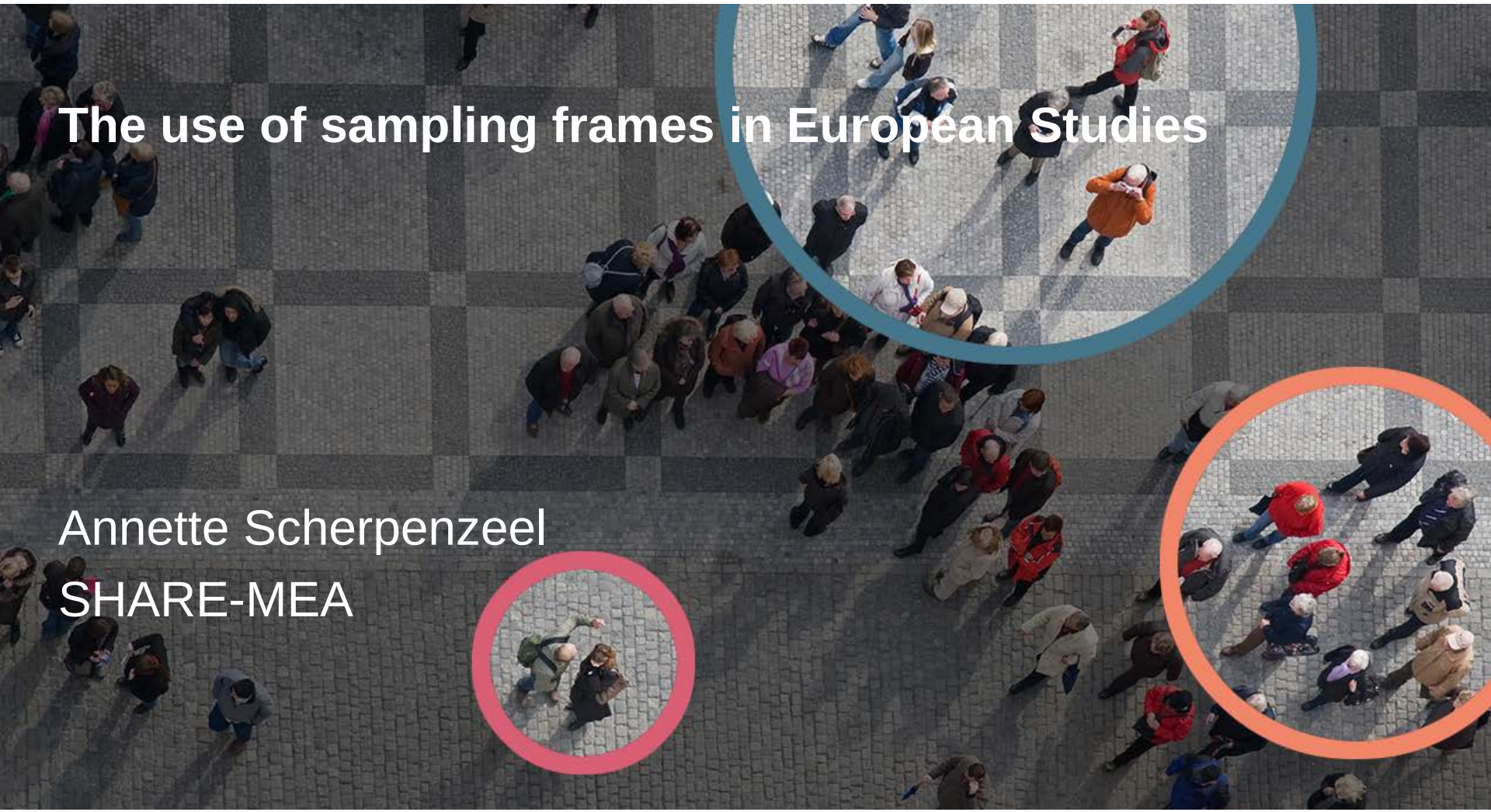
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The use of sampling frames in European Studies



Annette Scherpenzeel
SHARE-MEA

This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 654221.

What is SERISS?

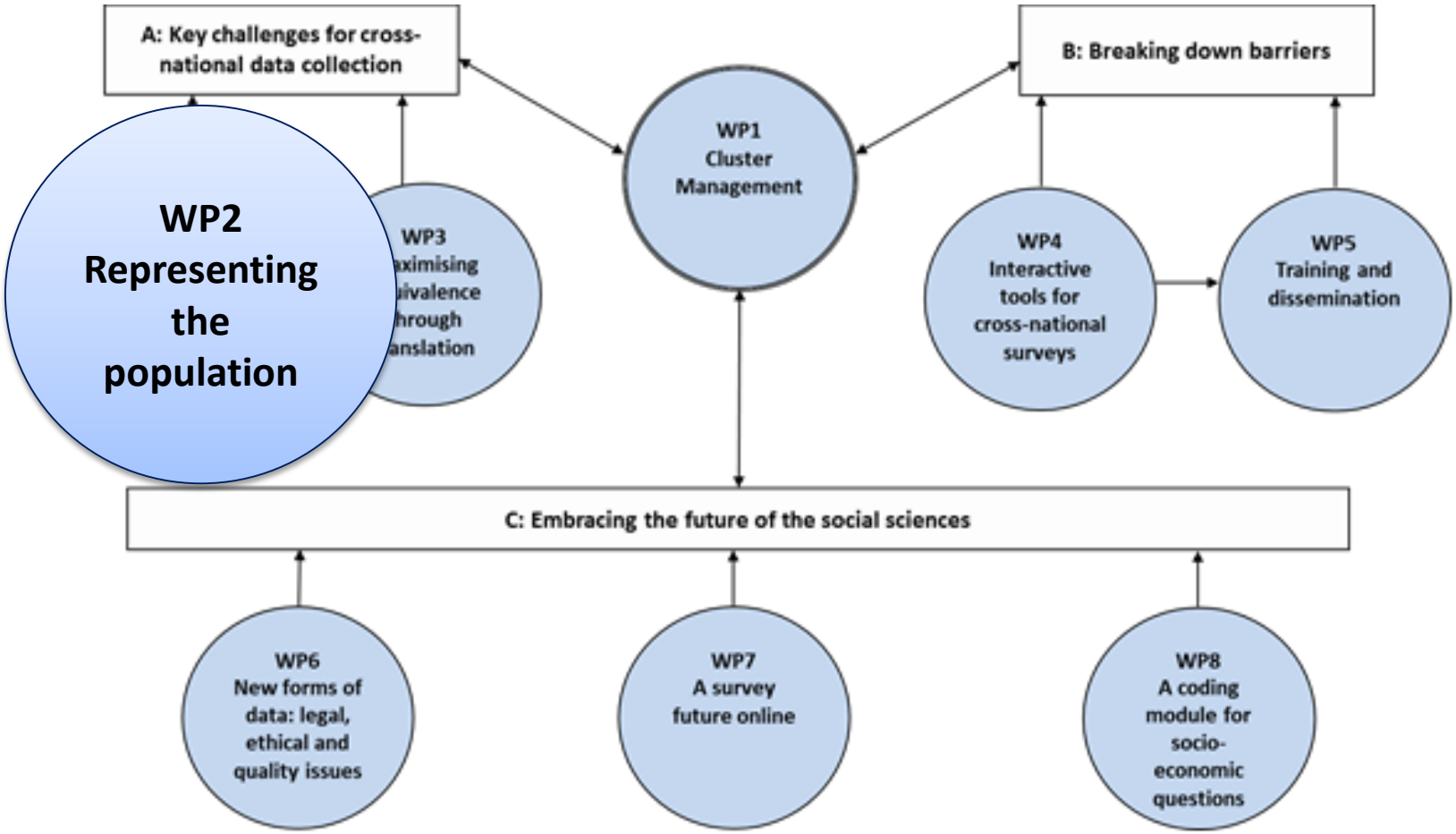
Synergies for **E**urope's **R**esearch **I**nfrastructures in the **S**ocial **S**ciences

- http://seriss.eu
- Four-year project that aims to strengthen and harmonise social science research across Europe
- Survey design, data collection, data management in cross-national perspective
- Six research infrastructures

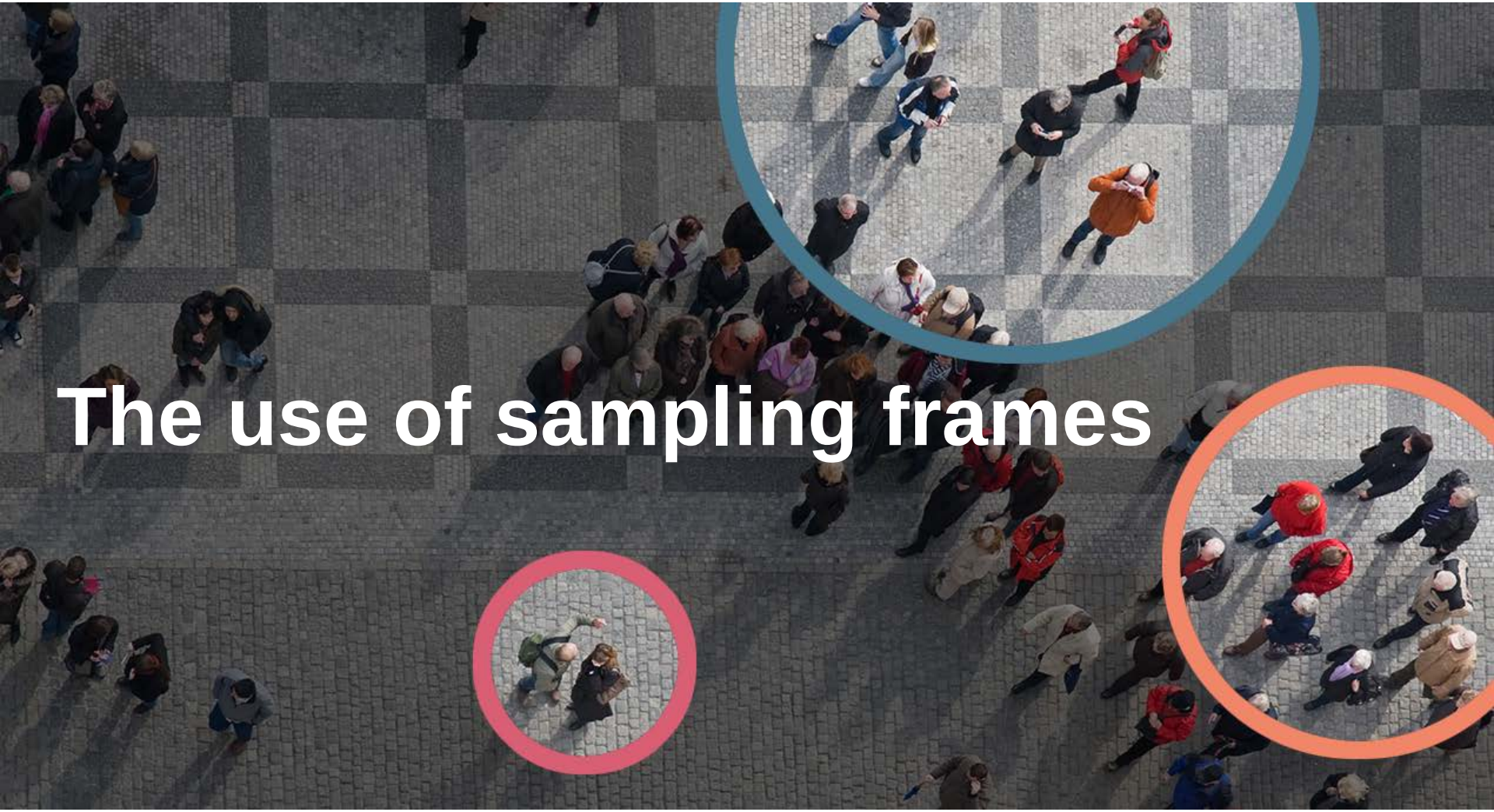
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- European Social Survey (ESS ERIC)
- Survey of Health, Ageing and Retirement in Europe (SHARE ERIC)
- Consortium of European Social Science Data Archives (CESSDA AS)
- Generations and Gender Programme (GGP)
- European Values Study
- WageIndicator Survey

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The use of sampling frames

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Basis: Published overviews of population registers

- But: can these registers in practice be used for survey sampling?
    - Lack of publications

- Ask the sampling experts in the field: Country teams!
    - Electronic questionnaire
    - Sent by email to country teams of **ESS, EVS, GGP, SHARE**
    - Official invitation letter signed by director

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The expert survey across countries and surveys

- Questions:
  - Type of sampling frame used, and sampling unit
  - Name and type of register used
  - Responsible authority
  - Accessibility
  - Auxiliary variables in register
  - Other sources of auxiliary variables
  - Problems

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Questionnaire on National Registers

Thank you for agreeing to complete this short questionnaire about the availability and accessibility of national registers in the countries participating in the Survey of Health, Ageing and Retirement in Europe (SHARE).

We are mainly interested in your experience with using registers in your country for sampling purposes and your knowledge about additional information in these registers.

Please start by completing the information requested below then proceed to Question 1. Please answer all questions, unless there is an instruction to skip a question. A skip instruction will be phrased as: 'PLEASE GO TO Qx'.

Study: SHARE
Name of Organisation:
Country:
Name and job title of person completing this form:

Firstly, we would like to collect some information about the current sampling frame you use for SHARE.

1. What is your main sampling frame (the list that is used to select persons or addresses to interview)? *Please tick **one** answer only.*

   ☐1 Population or civil register (either central or local)
   ☐2 Electoral register, Health insurance register, or other register covering the population
   ☐3 Telephone register
   ☐4 Geographical listing/database (areas, buildings, maps, etc.) PLEASE GO TO Q8
   ☐5 Other (e.g. sampling frame unknown, random walk procedure) – please specify: PLEASE GO TO Q8

2. Which wave(s) of SHARE do you refer to?

   WRITE IN:

3. What is the official name / title of this register, under which it is generally known in your country?

   WRITE IN NAME:

4. Which institute or organisation is the responsible authority controlling the access to the register? *Please write in English.*

   WRITE IN NAME:

5. What is the sampling unit in this register? In other words, what is the level the information is stored on in this register?

   ☐1 Individual address (name + address)
   ☐2 Households/Dwellings (last name + address)
   ☐3 Building address (address without name)
   ☐4 Other – please specify:

The following questions are about the availability of *additional information* in registers. Please think about all the information that is available in the register you use for sampling on SHARE.

6. Which variables are available to measure **socio-demographic characteristics** of a sampling unit in the register that you use? *Choose all that apply.*

Invitation and participation of countries

	ESS	EVS	GGP	SHARE
Invited N	25	43	15	20
Completed N	21	33	10	19
Countries	AT, BE, CH, CZ, DE, EE, ES, FI, FR, GB, HU, IE, IL, IS, LT, NL, NO, PL, RU, SE, SL	BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GE, GR, HR, HU, IE, IS, IT, LT, LU, ME, MK, MT, NL, PL, PT, RO, RS, RU, SE, SK, UA	AT, CZ, DE, EE, FR, HU, IT, NL, NO, SE	AT, BE, CH, DK, DE, EE, ES, ES-gi, FR, GR, HR, IL, IT, LU, NL, PL, PT, SE, SI

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Types of sampling frames used

	ESS	EVS	GGP	SHARE	Total
Popn register	14	8	7	13	41
Other register	0	4	0	5	9
Other method	7	20	3	1	31

- Population or (local) civil registers, electoral register, health insurance register and other register covering the population.
- No use of telephone register reported
- 31 x geographical listing, a random route procedure or other

- **Large documentation table across studies and countries**

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country	Type of Regi	Accessible for	Used in waves
Austria	Population o	Statistical office(s)	7 (2014)
	Population o	Statistical office(s)	1 (2004), 2 (2012)
	Electoral regi	Universities and affiliates,N	4 (2011)
	Centralized p		

18		EVS			Other		4 (2008)
19		GGP					
20		SHARE	Registar osiguranika Hrvatskog	Croatian Health Insurance Fun	Electoral register, Health insuran	Individual address	Universities and affiliates,St 6 (2015)
21		Poulain & Herm					
22	**Cyprus**	ESS					
23		EVS			Other		
24		GGP					
25		SHARE					
26		Poulain & Herm	Archeio Plithismou	Interior Ministry	Local Civil Registers		
27	**Czech Republic**	ESS	Registr scítacích obvodu a budc	Czech Statistical Office	Geographical listing/database	Building address	4 (2008), 5 (2010), 6
28		EVS			Geographical listing/database		5 (2017)
29		GGP	Census, Vital Statistics	Czech Statistical Office	Population or civil register	Individual address	Universities and affiliates,N 1 (2004), 2 (2008)
30		SHARE					
31		Poulain & Herm	Centrální registr obyvatelstva	Interior Ministry	Centralized population register		
32	**Denmark**	ESS					
33		EVS	CPR	The Civil Registration System	Population or civil register	Individual address	Universities and affiliates,N 5 (2017)
34		GGP					
35		SHARE	CPR	Statistic Denmark	Population or civil register	Households/dwellings	Universities and affiliates,N 1 (2004), 2 (2007), 3
36		Poulain & Herm	Det Centrale Personenregister	Interior affairs ministry	Population information system		
37	**Estonia**	ESS	Population register	Ministry of Internal affiars	Population or civil register	Individual address	2 (2004), 3 (2006), 4
38		EVS	Rahvastikuregister / in English "	Ministry of the Interior	Population or civil register	Individual address	5 (2017)
39		GGP			Other		

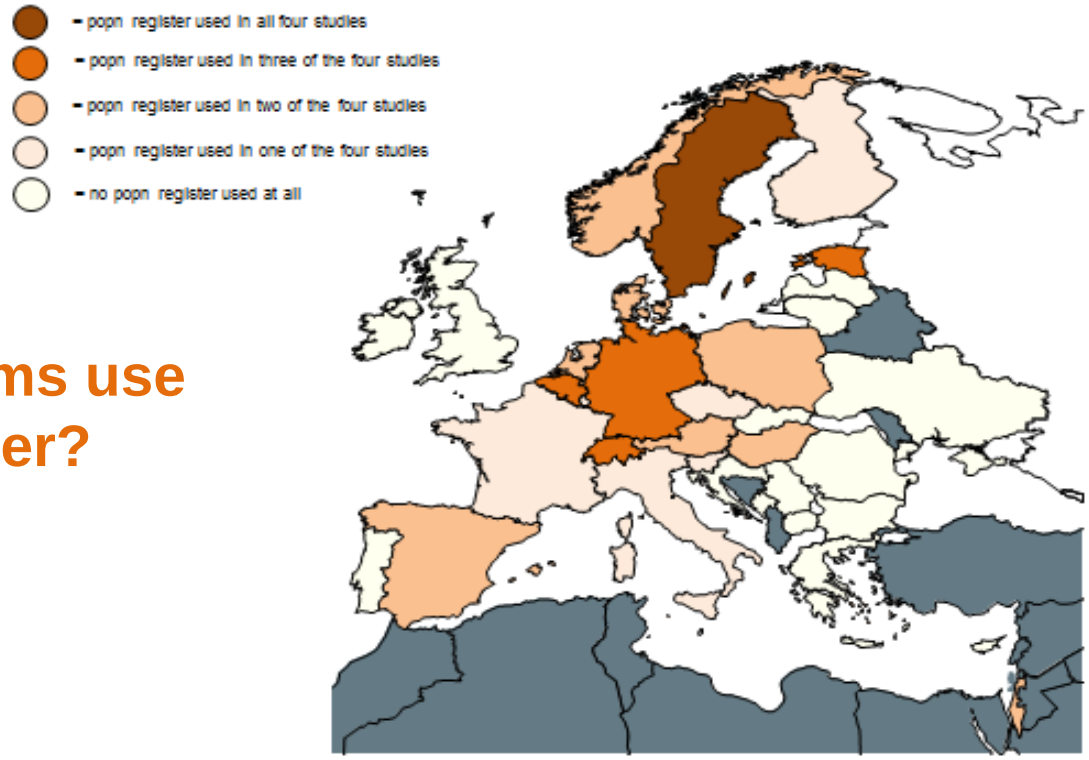
Auxiliary variables available in sampling frames

- Socio-demographic characteristics
- Household characteristics
- Neighbourhood characteristics

- Second documentation table across studies and countries

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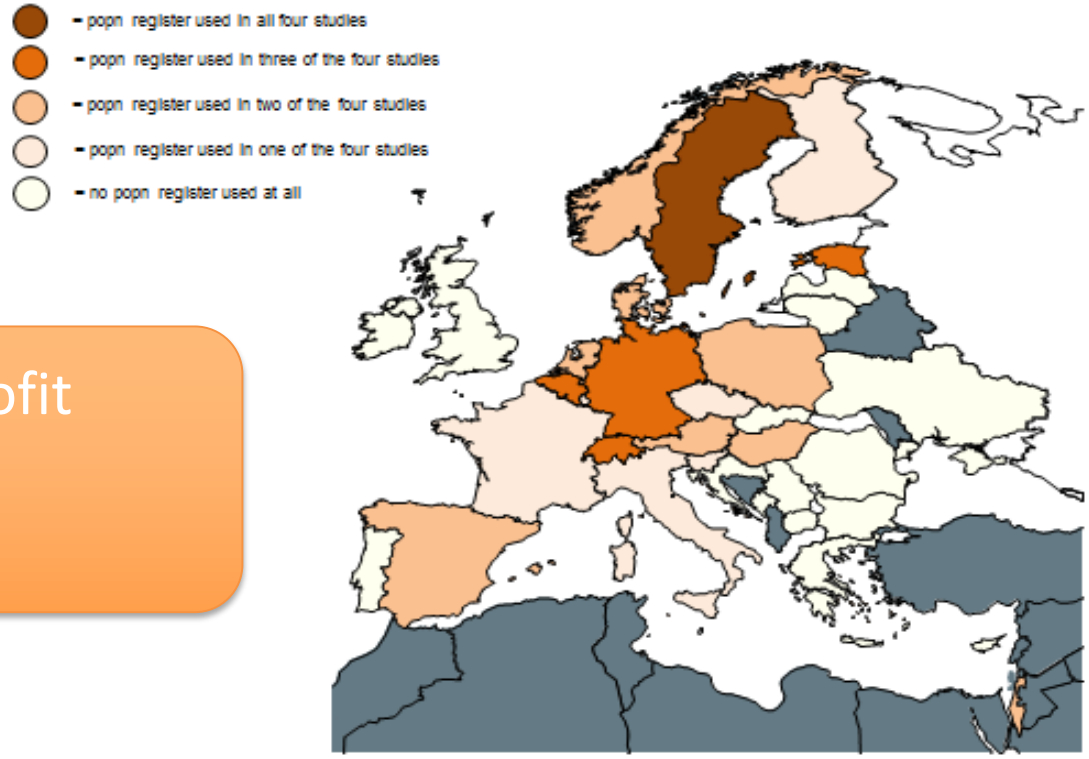
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	*Sheet 1: Availabilit*														
2															
3	**Country**	**Study**	**Register**	**Age**	**Gender**	**Ethnicity**	**Country o**	**Educ**							**Disabili**
4	AT	ESS	Zentrales Meldereg	Yes	Yes	No	Yes	No							No
5	AT	GGP	Zentrales Meldereg	Yes	Yes	No	Yes	No							No
6	AT	SHARE	Data Door	No	No	No	No	No							No
7	BE	ESS	Rijksregister/Regist	Yes	Yes	No	Yes	No							No
8	BE	EVS	Rijksregister	Yes	Yes	No	Yes	No							No
9	BE	SHARE	Registre National /	Yes	Yes	No	Yes	No							No
10	CH	ESS	SRPH - Stichprobe	Yes	Yes	No	Yes	No							No
11	CH	EVS	SRPH - Stichprobe	Yes	Yes	No	No	No							No
12	CH	SHARE	SRPH - Stichprobe	Yes	Yes	No	Yes	No							No
13	CZ	GGP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							No
14	DE	ESS	Padró municipal d'	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No
15	DE	EVS	Population databas	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	No
16	DE	SHARE	Echantillon-maître	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	No	No
17	DK	EVS	Voter's list	Yes	No	No	No	No	No	No	No	No	No	No	No
18	DK	SHARE	Registar osiguranik	Yes	Yes	No	No	No	No	No	No	No	No	No	No
19	EE	ESS	Népességnyilvánta	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No
20	EE	EVS	Népességnyilvánta	Yes	Yes	No	Yes	No	No	No	No	No	Yes	No	No
21	EE	SHARE		Yes	Yes	No	Yes	No	No	No	No	No	No	No	No
22	ES	ESS	population registry	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No
23	ES	SHARE	Þjóðskrá. National	Yes	Yes	No	Yes	No	No	No	No	No	Yes	No	No
24	ES-Girona	SHARE	Þjóðskrá / National	Yes	Yes	No	Yes	No	No	No	No	No	Yes	No	No
25	FI	ESS	Register of electora	Yes	Yes	No	No	No	No	No	No	No	No	No	No
26	FR	SHARE	Anagrafe	Yes	Yes	No	No	No	No	No	No	No	No	No	No
27	GE	EVS	Registri elettorali se	Yes	Yes	No	No	No	No	No	No	No	No	No	No
28	HR	SHARE	Social security reg	No	No	No	No	No	No	No	No	No	No	No	No
29	HU	ESS	Social Security Re	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No
30	HU	GGP													
31	IL	ESS													
32	IL	SHARE													
33	IS	ESS													
34	IS	EVS													
35	IT	EVS													
36	IT	GGP													
37	IT	SHARE													
38	LU	EVS													
39	LU	SHARE													



Which country teams use a population register?

All four studies in Sweden. In Belgium, Denmark, Hungary, Iceland, Israel, Norway, Slovenia, Spain-Girona, and Switzerland: all of those that participated

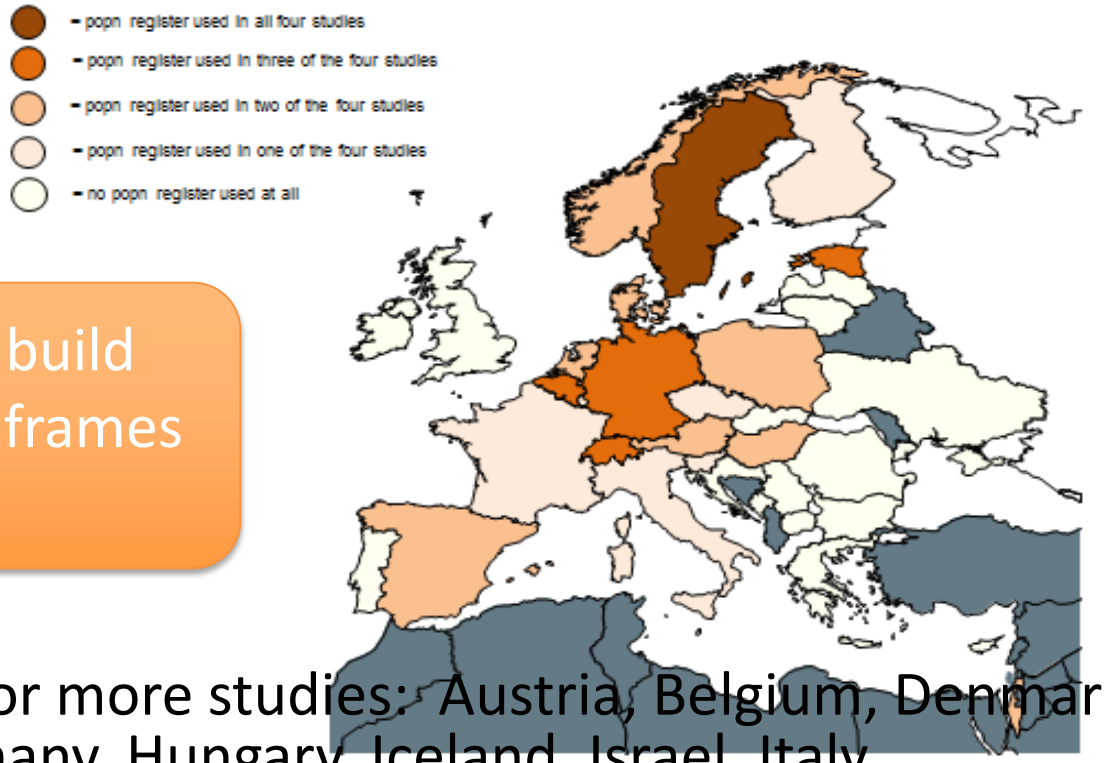
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Study teams can profit from each other's experience here

Mixed frame use: Austria, Estonia, Germany, Netherlands, Spain, Czech Republic, Finland, France, Italy, Luxembourg, and Poland

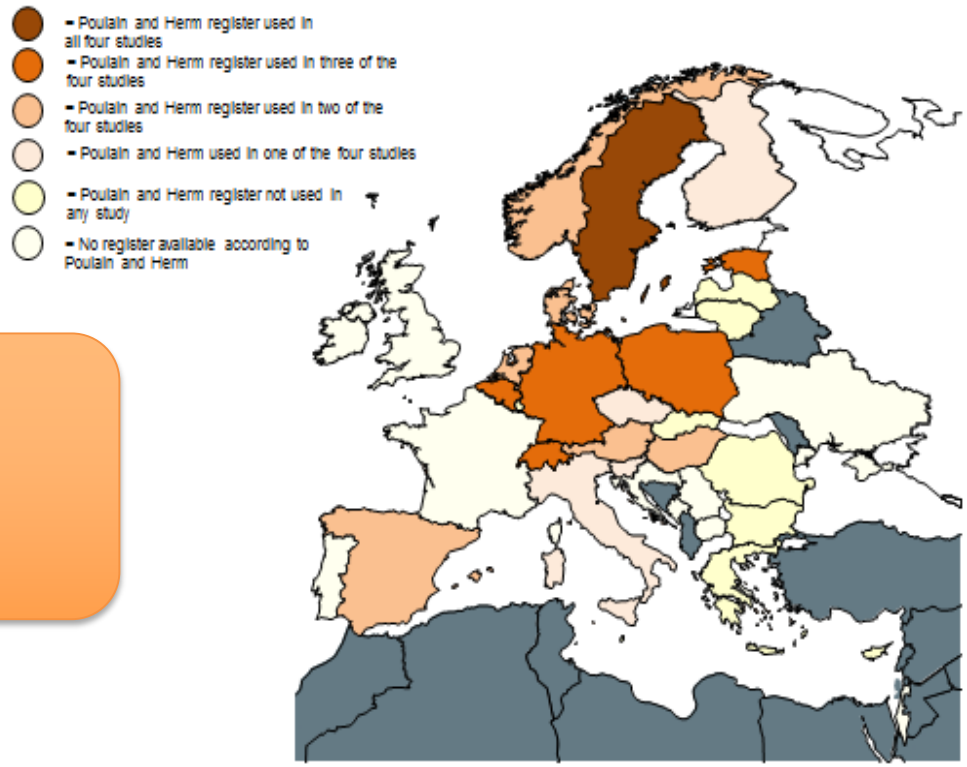
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possibility to jointly build and share sampling frames here

Same register in two or more studies: Austria, Belgium, Denmark, Estonia, France, Germany, Hungary, Iceland, Israel, Italy, Luxembourg, the Netherlands, Norway, Poland, Spain, Sweden and Switzerland.

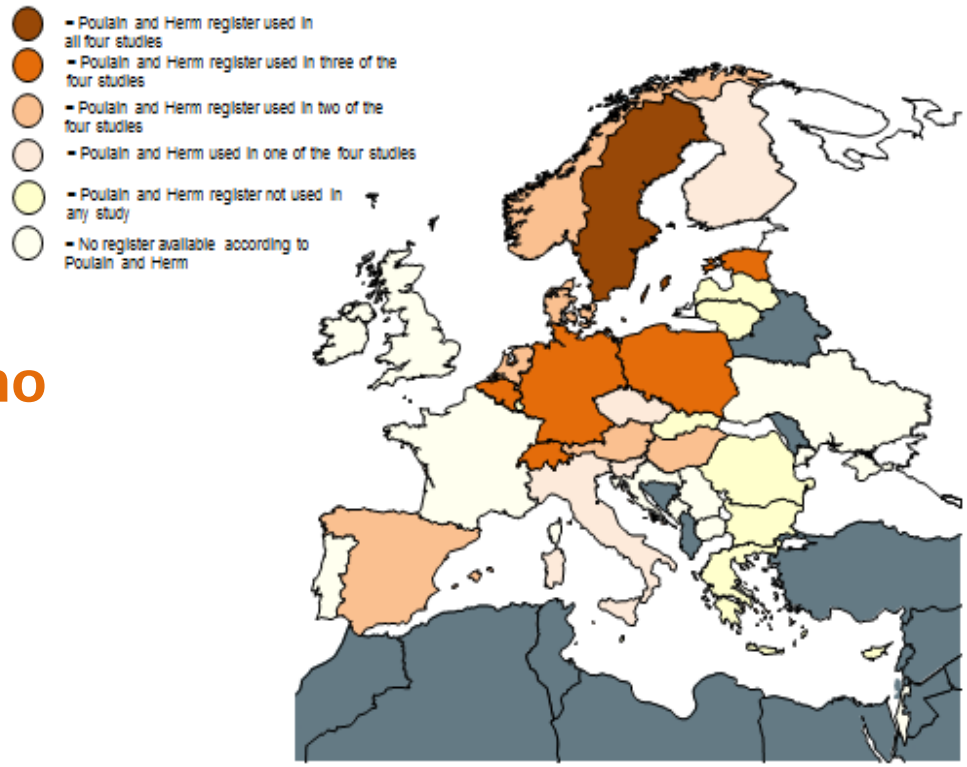
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Joint effort to improve accessibility here?

In 10 countries not used! Bulgaria, Cyprus, Czech Republic, Greece, Latvia, Lithuania, Luxembourg, Malta, Romania and Slovakia

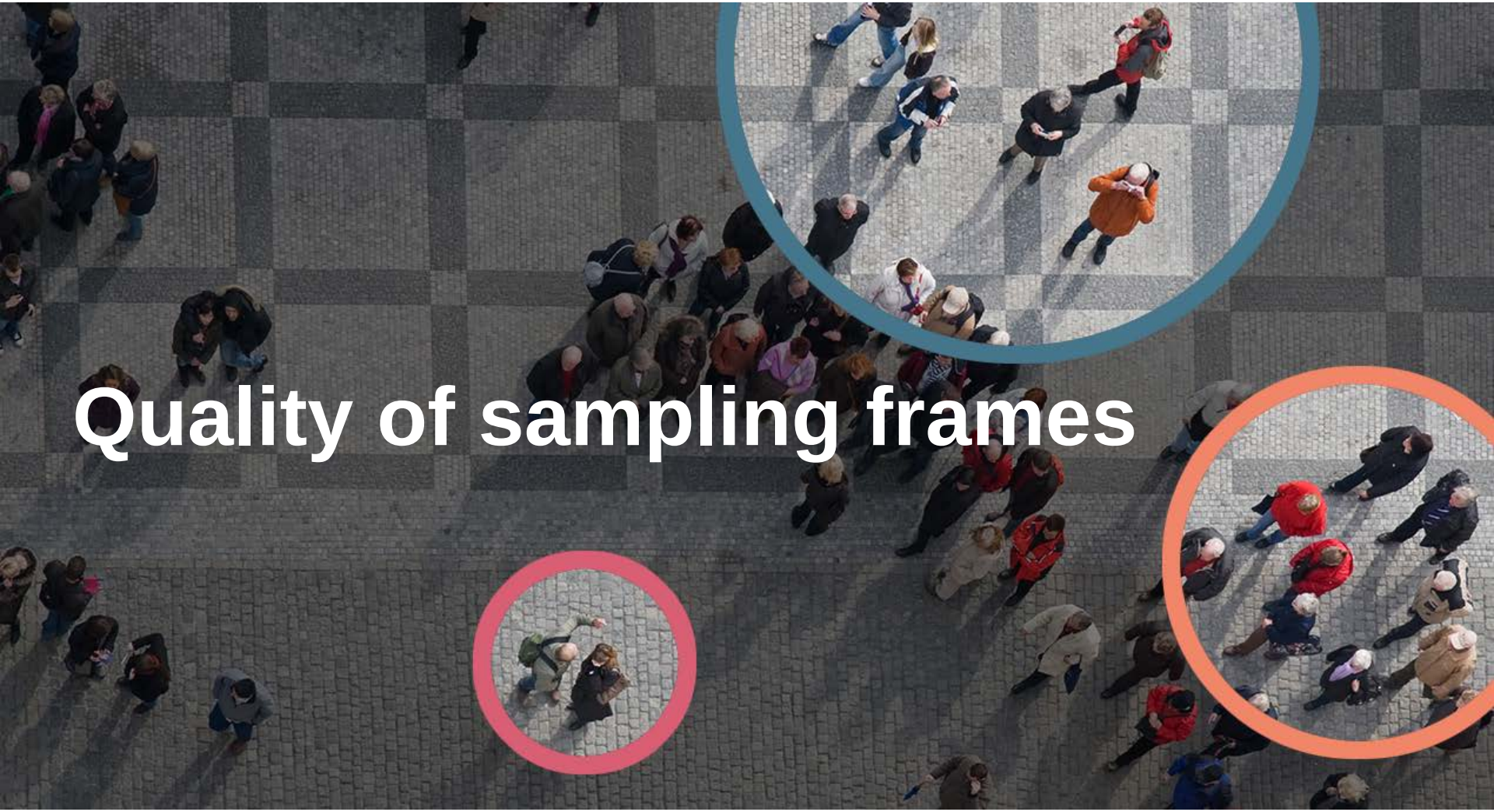
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Which countries have no published register

No known population register (central nor local): (France), Ireland, Macedonia, Portugal, UK. Not considered: Georgia, Montenegro, Serbia Republic, Ukraine, Russian Federation

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Quality of sampling frames

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From the same expert survey

- Questions about sampling unit and auxiliary vars
- Open ended answers to question about problems:
  - Coded into 9 quality criteria

Undercoverage	Inaccuracy	Complexity
Duplicates	Access and privacy	Clustered units
Out-of-scope	Auxiliary info	Other problem

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Top 5:

(21)

(17)

Undercoverage	Inaccuracy (14)	Complexity (6)
Duplicates	Access and privacy	Clustered units
Out-of-scope (5)	Auxiliary info	Other problem

(0)

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The use of sampling frames in European Studies: Our work in SERISS WP 2

Annette Scherpenzeel

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Pass by at the booths

