets (≤ 5,000 m²)	hypermarkets (> 5,000 m ²)	
Δ regular price of branded goods	022**	053** ^b	.001 ^{a,c}	068**b	
Δ share of PL price promotions	010	021	004	016	
Δ brand preference	.057***	.051*b,c	.102*** ^a	.016a	

^{*} p < .050; ** p < .010; *** p < .001

. . .



(1) weak and not significant results

explanation: market share of NBs is driven by promotional prices of NBs:

- It's **not** the
 - decrease in regular prices of NBs or the
 - decrease in share of PL price promotions
- that increase the market share of NBs.
- It's the
 - decrease in promotional prices of NBs and the
 - increase in share of NB price promotions.

Slide 12 2021-06-04 Brüggemann/Olbrich/Schultz



(2) positive impact of *change in price consciousness*

explanation: market share of NBs is driven by promotional prices of NBs:

- the more price consciousness consumers are,
- > the more often they may purchase promotional priced NBs.
- And the less they may purchase regular priced NBs.
- → shift between regular priced NBs and promotional priced NBs
- → no/weak change in market share of NBs (in competition with PLs)

across		multi group analysis			
	across channels	discounters	supermarkets (≤ 5,000 m²)	hypermarkets (> 5,000 m ²)	
△ price consciousness	.023	.009 ^c	.085**	.000a	

^{*} p < .050; ** p < .010; *** p < .001

Slide 13 2021-06-04



- The impact of changes in
 - regular prices of PLs,
 - share of NBs price promotions,
 - > share of NB variety, and
 - brand preference
- are (at least partly) different between the types of distribution channels.

		multi group analysis		
	• • • •	discounters	supermarkets (≤ 5,000 m²)	hypermarkets (> 5,000 m ²)
Δ regular price of PLs		.098**b.c	.223***a,c	.156***a,b
Δ share of NB price promotions		.170***b.c	.050*a,c	.180**a,b
Δ share of NB variety		.118*** ^b	.318***a	.190***
Δ brand preference		.051*b,c	.102***a	.016a

^{*} p < .050; ** p < .010; *** p < .001

a = significant differences to the discounter (significance level: 5 %)

b = significant differences to the supermarket (significance level: 5 %)

c = significant differences to the hypermarket (significance level: 5 %)



5. Discussion – What limits the results?

- prohibition of retail price maintainance
- analysis of four product groups
- not considered:
 - product positioning on the shelf
 - package sizes
 - limited editions





Comments, Proposals or Ideas for Collaboration?



Contact Me!



Philipp Brüggemann University of Hagen Universitätsstraße 11 58097 Hagen



