

# How DataCoH and Charmstats are transforming social science data

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## *Facilitating data harmonization*

- Data Coding and Harmonization Resource for the Social Sciences (DataCoH), based at GESIS, is developing online and software resources to facilitate coding and harmonization of key theoretical concepts in empirical research.

## *CharmStats: collating and publishing harmonization procedures*

- CharmStats is a software tool that will assist in the evaluation and replication of harmonized variables.
- It will make the harmonization process transparent and easy to analyze by collating and publishing the coding procedures used to make similar variables empirically compatible.
- Documentation is flexible enough to describe methods of harmonization across a variety of projects: cross-national, longitudinal, panel.

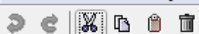
## *CharmStats: collating and publishing harmonization procedures*

- The first version of CharmStats will allow researchers to select and download pre-prepared harmonized variables into the program for evaluation and use.
- Our aim is to launch CharmStats 1.0 at next year's conference in Cologne.



## *Building an online resource*

- We aim to build an online and international community of data harmonizers.
- We will invite researchers and survey projects (e.g. CSES, EVS, ESS, etc.) to submit documentation of their harmonization documentation
- These will be published online, thereby reducing collection time and researcher effort.



**Project(s)**

- Unpublished Project(s)
  - None
- Published Project(s)
  - None

**Project Content**

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)

**Basket**

- Search
  - No Result
- Stored Object(s)
  - No Item(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

Dimension Indicator Variable

Name	Level	Definition	Specifications
------	-------	------------	----------------

Print

Save

**Project(s)**

- Unpublished Project(s)
  - None
- Published Project(s)
  - None

**Project Content**

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)

**Basket**

- Search
  - No Result
- Stored Object(s)
  - No Item(s)

Conceptual Step **Operational Step** Data Re-coding Step Visualize Step

Login

Username:

Password:

Dimension Indicator **Variable**

Name	Level	Definition	Specifications
------	-------	------------	----------------

CharmStats (c)2012 by GESIS - Logged in as: test

File Edit Search Project User Help

New  
 Open Basket Strg+Alt+O  
 Close Basket Strg+Alt+W  
 Close All  
 Empty Basket  
 Save Basket Strg+Alt+S  
 Save As...  
 Save All  
 Print Strg+P  
 Exit

Project  
 Basket  
 Operational Step Data Re-coding Step Visualize Step

**Basket**  
 Search  
 No Result  
 Stored Object(s)  
 Edu1-1  
 Edu2-1

Dimension Indicator Variable

Name	Level	Definition	Specifications
------	-------	------------	----------------

Print Save

**Add new Project**

**Arbeitsschritte**

1. Project Name
2. Concept / Literature
3. Measurement

**Project Name**

Internal / Working Name of Project:

Project Notes:

3 point scale for education concept, categorical variables with national standard as reference category.

< Zurück

Weiter >

Fertig

Abbrechen

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File Edit Search Project User H

Project(s)

- Unpublished Project(s)
- Published Project(s)
- None

Project Content

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)

Basket

- Search
- Stored Object(s)

Add new Project

Arbeitsschritte

1. Project Name
2. Concept / Literature
3. Measurement

Concept / Literature

Concept / Definition:

Concept: Education

Simplified measure of education to capture differences between those with less than national basic and those with more

Definition:

Author(s):

Name: Winters, K.

X

+

☐ et al

Year: 2012

Title:

Source:

Editor(s):

Name:

X

+

☐ et al

Publisher:

Place:

Issue:

< Zurück

Weiter >

Eertig

Abbrechen

Print

Save

CharmStats (c)2012 by GESIS - L

File Edit Search Project User H

Project(s)

- Unpublished Project(s)
- Published Project(s)
- None

Project Content

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)

Basket

- Search
- Stored Object(s)

Add new Project

Arbeitsschritte

1. Project Name
2. Concept / Literature
3. Measurement

Measurement

Name of Measurement:

Ed H

Level of Measurement:

☒ Individual ☐ Aggregate

Type of Measurement:

☒ Classification ☐ Index ☐ Scale

Code	Label	Definition	Level
1	Low	Less than	0
2	Average	National requirement	0
3	High	All above required	0

Add Remove

< Zurück Weiter > Fertig Abbrechen

Print Save

CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Project(s)

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

Project Content

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)

Basket

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

Low

Average

High

Dimension Indicator Variable

Name	Level	Definition	Specifications
------	-------	------------	----------------

Print Save

Ready



**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

Low

Average

High

Add Dimension

Import Dimension(s)

Add / Edit...

**Define Universe**

Create new Operational Model

Export Layer as...

Collapse Categories

Expand Categories

Print Layer

Dimension Indicator Variable

Name	Level	Definition	Specifications

Print Save

Name of Universe:  ( bases on:  )

Countries

Portugal  
Romania  
Russia  
San Marino  
Serbia and Montenegro (Yu...  
Slovakia  
Slovenia  
Spain  
Sweden  
Switzerland  
The Holy See  
Ukraine  
United Kingdom

Population Groups

Date / Time

United States of America  
United Kingdom

<input type="button" value=" Cancel " /><input type="button" value=" Help "

CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Project(s)

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

Project Content

- Conceptual Model
  - Average
  - High
  - Low
- Operational Model(s)
- Data Re-coding Model(s)

Basket

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

Add Dimension  
Import Dimension(s)  
Add / Edit...  
Define Universe  
Create new Operational Model  
Export Layer as...  
Collapse Categories  
Expand Categories  
Print Layer

Low  
Average  
High

Dimension Indicator Variable

Name	Level	Definition	Specifications
------	-------	------------	----------------

Print Save

Ready

CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Project(s)

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

Project Content

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)

Basket

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

**Add Dimension**

Arbeitschritte

1. Add Dimension

Add Dimension: Formal Education

< Zurück Weiter > Fertig Abbrechen

Low

Average

High

Dimension Indicator Variable

Print Save

Ready

CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Conceptual Step Operational Step Data Re-coding Step Visualize Step

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

- Conceptual Model
  - Average
  - Formal Education
  - High
  - Low
- Operational Model(s)
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Formal Educat...

Add Specification(s)  
Add / Edit...  
Apply Specification(s)  
Cut  
Copy  
Paste  
Remove

Low  
Average  
High

Dimension Indicator Variable

Name	Level	Definition	Specifications
Label: Formal Education (ID: -629764563)			
Level: Individual			
Definition:			
Comment:			

Print Save

Ready

Formal Educat...

Low

Average

High

Add Specification(s)



Specification: More than national



Less than national  
National

Accept

Cancel

Help

Label: Formal Edu

Level: Individual

Definition:

Comment:

Specifications

Print

Save

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

- Conceptual Model
  - Average
  - Formal Education
  - High
  - Low
- Operational Model(s)
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

Formal Educat...

- Add Specification(s)
- Add / Edit...
- Apply Specification(s)
- Cut
- Copy
- Paste
- Remove

Low

Average

High

Dimension Indicator Variable

Name	Level	Definition	Specifications
------	-------	------------	----------------

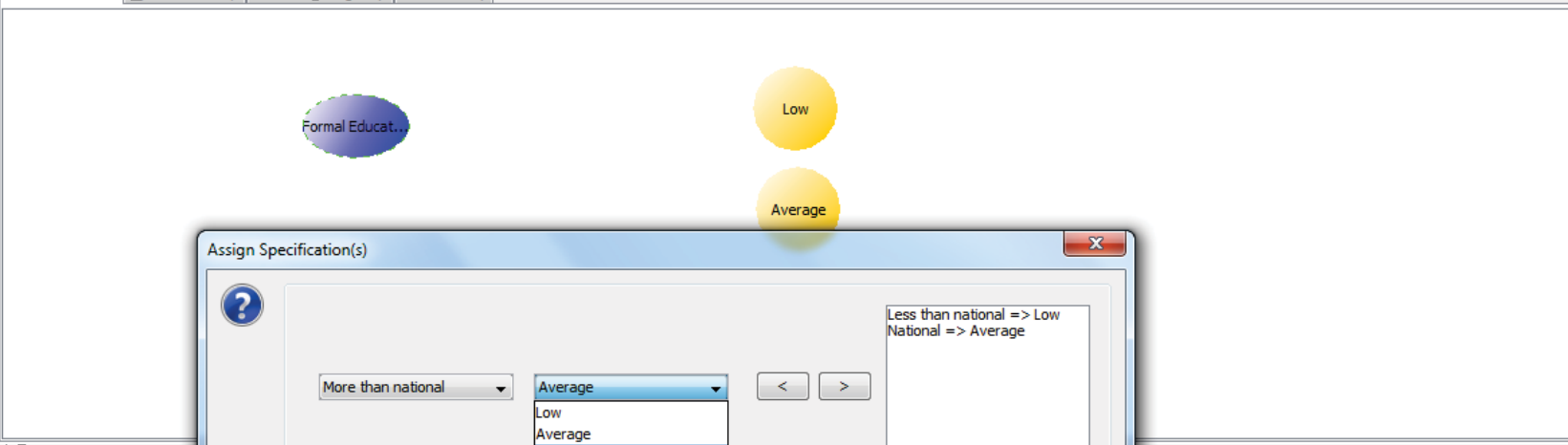
Label: Formal Education (ID: -629764563)

Level: Individual

Definition:

Comment:

Print Save



Label: Formal Education

Level: Individual

Definition:

Comment:

**Assign Specification(s)**

More than national Average Low Average High

Less than national => Low  
National => Average

Accept Cancel Help



**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

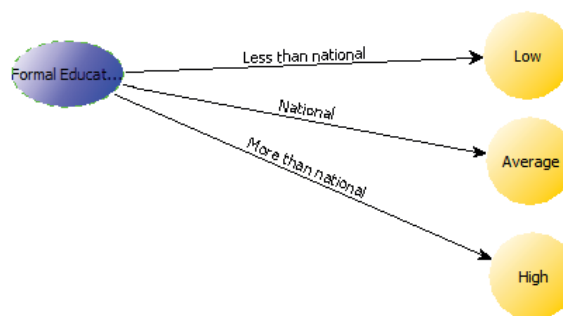
**Project Content**

- Conceptual Model
  - Average
  - Formal Education**
  - High
  - Low
- Operational Model(s)
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step



Dimension Indicator Variable

Name	Level	Definition	Specifications
Formal Education	Individual	Level completed	Less than national National

Label: Formal Education (ID: -629764563)

Level: Individual

Definition:

Comment:

Print Save

CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Project(s)

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

Project Content

- Conceptual Model
  - Average
  - Formal Education
  - High
  - Low
- Operational Model(s)
- Data Re-coding Model(s)

Basket

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

Add Dimension  
Import Dimension(s)  
Add / Edit...  
Define Universe  
Create new Operational Model  
Export Layer as...  
Collapse Categories  
Expand Categories  
Print Layer

Formal Educat... Less than national Low  
National Average  
More than national High

Dimension	Indicator	Variable	Name	Level	Definition	Specifications
			Formal Education	Individual	Level completed	Less than national National

Label: Formal Education (ID: -029704305)

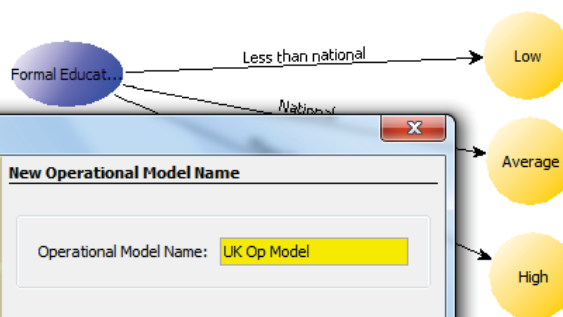
Level: Individual

Definition:  
Level completed

Comment:

Print Save

Ready



**Add new Operational Model**

Arbeitsschritte	New Operational Model Name
1. New Operational Model Name	Operational Model Name: <input type="text" value="UK Op Model"/>

< Zurück    Weiter >    Fertig    Abbrechen

Name	Level	Definition	Specifications
Formal Education	Individual	Level completed	Less than national National

Label: Formal Education (ID: -029704303)

Level: Individual

Definition:  
Level completed

Comment:

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

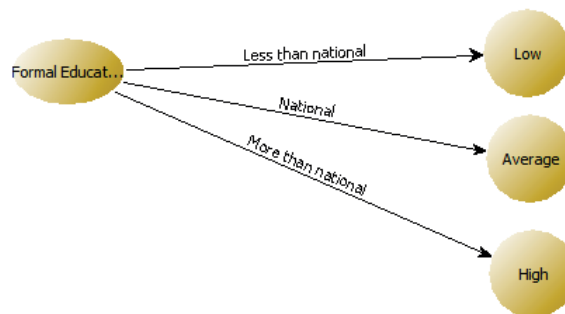
- Conceptual Model
  - Average
  - Formal Education
  - High
  - Low
- Operational Model(s)
  - Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK Op Model (OP)



Dimension Indicator Variable

Name	Level	Definition	Values	Measure

Label: Formal Education (ID: -029704303)

Level: Individual

Definition:  
Level completed

Comment:

Print Save

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

- Conceptual Model
  - Average
  - Formal Education
  - High
  - Low
- Operational Model(s)
- Data Re-coding Model(s)

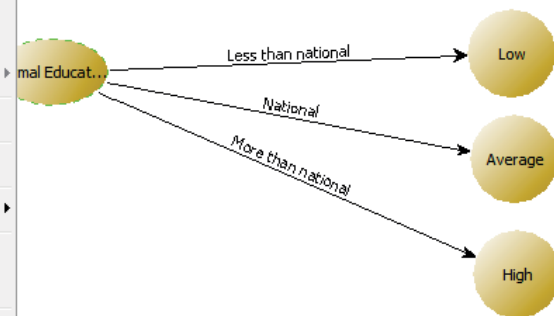
**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK Op Model (OP)

- Add Indicator
- Import Indicator(s)
- Add Question
- Add / Edit...
- Define Universe
- Create new Data Re-coding Model
- Export Layer as...
- Collapse Categories
- Expand Categories
- Print Layer



Dimension Indicator Variable

Name	Level	Definition	Values	Measure

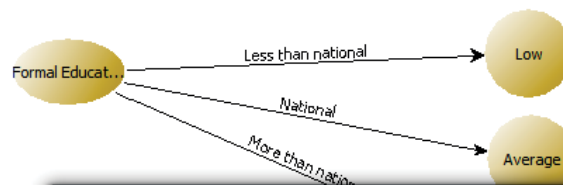
Label: Formal Education (ID: -029704305)

Level: Individual

Definition:  
Level completed

Comment:

Print Save



**Add Indicator**

Arbeitsschritte

1. Add Indicator

Add Indicator: UK Ed

< Zurück Weiter > Fertig Abbrechen

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

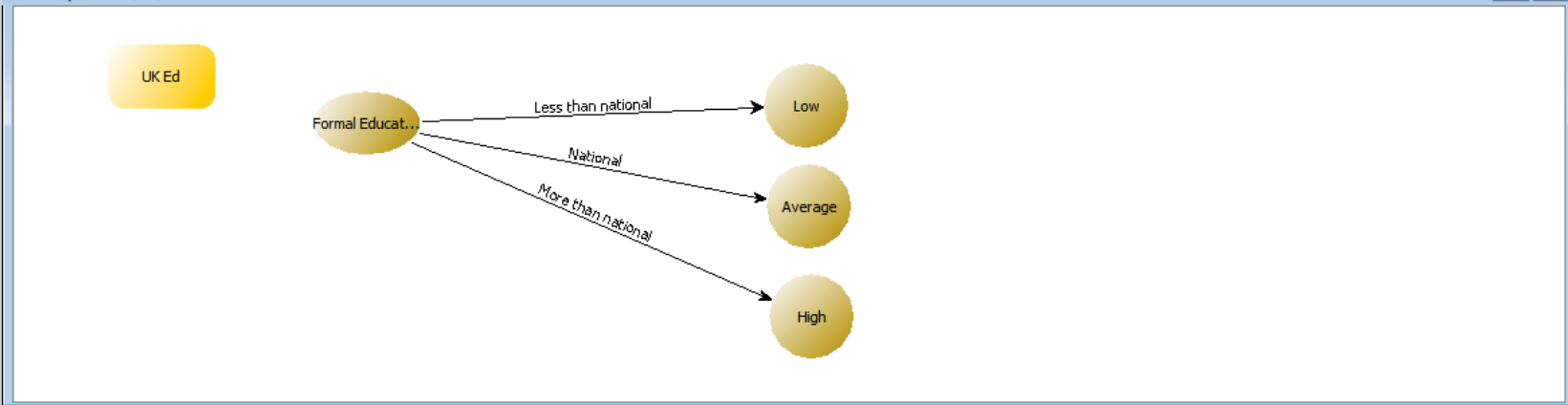
- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK Op Model (OP)



Dimension Indicator Variable

Name	Level	Definition	Values	Measure
UK Ed	Individual	Brit Ed Semyst		Nominal

Label: Formal Education (ID: -029704303)

Level: Individual

Definition:  
Level completed

Comment:

Print Save

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

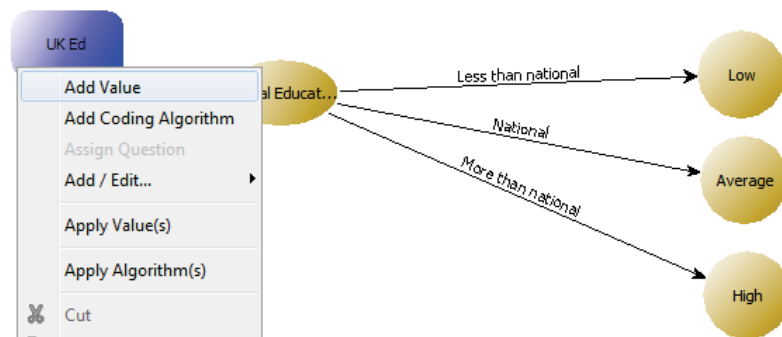
- Conceptual Model
- Operational Model(s)
  - UK Op Model (OP)
    - UK Ed
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK Op Model (OP)



- Add Value
- Add Coding Algorithm
- Assign Question
- Add / Edit...
- Apply Value(s)
- Apply Algorithm(s)
- Cut
- Copy
- Paste
- Remove

Dimension Individual

Name	Level	Definition	Values	Measure
UK Ed	Individual	Brit Ed Semyst		Nominal

No Value(s)

No Question(s)

Comment:

Print Save



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File Edit Search Project User Help

Project(s)

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

Project Content

- Conceptual Model
- Operational Model(s)
  - UK Op Model (OP)
    - UK Ed
- Data Re-coding Model(s)

Basket

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK Op Model (OP)

Formal Educat... Less than national Low

National More than A levels

Add Value(s)

Value: 3

Label: More than A levels

1="Less than A levels"  
2="A levels"

Accept Cancel Help

Dimension Indicator Variable

No Value(s)

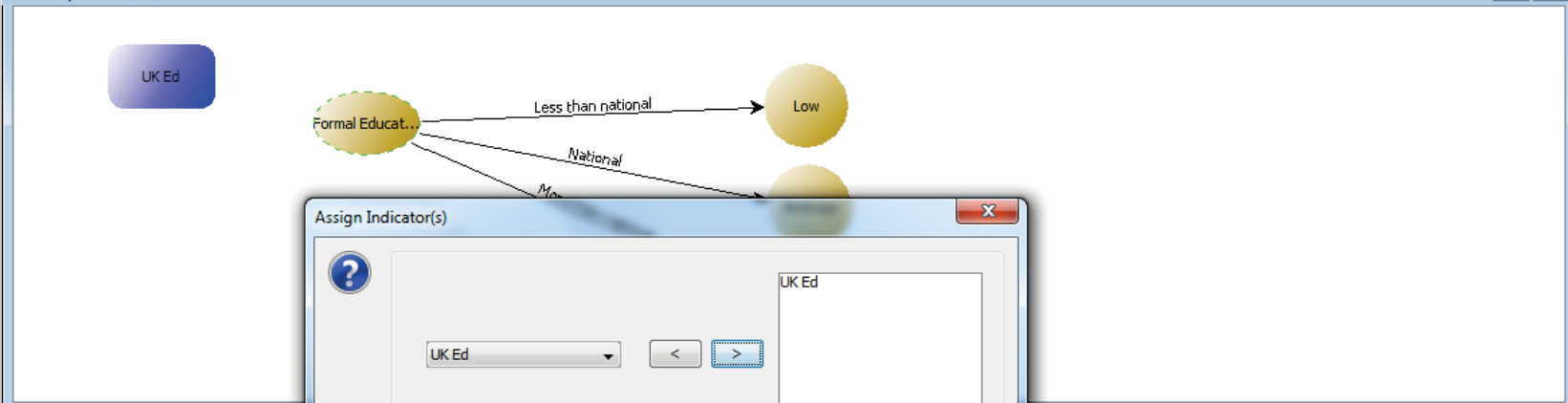
No Question(s)

Comment:

Print Save

Ready





**Assign Indicator(s)**

?

UK Ed

< >

UK Ed

Accept Cancel Help

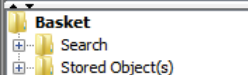
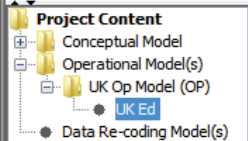
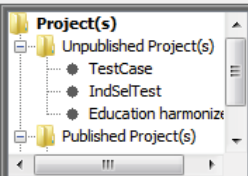
No Value(s)

No Question(s)

Comment:

Print

Save



Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK Op Model (OP)

Define Universe



Name of Universe:  ( bases on:  )

Countries Population Groups Date / Time

United States of America  
United Kingdom

United Kingdom



Accept Cancel Help

Dimension Indicator Variable

Name	Level	Definition	Values	Measure
UK Ed	Individual	Brit Ed Semyst	1="Less than A levels" 2="A levels"	Nominal

2="A levels"  
3="More than A levels"

No Question(s)

Comment:

Print Save



**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

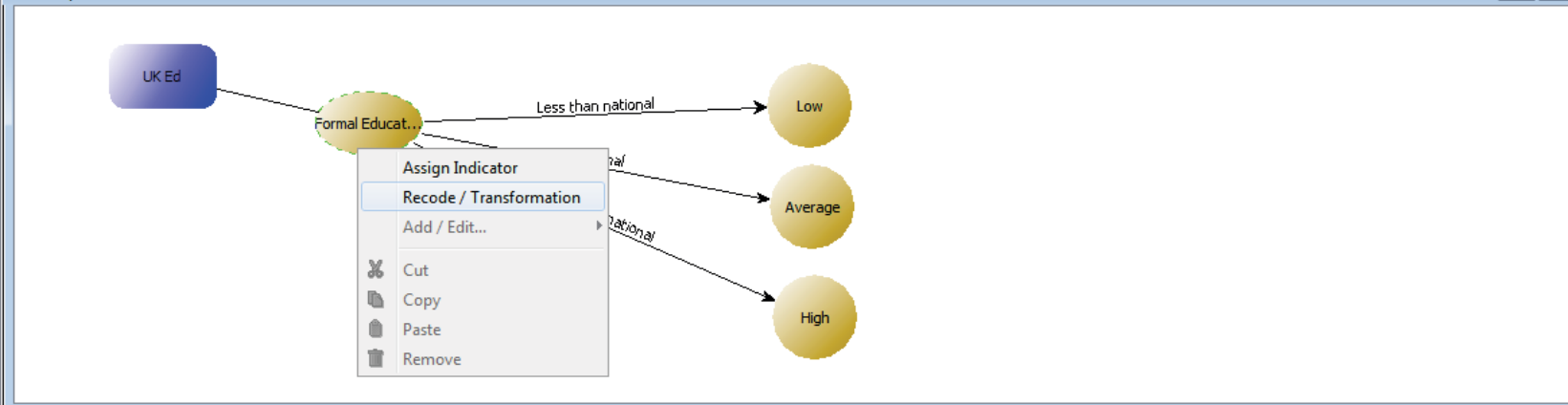
- Conceptual Model
- Operational Model(s)
  - UK Op Model (OP)
    - UK Ed
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK Op Model (OP)



Dimension Indicator Variable

Name	Level	Definition	Values	Measure
UK Ed	Individual	Brit Ed Semyst	1="Less than A levels" 2="A levels" 3="More than A levels"	Nominal

2="A levels"  
3="More than A levels"

No Question(s)

Comment:

Print

Save

**Recode**

- Formal Education

UK Ed

Dimension Name:      Indicator Name:

Label:      Label:

Value	Label	Value (Label)
2	A levels	National
3	More than A levels	Less than national
		National
		More than national

2="A levels"

3="More than A levels"

No Question(s)

Comment:

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

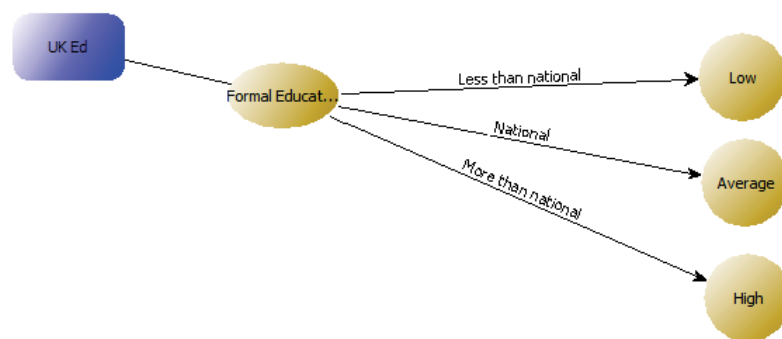
- Conceptual Model
- Operational Model(s)
  - UK Op Model (OP)
    - UK Ed
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK Op Model (OP)



- Add Indicator
- Import Indicator(s)
- Add Question
- Add / Edit...
- Define Universe
- Create new Data Re-coding Model
- Export Layer as...
- Collapse Categories
- Expand Categories
- Print Layer

Dimension Indicator Variable

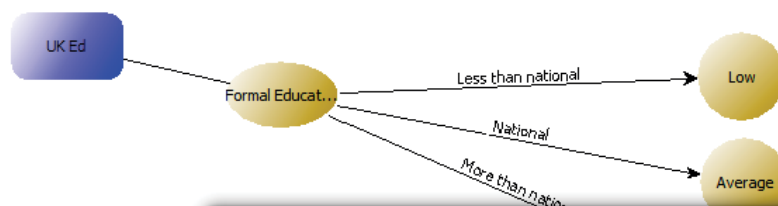
Name	Level	Definition	Values	Measure
UK Ed	Individual	Brit Ed Semyst	1="Less than A levels" 2="A levels" 3="More than A levels"	Nominal

2="A levels"  
3="More than A levels"

No Question(s)

Comment:

Print Save



**Add new Data Re-coding Model**

**Arbeitsschritte**

1. New Data Re-coding Model Name

New Data Re-coding Model Name

Data Re-coding Model Name: UK DRM

< Zurück Weiter > Fertig Abbrechen

2="A levels"

3="More than A levels"

No Question(s)

Comment:

Print

Save



**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

- Conceptual Model
- Operational Model(s)
  - UK Op Model (OP)
    - UK Ed
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK DRM (DR)

UK Ed

UK DRM (DR)

Dimension Indicator Variable

Name	Type	Level	Measure	Values	Definition

Definition:

Brit Ed Semyst

Value(s):

1="Less than A levels"

2="A levels"

3="More than A levels"

No Question(s)

Print

Save

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

- Conceptual Model
- Operational Model(s)
  - UK Op Model (OP)
    - UK Ed
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK DRM (DR)

UK Ed

UK DRM (DR)

Dimension Indicator Variable

Name	Type	Level	Measure	Values	Definition

Definition:

Brit Ed Semyst

Value(s):

1="Less than A levels"

2="A levels"

3="More than A levels"

No Question(s)

Print

Save

Search

Select Variable

Edu in Label X

Where

+

Project Type:
 ☒ don't bother or
 ☐ Harmonization
 ☐ Documentation
 ☐ Conceptual Basis

Measurement Type:
 ☒ don't bother or
 ☐ Classification
 ☐ Scale
 ☐ Index

Measurement Level:
 ☒ don't bother or
 ☐ Individual
 ☐ Aggregate

Search Save Query

☐ Edu1-1 from US Education 2010; Level: Individual;
   
☐ Edu2-1 from UK Education 2010; Level: Individual;

Save Result

Accept Cancel Help

CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK DRM (DR)

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

- Conceptual Model
- Operational Model(s)
  - UK Op Model (OP)
    - UK Ed
- Data Re-coding Model(s)

**Basket**

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Dimension	Indicator	Variable

Name	Type	Level	Measure	Values	Definition

**Definition:**  
Brit Ed Semyst

**Value(s):**  
1="Less than A levels"  
2="A levels"  
3="More than A levels"

**No Question(s)**

Print Save

Ready

CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Project(s)

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

Project Content

- Conceptual Model
- Operational Model(s)
  - UK Op Model (OP)
  - UK Ed**
- Data Re-coding Model(s)

Basket

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Conceptual Step | **Operational Step** | Data Re-coding Step | Visualize Step

UK DRM (DR)

UK Ed

UK DRM (DR)

Dimension | **Indicator**

Name	Type	Level	Measure	Values	Definition
<p>Definition:</p> <p>Brit Ed Semyst</p> <p>Value(s):</p> <p>1="Less than A levels"</p> <p>2="A levels"</p> <p>3="More than A levels"</p> <p>No Question(s)</p>					

Print Save

Ready



Import Variable(s) from Basket



Edu1-1  
Edu1-1  
Edu2-1



Accept Cancel Help

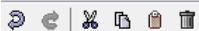
Definition:

Brit Ed Semyst

Value(s):

1="Less than A levels"  
2="A levels"  
3="More than A levels"

No Question(s)



**Project(s)**

- Unpublished Project(s)
  - Test Case
  - IndSelTest
  - Education harmonize
- Published Project(s)

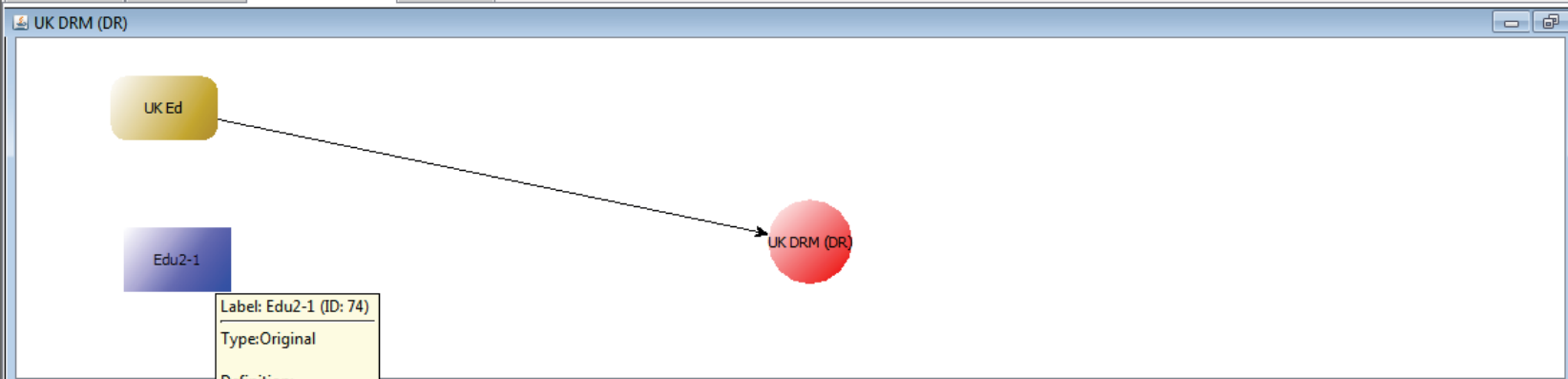
**Project Content**

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)
- UK DRM (DR)
  - Edu2-1

**Basket**

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Conceptual Step Operational Step Data Re-coding Step Visualize Step



Label: Edu2-1 (ID: 74)  
 Type: Original  
 Definition:  
 Value(s):  
 0= "Primary"  
 0= "A level"  
 0= "University degree"  
 Comment:

Dimension Indicator Variable

Name	Type	Level	Measure	Values	Definition
Edu2-1	Original	Individual	Nominal	0= "Primary" 0= "A level"	

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print

Save

CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Project(s)

- Unpublished Project(s)
  - Test Case
  - IndSelfTest
  - Education harmonize
- Published Project(s)

Project Content

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)
- UK DRM (DR)
  - Edu2-1

Basket

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Conceptual Step | Operational Step | Data Re-coding Step | Visualize Step

UK DRM (DR)

Dimension | Indicator | Variable

Name	Type	Level	Measure	Values	Definition
Edu2-1	Original	Individual	Nominal	0="Primary" 1="Secondary"	

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print Save

Ready



UK Ed

Edu2-1

Assign Variable(s)



Edu2-1



Edu2-1

Accept

Cancel

Help

Definition

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print

Save

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

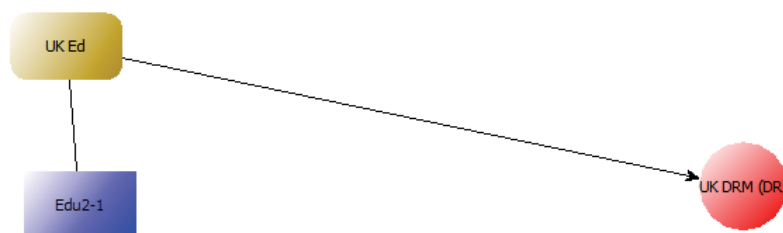
- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)
- UK DRM (DR)
  - Edu2-1

**Basket**

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK DRM (DR)



Dimension Indicator Variable

Name	Type	Level	Measure	Values	Definition
Edu2-1	Original	Individual	Nominal	0="Primary" 1="Secondary"	

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print Save

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)
- UK DRM (DR)
  - Edu2-1

**Basket**

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK DRM (DR)

UK Ed

Search'n'Compare  
Assign Variable  
Recode / Transformation  
Add / Edit...

Cut  
Copy  
Paste  
Remove

UK DRM (DR)

Dimension Indicator Variable

Name	Type	Level	Measure	Values	Definition
Edu2-1	Original	Individual	Nominal	0="Primary" 1="Secondary"	

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print

Save

- UK Ed

Edu2-1

Indicator Name:

Source Variable Name:

Label:

Label:

Value	Label	Value (Label)
0	A level	2="A levels"
0	University degree	

1="Less than A levels"

2="A levels"

3="More than A levels"

OK

Cancel

Help

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print

Save

CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK DRM (DR)

Project(s)

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

Project Content

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)
  - UK DRM (DR)
    - Edu2-1

Basket

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Dimension	Indicator	Variable												
		<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Level</th> <th>Measure</th> <th>Values</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Edu2-1</td> <td>Original</td> <td>Individual</td> <td>Nominal</td> <td>0="Primary"</td> <td></td> </tr> </tbody> </table>	Name	Type	Level	Measure	Values	Definition	Edu2-1	Original	Individual	Nominal	0="Primary"	
Name	Type	Level	Measure	Values	Definition									
Edu2-1	Original	Individual	Nominal	0="Primary"										

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print Save

UK Ed

Edu2-1

## Define Universe



Name of Universe:  ( bases on: UK )

Countries Population Groups Date / Time

United Kingdom

United Kingdom



Accept Cancel Help

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print

Save

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

**Project Content**

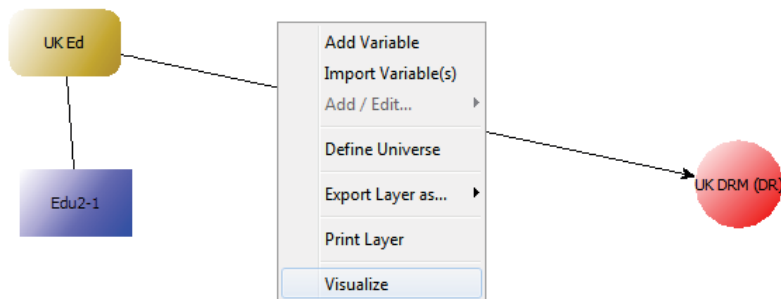
- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)
- UK DRM (DR)
  - Edu2-1

**Basket**

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Conceptual Step Operational Step Data Re-coding Step Visualize Step

UK DRM (DR)



Dimension Indicator Variable

Name	Type	Level	Measure	Values	Definition
Edu2-1	Original	Individual	Nominal	0="Primary" 1="Secondary"	

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print

Save

**Project(s)**

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

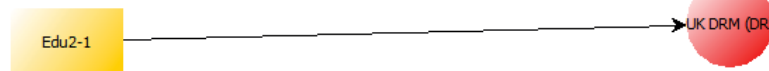
**Project Content**

- Conceptual Model
- Operational Model(s)
- Data Re-coding Model(s)
- UK DRM (DR)
  - Edu2-1

**Basket**

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Conceptual Step Operational Step Data Re-coding Step Visualize Step



Dimension Indicator Variable

Name	Type	Level	Measure	Values	Definition
Edu2-1	Original	Individual	Nominal	0="Primary" 1="Secondary"	

Label: Edu2-1 (ID: 74)

Type: Original

Definition:

Comment:

Print

Save



CharmStats (c)2012 by GESIS - Logged in as: test - Project: Harmonized Ed

File Edit Search Project User Help

Project(s)

- Unpublished Project(s)
  - TestCase
  - IndSelTest
  - Education harmonize
- Published Project(s)

Project Content

- Conceptual Model
- Operational Model(s)
  - UK Op Model (OP)
    - UK Ed
- Data Re-coding Model(s)
  - UK DRM (DR)
    - Edu2-1

Basket

- Search
- Stored Object(s)
  - Edu1-1
  - Edu2-1

Conceptual Step | Operational Step | Data Re-coding Step | Visualize Step

UK DRM (DR)

Search'n'Compare  
Assign Variable  
Recode / Transformation  
Add / Edit...  
Cut  
Copy  
Paste  
Remove

UK Ed

Edu2-1

UK DRM (DR)

Dimension	Indicator	Variable										
		<table border="1"> <thead> <tr> <th>Name</th> <th>Level</th> <th>Definition</th> <th>Values</th> <th>Measure</th> </tr> </thead> <tbody> <tr> <td>UK Ed</td> <td>Individual</td> <td>Brit Ed Semyst</td> <td>1="Less than A levels" 2="A levels"</td> <td>Nominal</td> </tr> </tbody> </table>	Name	Level	Definition	Values	Measure	UK Ed	Individual	Brit Ed Semyst	1="Less than A levels" 2="A levels"	Nominal
Name	Level	Definition	Values	Measure								
UK Ed	Individual	Brit Ed Semyst	1="Less than A levels" 2="A levels"	Nominal								

Value(s):  
1="Less than A levels"  
2="A levels"  
3="More than A levels"

No Question(s)

Comment:

Print Save

Ready

Search'n'Compare

UK DRM (DR)

UK Ed

Name	Measurement Type	Categories	Level
UK Ed	Nominal	1="Less than A levels"	Individual

Question:

Metadata

Universe: Geographic	Temporal	Study: Title
United States of America	2010	US Education 2010
United Kingdom	2010	UK Education 2010

Variable

Type	Level	Measurement
Original	Individual	Nominal
Original	Individual	Nominal

Bias

Inverse	Diff. in Metric	Bias Rating:	Missing Categori...	Stand. C. Proc.:	Preference:
<input type="checkbox"/>	<input type="checkbox"/>	None		None	0%
<input type="checkbox"/>	<input type="checkbox"/>	None		None	0%

OK

Cancel

Help

## Moving forward

- We are very excited about what we have been able to do so far.
- Roll-out for widespread use at IASSIST 2013, in Cologne.
- We look forward to requests and input from the user community to help shape future releases.