

# MIXED MODE DESIGN IN OFFICIAL STATISTICS

### - WHERE ARE WE GOING? -

Karen Blanke & Christine Kronz

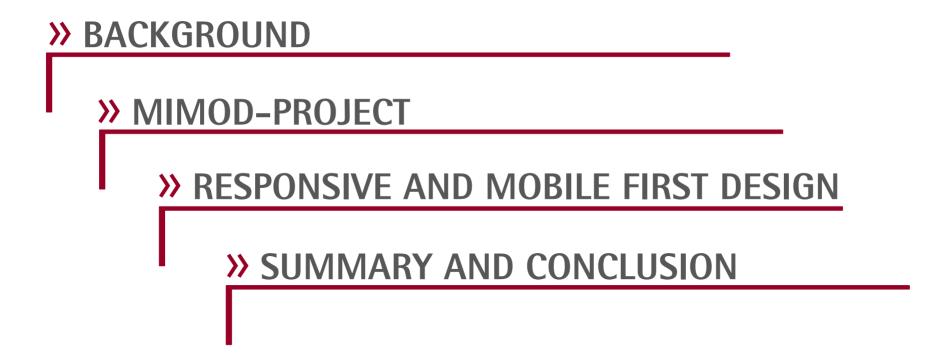
Methods of primary data collection Federal Statistical Office of Germany (Destatis)

ESRA Conference 2019, 15th to 19th July



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## **CONTENT**



# **BACKGROUND**

#### Discussion within the European Statistical System (ESS)

- » Mixed-Mode-Data Collection:
  - >> Which modes are still of relevance?
  - >> Which mode should be the leading design?

MIMOD: Mixed Mode Designs in Social Surveys

- Aim of the MIMOD project:
  - Supporting National Statistical Institutes (NSI's) to implement mixed modes and mixed devices in social surveys

# THE MIMOD-PROJECT

#### Mixed Mode Designs in Social Surveys (MIMOD)

- >> ESSnet project awarded by Eurostat (12/2017-04/2019)
- Consortium of 5 countries and supporting National Statistical Institutes (NSI)
  - >> ISTAT (Lead); CBS (Netherlands), SSB (Norway), STAT (Austria), Destatis (Germany) ...
  - NSEE (France), Czech Statistical Office, Central Statistical Office of Poland, Statistic Finland and Statistics Sweden
- Workpackage: CAWI on different devices (smartphones, tablets, PC/Laptop)

### WEB & SMARTPHONE OPTIONS IN EUROPEAN SURVEYS

Survey	Web option (out of 31 NSI)	Smartphone usable	Questionnaire slightly adapted
AES	10/31	8/10	1
EHIS	11/31	10/11	/
EU-SILC	7	4/7	1
HBS	5	3/5	/
HETUS	0	/	/
ICT	15	10/15	2
LFS	6	5/6	/

last updated July 2018

Adult Education Survey (AES), European Health Survey (EHIS), EU Survey on Income and Living Conditions (EU-SILC), Household Budget Survey (HBS), Harmonized European Time Use Survey (HETUS), Survey on Information & Communication Technology (ICT), Labour Force Survey (LFS)

### FITNESS CRITERIA & ASSESSMENT FOR MOBILE USE

Survey	Screen size	Touch navigation	Duration
EHIS			
EU-SILC			
ICT			
LFS household			
LFS person			

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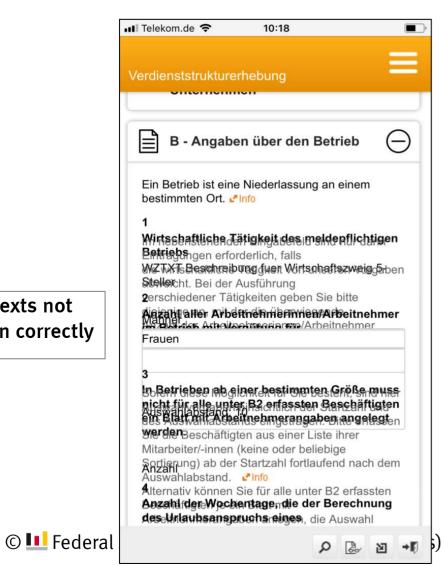
#### Requirements:

Green: no specific adaption (general mobile layout)

Yellow: some adaptation

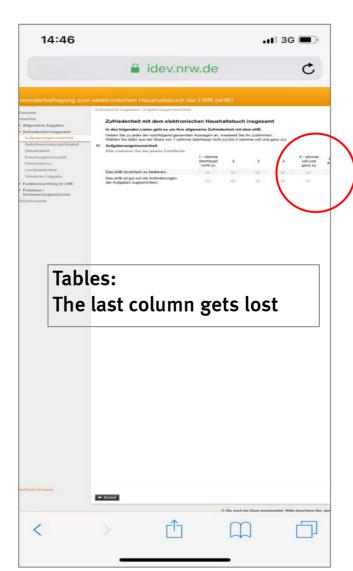
Red: total redesign

## **EXAMPLE: NON-RESPONSIVE DESIGN**



Info-texts not

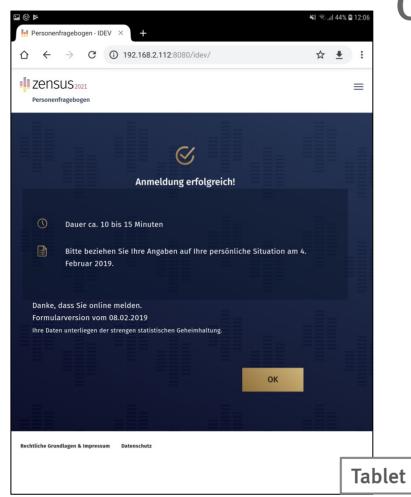
shown correctly





## RESPONSIVE AND MOBILE FIRST DESIGN

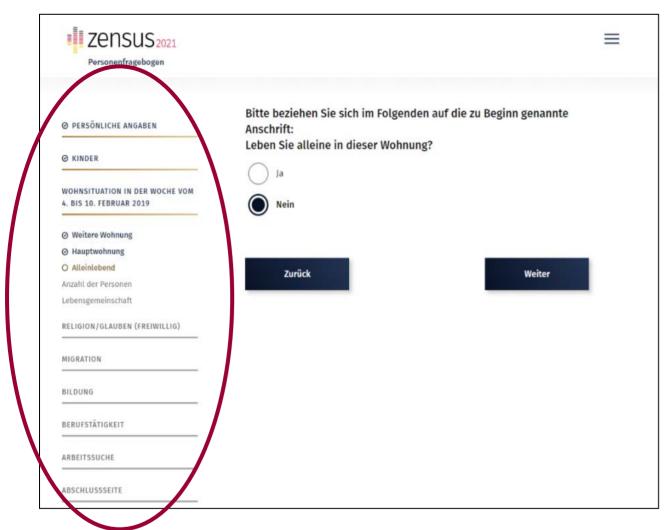
PRELIMINARY DESIGNS: RESPONSIVE & MOBILE FIRST
CENSUS 2021

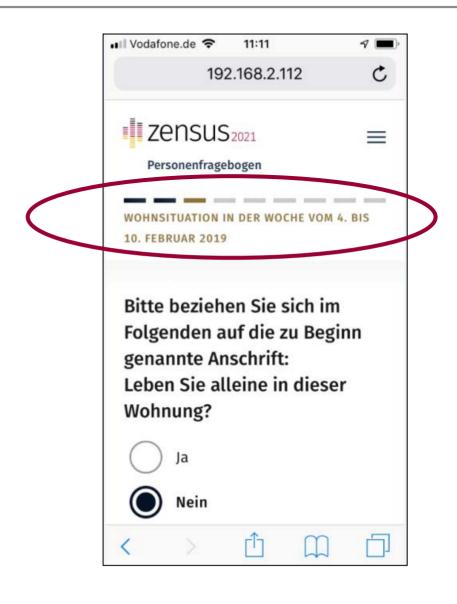






## **NAVIGATION BAR**

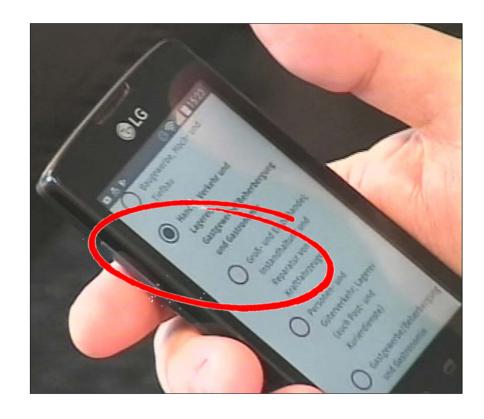




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### **ECONOMIC SECTOR**

#### Hierarchical search



Original Version: Respondents could not distinguish between main- and subcategories

Repair and installation of m

Water supply; Sewage and remediation activities

Energy supply

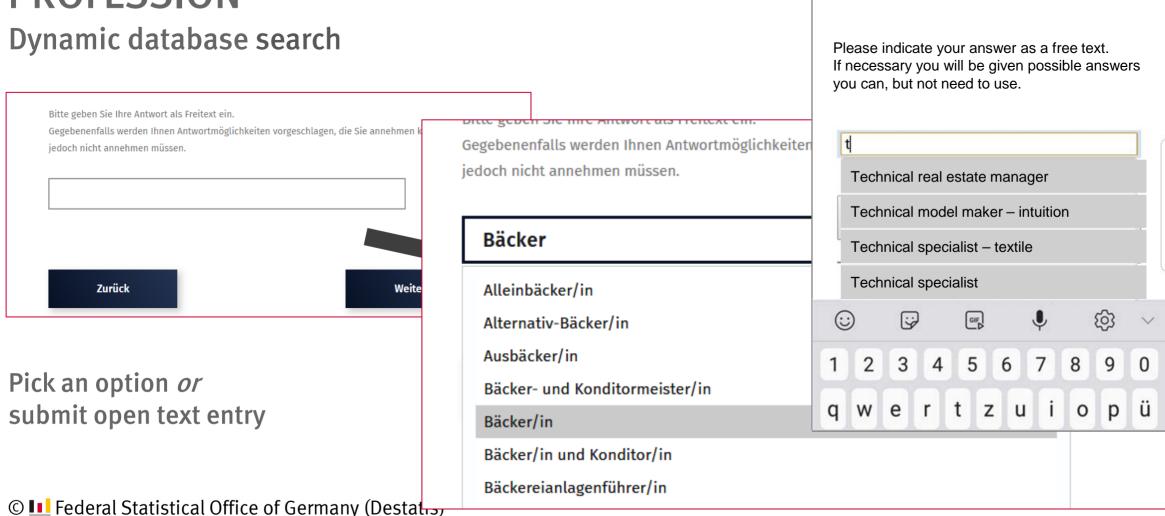
Construction

- Agriculture, forestry and fishing Proposal: plus/minus symbols to emphasize drop-down Manufacturing / production of goods, mining and functionality quarrying, other industries (+) Agriculture, forestry and fishing Mining, Extraction of crude Nanufacturing / production of goods, mining and gas, guarrying of stone and quarrying, other industries Manufacturing industries / Mining, Extraction of crude petroleum and natural (e.g. food, textiles, electroni oil-refining, printed products gas, guarrying of stone and clay
  - Manufacturing industries / manufacturing of goods (e.g. food, textiles, electronics, machines, vehicles, oil-refining, printed products
  - Repair and installation of machinery and equipment
  - Energy supply
  - Water supply; Sewage and waste disposal and remediation activities
  - ⊕ construction

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**□** ▷ □

# **PROFESSION**



## **SUMMARY AND CONCLUSION I**

#### Social Surveys in the European Statistical System (ESS)

- >> Web data collection is moderately increasing
- >> The development of smartphone-designs still is in its infancy (fitness criteria)

#### Recommendation on survey designs (MIMOD):

- → More emphasis on smartphone design is needed
- → Mixed- mode is still of relevance
- → Redesign of most surveys is recommended

## **SUMMARY AND CONCLUSION II**

#### **Responsive Design - Destatis**

- >> Mobile first is a successful design approach
- >> Responsive design necessary for assuring data quality
- >> Different classification approaches positively assessed in pretest:
  - >> Economic sector (hierarchical search) and profession (dynamic database search)

#### **Conclusion:**

- → Responsive design is strongly advised
  - → Next step: quantitative testing

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