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Using Colectica to document socio-political surveys in DDI-Lifecycle: feedback and benefits

[Lucie MARIE](#)

Center for Socio-Political Data (CDSP)

EDDI 2020, 12th Annual European DDI Users Conference

Virtual Event

December 1, 2020

Plan

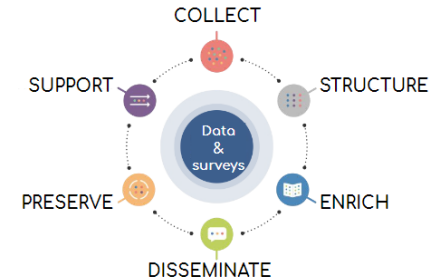
- CDSP missions & online tools
- UpMet project
- New variable documentation workflow
- Metadata visualisation on Colectica Portal
- Feedbacks & benefits
- Next steps

Center for socio-political data (CDSP) Sciences Po, CNRS

Collects and shares (meta)data for research community

Our sharing online tools

- Data: [Quetelet-Progedo platform](#)
- Metadata: from [Nesstar](#) to [data.sciencespo](#) & [Colectica](#)
- Question bank: [Quetelet-Progedo question bank](#)



UpMet project



“Upscaling metadata for increasing reuse in the social sciences”

Open science, FAIR principles, data stewardship & storage

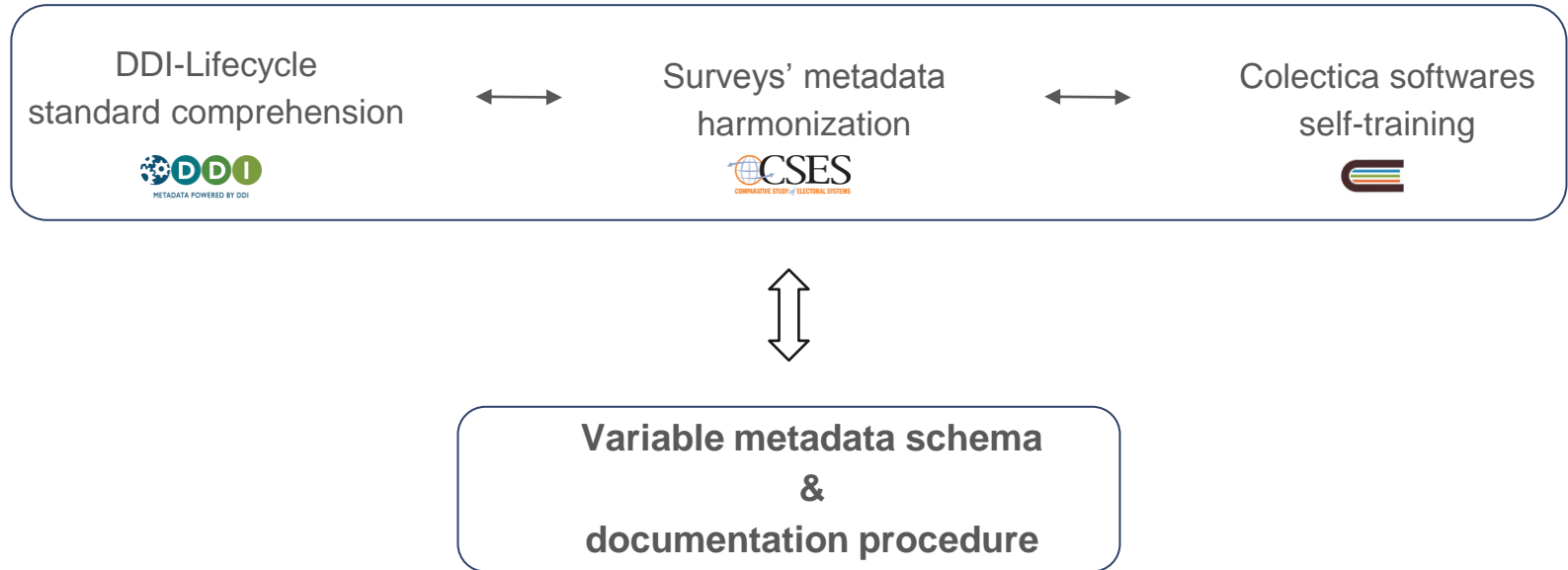
WP2: Question bank in DDI-L with Colectica

Objective: metadata harmonization

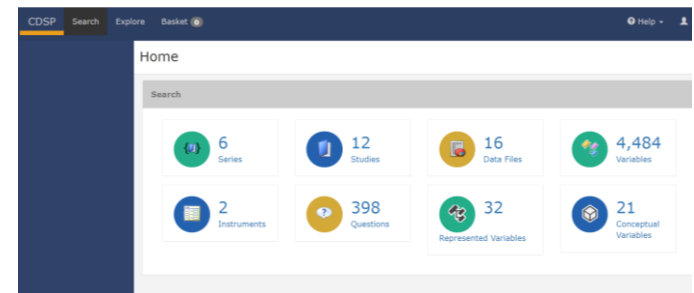
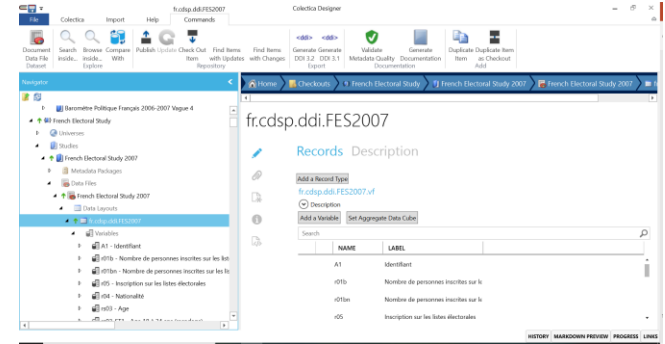
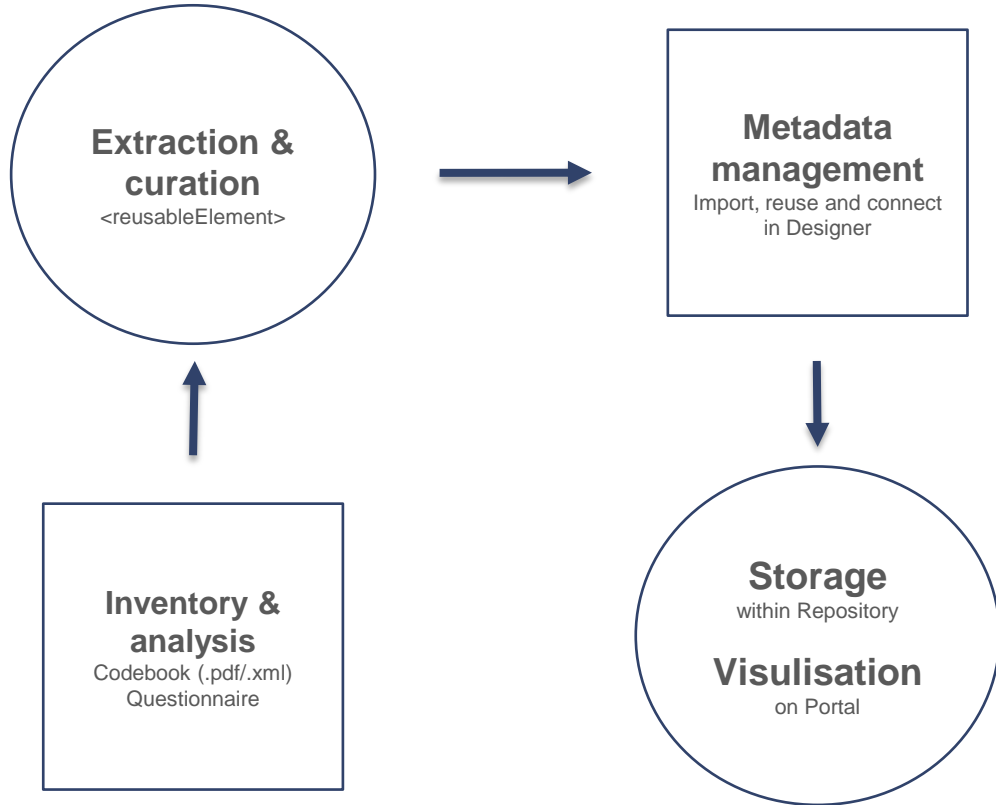
- Accessibility and search flexibility
- Semantic interoperability with CESSDA European Question Bank
- Documentation unicity

NEW VARIABLE DOCUMENTATION
shift from DDI-C to DDI-L

Experimentation phase



Workflow



Metadata inventory & curation



Identify and document reusable items, lineages and gaps across surveys

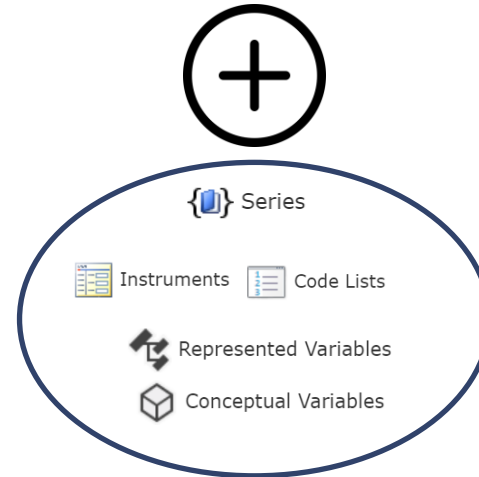
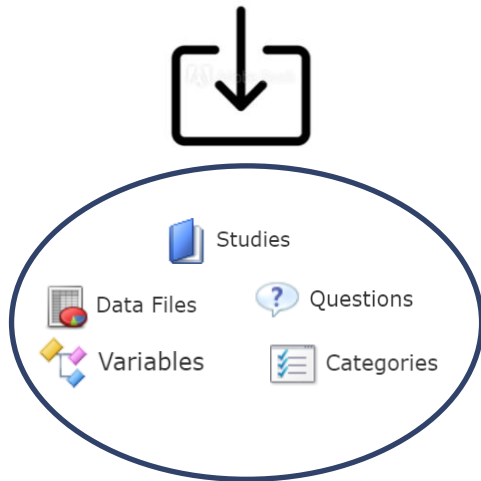


Extract unique and reusable items from DDI-C

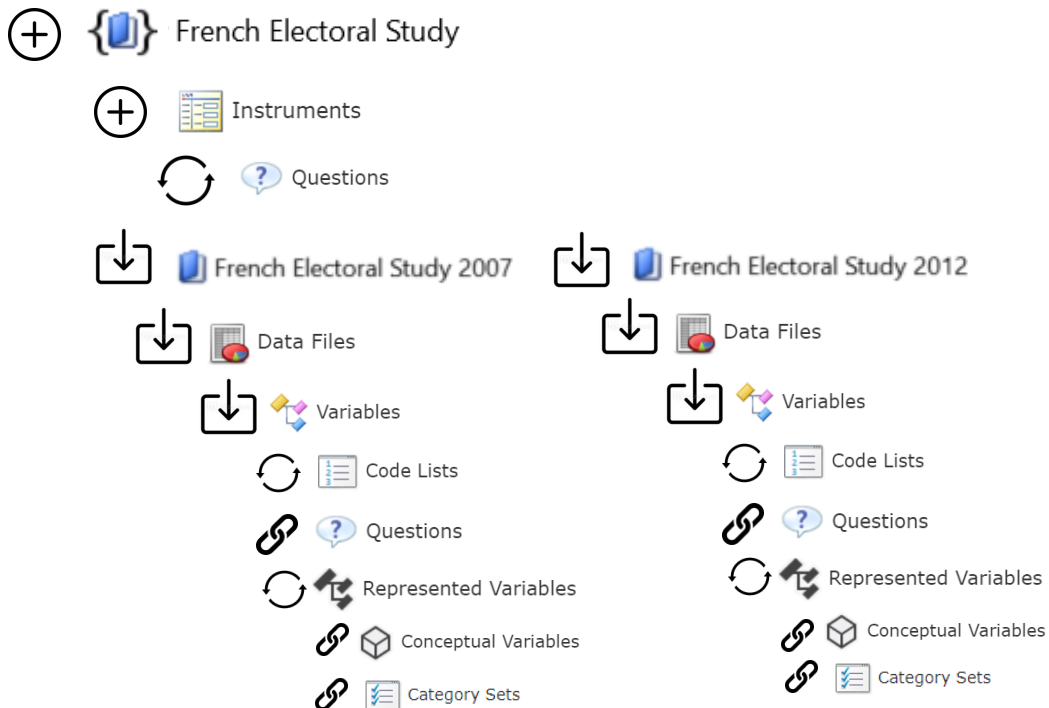
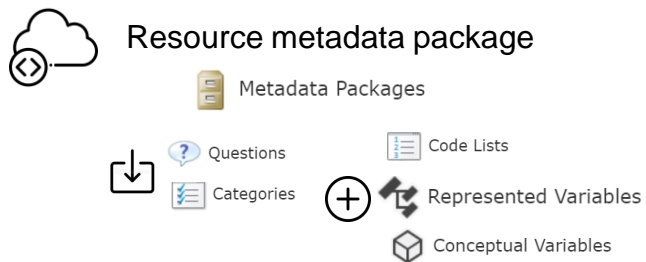
`<category>...</category>`

`<literalQuestion>... </literalQuestion>`

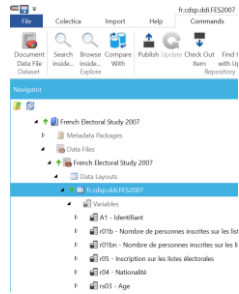
Import & create in Designer



Organise, reuse and connect in Designer



The metadata journey in the Colectica eco-system



Storage



```
<Fragment xmlns:r="ddi:reusable:3.2" xmlns="ddi:instance:3.2">  
<DataRelationship isUniversallyUnique="true" versionDate="2020-11-27T15:33:37.061722Z" xmlns="ddi:instance:3.2">  
  <r:URNurn:ddi:fr.cdsp:3a7a215d-2944-4a26-ac5c-a71a2cb55384:59/>  
  <r:Agency>fr.cdsp/</r:Agency>  
  <r:ID>3a7a215d-2944-4a26-ac5c-a71a2cb55384/</r:ID>  
  <r:Version>59/</r:Version>  
<DataRelationshipName>  
  <r:String xmlns:fr="FR">fr.cdsp.ddi.FES2007/</r:String>  
</DataRelationshipName>  
<LogicalRecord isUniversallyUnique="true">  
  <r:URNurn:ddi:fr.cdsp:ld9f4320-25a1-4215-84f0-68c00382033c:59/>  
  <r:Agency>fr.cdsp/</r:Agency>  
</LogicalRecord>  
</DataRelationship>  
</Fragment>
```



Visualization



Publish metadata on Portal

Value	Label	Frequency	% of valid	% of all
1	Male	831	83.58%	83.58%
2	Female	134	16.42%	16.42%

Representation: Code list, Selection type: Selection, Code: 1 Male, 2 Female, Role: input, Aggregation method: Unaggregated, Temporal: None, Geographic: None, Represented variable: Sexe, Missing values: Unnamed Recodable Missing Value

METADATA VISUALISATION ***ON COLECTICA PORTAL***

Variable description and representation

The screenshot shows the CDSP interface with a dark blue header containing navigation links: CDSP, Search, Explore, Basket, and Help. A sidebar on the left lists 'Appears Within' categories: Series, French Electoral Study, Studies, French Electoral Study 2007, and Data Files. The main content area is titled 'Sexe' and shows the variable's metadata and two summary tables.

Variable Description

Name: r10
Label: Sexe
Dataset: fr.cdsp.ddi.FES2007

Value	Label	Frequency	% of valid	% of all
1	Male	831	41.55%	41.55%
2	Female	1,169	58.45%	58.45%

Valid	Invalid	Min	Max
2000	0	1	2

Representation

Type: Code List
Selection Style: SelectOne
Codes: sexe

- 1 Male
- 2 Female

Role: Input
Aggregation Method: Unspecified
Temporal: False
Geographic: False
Represented Variable: Sexe
Missing Values: Unnamed Reusable Missing Value

Source Questions and Instrument

The image displays a screenshot of the CDSP (Canadian Data System) interface, showing a detailed view of source questions and instrument details for R10. The interface is divided into several sections:

- Top Navigation:** Includes "CDSP", "Search", "Explore", and "Basket" (0). A "Help" icon is visible in the top right corner.
- Left Panel (Appears Within):** A tree view showing the hierarchy of data sources. It includes "Series", "Studies", "Data Files", and "French Electoral Study 2007".
- Source Questions (R10):** A list of source questions, including R04, R10, and RS03. R10 is selected, and its details are shown in the main panel.
- Main Panel (Instrument Details):** Displays the instrument details for R10, including a "Start" section (green bar) and an "End" section (red bar). The instrument is titled "QUESTIONNAIRE" and is part of the "ELECTION PRESIDENTIELLE" instrument. The questions listed are:
 - RS DEBUT** (yellow bar):
 - R05**: Est-ce que vous êtes inscrit(e) sur les listes electorales pour pouvoir voter ?
UNE SEULE REPONSE POSSIBLE
 - R05==2 or 3 or 4** (yellow bar)
 - R04**: Quelle est votre nationalité ?
 - SI R04==2** (yellow bar)
 - R10**: Etes-vous...
 - RS03**: Pouvez-vous me préciser votre âge ?
ENQUETEUR : REPONSE NUMERIQUE ENTRE 18 ET 99
 - QUESTIONNAIRE** (yellow bar)
 - ELECTION PRESIDENTIELLE** (yellow bar)
 - RS DE FIN** (yellow bar)

- Bottom Panel (Lineage):** Shows the lineage of the source questions, including "French Electoral Study 2007".

Concordance across surveys

CDSP Search Explore Basket 0 Help

Religion du répondant

French Electoral Study French Electoral Study 2007 Religion

Represented Variable

Name religion.repondant
Label Religion du répondant
Conceptual Variable Religion
Category Set Socio-démographiques

Concordance

Statistics Code Comparison Correspondence Tree

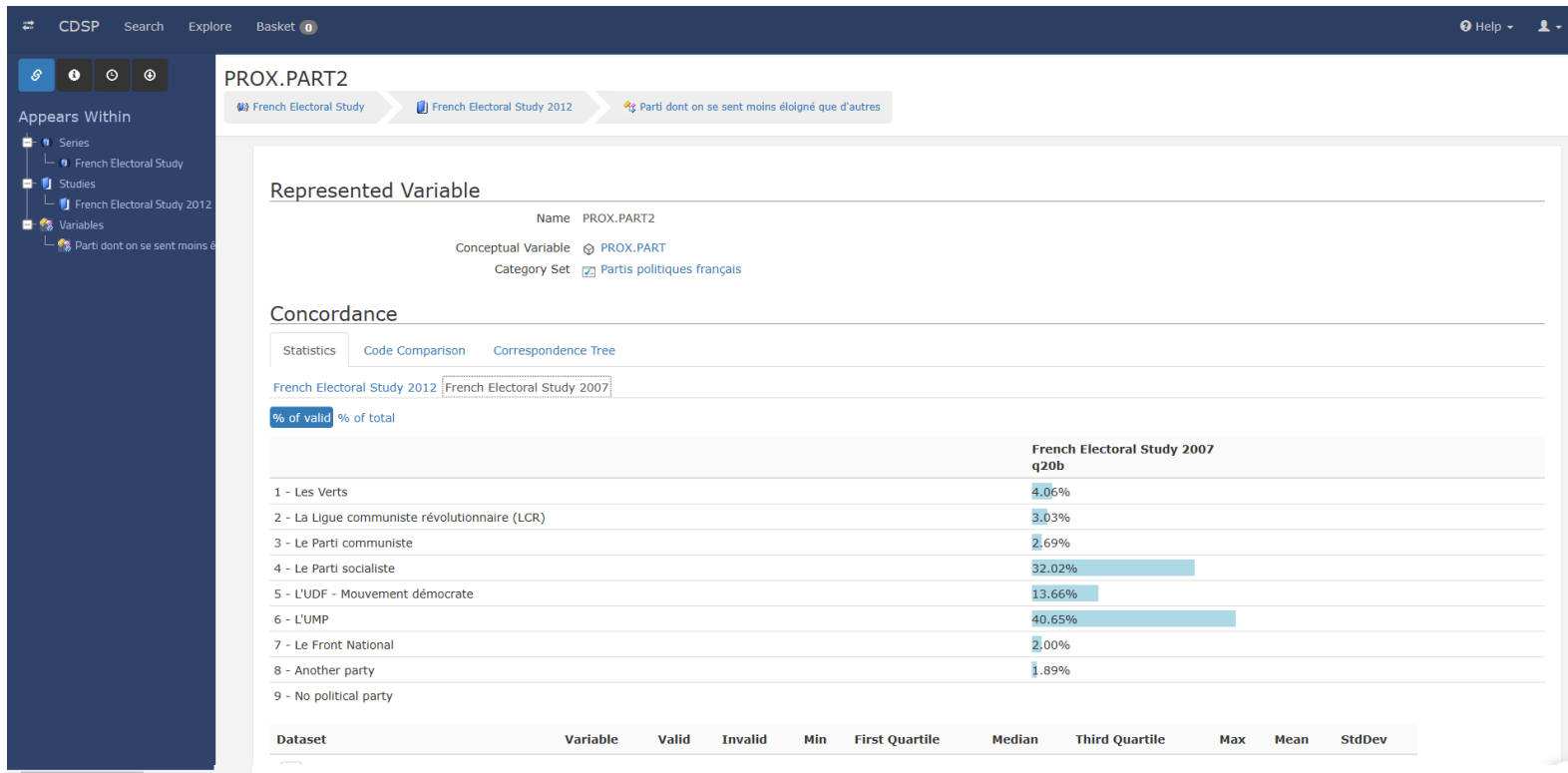
French Electoral Study 2012 - French Electoral Study 2007

% of valid % of total

	French Electoral Study 2012 sd46	French Electoral Study 2007 r30
1 - Catholique	69.47%	65.95%
2 - Protestante	2.32%	1.70%
3 - Juive	0.55%	0.55%
4 - Musulmane	3.93%	1.65%
5 - Autre religion	1.36%	1.80%
6 - Sans religion	22.37%	27.79%

Dataset	Variable	Valid	Invalid	Min	First Quartile	Median	Third Quartile	Max	Mean	StdDev
French Electoral Study 2012	sd46	1985	29	1				6		
French Electoral Study 2007	r30	1997	3	1				7		

Concordance across surveys





FEEDBACK & BENEFITS

Feedback: from DDI-Codebook to Lifecycle

A different documentation logic



Metadata schema correspondence in Designer



Disharmonize codebook documentation

Harmonisation: gaps in code lists

CDSP Search Explore Basket 0 Help

Geographic False
Represented Variable Sexe

Concordance

Statistics Code Comparison Correspondence Tree

BPF2007-R4 - BPF2007-R3

% of valid % of total

	BPF2007-R4 SEXE	French Electoral Study 2017 S2	BPF2007-R2 SEXE	BPF2007-R1 SEXE	French Electoral Study 2007 r10	French Electoral Study 2012 h1	BPF2007-R3 SEXE
1 - Male	47.87%		47.90%	47.86%	41.55%	44.89%	47.88%
2 - Female	52.13%		52.10%	52.14%	58.45%	55.11%	52.12%

Dataset	Variable	Valid	Invalid	Min	First Quartile	Median	Third Quartile	Max	Mean	StdDev
<input type="checkbox"/> BPF2007-R4	SEXE	5239	0	1				2		
<input type="checkbox"/> French Electoral Study 2017	S2									
<input type="checkbox"/> BPF2007-R2	SEXE	5647	0	1				2		
<input type="checkbox"/> BPF2007-R1	SEXE	5650	0	1				2		
<input type="checkbox"/> French Electoral Study 2007	r10	2000	0	1				2		
<input type="checkbox"/> French Electoral Study 2012	h1	2014	0	1				2		
<input type="checkbox"/> BPF2007-R3	SEXE	5240	0	1				2		

Appears Within

- Series
 - French Electoral Study
- Studies
 - French Electoral Study 2017
- Data Files
 - French Electoral Study 2017

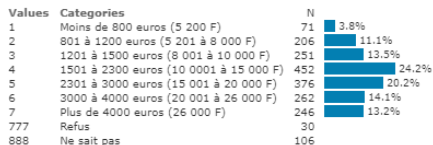
Harmonisation: semantic divergences

Dataset: French Electoral Study 2007

Variable r20: Revenus mensuels de foyer

LITERAL QUESTION

Si vous additionnez toutes les sources de revenus (salaires, allocations, autres), quels sont les revenus mensuels de votre foyer ?



SUMMARY STATISTICS

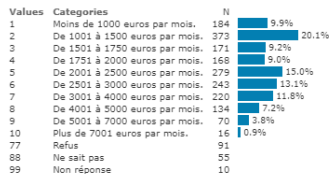
Valid cases 1864
Missing cases 136
Minimum 1,0
Maximum 7,0
This variable is numeric

Dataset: French Electoral Study 2012

Variable p3: Revenu net mensuel du foyer

LITERAL QUESTION

Si vous additionnez toutes les sources de revenus de votre foyer, quelle lettre correspond le mieux au revenu net mensuel de votre foyer ? Pour répondre, veuillez m'indiquer la lettre qui correspond à votre réponse ?



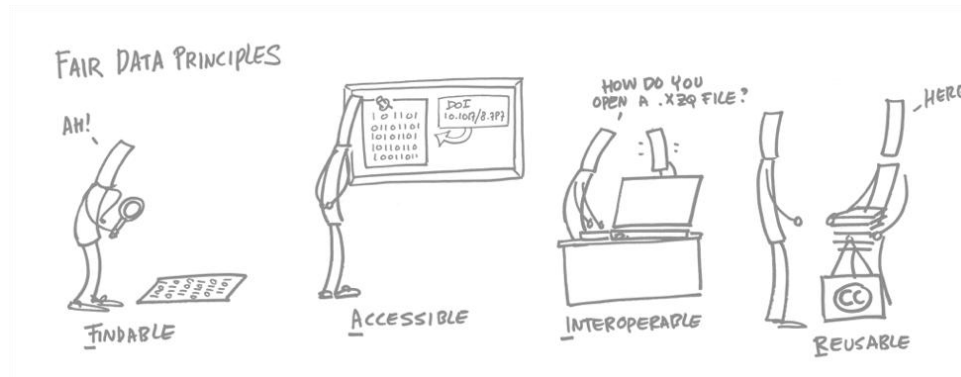
SUMMARY STATISTICS

Valid cases 1858
Missing cases 156
This variable is numeric

INTERVIEWER INSTRUCTIONS

TENDRE LISTE REPONSE ET LAISSER LE REPONDANT TOURNER LUI-MEME LA PREMIERE PAGE POUR ACCEDER A LA LISTE REPONSE DE FAÇON A CE QUE VOUS NE PUISSIEZ PAS VOIR LES ITEMS CORRESPONDANT AUX LETTRES. CODER LA SEULE REPONSE POSSIBLE

Benefits



- **FINDABLE** with one space of storage within repository
- **ACCESSIBLE** data and metadata via portal interface
- **INTEROPERABLE** xml ddi3.2 documentation compliant with the European Question Bank
- **REUSABLE** items for new surveys documentation

What's next?

- Improve skills on Colectica with trainings
- Publish surveys on public portal
- Harvest metadata by the CESSDA European Question Bank
- Automate part of the process
- Implement new surveys
- Report and share the migration strategy




Do you have any questions?

Thank you!

Let's keep in touch

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 [@luciemariejsph](https://twitter.com/luciemariejsph)

 [linkedin.com/in/lucie-marie-josephine](https://www.linkedin.com/in/lucie-marie-josephine)