



Satellite Account for Education and Training, UK Pilot, 2014

Vasileios Antonopoulos
Office for National Statistics

Contents

- Objectives and stakeholders
- Data sources and transactions
- Main results
- Risks and future improvements

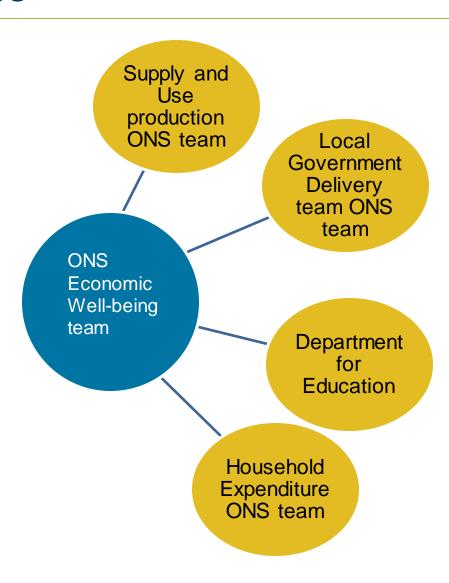
Objectives

We aim to:

 pilot a satellite account for education and training largely based on monetary data available from the national accounts.

 provide a more detailed description and assessment of the production activities that contribute to the creation of human capital, and of the financing agents.

Stakeholders



Data Sources

Office for National Statistics

- Supply and Use tables for UK
- Input output Analytical Tables
- Central Government Public Spending
- Living Costs and food Survey

Department of Education

- Income and Expenditure in Academies in England
- Childcare and Early Year Learning Survey of parents

Higher Education Statistical Agency

- Higher Education Finance Survey
- Student in Higher Education Survey

Other Government
Departments or Education
Councils/Agencies

- Employers skills survey
- Independent Schools Council Annual Census Survey
- statistics on International Development
- Further Education Colleges Accounts

Transactions between financing agents and General Government producers of education and training

Financing **Agents**

Central/ State

Government

Local

Government

Financial /

Education product 1

(Pre-primary and Primary education)

> runas to Academies and Free Schools

Funds to State Schools

> Grants to Academies

Education product 2

(Lower and Higher secondary school)

Funds to Academies and Free Schools

Funds to State Schools

Grants to Academies

Education product 3

(Postsecondary nontertiary education and tertiary education)

Education product 4

(Vocational training, education support etc)

Funds to state provided Further Education

Funds to state provided Further Education

General Government Producer

Non-financial corporations

Households

NPISH

Rest of the world

Transactions between financing agents and Corporations and NPISH producers of education and training

Financing Education Education Education Education **Agents** product 1 product 2 product 3 product 4 Subsidies to Subsidies to Central/ State Subsidies to Subsidies to further tertiary Government private schools private schools education education Subsidies to Subsidies to Local tertiary further Government education education Financial / Non-Research **Employment** financial grants to Corporations training Universities corporations and NPISH financing Income created Income created Agents **NPISH** by Universities by colleges Tuition fees Tuition fees Tuition fees Tuition fees from UK Households from UK from UK from UK students students students students Tuition fees Tuition fees Research Research Rest of the Grants from EU from non-UK from non-UK Grants from EU

students

and non-EU

and non-EU

students

world

Transactions between Financing Agents and producers of education and training for 2014

		PRODUCER								
		GENERAL GOVERNMENT				CORPORATIONS AND NPISH				Rest of the world
			PRODUCTS							/ED1
	Millio	(EP1)	(EP2)	(EP3)	(EP4)	(EP1)	(EP2)	(EP3)	(EP 4)	(EP1- EP4)
FINANCING AGENT	ns									
Central/State Government	S.131 1 – S.131 2	£ 813	£ 20,155	-	£ 1,966	£ 3	£ 474	£ 16,175	£ 1,783	£ 821
Local Government	S.131 3	£ 24,664	£ 22,093	-	£ 3,496	1	-	£ 1,403	£ 4,019	-
Financial/Non-Financial corporations	S.11 - S.12	-	-	1	-	-	1	£ 818	£10,436	-
NPISH	S.15	£ 231	£ 1,477	-	-	-	_	£ 21,680	£ 2,021	-
Households	S.14	-	-			£ 6,171	£ 1,634	£ 9,187	£ 961	£ 260
Rest of the world	S.2	-	-	-	-	£ 11	£ 60	£ 3,573	£ 53	-

(-)Not applicable for UK's SAE

⁽X) Applicable for UK's SAE but not available data

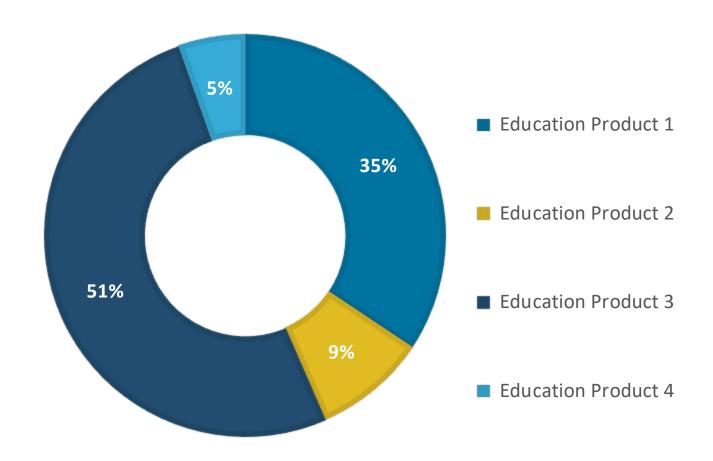
Transactions between Financing Agents and producers of education and training for 2014

		PRODUCER								
		GEN	ERAL GC	VERNME		COF RODUCT:	Rest of the world			
FINANCING AGENT		(EP1)	(EP2)	(EP3)	(EP4)	(EP1)	(EP2)	(EP3)	(EP 4)	(EP1- EP4)
Central/State Government	S.1311 – S.1312	0.52%	12.88%	-	1.26%	0.00%	0.30%	10.34%	1.14%	0.52%
Local Government	S.1313	15.77%	14.12%	-	2.23%	-	-	0.90%	2.57%	-
Financial/Non-Financial corporations	S.11 - S.12	-	-	-	-	-	-	0.52%	6.67%	-
NPISH	S.15	0.15%	0.94%	-	-	-	-	13.86%	1.29%	-
Households	S.14	-	-	-	-	3.94%	1.04%	5.87%	0.61%	0.17%
Rest of the world	S.2	-	-	-	-	0.01%	0.04%	2.28%	0.03%	-

(-)Not applicable for UK's SAE

⁽X) Applicable for UK's SAE but not available data

Household Expenditure by level of Education



Source: Authors Calculations, exclude expenditures to the rest of the World Notes: The percentages are based on the total household expenditure that has been calculated in the UK's SAE.

Post-secondary and Tertiary Education Funding by Source, UK 2014

NPISH	Central/State Government	Households	
		17.4%, £9,187	
		Rest of the world	Local Government
			2.7%, £1,403
			corporations
41.0%, £21,680	30.6%, £16,175	6.8%, £3,573	1.5%, £818

Source: Authors Calculations, exclude expenditures to the rest of the World Notes: The percentages are based on the total EP3 expenditure that has been calculated in the UK's SAE.

Resources/Uses Table of the Sector by institution

producing education

			Local	Financial/ non- financial corporations		
Data in Millions	Central/Stat	e Government	Government	(S.11/S.12)	NPISHs (S.15)	Total
Resources						
Current transfer from financing agents (FA)						
Central/State Government (S.1311/S.1312)	£	22,934	£ 1,220			£ 24,154
Local Government (S.1313)			£ 50,253			£ 50,253
Financial/Non-financial corporations (S.11/S.12)						£ -
NPISHs (S.15)						£ -
Households (S.14)						£ -
Rest of the world (S.2)						£ -
Income From sales				£ 7,369	£ 10,254	£ 17,623
Capital Transfer from financing agents						
Central/State Government (S.1311/S.1312)				£ 477	£ 17,958	£ 18,435
Local Government (S.1313)					£ 5,422	£ 5,422
Financial/Non-financial corporations (S.11/S.12)				£ 20,638	£ 1,592	£ 22,230
NPISHs (S.15)	£	575			£ 3,093	£ 3,668
Households (S.14)						£ -
Rest of the world (S.2)				£ 117	£ 5,876	£ 5,993
Other incomes (from capital, insurance, rents)					£ 4,893	£ 4,893
	£	23,509	£ 51,473	£ 28,601	£ 49,089	£ 152,672
Uses						
Intermediate consumption	£	6,208	£ 15,426		£ 16,137	£ 37,771
Compensation of employees	£	12,937	£ 25,943		£ 23,930	£ 62,810
Wages and salaries						£ -
Employers' social contributions	£	27	£ 2,274		£ 699	£ 3,000
Taxes on production and imports						£ -
Less Subsidies	£	477	£ -		£ 253	£ 730
Consumption of fixed capital						£ -
Current & Capital Transfers	£	907			£ 180	£ 1,087
Total current expenditure	£	23,986	£ 50,681	£ 29,433	£ 44,764	£ 148,864
Change filled as with I formulation		2.055	6 7.020		6 2566	6 12 450

Other Tables in the SAE

- Resources/ Uses table of the sector by product
- Supply and use table
- Supplementary tables
 - 1. Supplementary information on population
 - 2. Supplementary information on students and teachers
 - Supplementary information on adults in continuing vocational training and on permanent education

Risks and Developments

 There is a risk we may be double counting the expenditure spent on the rest of the world as public spending tables do not go into enough detail.

 ONS's supply table does not provide industryby-industry breakdowns of output.

Future Developments

 Estimate, both for the Supply and Use of products, detail at the lower educational product level.

- Research for in-job training expenditure
- SAE for other years more than 2014

Any Questions?