

Market Insight Release Notes 2022 - August



# **Table of Contents**

1.	Executive Summary	3
1.1	Target Audience	3
2.	Features	3
2.1	Decision Tree Performance Improvements	3
2.2	Drive Zone Wizard Improvements	
2.3	Point to Point Wizard Improvements	5
2.4	Extended DriveTime Calculation Options in a Map	5
2.5	New Date/DateTime Bandings on Cubes	
2.6	Expressions	
3.	Market Insight Orbit	10
3.1	Venn Diagram	
3.2	Number Tile Font Size	
3.3	Tile Improvements	
3.4	Dimension Filters	13
3.5	Predefined Filters	13
3.6	Referencing Audiences and URN files	14
3.7	Tile Filters	16
3.8	Zipped and Password Protected Audience Exports	17
3.9	Calculated Measures	17
3.10	Category Colours	18
3.11	Exports in Audiences	18
3.12	Orbit Usability	19
3.13	Save to PDF	20
3.14	Chart Percentages	21
3.15	Tables and Cubes	22
3.16	World Map	23
3.17	General	24
4.	Support	24



### 1. EXECUTIVE SUMMARY

This document outlines the Market Insight (MI) features that are scheduled to be released to production in August 2022.

The key functional areas affected by this release are:

- **Performance Improvements**: We've improved the efficiency and caching of some complex MI selections.
- Mapping Wizard Improvements: Records selected on maps use co-ordinates rather than shape files, giving a more accurate result. You can now choose to calculate drivetimes using the Bing Isochrone API.
- Updated Expressions: New functionality within Expressions.
- Various Improvements in Market Insight Orbit: Orbit is updated on a different schedule to Market Insight, but recent changes include Venn Diagrams, World Map and Tile Filters, a way to filter individual tiles.

# 1.1 Target Audience

This document is intended for all users of Market Insight.

### 2. FEATURES

This section outlines the new features and improvements to Market Insight.

### 2.1 Decision Tree Performance Improvements

The behavioural features created within the modelling environment make extensive use of cached variables and expressions, often nesting these several levels deep within selections. The long-standing mechanisms used within Market Insight for creating requests and evaluating the cache have been updated to cope with this.

These improvements benefit many areas of Market Insight but are particularly noticeable when using decision trees with behavioural features.



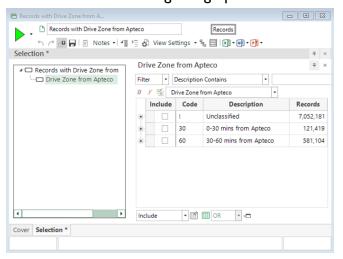
# 2.2 Drive Zone Wizard Improvements

Two improvements have been made to the Drive Zone wizard:

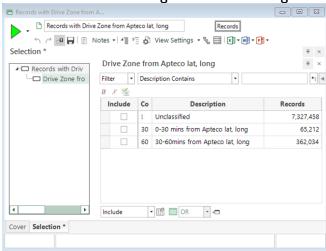
Zones can now be created using Latitude and Longitude variables for all 3 methods of calculating the zone size, resulting in better accuracy.

An option for using driving distance for creating the zones has been added.

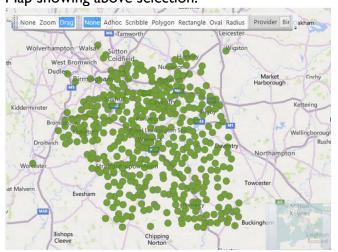
### Drive Zone Wizard using Geographic Variable.



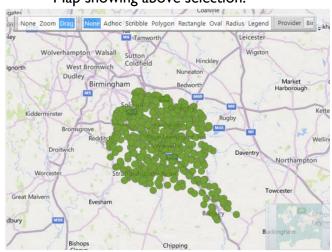
### Drive Zone Wizard using Latitude and Longitude.



# Map showing above selection.



# Map showing above selection.



As you can see using Latitude and Longitude is a lot more accurate for Drive Times. This is because using a Geographic Variable (UK Postcode Sector), gives sites from that postcode sector that are in 30 minutes, but also some records that are just outside the 30 minutes. This is because the postcode sector is reachable in 30 minutes, but not all of the postcode sector.



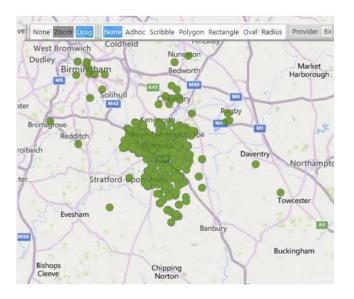
# 2.3 Point to Point Wizard Improvements

Two improvements have been made to the Point to Point wizard:

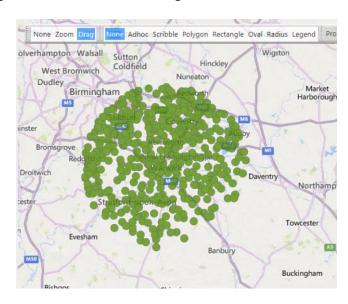
The straight line distance option has been changed so that you can specify Latitude and Longitude variables which are used to calculate the distance from the centre point to each location.

For all the existing and new options, you can specify a maximum value of drive time/drive distance/straight line distance, and only records within that area are categorised in the resulting virtual variable.

Using a Geographic Variable.



Using the new Latitude and Longitude.



# 2.4 Extended DriveTime Calculation Options in a Map

Drivetime capability in the Map tool has been extended so that you can choose to calculate drivetimes using the Bing Isochrone API. With no fixed number of endpoints, the new method can return more complex shapes and, consequently, more accurate results, often more quickly. Travel types also include options for walking and public transport.



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Eatington Gaydon Freston

Bidford Kineton

Eatington Middle Tysoe Checomber He

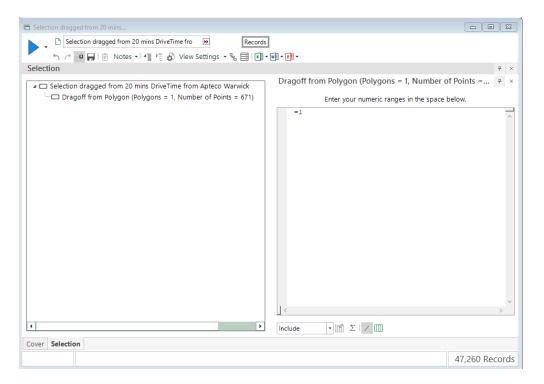
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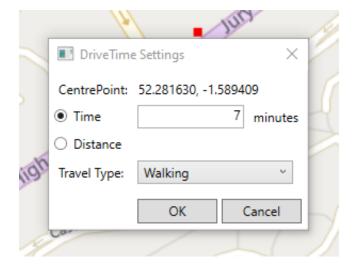
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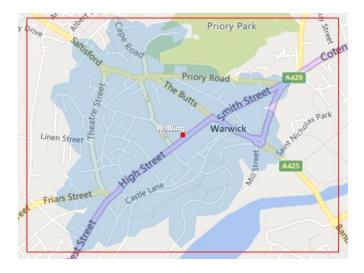


You can drag from the map to create a Market Insight selection of the records identified by your isochrone drivetime calculation. This will generate a selection on an expression containing all the vertices of the precise drivetime shape. Consequently, the selection may evaluate more slowly than the simpler shapes generated by the previous (Routes API) method.



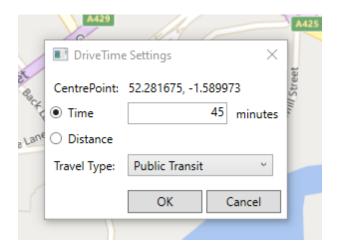
# Walking







### Public Transport





# 2.5 New Date/DateTime Bandings on Cubes

When creating cube dimensions using a date or datetime variable, there are four new banding options available via the right-click context menu. You can use Day of Month with both variable types, whilst Hour and Minute, Minute of Hour and Second of Minute are for use in datetime analysis.



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# 2.6 Expressions

### New Expression Function

The VarCountsInfoFind system function returns the index of the code or description to find for the given variable.

The UK postcode expression functions now uses an ONS data feed which provides an improved and more up-to-date postcode list.

The following expression functions have also been added:

### **Derived Cube Functions**

DatePeriodCubeRange([cube\$0], "measure", "dimension", period)

Enables you to refer to measures in a part of a cube with a date dimension. The period can be "days", "weeks", "months", "quarters", or "years".

CubeCellIndexFromHeader([cube\$0],"dimension","matchvalue"[,"code|desc"])

Enables you to find the index to a specific dimension value ensuring your cube expressions remain valid even if the number or sequence of categories in the dimension changes in the future.

### **Set Functions**

The IsSubset and IsSuperset functions – now support an optional parameter to specify 'proper' subset/superset. A proper subset is a set that contains some but not all the items in the set it is compared with, and similar for a proper superset.

**Selector Functions** 

We have introduced two new functions for operating on flag array selector variables:

NthSelectedFlag – which returns the description of the Nth selected flag in a flag array.

NthIndexSelectedFlag - which returns the index of the Nth selected flag in a flag array.

### System Functions

VarCountsInfoNth – natural order for VarCodes; now allows the expression to pull out information from the VarCodes for a variable in the order they appear in the variable.

# On-the-fly aggregation Expressions

The Category Grouping type of on-the-fly aggregations has two new 'return' functions:

Return Group Results

Which means the on-the-fly aggregation returns result for the group on every transaction record.

### Select Nth by order

Used when a group is formed by an ordinal variable, and you wish to return a specific one value in that ordered sequence.

Running/rolling aggregations now also support a rolling time window allowing you, for example, to determine the highest amount spent by a customer in any 12-month period.



Introduction of Regular Expressions with new String expression functions

Regular expressions (Regex) and five new string functions complement and bring additional power to existing FastStats sting capability when creating string selections.

Add Date/DateTime expressions as a Cube dimension

You can now drag and drop a date or datetime expression directly onto a cube as a dimension without first needing to create a virtual variable. You can then band the expression using any of the right-click options available for date and datetime variables and use the new dimension type in all the same ways as a banded date or datetime variable.

New Date and Time Expression functions Two new Date functions are available: IsWeekday IsWeekend

The Date Conversion function - FormatDate - can support time elements, such as hour/minute/second, when converting a DateTime variable to its string representation.



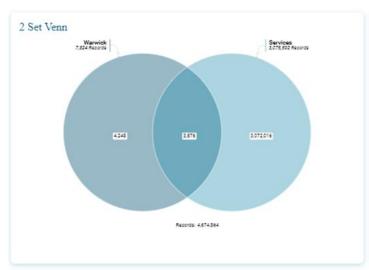
# 3. MARKET INSIGHT ORBIT

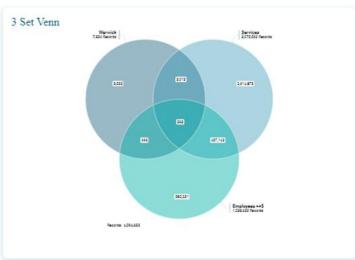
We have released 28 updates (versions 1.10.11 to 1.10.39) to Orbit since the last release of the Apteco Software. We have also dedicated two sprints to address bug fixes.

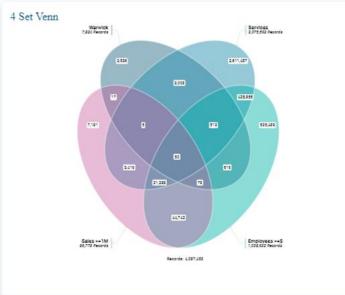
# 3.1 Venn Diagram

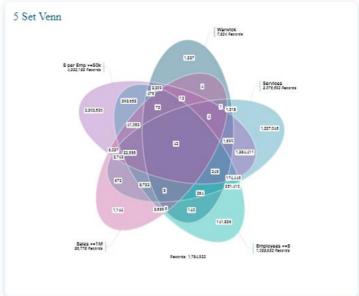
One of the most eye-catching additions to Orbit over the last few months has been the introduction of Venn diagrams within Orbit Dashboards.

You can define up to 5 sets and up to 2 measures in a single Venn diagram tile. A dashboard can contain multiple Venn diagram Tiles.





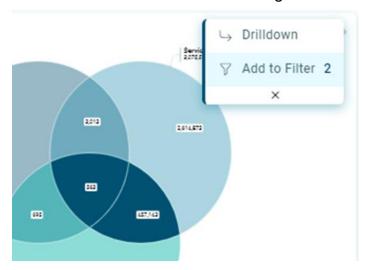




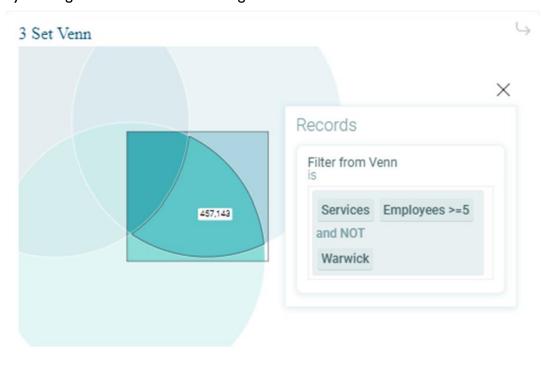
Publish date: August 2022



You can filter and drilldown into each segment of the diagram.



You can also zoom in to see the numeric measure results more clearly and see the rule behind each segment by clicking on the number in the diagram.





### 3.2 Number Tile Font Size

You can now set the font size on number tiles. This makes it easier to achieve a more consistent presentation on a dashboard that includes numeric values of different scales.



# 3.3 Tile Improvements

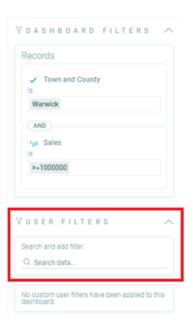
Dashboard editors now have more control over the size and placement of dashboard tiles. The grid system has a higher density and the dragging mechanism feedback is improved, most notably when scrolling around the page. These improvements allow smaller tiles combined with font size settings for number cards for more compact and consistent display.



### 3.4 Dimension Filters

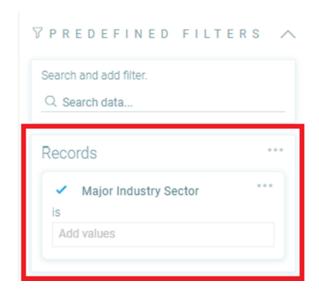
An administrator can now turn on "Dimension Filters" via the Application Settings to allow users to create additional filters directly on the filter panel on the right of a Dashboard.

This allows more power and flexibility when adding filters to their dashboard as the user can search for and filter by any variables in the system (except Reference variables), or reference existing Audiences and URN files.



### 3.5 Predefined Filters

You can now predefine which data variables are available as filters for users when exploring the dashboard.

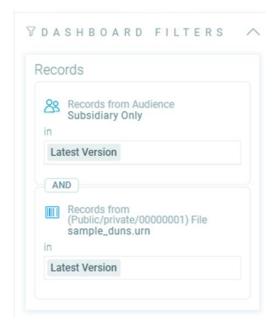


When exploring the dashboard, you are presented with criteria panels to optionally add values for each predefined filter. Giving the user direct access to these variables in this manner can assist non-technical users to make easy and appropriate choices on how to filter a dashboard without needing to present each of these variables on a tile. As with all user filters, by using these pre-defined filter panels, all dashboard tiles can be updated with the applied filter criteria.

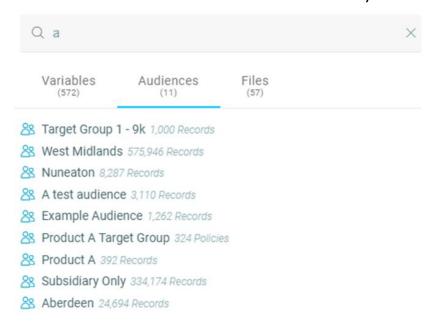


# 3.6 Referencing Audiences and URN files

You can now build audiences and dashboard filters using other audiences already created within Orbit. You can also reference URN files created in Market Insight or uploaded from external sources to Market Insight.



When editing a dashboard filter or Audience, you can now use the new Audiences tab in the system search dialogue box to search for other audiences you can access. You can then choose whether you want to include or exclude the records from that Audience in your current filter.





Any audience you reference will become read-only by default so that it isn't edited by accident. Such an audience with dependants can be explicitly unlocked by a user who may then change the audience, which will then feed through into all the places where it is used.

You can also use the Files tab to search or browse for URN files.



Again, if the underlying URN file is modified then the next time any dashboards or audiences are evaluated the changes will be reflected in the filter.

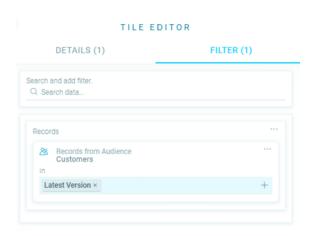


### 3.7 Tile Filters

Orbit now allows you to specify additional filter criteria on each tile of a dashboard to control the subset of data displayed in that tile. This improvement significantly enhances the power and flexibility of dashboards. In the example below, the dashboard has been designed to show Customer V's Prospect data. On the left the tiles are filtered to show Customer data and on the right to show Prospect data.



### The tile filter for Customer tiles.



The tile filter for Prospect tiles.

DETAILS (1)	FILTER (1)
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Records	
Records from Audience Customers not in	
Latest Version ×	+

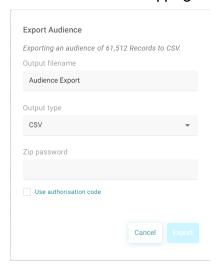


Each dashboard tile can now have its own filter. This allows the dashboard editor to define specific filters on a tile that work in conjunction with the other dashboard and user filters, enabling a tile to show a subset of the data on the whole dashboard.

Results with different subsets displayed side by side in a dashboard can be shared with stakeholders, clearly displaying a comparison, for example, of product and response characteristics before and after a campaign, or differences across regions, or value differences between customer types, etc.

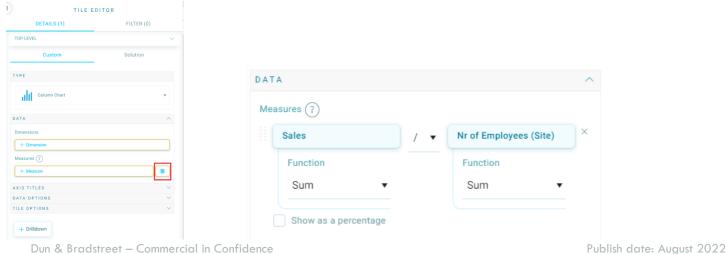
#### 3.8 Zipped and Password Protected Audience Exports

You can now enable zipping and password protecting of exported files downloaded from the browser.



#### 3.9 Calculated Measures

Calculated measures in Apteco Orbit Dashboards allows you to easily calculate marketing outcomes. Now you can simply add, subtract, multiply or divide data variables and/or full counts of system tables together to present key marketing metrics as ratios.

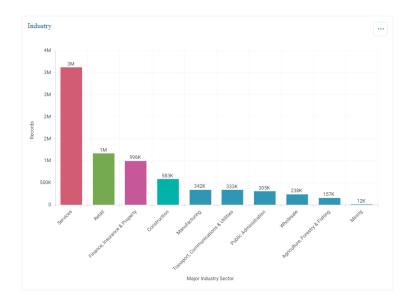


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# 3.10 Category Colours

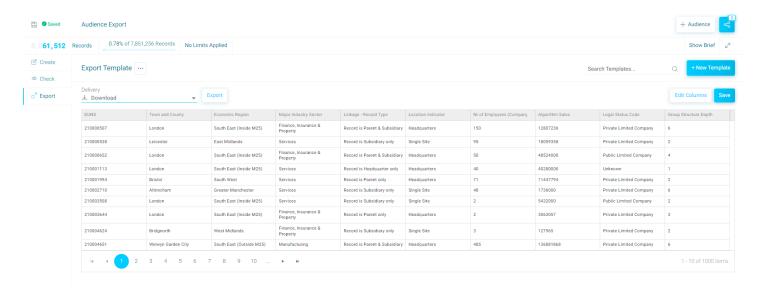
The Category Colours mechanism in Apteco Orbit dashboards allows you to set specific colours for brands, products, regions or any other selector category you like.



Colours are allocated to selector variable categories per Market Insight system in a Data View. You can search for a variable or a specific category in the category colours section.

# 3.11 Exports in Audiences

Added the ability to filter a user's export templates



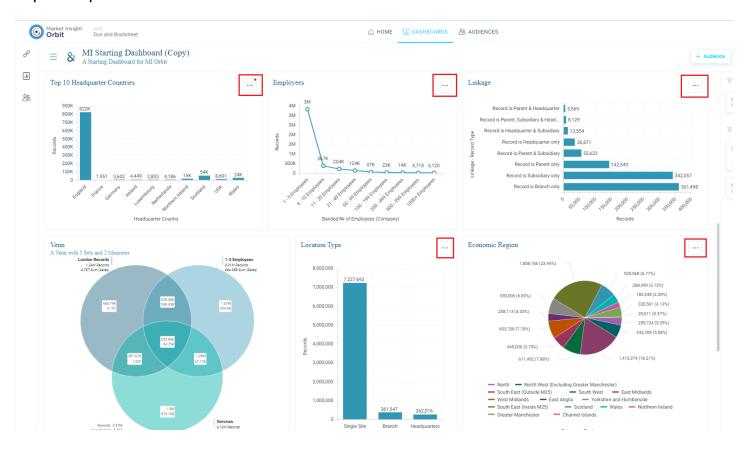


Exporting an audience has been improved to allow users to add columns to the export template on the fly. Users can now save and re-use templates for future exports. When re-visiting an Audience, the last used template for that Audience is automatically loaded.

# 3.12 Orbit Usability

### Tile Layout Improvements

Improvements have been made to the Dashboard tile layout. Tile options are now consolidated under a single ellipses drop down button.

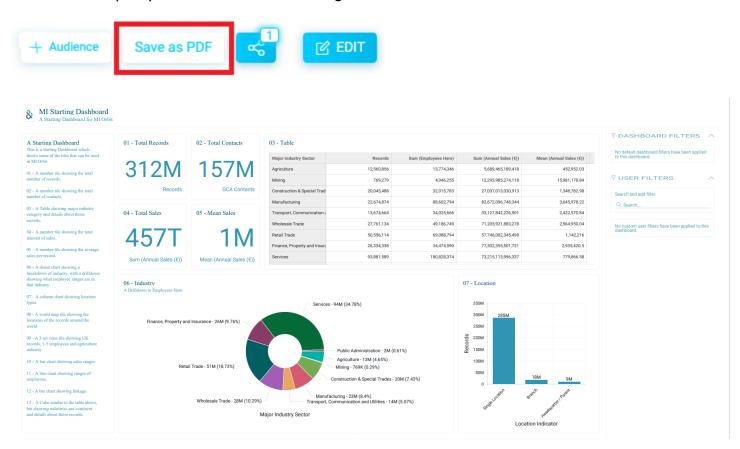


These changes unclutter the Dashboard Tile User Interface (UI), opening up more space for visualisations and improving the user journey by organising tile options within a single accessible and navigable menu.



### 3.13 Save to PDF

You can now export your Dashboard to PDF using the save as PDF button.

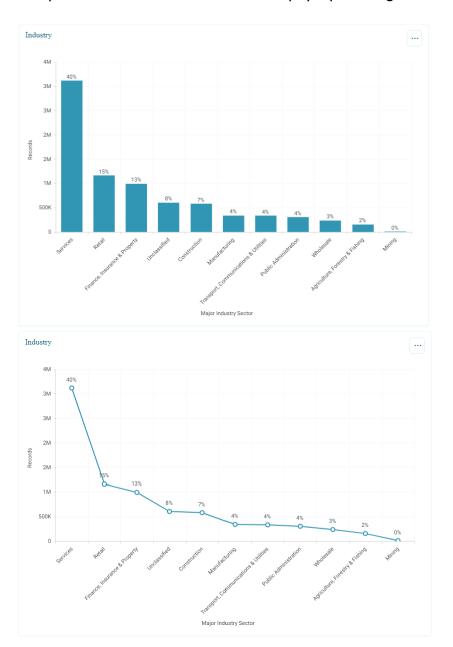


This function allows you to visualise your Dashboard in another format which you can save locally, print, and distribute once created. This approach allows you to provide a filtered view to a manager, or other user, that you do not want them to filter themselves.



# 3.14 Chart Percentages

Compatible dashboard charts can now display a percentage above the main chart category bars.



Previously, only values could be displayed by dashboard charts. Now, by choosing 'Show values as percentages', from the data label settings, you can display percentages for greater insight on the proportional distribution of category results.



#### 3.15 Tables and Cubes

One dimensional Tables and two dimensional Cube tiles can be added to a Dashboard.

#### **Tables**

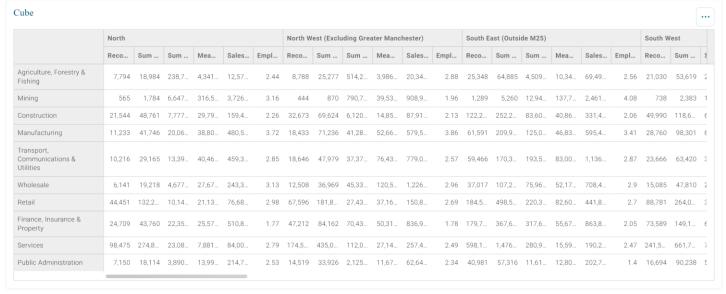


Major Industry Sector	Records	Sum (Nr of Employees (Site))	Sum (Sales)	Mean (Sales)	Sales per Employee	Employees per Record
Agriculture, Forestry & Fishing	156,870	457,784	30,706,762,681	13,989,413.52	67,076.97	2.93
Mining	12,081	42,031	357,225,245,562	390,410,104.44	8,499,089.85	3.48
Construction	583,033	1,232,942	256,925,914,320	26,459,929.38	208,384.43	2.11
Manufacturing	342,066	1,182,678	903,779,654,117	63,391,993.7	764,180.66	3.46
Transport, Communications & Utilities	333,397	836,724	916,529,052,811	75,664,909.83	1,095,377.99	2.5
Wholesale	237,866	629,215	750,328,165,830	97,839,114.07	1,192,482.96	2.65
Retail	1,161,209	2,981,619	855,628,002,408	57,114,211.5	286,967.58	2.5
Finance, Insurance & Property	995,594	1,958,948	4,833,655,875,753	125,101,088.97	2,467,475.34	1.9
Services	3,117,090	7,782,654	2,400,983,064,771	23,897,274.48	308,504.41	2.
Public Administration	305,063	501,932	157,763,632,703	25,363,928.09	314,312.76	1.6

#### Cubes

Multi Dimension Charts



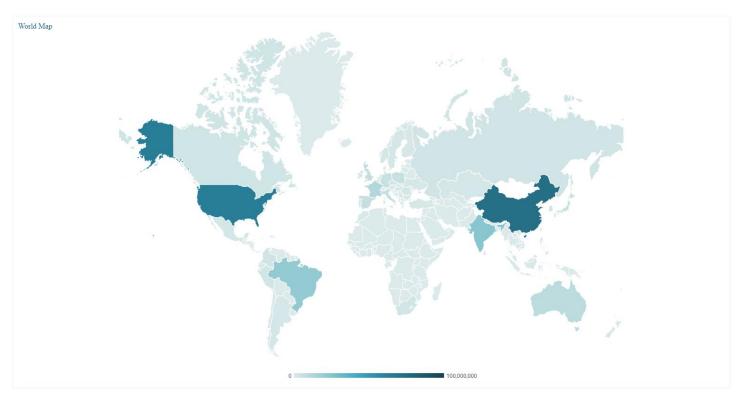




# 3.16 World Map

A world map has now been added and saved to the Dashboard maps area supporting ISO 3166 Alpha 2 encoding, with selections and map shapes displaying colours where records are present.







### 3.17 General

#### Orbit Feature

- Default measures are now inserted for a Venn diagram tile
- Dashboard filters are collapsible, and we've made it easier to see which are editable
- Dashboard map shapes are now stored in the database as part of our work to allow administrators to upload and manage map shapes in the future
- The Orbit updater now checks pre-requisites, particularly for .NET 6 which we have adopted for improved security and general performance
- Email Broadcasters and other channel types in the campaign overview have been recategorised
- The data view name is now displayed in the browser tab title
- Links now take German users directly to the German help
- Made the position of the share button consistent
- Made small improvements to the Logout behavior when using SSO
- Made some small consistency improvements
- Better management of Orbit deployed files during an update
- Orbit API logs can be downloaded through Orbit for support requests
- Orbit API Configurator can be launched from the Orbit Updater Configurator
- Download logs feature can be disabled via the Orbit Configurator

### 4. SUPPORT

Should you have any questions or need assistance, please contact the <u>UKCS@DNB.com</u> team or by contacting your Customer Experience Representative.

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