



Ewelina Niewiadomska Statistics Poland

### **Outline**

- Community Survey on ICT usage
- Web data as information on enterprise characteristics
- Web data vs ICT survey 2023
- Challenges



# **General information about ICT survey**

- Annual survey since 2005
- **Target population:** Enterprises with 10 or more employees, classified in sections C,D,E,F,G,H,I,J,L,M,N, group 95.1 of NACE Rev.2 (industry and service activities).
  - Some activities are excluded i.e agriculture, mining, financial services
- **Scope:** Model Questionnaire Questionnaire should be understand for non ICT specialists efforts to avoid technical terms
- Type of the survey: Each country makes independent decision
- **High data users needs** variety of topics, limit of the questions, exchange of the questions, short time series, breaks in series



## **ICT** survey 2023

### COMMUNITY SURVEY ON ICT USAGE AND E-COMMERCE IN ENTERPRISES 2023

### General outline of the survey

#### Web presence

	Use of a website				
A4.	Does your enterprise have a website? (Filter question)	Yes □	->go to <b>A6</b>		
A5.	Does the website have any of the following?	Yes	No		
	a) Description of goods or services, price information				
	b) Online ordering or reservation or booking, e.g. shopping cart				
	c) Possibility for visitors to customise or design online goods or services				
	d) Tracking or status of orders placed				
	e) Personalised content on the website for regular/recurrent visitors				
	f) A chat service for customer support (a chatbot, virtual agent or a person replying to customers)				
	g) Advertisement of open job positions or online job application				
	h) Content available in at least two languages Please, consider a multilingual website within a single domain (e.g. ".com") or multiple domains of your enterprise in different languages (e.g. ".es", ".uk").				

	Use	of social media		
		erprises <u>using</u> social media are considered those that have a user profile ace depending on the requirements and the type of the social media.	e, an accoun	t or a user
A7.	Does your enterprise use any of the following social media?			
	(add i	(add national examples; replace existing examples if necessary)		
	a) So	cial networks (e.g. Facebook, LinkedIn, Xing, Viadeo, Yammer)		
	b) Ent	terprise's blog or microblogs (e.g. Twitter)		
		titimedia content sharing websites or apps (e.g. YouTube, Flickr, deShare, Instagram, Pinterest, Snapchat)	_	0
	A8.	Does your enterprise use any of the above mentioned social - optional	media to:	Yes
		a) Develop the enterprise's image or market products (e.g. advert launching products)	ising or	
		b) Obtain or respond to <u>customer</u> opinions, reviews, questions		
		c) Involve <u>customers</u> in development or innovation of goods or se	rvices	

d) Collaborate with business partners (e.g. suppliers) or other organisations

(e.g. public authorities, non-governmental organisations)

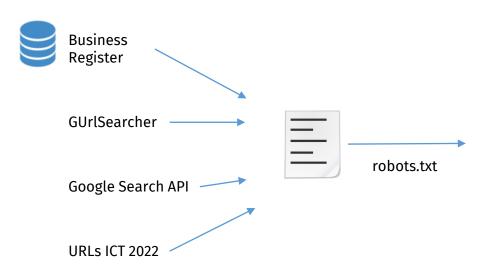
f) Exchange views, opinions or knowledge within the enterprise

e) Recruit employees



# Web data – Enterprises having website





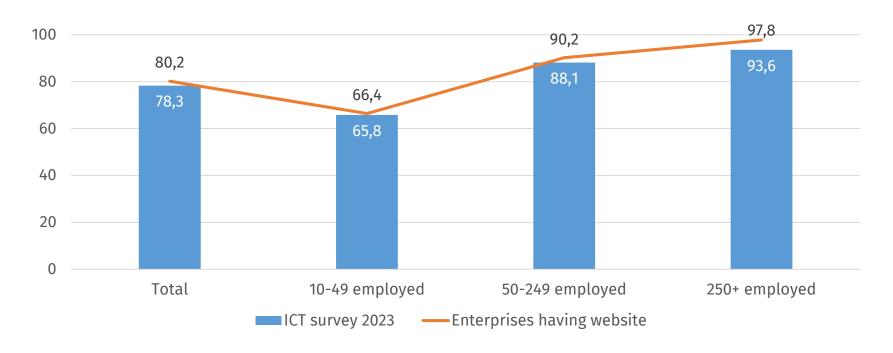
#### Web presence

	Use of a website		
A4.	Does your enterprise have a website? (Filter question)	Yes □	No □ ->go to <b>A6</b>
A5.	Does the website have any of the following?		No
	a) Description of goods or services, price information		
	b) Online ordering or reservation or booking, e.g. shopping cart		
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	d) Tracking or status of orders placed		
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### **ICT** survey 2023

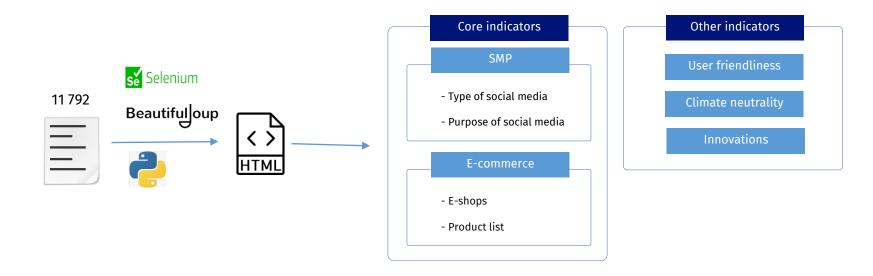
### Enterprises having website

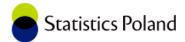




### Web data - indicators

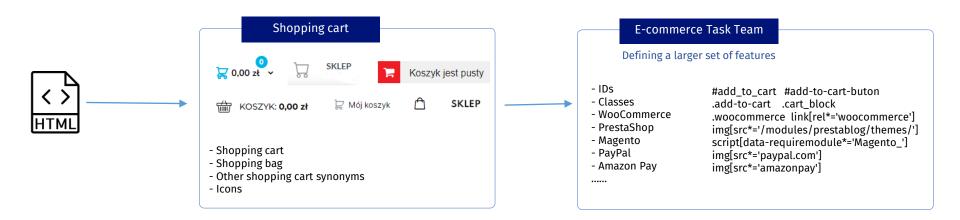
ICT sample 2023
20 039



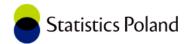


# Web data - Enterprises having shopping cart



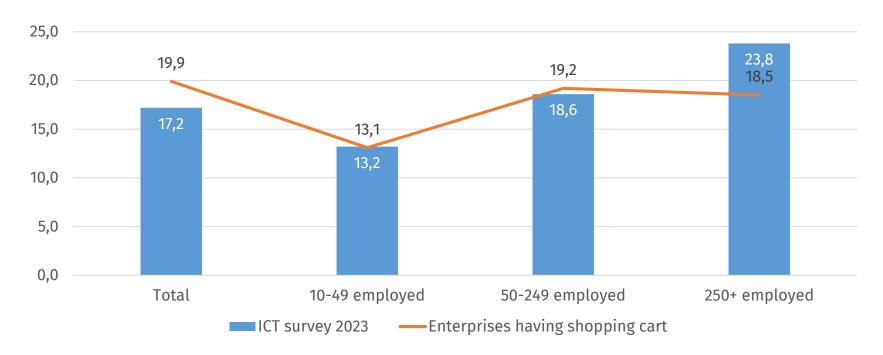


"Shopping cart" is the most important predictor



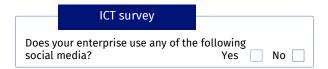
### **ICT** survey 2023

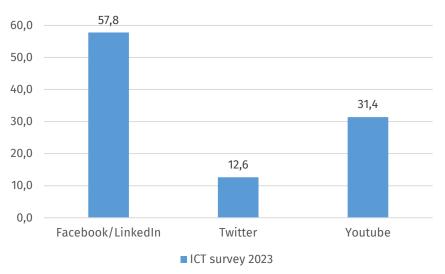
### Enterprises having shopping cart

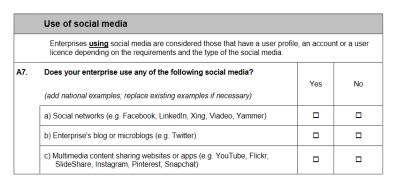


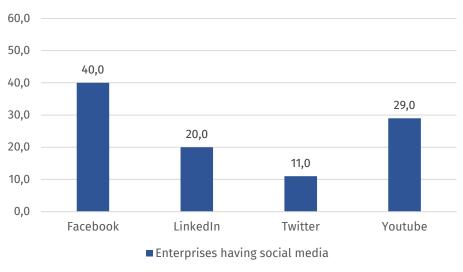


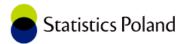
# **Social media presence**











# **ICT survey 2023 validation**

ICT Survey 2023

ID	Does your enterprise have a website?	a5b	Social networks (Facebook, LinkedIn)	Twitter	Youtube
00000000000001	1	2	2	2	2
000000000000002	1	2	1	2	1
00000000000003	1	2	2	2	2
00000000000004	1	2	1	2	2
00000000000005	1	2	1	2	1
00000000000006	1	2	2	2	2
00000000000007	1	1	1	2	2
80000000000000	1	2	1	2	2
00000000000009	1	2	1	2	2
00000000000010	1	2	1	2	1
00000000000011	1	1	1	1	1
00000000000012	1	2	2	2	2
•••••	••••	••••	••••	••••	••••
00000000000N	2	2	2	2	2

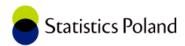
Web Data

URL	a5b	a7a	a7b	a7c
https://www.URL1	2	1	2	1
https://www.URL2	2	2	2	2
NO URL	N/A	N/A	N/A	N/A
https://www.URL4	2	1	1	1
https://www.URL5	2	2	2	2
https://www.URL6	2	2	2	2
https://www.URL7	2	1	1	1
https://www.URL8	2	1	2	2
https://www.URL9	1	1	1	1
https://www.URL10	2	1	1	1
https://www.URL11	1	1	2	2
https://www.URL12	2	2	2	2
•••••	••••	••••	••••	••••
https://www.URLn	2	2	2	2



### **Challenges**

- Problems with websites (outdated websites, missing websites, errors in URLs)
- Manual validations (the "annotation exercise") takes a lot of time and efforts
- Validation of survey results by checking social media account names
- Validation of e-commerce based on a few features, e.g., shopping cart and product list



Thank you!