



UNIVERSITÀ
DEGLI STUDI
FIRENZE

Behavioural and Experimental Economics
8-10 May 2025

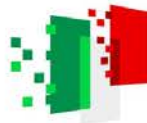


"Zebras" or "Giraffes"? How Durability Labelling Impacts Gen-Z Clothing Sufficiency

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dell'Università
e della Ricerca



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DI PISA



MOTIVATION

background and research questions



BACKGROUND

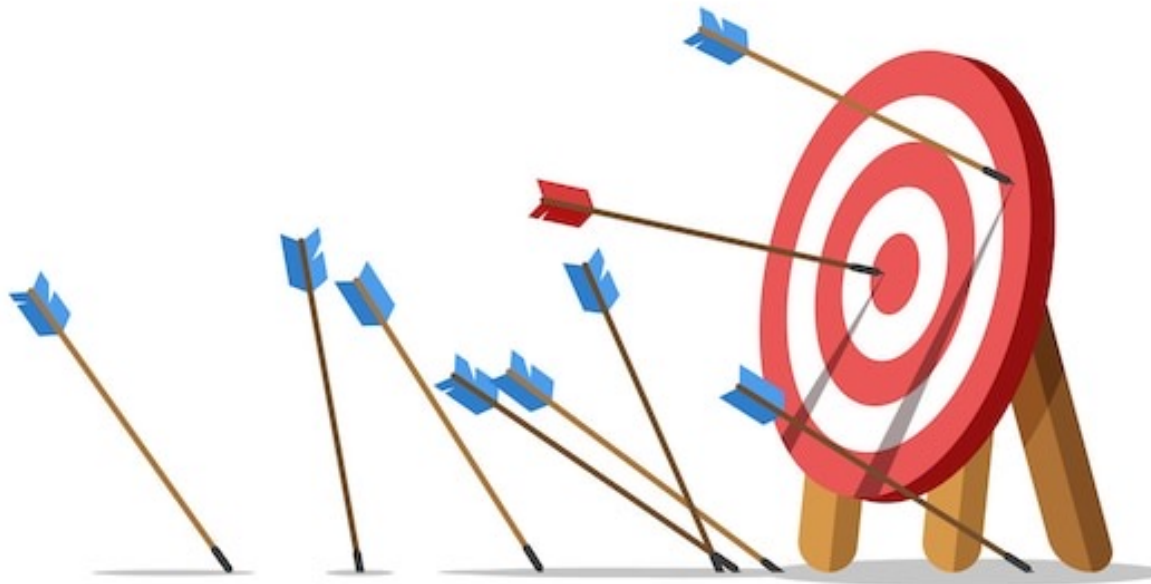
EU Strategy for Sustainable and Circular Textiles (2022)

Ecodesign for Sustainable Products Regulation (2024)

Durability requirements
for apparel



Are durability labels effective?



RESEARCH QUESTION



Previous studies

(see the review Milios & Dalhammar, 2023):

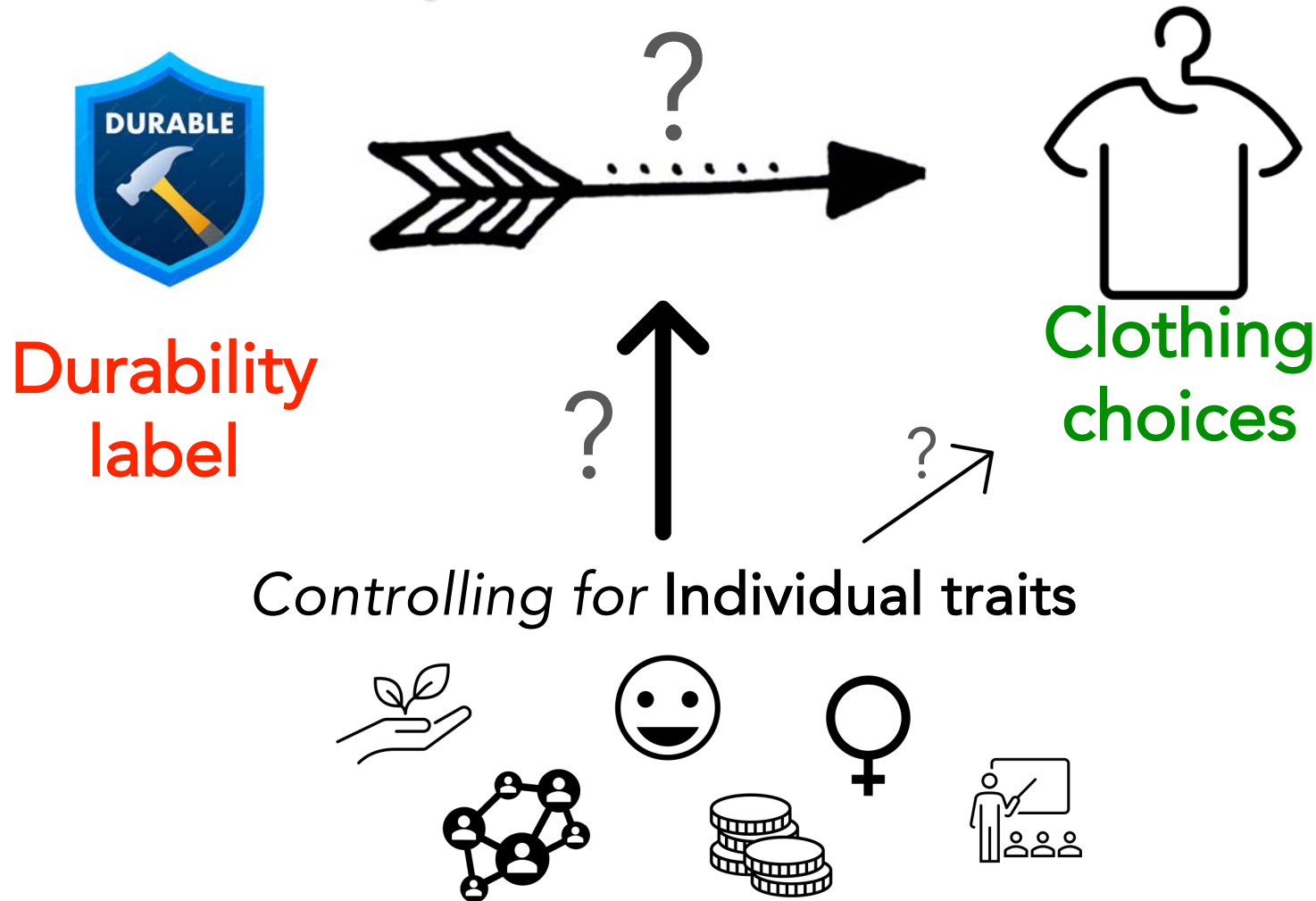
- Few experimental studies
- Using contingent choice experiments
- Between-subject design (Sun et al., 2021)

EVIDENCE:
durability labels are effective

Our study

- Field experiment → addressing hypothetical bias
- Focus on 20-29 year-old people
 - GenZ cares about sustainability
for fashion see Gazzola et al. (2020)
 - Young people are **polarized** (Jacobs & Horisch, 2021)
a large proportion of those attributing both
the **lowest** and the **highest** importance to *product lifetime*
- Testing the effect of possible moderators
e.g. env. concern, gender, income, ...

Research questions





The design

- Incentives
- Choice
- Treatment
- Procedure

INCENTIVES

A keychain



&

participation in a LOTTERY for winning T-SHIRTS ($pr=1/4$)



2 different T-Shirts

IDENTICAL features

- Producer
- Model/fit
- Material (organic cotton)
- Style (no graphics)
- Colour variety

DIFFERENCES

FABRIC

180

Grams per square meters (GSM)

155

LABELS



Price 19.99 €

GIRAFFE

Price 9.99 €

ZEBRA



CHOICE

Which lottery prize do you prefer ...

ONE

«GIRAFFE» T-Shirt



Price 19.99 €

GIRAFFE

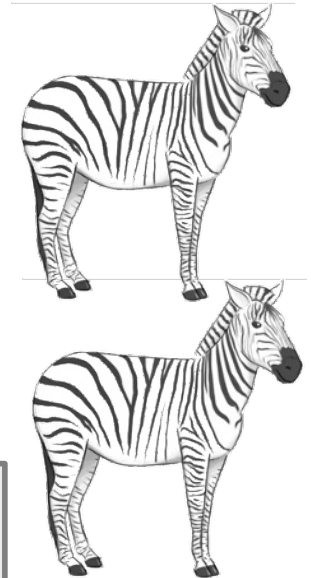
TWO

«ZEBRA» T-Shirts



Price 9.99
€

ZEBRA



TREATMENT

Durability information
added to the «Giraffe» label





Randomization

Students selected their preferred session

Each day was either treatment or control

Ex-post check of the characteristics of the different groups



PROCEDURE (1)

TWO SEPARATE steps and administrators
A and B
to anonymise participants

PROCEDURE (2)

Phase A

- 1) Privacy form (and ID card check)
- 2) Explanation about the lottery and T-Shirt choice (colour, size, and type)
- 3) Time for choosing
- 4) Report preferences on the choice card

TAGLIA	COLORE	MODELLO	CODICE IDENTIFICATIVO
<input type="checkbox"/> XS	Esprimi due preferenze, A e B BIANCO _____ BLU NAVY _____ NERO _____ VERDE _____ VINACCIA _____	<input type="checkbox"/> GIRAFFA (x1)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/> S			
<input type="checkbox"/> M		<input type="checkbox"/> ZEBRA (x2)	
<input type="checkbox"/> L			
<input type="checkbox"/> XL			
<input type="checkbox"/> XXL			





PROCEDURE (3)

Phase B

Subjects

- 1) draw ID code for anonymisation
- 2) insert choice card in lottery box
- 3) listen to cheap talk
- 4) fill out questionnaire
- 5) get the keychain





Who, where, when

- When and where
- Subjects and recruitment



Who

Students from the University of PISA

Recruitment

- bulk e-mails
- flyers at teaching hubs
- ORSEE platform (previous experiments)
- Instagram stories on the depts' account

Exclusion criteria

ex-ante: non-Italian speaking

ex-post: 12 excluded subjects because age>29

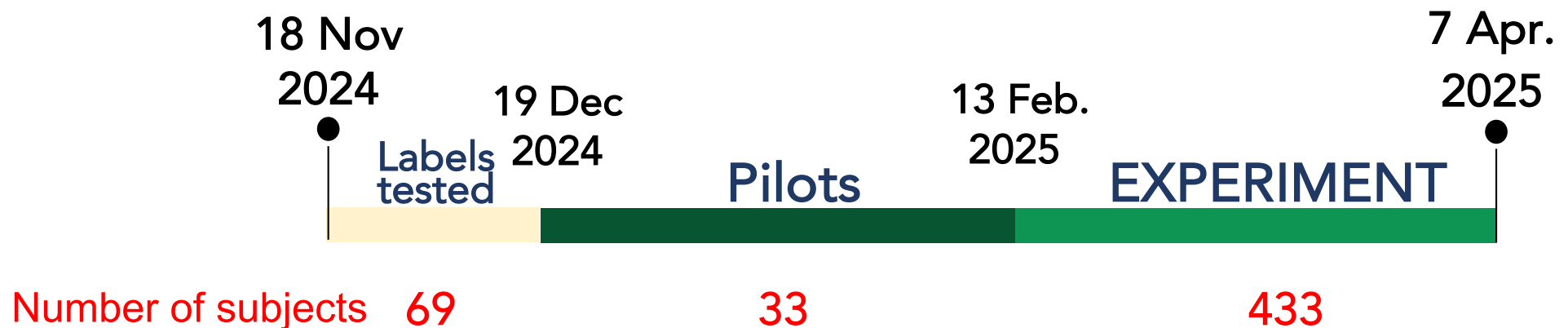
Number of participants

Pilot=33 Experiment=433 Excluded=12



Where and When

@ University of Pisa teaching hubs





Estimates & results



Dependent variable

y :=binary choice

$y=1$ if ONE "Giraffe" t-shirt is chosen

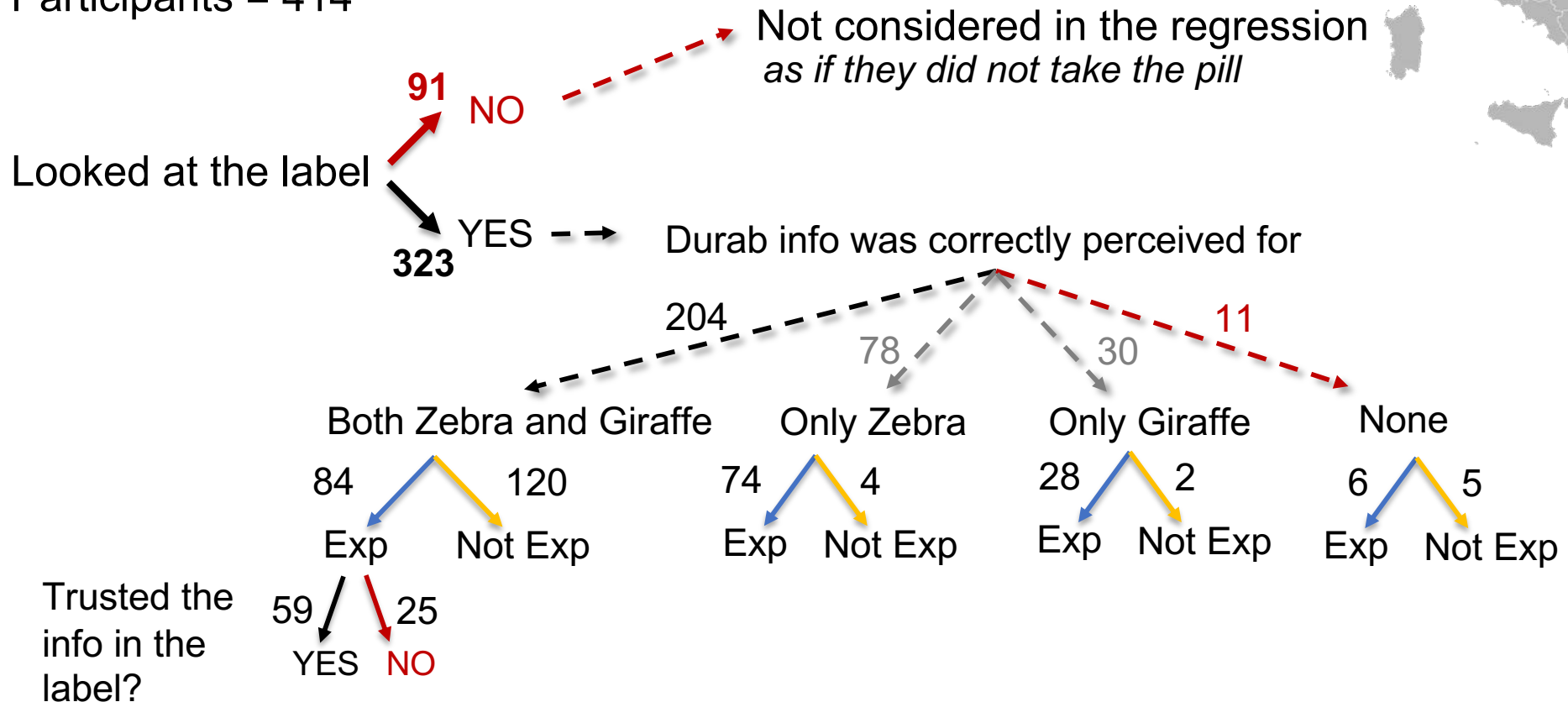
$y=0$ if TWO "Zebra" t-shirts are chosen



H1: Durability labelling increases the likelihood of students/young people choosing more durable products



Participants = 414



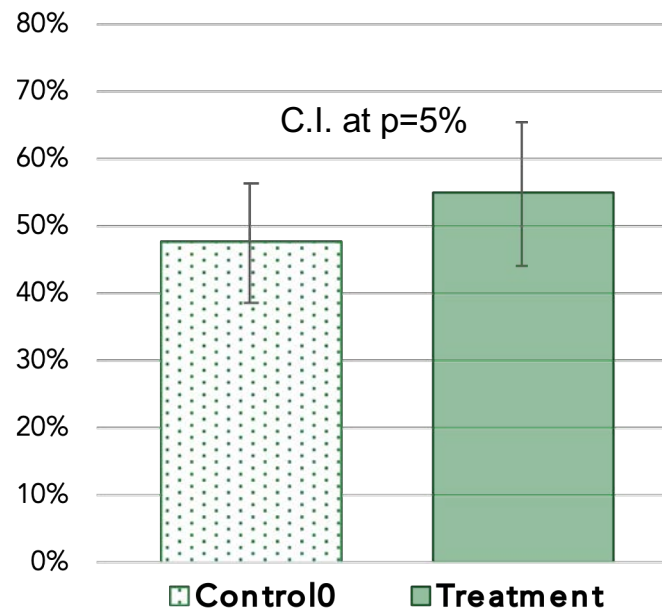


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$\chi^2=1,049$ ($p=0.31$)
V-Cramer=0.072

	Giraffe	Zebra	TOT
Control	57	63	120
Treatment	46	38	84
TOT	103	101	204

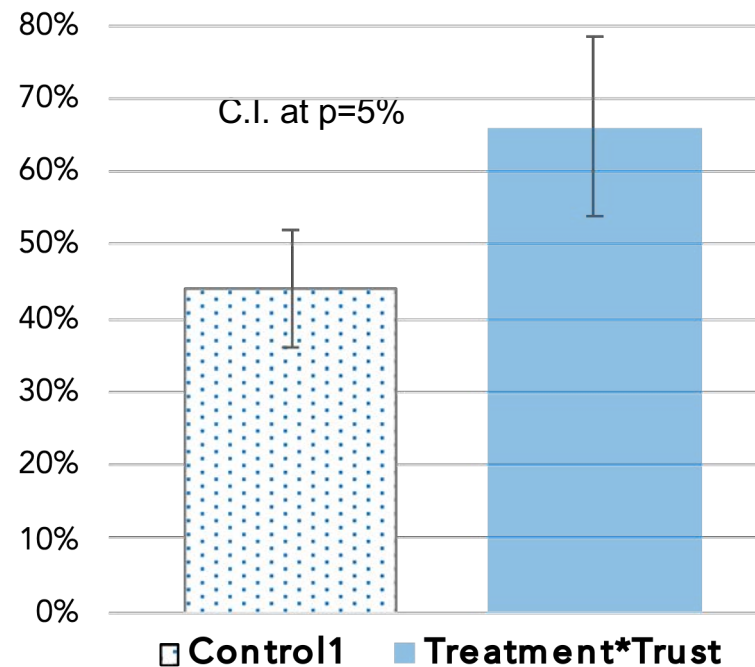




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	Giraffe	Zebra	TOT	
Control1	64	81	145	
Treat*Trust	39	20	59	$\chi^2=8,79$ (p=0.003)
TOT	103	101	204	V-Cramer=0.21





Checking for groups omogeneity

Adding controls and
LOGIT regression analysis

Logit regression

$$Y = a_0 + a_1 T + a_2 \text{Trust} \times T + \mathbf{a}_i \times \mathbf{X}_i$$

OR ?

$$Y = a_0 + a_1 T + a_2 \text{Trust} \times T + \mathbf{a}_i \times \mathbf{X}_i + a_3 \text{Trust}$$

**\mathbf{X}_i : control
variables**

Environmental concern

Socio-demographics

Geography

Educational field

Gender

Economic condition (high, medium, low, no answer)

Work condition

Grown up in rural areas

Social Norms

Subjective wellbeing

Social Capital

OTHER HPs

Sensitiveness to durability labelling is

- H2: higher in environmentally concerned subjects;
- H3: increases with subjective well-being;
- H4: lower the higher social capital;
- H5: independent of the geographical origin (cultural homogeneity among youngs)
- H6: independent of the educational field;
- H7: independent of gender (see literature);
- H8: (in)dependent of household economic situation;
- H9: increases when participants believe most people prefer the product with the label (empirical) or think it is the right choice (normative)

$$Y = a_0 + a_1 T + a_3 Trust + a_2 Trust \times T + a_i \times X_i + b_i \times T \times X_i$$



PRELIMINARY RESULTS from the regressions

Women → lower pr(Giraffe)

Other controls n.s.

Interactions n.s.



the results
from
contingency
table analysis
are confirmed



Conclusion



**Probability of choosing
«GIRAFFE»
higher for treated subjects
who trusted the info**

**«good» info
via QR-CODEs
are needed to make the label trustworthy**



The (preliminary)
end ...