

Data Matrix User Guide

1. Introduction

The 2018 Data Matrix is designed to support the 2018 iteration of the Regional Skills Assessments (RSAs) in Scotland. The RSAs align with the Regional Outcome Agreement areas within Scotland, and are an evidence base, built up from existing evidence, on which to base future investment in skills. The Data Matrix is a publicly available, Excel-based tool which holds data on 84 economic and social indicators sorted by theme and geography.

The 2018 Data Matrix can be found here:

<https://www.skillsdevelopmentscotland.co.uk/what-we-do/partnerships/regional-skills-assessments/>

The 2018 Data Matrix consists of 4 workbooks, as follows:

- Economic Performance
- People and Skills Supply
- Profile of the Workforce
- Other Economic Indicators

Please note there is no provision data in this year's data matrix. This iteration, unlike in previous versions, focuses much more on demand side evidence to support Step 1 of the proposed five step planning model in the Skills Alignment workstream of the Enterprise and Skills Review. More details can be found in the introduction to the RSAs themselves.

The data within each workbook is presented at 5 different spatial levels, where possible:

- RSA region (14)
- City Deal (4)
- Growth Deal (4)
- Local Authority (32)
- National (3 - Scotland, United Kingdom and Great Britain).

2. Using the Matrix

The first thing to note is that when opening the matrix you will need to 'enable content' to allow macros. Enabling macros allows the matrix to work the way it is designed. The matrix will still work without macros being enabled, although some formatting may go amiss. In addition, the best way to view the matrix is in Full Screen view, especially for smaller monitors.

a. Contents Tab

The first tab within each workbook is the contents page. This page contains the following:

- a list of indicators contained within that workbook, each of which is a quick link to that particular datasheet;
- a brief description of the data and sources included in the workbook;
- a brief 'how to use' guide, including an explanation of how the user can enable their macros; and

- a breakdown of the RSA, City Deal and Growth Deal regions by local authority.

An example of the contents page for the Economic Performance workbook is shown below.

Regional Skills Assessments Data Matrix - Economic Performance

Indicators

The following indicators are included in this workbook:

<i>EPI Total GVA</i>	<i>EPI Growth Sector Businesses</i>
<i>EPI GVA by Sector</i>	<i>EPI Growth Sector Businesses by Sizeband</i>
<i>EPI Index of GVA</i>	<i>EPI Growth Sector Total GVA</i>
<i>EPI GVA per Job</i>	<i>EPI Growth Sector GVA per Head</i>
<i>EPI Number of Businesses</i>	<i>EPI Business Lifecycles</i>
<i>EPI Business Density</i>	<i>EPI SE Account Managed</i>
<i>EPI Businesses by Sector</i>	<i>EPI HIE Account Managed</i>
<i>EPI Businesses by Sizeband</i>	<i>EPI Business Expenditure on R&D</i>

Composition of 2018 RSA Regions

Aberdeen and Aberdeenshire	Aberdeen City
	Aberdeenshire
Ayrshire	East Ayrshire
	North Ayrshire
	South Ayrshire
Borders	Scottish Borders
Dumfries & Galloway	Dumfries & Galloway
Edinburgh and Lothians	City of Edinburgh
	East Lothian
	Midlothian
Fife	Fife
Forth Valley	Clackmannanshire
	Falkirk
	Stirling
Glasgow	East Dunbartonshire
	East Renfrewshire
	Glasgow City
Highlands and Islands	Argyll and Bute
	Eilean Siar
	Highland
	Moray
	Orkney Islands
	Shetland Islands
Lanarkshire	East Dunbartonshire
	North Lanarkshire
	South Lanarkshire
New - South of Scotland	Dumfries & Galloway
	Scottish Borders
Tayside	Angus
	Dundee City
	Perth and Kinross
West	East Renfrewshire
	Inverclyde
	Renfrewshire
	West Dunbartonshire
West Lothian	West Lothian

Composition of 2018 City Deal Regions

Glasgow City Region	East Dunbartonshire
	East Renfrewshire
	Glasgow City
	Inverclyde
	North Lanarkshire
	Renfrewshire
	South Lanarkshire
	West Dunbartonshire
Edinburgh and South East Scotland City Region Deal	City of Edinburgh
	East Lothian
	Fife
	Midlothian
	Scottish Borders
	West Lothian
Stirling and Clackmannanshire City Deal	Clackmannanshire
	Stirling
Inverness and Highlands City Region Deal	Highland

Composition of 2018 Growth Deal Regions

Argyll and Bute Rural Growth Deal	Argyll and Bute
Falkirk Investment Zone	Falkirk
The Islands Growth Deal	Eilean Siar
	Orkney Islands
	Shetland Islands
Moray Growth Deal	Moray

Change to 2018 geographies

This year, we have made some changes to the geographies used. We have included only four City Deal regions, with Aberdeen and Aberdeenshire already captured as an RSA region.

We have also included four Growth Deal regions - Argyll and Bute, Falkirk Investment Zone, The Islands, and Moray.

Matrix Data

The data was the most up to date available data at the time of writing. The data matrix workbook contains data from a number of sources, including the Business Register and Employment Survey, Scottish Government Growth Sector Database, Scottish Enterprise, Annual Population Survey and the Scottish Government Pupil Census. All data sources are stated. Please note the data matrix does not reflect any updates to indicators that have been released after August 2018. Please check with the original sources for any updated data releases.

How to use the Matrix

The matrix contains summary pages for the City Deal, RSA and Local Authority regions. The three summary pages include a drop-down menu (shaded blue at the top of the sheet) for selecting the geography for which summary data will be provided. The relevant indicators can then be selected by clicking the corresponding indicator button. The Local Authority summary page also includes a second drop down menu for comparator RSA regions as some of the Local Authorities cover more than one region.

To access a more comprehensive dataset, click the link above each data table to view the full datasheet for that selected indicator. Links can be used to navigate between each summary tab and datasheet.

Please note that to use the summary features of the matrix, macros must be enabled. You can enable macros by selecting 'Enable content' if prompted to do so in the notification box or banner at the top of the sheet. If you are not prompted to enable macros, you may need to change the spreadsheet's macro settings. You can do this in Excel 2013 by accessing the following menu options: **File > Options > Trust Centre > Trust Centre Settings... > Macro Settings** and selecting 'Disable all macros with notification'.

When you reopen this spreadsheet you will receive a notification stating that Macros have been disabled and will be given the option to accept macros within the spreadsheet. It is not recommended that 'Enable all macros' is selected as this will enable macros in all spreadsheets, not just the SDS Data Matrix.

b. Summary Tabs

The next four tabs within each workbook are the summary pages, one for the RSA regions, one for the City Deal regions, one for the Growth Deal regions and one for the Local Authorities. These summary pages are best used for quickly looking up a figure for a particular geography.

To use the summary pages, first select a geography from the drop-down menu next to "Summary Statistics for" (it is selected just by clicking on it, there is no need press Enter). For example:

Economic Indicators: RSA Summary

Summary Statistics for: **Aberdeen and Aberdeenshire (RSA)**

GVA	Indicator	Index of GVA
Productivity		

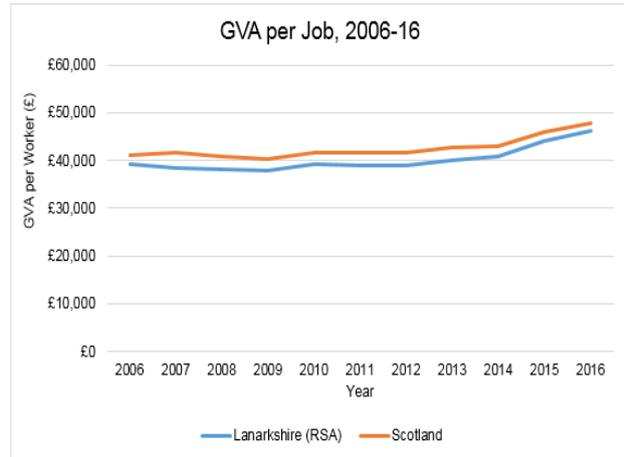
Business Base (1)	Number of Businesses	Business Density	Businesses by Sector	Businesses by Size Band	Growth Sector Businesses	Growth Sector Businesses by Sizeband
Business Base (2)	Growth Sector GVA	Growth Sector GVA per Head	Business Births, Deaths and Survival	SE Account Managed Companies	HIE Account Managed Companies	Business Expenditure on R&D

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Once a geography is selected, the user can then select any of the indicator 'buttons' in blue. This will generate a data table and corresponding chart for that indicator. The data will compare the region to Scotland and/or the UK/Great Britain (where applicable). For example:

[EP4. GVA per Job, 2006-16](#)

	Lanarkshire (RSA)	Scotland
2006	£39,334	£41,234
2007	£38,404	£41,633
2008	£38,203	£40,912
2009	£37,967	£40,350
2010	£39,357	£41,644
2011	£39,014	£41,707
2012	£38,847	£41,768
2013	£40,052	£42,611
2014	£40,734	£43,086
2015	£44,167	£45,863
2016	£46,121	£47,755



c. Datasheet Tabs

In order to find out more about a particular indicator, or compare the region to other regions in Scotland, click on the table title link provided (in blue and underlined above, e.g. [EP1. Gross Value Added 2006-16](#)). This will navigate the user to the full datasheet. For example:

EP1. Gross Value Added (£m Real Prices) 2006-2016														
Return to Contents Return to RSA Summary														
	Aberdeen and Aberdeenshire (RSA)	Ayrshire (RSA)	Borders (RSA)	Dumfries & Galloway (RSA)	Edinburgh and Lothians (RSA)	Fife (RSA)	Forth Valley (RSA)	Glasgow (RSA)	Highlands and Islands (RSA)	Lanarkshire (RSA)	New - South of Scotland (RSA)	Tayside (RSA)	West (RSA)	West Lothian (RSA)
Total GVA	AA	AY	BO	DG	EL	FI	FV	GL	HI	LR	SS	TY	WE	WL
2006	£13,140	£6,512	£1,890	£2,561	£19,934	£6,519	£6,095	£20,657	£9,927	£13,304	£4,451	£8,426	£8,047	£3,671
2007	£14,425	£6,262	£1,914	£2,561	£19,982	£6,657	£6,092	£20,482	£9,967	£13,052	£4,475	£8,533	£7,951	£3,728
2008	£14,930	£6,283	£1,912	£2,526	£20,328	£6,681	£5,960	£21,260	£10,192	£13,093	£4,439	£8,416	£8,102	£3,749
2009	£14,471	£5,988	£1,806	£2,516	£20,331	£6,365	£5,689	£20,631	£9,816	£12,497	£4,322	£8,236	£7,653	£3,485
2010	£15,544	£6,119	£1,895	£2,619	£19,998	£6,445	£5,815	£20,231	£10,094	£12,552	£4,514	£8,458	£7,628	£3,636
2011	£16,269	£6,211	£1,969	£2,673	£20,203	£6,477	£5,562	£20,619	£10,658	£13,006	£4,641	£8,625	£7,752	£3,792
2012	£16,942	£6,010	£1,892	£2,556	£20,378	£6,355	£5,647	£20,861	£10,503	£12,877	£4,447	£8,527	£7,453	£3,574
2013	£17,619	£6,014	£1,997	£2,638	£20,866	£6,789	£5,772	£21,336	£10,720	£13,265	£4,635	£8,942	£7,595	£3,439
2014	£18,844	£6,447	£2,040	£2,789	£21,039	£6,939	£5,933	£22,494	£10,625	£14,051	£4,829	£9,039	£7,972	£3,688
2015	£17,869	£6,411	£2,073	£2,823	£22,144	£7,180	£6,204	£22,422	£10,671	£13,953	£4,896	£9,194	£8,224	£3,684
2016	£17,279	£6,464	£2,060	£2,858	£22,952	£7,367	£6,430	£22,861	£10,840	£14,043	£4,918	£9,475	£8,341	£3,719
GVA Change	Aberdeen and Aberdeenshire (RSA)	Ayrshire (RSA)	Borders (RSA)	Dumfries & Galloway (RSA)	Edinburgh and Lothians (RSA)	Fife (RSA)	Forth Valley (RSA)	Glasgow (RSA)	Highlands and Islands (RSA)	Lanarkshire (RSA)	New - South of Scotland (RSA)	Tayside (RSA)	West (RSA)	West Lothian (RSA)
Change 06 - 07	9.8%	-3.8%	1.2%	0.0%	0.2%	2.1%	0.0%	-0.8%	0.4%	-1.9%	0.5%	1.3%	-1.2%	1.5%
Change 07 - 08	3.5%	0.3%	-0.1%	-1.4%	1.7%	0.4%	-2.2%	3.8%	2.3%	0.3%	-0.8%	-1.4%	1.9%	0.6%
Change 08 - 09	-3.1%	-4.7%	-5.6%	-0.4%	0.0%	-4.7%	-4.5%	-3.0%	-3.7%	-4.5%	-2.6%	-2.1%	-5.5%	-7.1%
Change 09 - 10	7.4%	2.2%	4.9%	4.1%	-1.6%	1.3%	2.2%	-1.9%	2.8%	0.4%	4.4%	2.7%	-0.3%	4.3%
Change 10-11	4.7%	1.5%	3.9%	2.0%	1.0%	0.5%	-4.3%	1.9%	5.6%	3.6%	2.8%	2.0%	1.6%	4.3%
Change 11-12	4.1%	-3.2%	-3.9%	-4.4%	0.9%	-1.9%	1.5%	1.2%	-1.5%	-1.0%	-4.2%	-1.1%	-3.9%	-5.8%
Change 12-13	4.0%	0.1%	5.6%	3.2%	2.4%	6.8%	2.2%	2.3%	2.1%	3.0%	4.2%	4.9%	1.9%	-3.8%
Change 13-14	7.0%	7.2%	2.1%	5.7%	0.8%	2.2%	2.8%	5.4%	-0.9%	5.9%	4.2%	1.1%	5.0%	7.2%
Change 14-15	-5.2%	-0.6%	1.6%	1.2%	5.3%	3.5%	4.6%	-0.3%	0.4%	-0.7%	1.4%	1.7%	3.2%	-0.1%
Change 15-16	-3.3%	0.8%	-0.7%	1.2%	3.6%	2.6%	3.6%	2.0%	1.6%	0.6%	0.4%	3.0%	1.4%	0.9%
Average growth rate 2011 - 2016	1.3%	0.9%	1.0%	1.4%	2.6%	2.6%	2.9%	2.1%	0.3%	1.6%	1.2%	1.9%	1.5%	-0.3%

These full datasheets contain all data for RSA regions, City Deal regions and local authorities for the selected indicator. This may include time series data, indexes and percentages, as well as raw data. A note of the each data source is given at the bottom of each datasheet, along a description of the indicator, the time period reported, a link to the data source, and explanations for missing data, where appropriate.

d. Navigation

The Data Matrices are designed to be as user-friendly and navigable as possible. To return to the contents page or any of the four summary pages from the datasheets, there are links at the top of the page, above each of the four different geographies, which look as below. Similarly, there is a table title link on each indicator in the summary pages to take the user to the relevant datasheet.

[Return to Contents](#)

[Return to RSA Summary](#)

[Return to City Deal Summary](#)

[Return to LA Summary](#)

[Return to Growth Deal Summary](#)

Data Matrix Limitations

The Data Matrix does not automatically refresh and update data when new updates are available. In addition to the link to each indicator's data source, the table at the end of this user guide provides a list of indicators, sources, time series used in the matrix and an indicative date for the next update. It is by going to these sources that the user will find the most up-to-date data, once more recent data is published (at the time of launch all data presented is the most up-to-date available).

The user cannot run reports from the matrix. They can, however, copy and paste data or charts out of the matrix for use in their own documents. Once they have been pasted from the matrix, charts can still be altered by the user to suit their documents.

The user cannot select two geographies to compare against each other. In order to do this, visit the datasheet where the data for all geographies is given.