



# seriss

SYNERGIES FOR EUROPE'S  
RESEARCH INFRASTRUCTURES  
IN THE SOCIAL SCIENCES



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## Development of a coding platform

MAURICE  
MARTENS

3MC Chicago  
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## Purpose (1)

Occupation, industry, employment status, educational attainment and field of education are core variables in many socio-economic and health surveys. This WP will develop a cross-country harmonized, fast, high-quality and cost-effective coding module for these variables.

The module will use a large multi-lingual dictionary with ten thousands of entries about job titles, industry names and fields of education and training.

Additionally, the module will include country-specific, structured lists of educational qualifications and employment status categories.



## Purpose (2)

This task aims to program a web-based module for survey questions and answers (Q&A) for the five socio-economic variables and for the auxiliary variables required for valid coding to serve computer-assisted surveys using web, mobile, tablet, laptop or telephone; interviewers or respondents use search tree navigation or semantic matching techniques to search the relevant databases; the module facilitates single item and batch identification.



## Purpose (3)

Included in the module is an Application Programming Interface (API)

The module should facilitate surveys in EU-27 and EU-ass13 countries with the five most spoken languages outside this area will be included: Russian, Mandarin, Arabic, Hindi and Bahasa, leading to a total of 34 languages servicing 99 countries.



## Deliverables

- D8.1.1 MODULE for five core and few auxiliary for survey Q&A in 99 countries + explanatory note (M24)
- D8.1.2 API for databases + explanatory note (M24)

## Related deliverables

- D8.2.1 Database of occupations (M48)
- Database of educational attainment (M36)
- D8.4.1 Database of industries (M24)
- D8.5.1 Database of employment status (M12)
- D8.6.1 Survey Q&A (M12)
- D8.7.1-4 Dissemination, website, workshop, training



## Participating partners

- Lead partner: SHARE (CentERdata)
- Partner: UvA (AIAS / WageIndicator)
- Partner: Gesis (CAMCES)

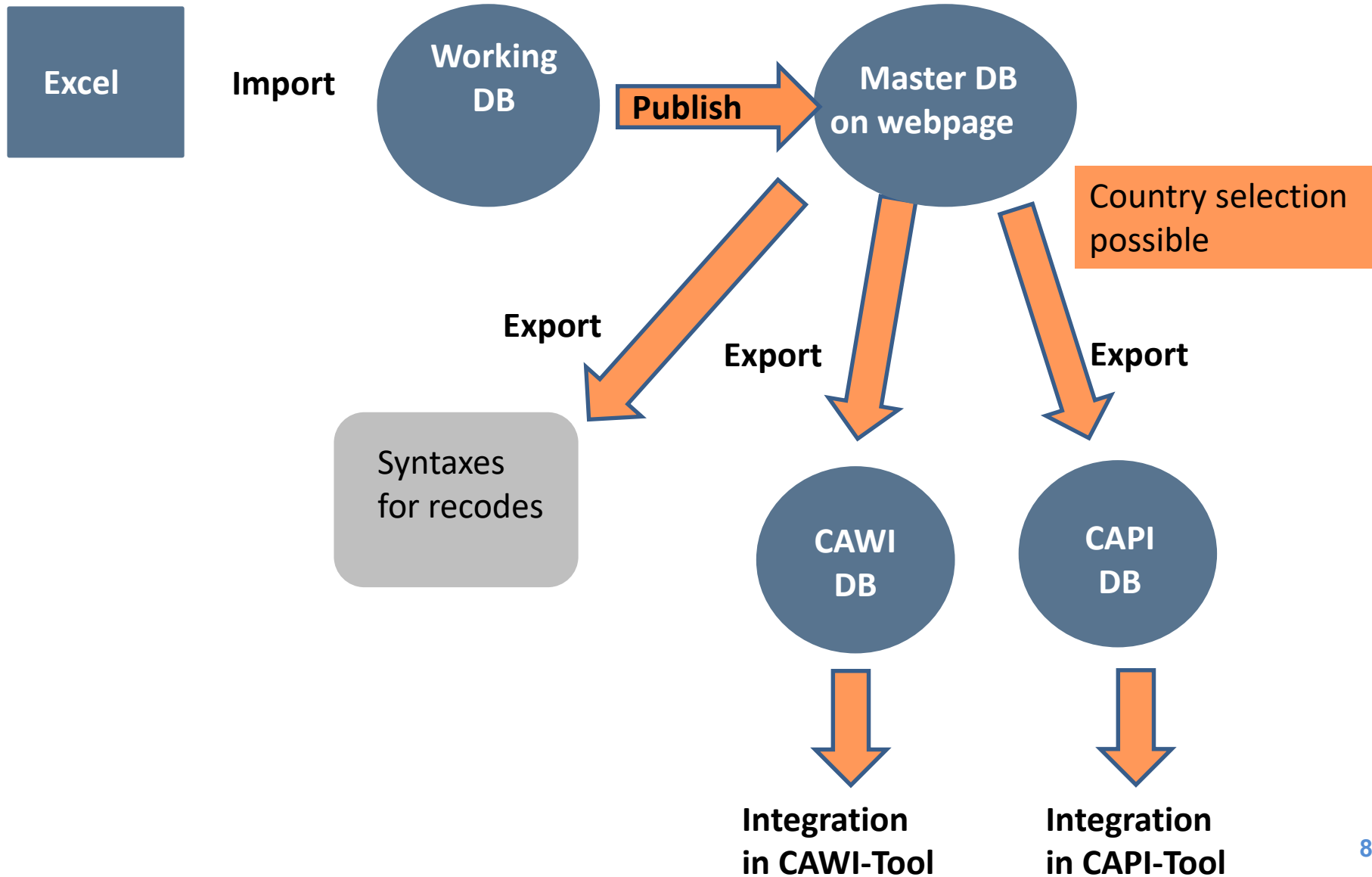


# Software components and architecture

- Frontend (Webportal)
- Backend
- API => throws JSON objects



# Software components and architecture







# Progress and timeline

1. Program a web-based module for survey questions and answers (Q&A) for the five socio-economic variables.
  - CAMCES (education) (work in progress, various versions fielded, 60% ready)
  - Demo Webportal (work in progress, 80% ready)
  - Library of best practices (started)
  - Backend (work in progress, 20% ready)



## Progress and timeline

2. Development of the API for the databases, developed in work package 8.
  - API structure called using jQuery (100%)
  - What variables (ongoing discussion)
  - Create designer that defines algorithm (20%)
  - How does API integrate in questionnaire (ongoing discussion)



# Impression of the tool

- Frontend: <http://www.codings.centerdata.nl>

# Impression of the tool

- Backend:

## Imports

Id	Name	Filename	User	Created	Actions
1	CAMCES	<b>CAMCES_database_20160216.xlsx</b>	1	2016-04-19 13:48:45	<a href="#">View</a>
2	Occupations	<b>Occupations.xlsx</b>	1	2016-04-19 14:52:42	<a href="#">View</a>
3	SERISS Occupations	<b>SERISS-OCCUPATIONAL CODING_transformed_20160419.xlsx</b>	1	2016-04-26 15:15:48	<a href="#">View</a>

Page 1 of 1, showing 3 records out of 3 total, starting on record 1, ending on 3

## Autosuggest

Import  Locale

Query

Code

## Descriptions

Import  locale  Name

Id	Code	Description	Import	Locale	Actions
21717	2519-033	IT-softwareteste	Occupations	da_DK	<a href="#">View</a>
22585	3513-041	Tekniker i testni	Occupations	da_DK	<a href="#">View</a>

Page 1 of 1, showing 2 records out of 2 total, starting on record 1, ending on 2

....

ar\_EG

ar\_IL

ar\_MA

bs\_BA

ca\_ES

cs\_CZ

da\_DK

de\_AT

de\_CH

de\_DE

en\_GB

en\_IE

en\_IL

en\_IN

en\_MT

en\_NG

en\_PH

en\_PK

en\_SG



## Various ways of connecting

- Download example JavaScript
- Download example questionnaire
- Download a copy of the database
- Download DDI document
- Download a compiled DLL to link to your CAPI environment



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# THANKS

# Maurice



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