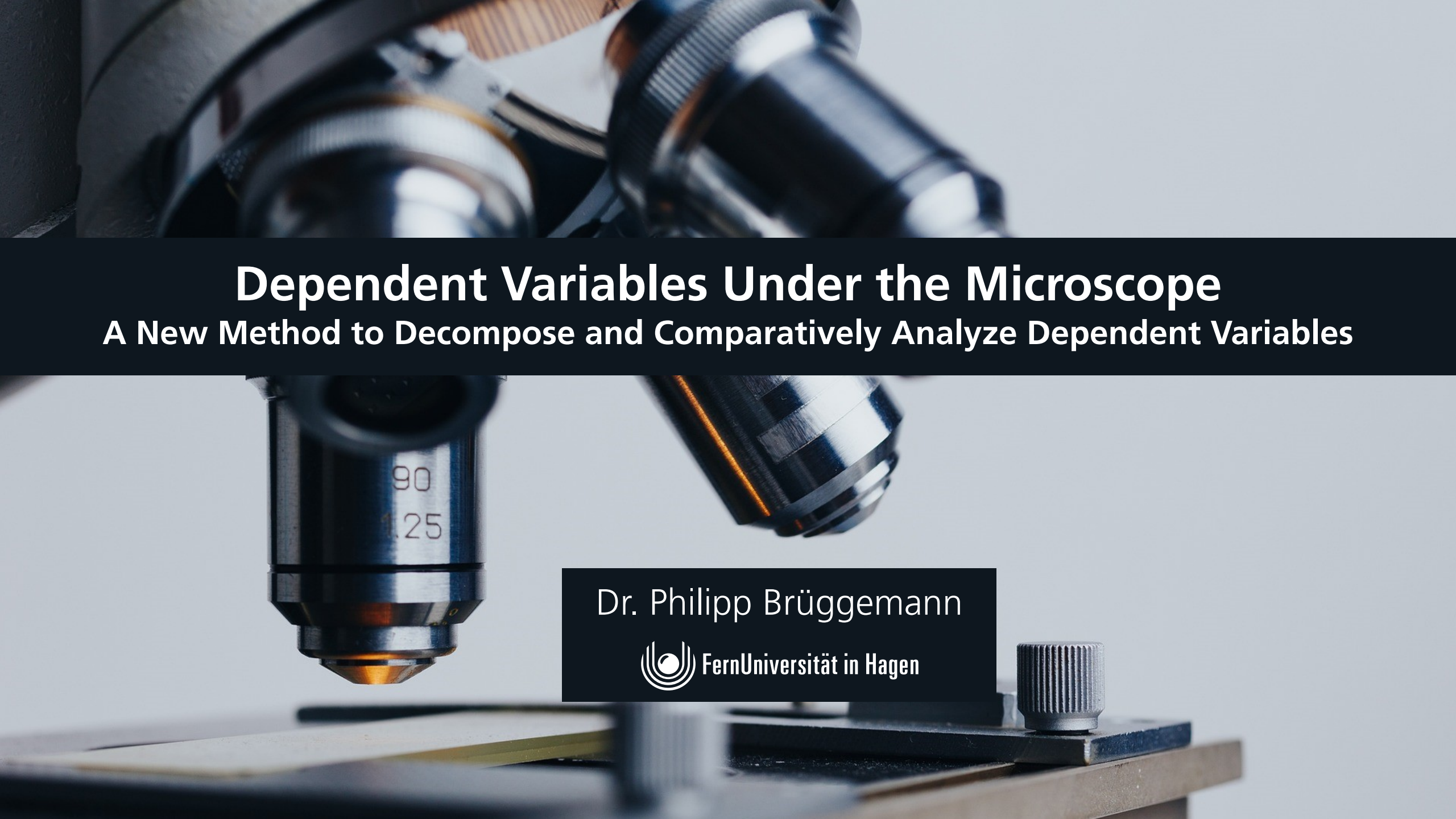


Dependent Variables Under the Microscope

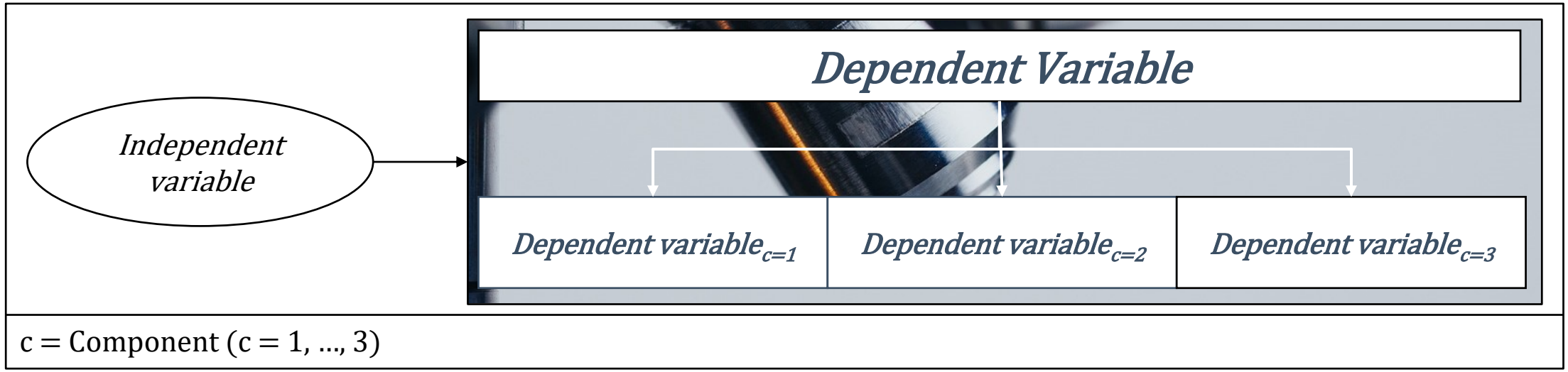
A New Method to Decompose and Comparatively Analyze Dependent Variables

Dr. Philipp Brüggemann

FernUniversität in Hagen

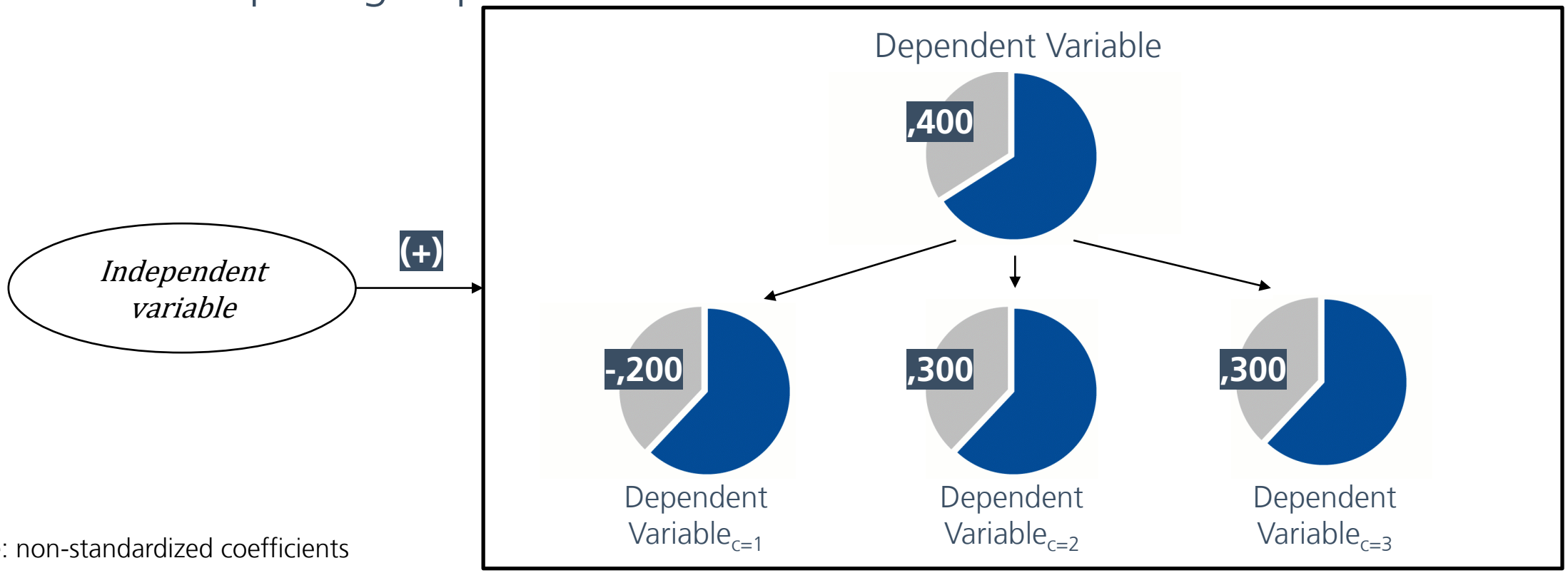
2. Methodology Details

Idea of decomposing dependent variables



2. Methodology Details

Idea of decomposing dependent variables



Note: non-standardized coefficients

2. Methodology Details

Output presentation

		Decomposition of *Dependent variable*		
	Dependent variable	*Dependent variable*$_{c = 1}$	*Dependent variable*$_{c = 2}$	*Dependent variable*$_{c = 3}$
R^2	R^2	$R^2_{c = 1}$	$R^2_{c = 2}$	$R^2_{c = 3}$
	Standardized path coefficient β (path coefficient *b*)			
Independent variable	β (*b*)***	$\beta_{c = 1}$ ($b_{c = 1}$)***	$\beta_{c = 2}$ ($b_{c = 2}$)***	$\beta_{c = 3}$ ($b_{c = 3}$)***
c = Component; * p < .050; ** p < .010; *** p < .001				

2. Methodology Details

Decomposition of dependent variables

Three steps

1) Decomposition of the dependent variable using a categorical variable

2) Sequential integration of the decomposed variables and calculation of the empirical results

3) Output report and comparative interpretation of the result


Photo: Hardy Welsch

Dr. Philipp Brüggemann
Post-doctoral researcher
Faculty of Economics
Chair of Business Administration, especially Marketing

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

LinkedIn