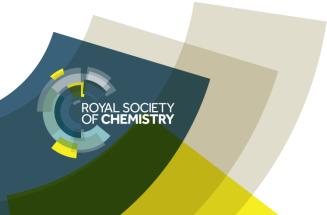
Using data to establish a baseline and track progress Melissa Black Royal Society of Chemistry 08/12/2014



Inclusion and Diversity at the Royal Society of Chemistry

- Diversity Specialist Andrea Banham
- Inclusion and Diversity Committee:
 - Chaired by Prof. Lesley Yellowlees
 - 8 members who represent the diversity within our community
 - The purpose of this committee is to promote inclusivity and equality of opportunity and ensure we make significant progress in this area.
 - Reports to our Membership and Qualifications Board



Inclusion and diversity data

There are three big questions often surrounding data (not just on inclusion and diversity) at the Royal Society of Chemistry

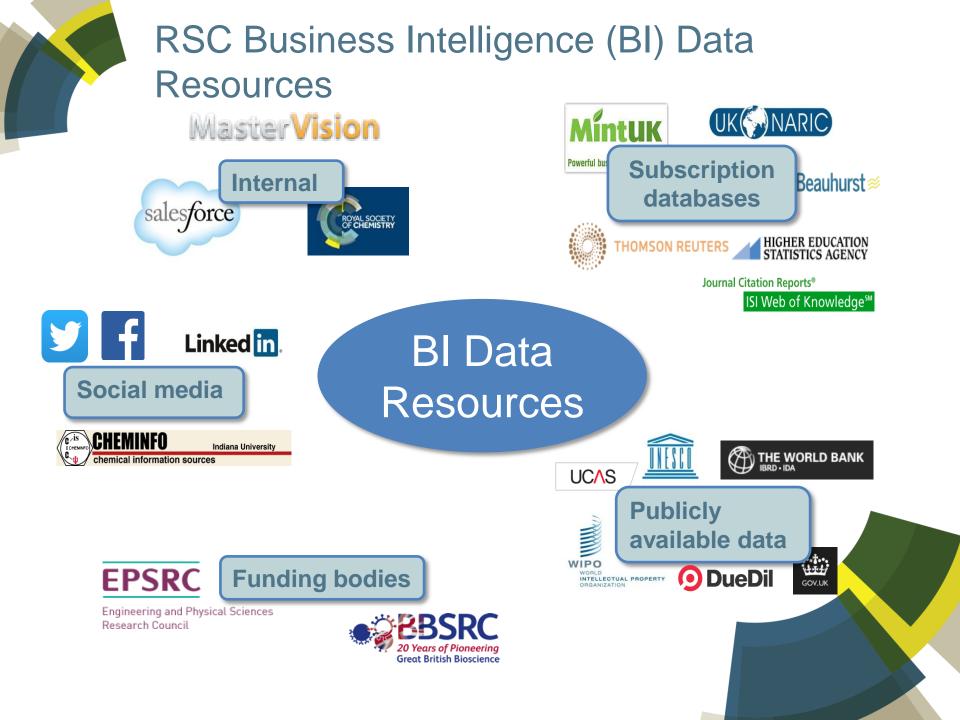
- What data is readily available?
- What data is available but we do not have access to?
- Where are the gaps?



Data Audit

- To identify what data the RSC has access to in terms of diversity of the chemical sciences
- For this project:
 - Identification of data already collected/obtained by RSC
 - Identification of possible sources of data not already used
 - Gap analysis





Free data sources



General worldwide country statistics including education and scientific community



Number of Applicant/Accepts by subjects

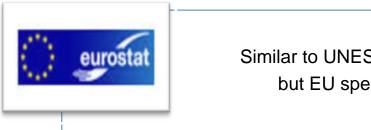
Applicants by age, region, gender, disability



UK labour force statistics. population, education



General UK population statistics



Similar to UNESCO but EU specific



Governmental data sets including pupil numbers/school information

Internal data sources

The RSC holds a large amount of data in various databases which may help with benchmarking and monitoring

- Membership
- Publishing
- Sales
- Events



Making use of the data

- A number of diversity benchmarking and monitoring projects underway/completed
 - Widening participation model
 - Higher education data dashboards
 - Targeting activities



To what extent do the demographic characteristics of the UK chemical sciences undergraduate population not match those of the wider UK population of that age?

Data sources used:

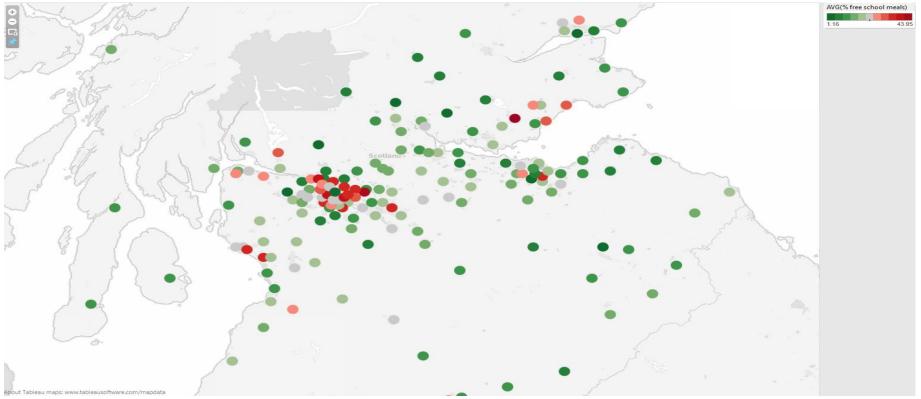
- Census 2011
- ONS labour force survey
- Departments of education
- Apprenticeship statistics
- Higher education general population
- Chemistry higher education population

	General population	Further Education	Undergraduate	Chemistry Undergrad	Apprenticeships	Employment	Unemployment	Postgraduate
Male	50.4%	47.2%	42.4%	58.7%	52.3%	50.8%	60.3%	49.8%
Female	49.6%	52.8%	57.6%	41.3%	47.7%	49.2%	39.6%	50.2%
Asian	9.6%	4.8%	8.6%	10.6%		5.4%	6.5%	8.5%
Black	3.4%	2.6%	6.0%	3.7%		1.4%	4.4%	5.3%
Other including mixed								
race	4.0%	2.8%	3.9%	3.8%		1.3%	2.1%	3.7%
Unknown		0.7%	1.8%	1.4%	1.1%			4.3%
White	83.0%	89.1%	79.6%	80.5%	89.1%	91.9%	87.0%	78.1%
BME (Apprenticeships only)					9.3%			
Disability Recorded	8.7%		9.3%	6.9%	7.8%			7.9%
No disability recorded	91.3%		90.7%	93.1%	90.2%			92.1%
Unknown					1.4%			

Partnership schools

Data sources used:

- Internal data
- Departments of education school lists
- Departments of education pupil numbers
- Department of education free school meals statistics



Chemistry in higher education dashboards

Diversity by year Destination of leavers Regional Breakdown Founding year/Russell Group Funding all sources BIS > Diversity by study



*

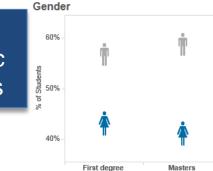
Diversity in chemistry higher education

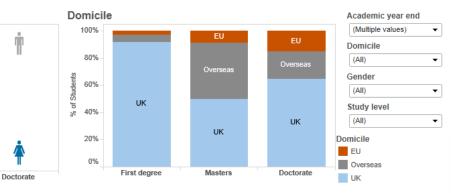
This dashboard shows the ethnicity, gender split and socioeconomic background of first year students studying chemistry at all levels between 2004/05 and 2011/12

This dashboard is interactive so please use the filters below to alter the graphs

HESA data



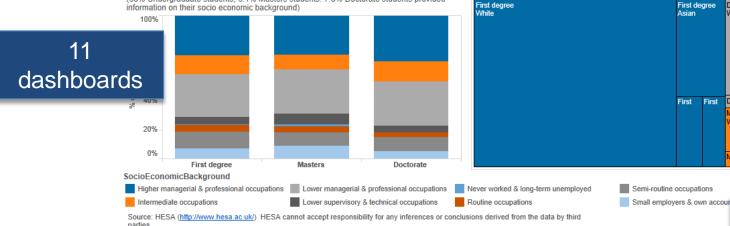




Users can manipulate the data

Socioeconomic background

(68% Undergraduate students, 6.1% Masters students, 7.8% Doctorate students provided information on their socio economic background)



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Ethnicity of UK domiciled students

Almost 4,000 views

Doctorate

Doctorate

Aasters Vhite

/lasters

White

Challenges?

- Finding data can be difficult
- Cost of data
- Not all data reported
- Identifying subject specific information
- Combining data sets