

# Final Conference

Adding biomedical data to the SHARE repository

Fabio Franzese, SHARE

**SSHOC Final Conference**

**6 April 2022**

Brussels/Online





# SHARE

SURVEY OF HEALTH, AGEING  
AND RETIREMENT IN EUROPE

- Cross-national
  - 27 European countries & Israel
- Comparable over time
- Multidisciplinary



This project has received funding from the European Union under grant agreement SOCP1 No 101052589 and the European Union's Horizon 2020 research and innovation programme under grant agreements No 870628, No 101015924.

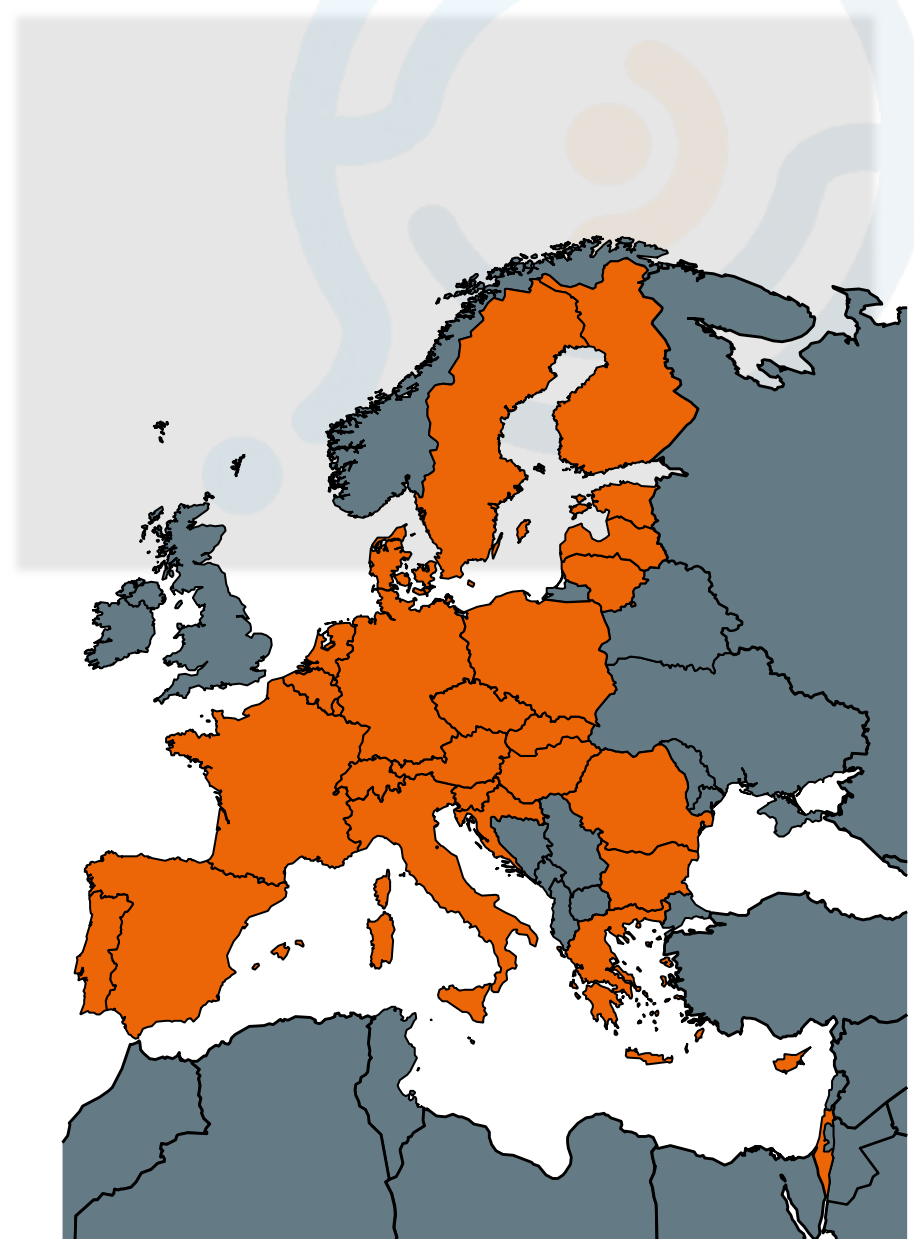


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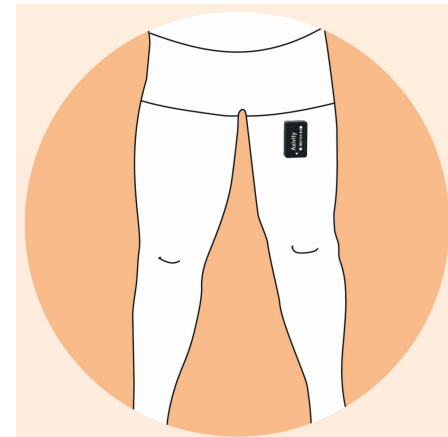


# Biomedical data in SHARE

- Dried blood spots (Wave 6)
  - Drops of capillary whole blood from a simple finger prick
  - Collected on filter paper
  - Blood marker, e.g. HbA1c
- Accelerometry (Wave 8)
  - Measurement of physical activity
  - Thigh-worn accelerometer
  - Eight days



© SHARE Biobank



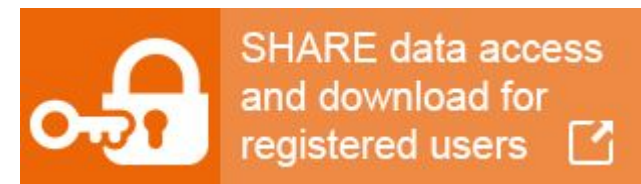
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# Repository SHARE Research Data Center



(Tilburg University, The Netherlands) provides

- Dissemination platform
- Easy and secure access for SHARE users



# Challenges & Achievements

## Guidelines for ethics considerations

- 'do not harm' principle
  - include physical harm
- Review (and adapt) protection of anonymity and confidentiality
- Review by an ethics committee
  - recommended and legally required in some countries



More information: SSHOC D5.1

# Challenges & Achievements

## FAIR data

- Findability:
  - DOI
- Accessibility:
  - Data is free of charge for scientific purpose
- Interoperability:
  - commonly-used file formats
  - (meta)data is comprehensively documented, based on DDI standards
- Reusability
  - Archive of previous release versions

More information: SSHOC D5.2 & D5.3



# Challenges & Achievements

## Integration in SHARE repository

- First accelerometry data published in June 2021
  - Updated in February 2022
- More updates in the future
  - New metrics for accelerometry
  - Dried blood spots

More information: SSHOC D5.4

# Adding biomedical data to the SHARE repository

- Guidelines for ethics considerations
  - 'do not harm'
- FAIR data
  - Data access protocol
- Integration in SHARE repository
  - First data already published
  - Updates in the future





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This project is funded from the EU Horizon 2020 Research and Innovation Programme (2014-2020) under Grant Agreement No. 823782

# Final Conference

## SurveyCodings: Classifying Responses in Real Time

Rodrigo Reyes, Junior Researcher,  
Tilburg University  
**SSHOC Final Conference**  
06/04/2022  
Brussels





# SurveyCodings

[www.surveycodings.org](http://www.surveycodings.org)

 @SurveyCodings



# What is SurveyCodings?

An **online tool** for the coding/measurement of **crucial social science** variables:

- Fields and levels of education
- Occupation
- Industry
- Job tasks
- Religious Denominations
- Region
- Cost of living

Available in **different languages** for **multiple countries**



# What is SurveyCodings?

## Jointly **carried out by**

- EVS – TiU: Ruud Luijkx, Daniela Negoita, and Rodrigo Reyes
- GESIS: Verena Ortman and Silke Schneider
- Centerdata: Maurice Martens
- WageIndicator: Kea Tijdens

For public opinion **surveys**, social science **projects**, data **archives**, **researchers**, and any other interested parties

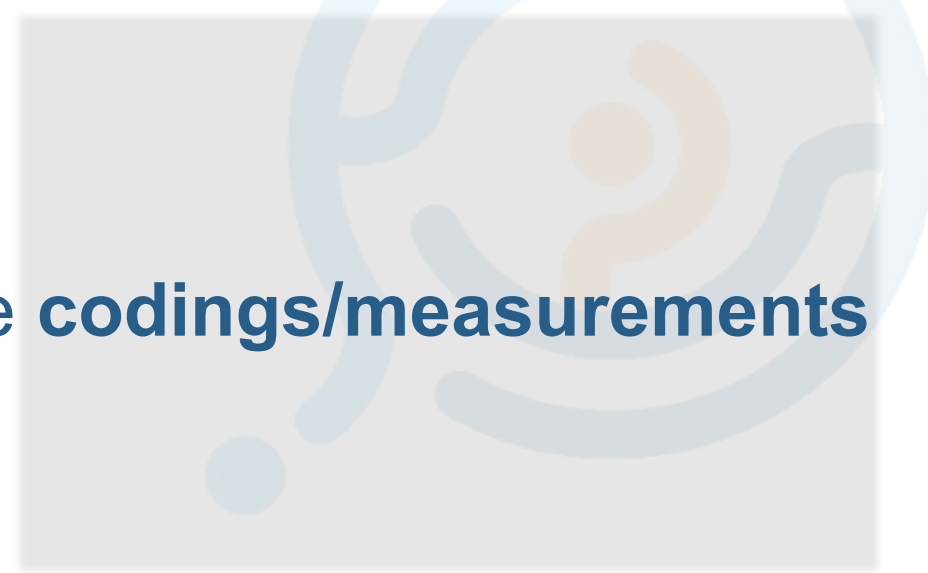


# What is SurveyCodings' aim?

To **openly** offer classic socio-economic variable **codings/measurements** that are:

- **Findable**
- **Accessible**
- **Interoperable**
- **Reusable**

All **available** to interviewers and participants **in real time**.



# What does SurveyCodings offer?

	<b>Countries</b>	<b>Languages</b>	<b>Entries</b>	<b>Standard</b>
<b>Fields of education</b>	-	35	80	ISCED-F 2013
<b>Levels of education</b>	100	-	3500	ISCED 1997/2011, edulvlb
<b>Occupation</b>	160	54	4200	ISCO08
<b>Industry</b>	163	55	321	NACE coded with ISIC mapping tables
<b>Religious denomination</b>	211	80	497	-
<b>Region</b>	200	-	2000	NUTS
<b>Cost of living</b>	177	58	209	-



# What does SurveyCodings offer?

Please select a country/language

United Kingdom - England, Wales, and Northern Ireland

## Search box

gradua

City and Guilds Level 6, **Graduateship** - GCGI (NVQ level 5)

City and Guilds Level 7, **Postgraduate** (NVQ level 5)

Post-**Graduate** Certificates

Post-**Graduate** Diplomas

## Search tree

- ▶ No educational qualification
  - Key or Basic Skills, Entry Level Certificate, Skills for Life
- ▶ NVQ level 1, 1-4 GCSEs A\*-C, GCSEs D-G, or equivalent qualification
- ▶ NVQ level 2, 5 or more GCSEs A\*-C, or equivalent qualification
- ▶ NVQ level 3 or equivalent vocational qualification
- ▶ A-level or equivalent general qualification
- ▶ NVQ level 4 and 5 or equivalent vocational qualification
- ▼ University degrees
  - Foundation degree
  - Bachelor's degree, 3-4 years
  - Bachelor's degree, 5 years
  - Post-Graduate Diploma or Certificate**
  - Master's degree
  - Doctorate, PhD

## Information

**Description:** Post-Graduate Diploma or Certificate

### Classifications:

- ISCED1997: 5A1 - Long ISCED 5 with access to 6
- ISCED1997-LFS: 52 - ISCED 5a
- Alternative ISCED1997: 5A1 - Long ISCED 5 with access to 6
- ISCED-A2011: 760 - Master's level education, orientation unspecified
- ISCED2011-LFS: 700 - ISCED 7
- Alternative ISCED2011: 750 - Professional master's level education
- edulvlb: 710 - Vocational/professional ISCED 7

### Synonyms:



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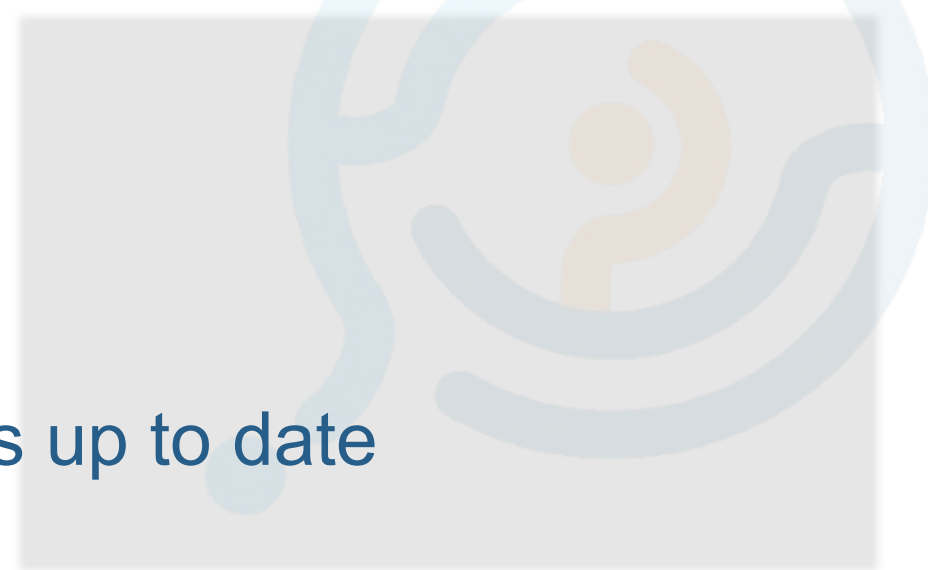
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**Synonyms:**

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# The future of SurveyCodings

- To be **continued after SSHOC**
- Constant maintenance to keep our variables up to date
  - **Standard classifications change**
- Non-European languages curation
- Covering more languages



# Why SurveyCodings?

- Input and ex-ante output **harmonization**
  - **Reduced workload** for surveys and post-coders
  - Enables cross-national data collection and **comparability**
  - Enables **inter-survey** cooperation
  - Updated **standard classifications**
- A **field-deployable live-search tool** for each variable
  - Looking at single country codings
  - Linking coding sets
  - Our website's functionality can be **stored as an app** on mobile devices for **F2F interviews**



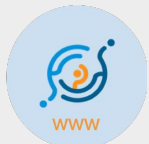
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**SurveyCodings**

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# [MCSQ] The Multilingual Corpus of Survey Questionnaires

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Lidun Hareide, Møreforsking Research Institute, Norway

## SSHOC final Conference

April 06, 2023



This project is funded from the EU Horizon 2020 Research and Innovation Programme (2014-2020) under Grant Agreement No. 823782



# What is a corpus?

- A collection of
  1. *Machine readable*
  2. *Authentic texts*
  3. *Sampled to be*
  4. *Representative of a particular language/language variety/domain (e.g. Literary works, medical texts, survey questionnaires etc.)*
- «A significant advantage of the corpus linguistic method is that it allows for the analyst to approach the study of language from the context for the scientific method» - Geoffrey Leech





# MCSQ: the first publicly available corpus of survey questionnaires

- **Version 3 (Rosalind Franklin):**
- **306 distinct questionnaires from:**
  - the European Social Survey (ESS),
  - the European Values Study (EVS),
  - Survey of Health Ageing and Retirement in Europe (SHARE)
  - WageIndicator Survey
- More than 4 million words
- $\cong$  766.000 sentences

The questionnaires included comprise more than 40 years of survey research from large-scale comparative survey projects that provide cross-national and cross-cultural data to the Social Sciences and Humanities (SSH)



# Qualities of the [MCSQ]:

- Open access
- Searchable
- Sentence aligned
- annotated (Pos-tagging and Name Entity Recognition)
- **FAIR** (Findable, Accessible, Reproducible and Interoperable) by design
- A powerful instrument for the further development of **best practice in design of source questionnaire and questionnaire translation methodologies**



# Languages included in the MCSQ

Source language: **English localized for Great Britain**

- **8 target languages adding up to 30 language varieties:**

- **Catalan**
- **Czech**
- **French** localized for France, Switzerland, Belgium and Luxembourg
- **German** localized for Austrian, German, Swiss and Luxembourg
- **Norwegian** localized for Bokmål
- **Portuguese** localized for Portugal and Luxembourg
- **Spanish** localized for Spain
- **Russian** localized for Azerbaijan, Belarus, Estonia, Georgia, Israel, Latvia, Lithuania, Moldavia, Russia and Ukraine

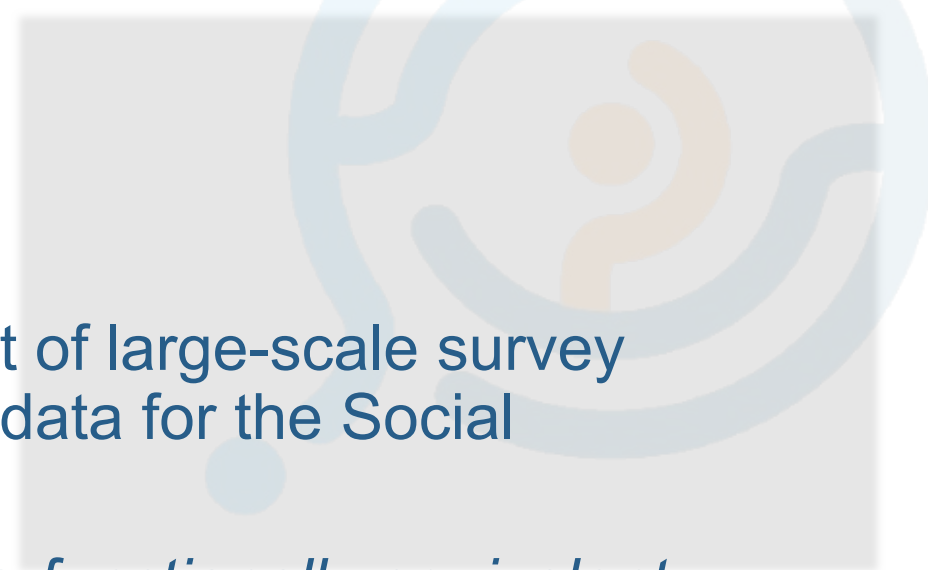


- The MCSQ is representative of the **specialized language of surveys in the 8 languages, but not of the 8 languages in general**

# Why is the MCSQ needed?

**Ask the same question (ASQ method)** is at the heart of large-scale survey projects that provide cross-national and cross-cultural data for the Social Sciences and Humanities

- Any translation is expected to produce texts that are *functionally equivalent* for the purpose of statistical analysis.
- Concepts to be measured must be kept *the same* across languages:
  - Keep the same psychometric properties and capture the same psychological variables (e.g. opinions and attitudes) across linguistic contexts (Harkness et al., 2010; Mohler & Johnson, 2010, Zavala-Rojas et al., 2018)
  - Translation teams should minimize adaptation.
  - Low quality translations hamper data comparability and increase errors of measurement (Davidov & De Beuckelaer, 2010; Oberski et al., 2007).



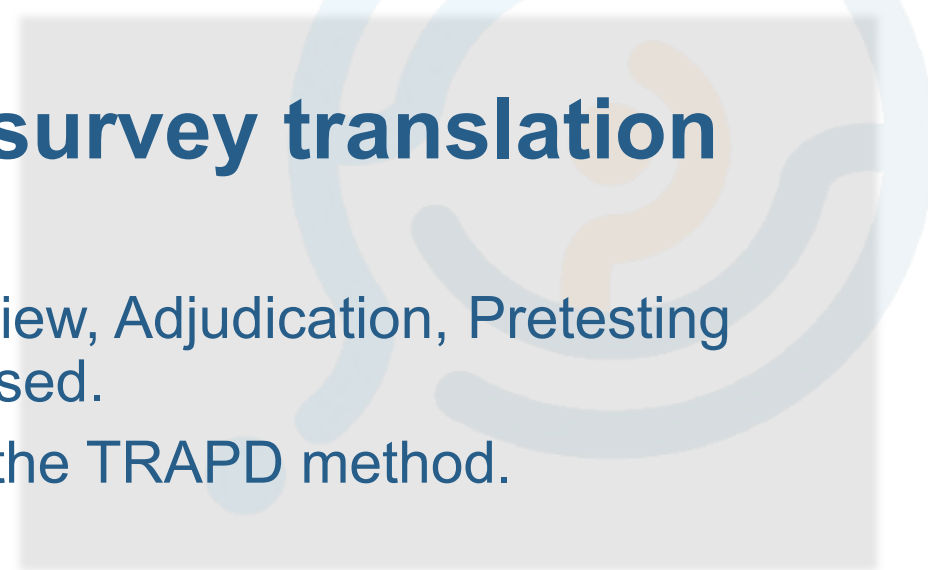
# TRAPD method: the gold standard in survey translation

For translation in the ASQ framework, the Translation, Review, Adjudication, Pretesting and Documentation method (TRAPD, Harkness 2003) is used.

- Questionnaires in the MCSQ were translated using the TRAPD method.

## Challenges:

- Human work intensive
- Translations are not necessarily harmonized across languages
  - Variations may reflect the teams choices and not necessarily linguistic differences
    - May hamper data comparability
    - Translation options multiply – hindering replicability
    - Managing, storing, analysing and reusing translation documentation is challenging



# How can the MCSQ contribute to survey translation?

- **Searchable database**
  - Facilitates visualization and statistical analysis of previous translation decisions across languages
  - Tool for checking the translation of concepts across languages and surveys
- **Repository for previous rounds/waves of surveys**
  - Allows for the retrieval and preservation of source and translated questionnaires
  - Provides textual data for survey translation activities and research
  - Allows for the integration of translation analysis into the design of the source questionnaire
- **Valuable database for training new survey designers and translators and for research**
- **Can be downloaded as a translation memory and used in a Computer Assisted Translation (CAT) tool**



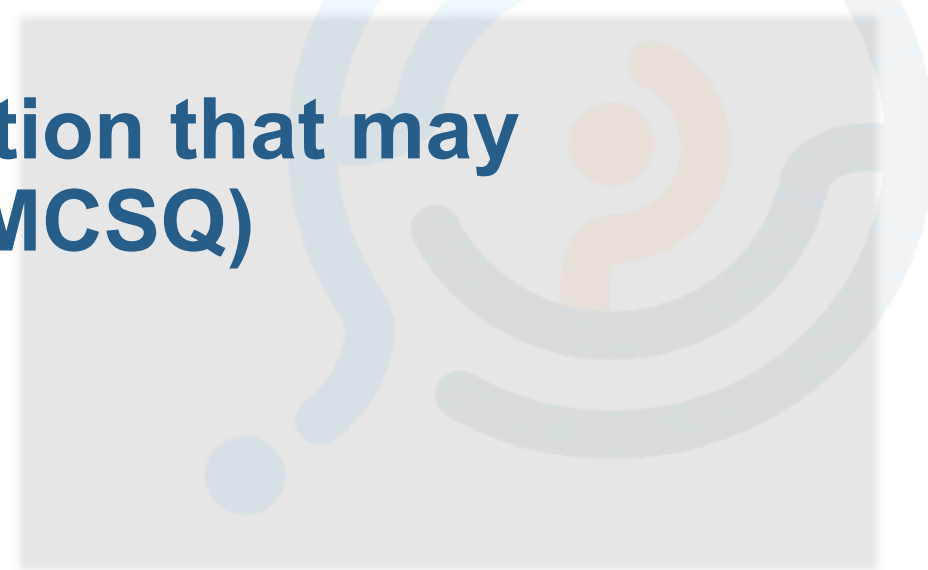
# Example of inconsistencies in translation that may hamper data comparability (from the MCSQ)

## Example:

- **Most people can be trusted.** (ESS R06)
- **(BE)** *La plupart des personnes sont dignes de confiance. [Lit] (Most people are trustworthy.)*
- **(CH)** *On peut faire confiance à la plupart des personnes. [Lit] (One can trust most people.)*
- **(FR)** *On peut faire confiance aux gens. [Lit] (One can trust people.)*

A more standardized approach to translation across countries and languages is needed to enhance comparability.

- The MCSQ was created to contribute to this end



# MCSQ is also a valuable resource for

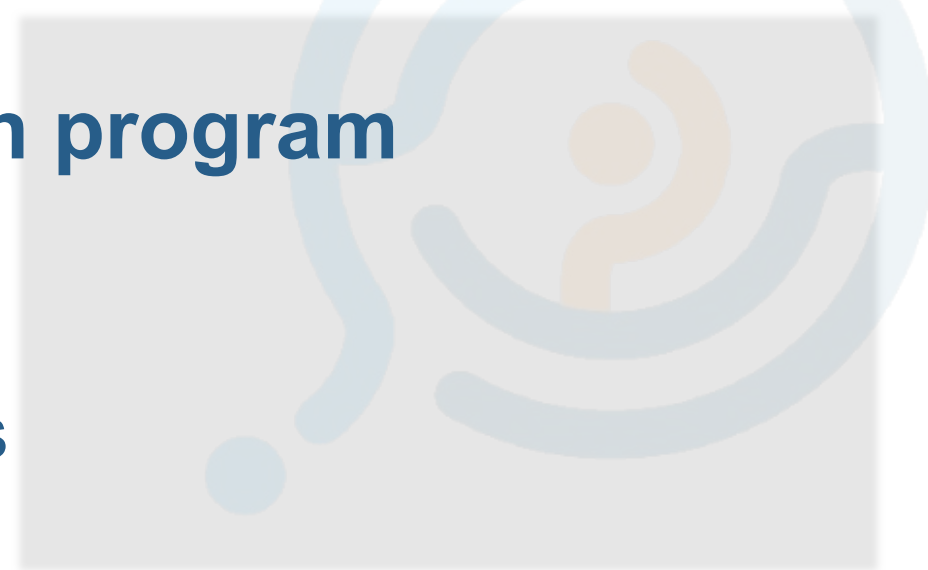
- Regional languages and language varieties (i.e. Catalan, Norwegian Bokmål, Swiss German)
- Facilitates visualization and statistical analysis of previous translation decisions across languages
- Cross-linguistic comparison of specialized use of survey language
- The creation of translation memories (TMX format)
  - Can be built and downloaded directly from the interface
  - Compatible with Computer Assisted Translation tools (Matecat)





# The MCSQ's successful dissemination program

- 9 presentations in international conferences
- 2 academic papers
- 1 science communication blog



# Where do we go from here?

- A corpus can be:
  - a snapshot a linguistic reality (synchronic)
  - a resource that grows more valuable over time (diachronic)
- Today the MCSQ is a really well-made snapshot of
- 306 distinct questionnaires from:
  - the European Social Survey (ESS),
  - the European Values Study (EVS),
  - Survey of Health Ageing and Retirement in Europe (SHARE)
  - WageIndicator Survey
- But it has the potential to become an immensely useful resource



# Sustainability and exploitation

- New data will become available
- For a corpus, bigger is better
- New functions will be needed
- The technology must be updated and maintained
- How do we teach students, linguists, researchers, translators to use this fabulous tool?
- How do we keep it up to date and alive?

UPF will sustain the MCSQ for 2 years

- Further investments are needed for a long term vision



# The new home for the MCSQ

[\[MCSQ\]: The Multilingual Corpus of Survey Questionnaires \(uib.no\)](http://easy.mcsq.upf.edu/)

[Also accessible at \(http://easy.mcsq.upf.edu/\)](http://easy.mcsq.upf.edu/)



CLARINO Repository Home / View Item

## [MCSQ]: The Multilingual Corpus of Survey Questionnaires

Please use the following text to cite this item or export to a predefined format:

Zavala Rojas, Diana; Sorato, Danielly; Hareide, Lidun and Hofland, Knut, 2021, *[MCSQ]: The Multilingual Corpus of Survey Questionnaires*, Common Language Resources and Technology Infrastructure Norway (CLARINO) Bergen Repository, <http://hdl.handle.net/11509/142>.

Share:

Authors	Zavala Rojas, Diana ; Sorato, Danielly ; Hareide, Lidun ; Hofland, Knut
Project URL	<a href="https://www.upf.edu/web/mcsq/">https://www.upf.edu/web/mcsq/</a>
Demo URL	<a href="http://easy.mcsq.upf.edu/userRegistry">http://easy.mcsq.upf.edu/userRegistry</a>
Date issued	2021-09-01
Type	corpus
Size	766.000 utterances, 4000000 tokens
Language(s)	English , Catalan , Czech , French , German , Norwegian , Portuguese , Spanish , Russian
Description	The Multilingual Corpus of Survey Questionnaires (MCSQ) is the very first publicly available multilingual database comprised of international survey texts. Its latest version (Rosalind Franklin), is composed of 306 distinct questionnaires comprising approximately 766.000 sentences and includes new annotations and datasets to the corpus. The MCSQ is compiled from the following surveys and their versions:

Search



What can you do?



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FAQ

About



# Important now:

- Finding the resources for
  - Expansion into more studies
  - Expansion in time
  - Adding future studies
  - Developing strategies for automatic uploads and treatment of new surveys



# How to cite the MCSQ

Zavala-Rojas, D., Sorato, D., Hareide, L., & Hofland, K.  
(forthcoming 2022). Multilingual Corpus of Survey Questionnaires: a  
tool for refining survey translation. *Meta: Journal Des Traducteurs*.



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Harkness, J. A., Villar, A., & Edwards, B. (2010). Translation, Adaptation, and Design. In J. A. Harkness, M. Braun, B. Edwards, T. P. Johnson, L. E. Lyberg, P. P. Mohler, B.-E. Pennell, & T. W. Smith (Eds.), *Survey Methods in Multinational, Multiregional, and Multicultural Contexts* (pp. 115–140). John Wiley & Sons, Inc. <https://doi.org/10.1002/9780470609927.ch7>

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Zavala-Rojas, D., Saris, W. E., & Gallhofer, I. N. (2018). Preventing Differences in Translated Survey Items using the Survey Quality Predictor. In T. P. Johnson, B.-E. Pennell, I. A. L. Stoop, & B. Dorer (Eds.), *Advances in Comparative Survey Methods: Multinational, Multiregional and Multicultural Contexts (3MC)* (pp. 357–384). Wiley Series in Survey Methodology. <https://doi.org/https://doi.org/10.1002/9781118884997.ch17>

Zavala-Rojas, D., Sorato, D., Hareide, L., & Hofland, K. (forthcoming 2021). Multilingual Corpus of Survey Questionnaires: a tool for refining survey translation. *Meta: Journal Des Traducteurs*.

# What is the MCSQ useful for?

## Quality control

- Cross check that questionnaires included in the MCSQ:
  - follow the Ask the same question (ASQ method)
  - Translations are *functionally equivalent* for the purpose of statistical analysis.
  - Concepts to be measured are kept the same same across languages

## Repository of previous rounds

- Simplify reuse of previous successful survey items
- Root out unsuccessful or problematic survey items

## Training

- Of survey creators
- Survey translators
- Of automatic translation programs





# Panel Discussion

1. In what ways can one enable interoperability of data in a service?
2. How do you decide in which format the data should be released ?
3. How did you collect the translations in the occupation database with 4000+ titles and 40+ languages?
4. What is the advantage to use the MCSQ tool to work with the questionnaires?

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**Daniela Negoita**  
Tilburg University



**Rodrigo Reyes**  
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Tilburg University



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**Lidun Hareide**  
Møreforskning



**Fabio Franzese**  
Max Planck Institute  
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