

VTS Reporting Solution

September 18, 2017



Current Reporting Challenges

Reports not available before 9 AM

- Database restore and indexes takes a lot of time

Financial Reconciliation

- Difficulties in identifying problem bill; manual work

Report Timeout

- Difficulty in processing large amount of data

Duplicate Reports

- Exploring various reports to find required information

No User Consumable Query Tool

- Need vendor assistance

No Dashboard – KPIs

- Reports do not provide data for KPIs in one place

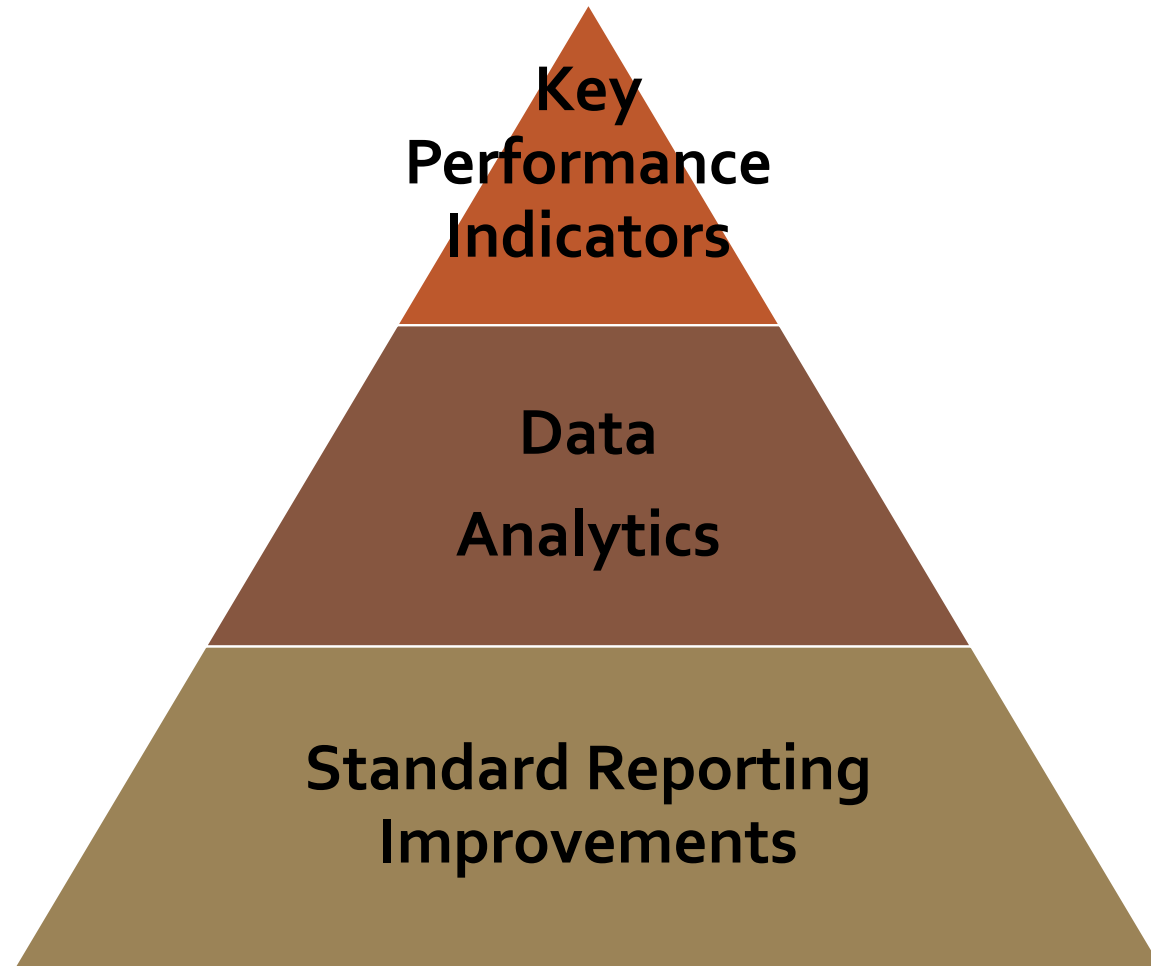
No Health Checker

- No alert or notifications if something went wrong

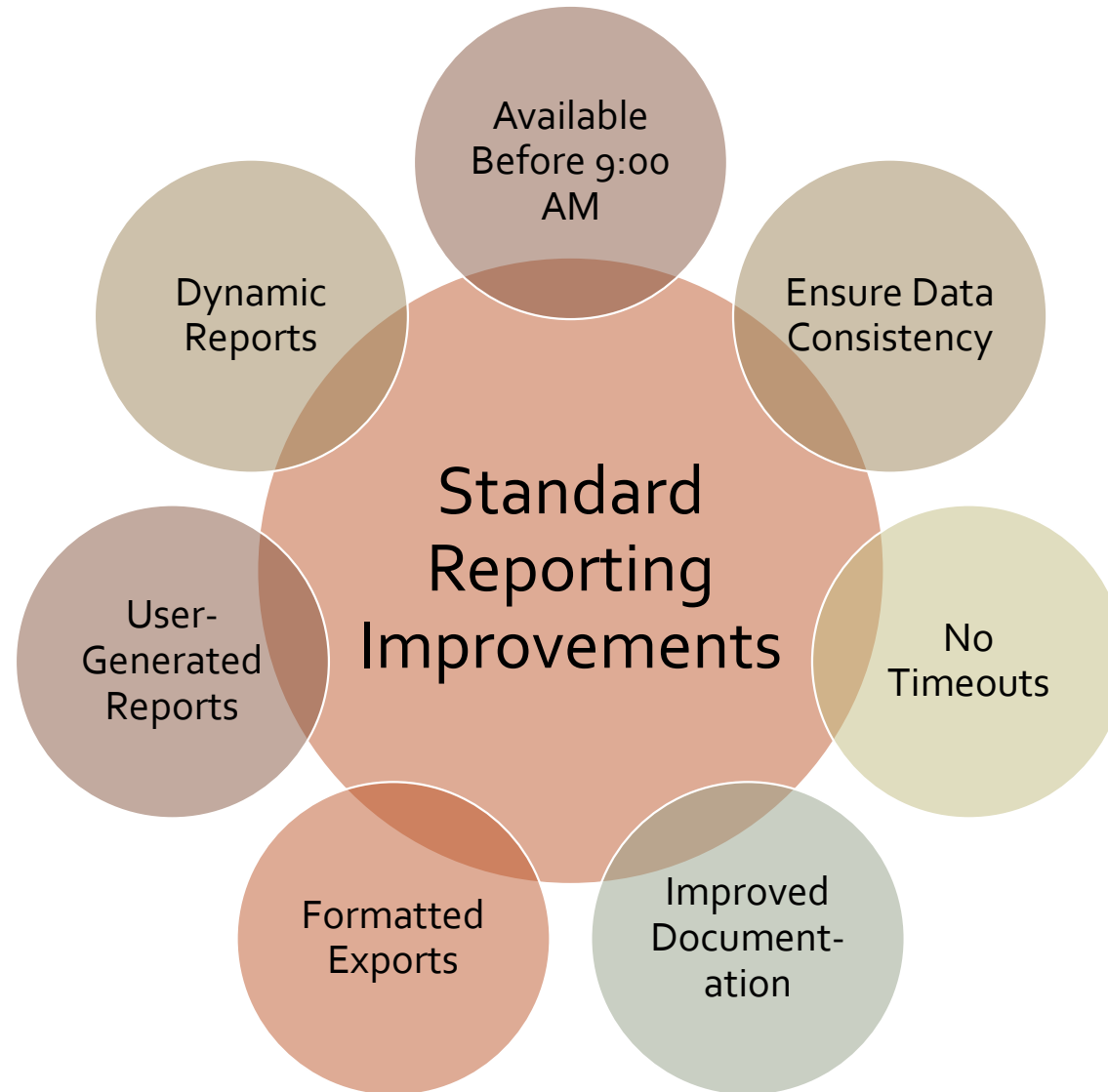
New
Reporting
Potential



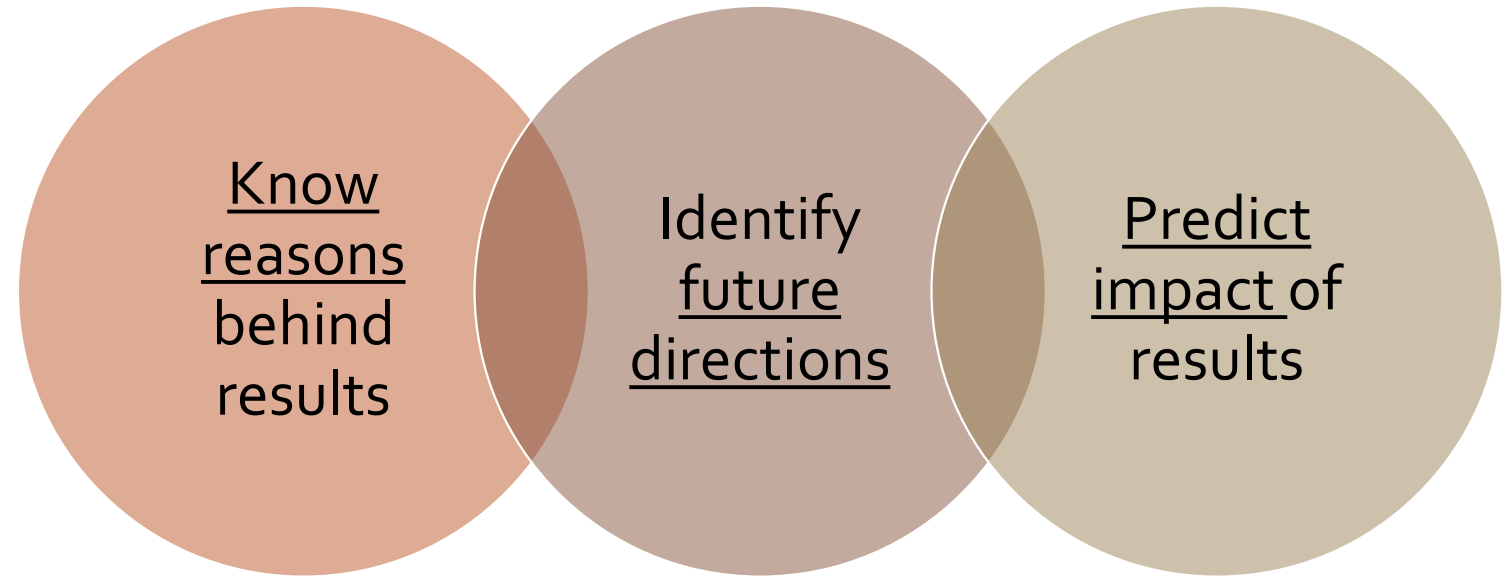
New
Reporting
Solution



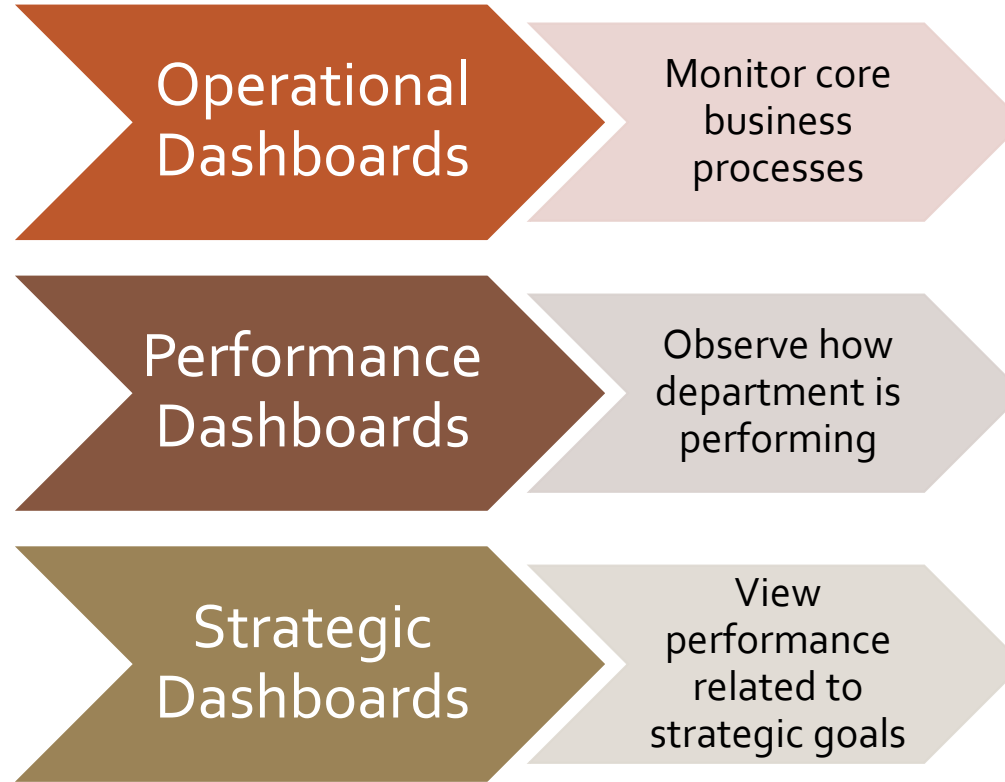
Standard Reporting Solution



Data Analytics Solution



KPIs Solution



Reporting Solution Preview



Business Dashboard

The screenshot shows a web browser window with the following elements:

- Address Bar:** http://ptsdev04/Reports_MSSQLSERVER2016/browse/E
- Page Title:** North Carolina VTS Reporting Services
- Navigation:** Home > Business Dashboards
- KPIS (4):**
 - Number of Items in Queues: 1,722
 - Today's Total Collections: \$353,023.54
 - Total Collections This Month: \$9.82M
 - Analytics
- MOBILE REPORTS (4):**
 - Assessed Value Report
 - Collection Comparison Report
 - Daily Finance Report
 - Net Collections Report
- PAGINATED REPORTS (1):**
 - DailyFinance
- DATASETS (3):**
 - AssessedValueByPlateExpirationDate
 - County_Net_Collection_Dataset
 - Monthly_Finance_Dataset

The Windows taskbar at the bottom shows the time as 3:02 PM on 9/12/2017, with various application icons including Outlook, Word, Excel, PowerPoint, and Internet Explorer.

KPIs

The screenshot shows a web browser window displaying a dashboard for 'North Carolina VTS Reporting Services'. The browser's address bar shows the URL 'http://ptsdev04/Reports_MSSQLSERVER2016/browse/E'. The dashboard is organized into several sections:

- Business Dashboards:** The main header area.
- KPIs (4):** A section containing four key performance indicator cards. The first card, 'Number of Items in Queues', is highlighted with a green background and shows a value of 1,722. A small line chart to the right of the number shows a peak followed by a decline. Other cards include 'Today's Total Collection' with a value of \$353,023.1.
- MOBILE REPORTS (4):** A section with two report cards: 'Assessed Value Report' and 'Collection Comparison'.
- PAGINATED REPORTS (1):** A section with one report card: 'DailyFinance'.
- DATASETS (3):** A section with three dataset cards: 'AssessedValueByPlateExpirationDate', 'County_Net_Collection', and 'Monthly_Finance_Dataset'.

A modal window is open over the 'Number of Items in Queues' KPI card. The modal has a green header with the title 'Number of Items in Queues' and a close button. The main content of the modal displays the value '1,722' in large white text, with the same line chart below it. Below the chart, it shows the user who changed the value: 'Changed by IIS-RTP\AshishN on 9/6/2017 8:22 AM' and the creator: 'Created by IIS-RTP\AshishN on 4/26/2017 10:14 AM'. At the bottom of the modal, there are options to 'ADD TO FAVORITES' and 'MANAGE'. A 'Related content' section at the bottom of the modal shows a thumbnail of the 'Assessed Value Report'.

The Windows taskbar at the bottom of the screen shows the time as 3:03 PM on 9/12/2017. The taskbar includes icons for the Start menu, Outlook, Word, Excel, PowerPoint, Edge, File Explorer, and other applications.

KPIs

The screenshot shows a web browser window with the URL `http://ptsdev04/Reports_MSSQLSERVER2016/browse/E`. The page title is "North Carolina VTS Reporting Services". The dashboard is organized into several sections:

- KPIS (4):** Includes "Number of Items in Queues" (1,722) and "Today's Total Collections" (\$353,023.54).
- MOBILE REPORTS (4):** Includes "Assessed Value Report" and "Collection Comparison".
- PAGINATED REPORTS (1):** Includes "DailyFinance".
- DATASETS (3):** Includes "AssessedValueByPlateExpirationDatet", "County_Net_Coasset", and "Monthly_Finance_Dataset".

A modal window titled "Today's Total Collections" is overlaid on the dashboard, displaying the value **\$353,023.54**. Below the value, it shows the user "IIS-RTP\AshishN" and the date "9/6/2017 8:23 AM". It also includes options to "ADD TO FAVORITES" and "MANAGE".

The Windows taskbar at the bottom shows the system tray with the time "3:03 PM" and date "9/12/2017".

KPIs

North Carolina VTS Reporting Services

Business Dashboards

Home > Business Dashboards

KPIs (4)

- Number of Items in Queues: 1,722
- Today's Total Collections: \$353,023.3

MOBILE REPORTS (4)

- Assessed Value Report
- Collection Comparison

PAGINATED REPORTS (1)

- DailyFinance

DATASETS (3)

- AssessedValueByPlateExpirationDate
- County_Net_Collections
- Monthly_Finance_Dataset

Total Collections This Month \$9.82M

Changed by IIS-RTP\AshishN on 8/29/2017 3:17 PM
Created by IIS-RTP\AshishN on 4/24/2017 1:48 PM

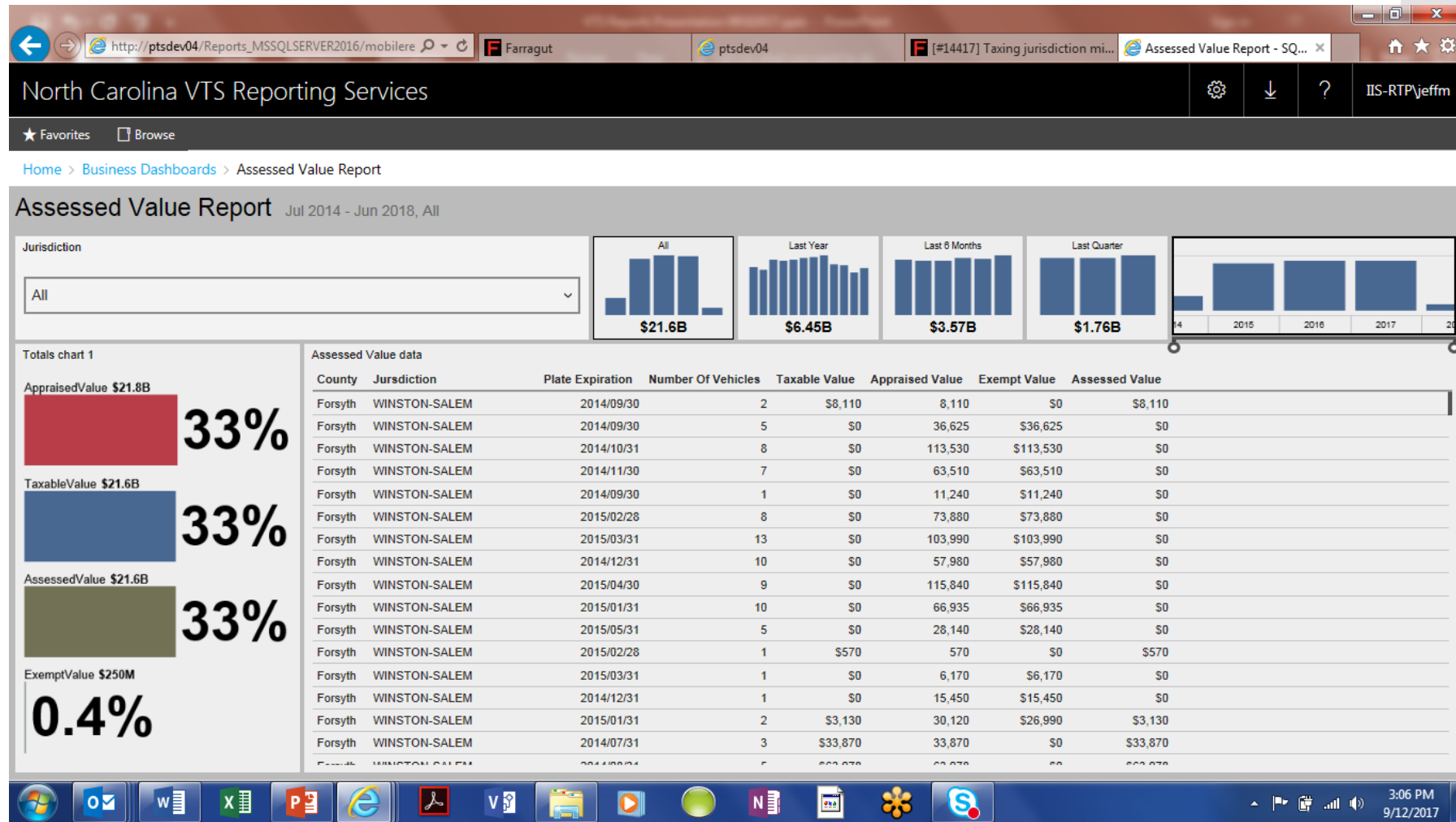
☆ ADD TO FAVORITES MANAGE

Related content

- Net Collections Report

Windows Taskbar: 3:05 PM 9/12/2017

Dynamic Reports



Dynamic Reports


North Carolina VTS Reporting Services

Home > Business Dashboards > Net Collections Report


Net Collections Report

Collections Vs Billed

collection amt **\$359M**



vehicle adj **\$2.22M**



Billed amt **\$361M**

Total Collection

\$358,710,378

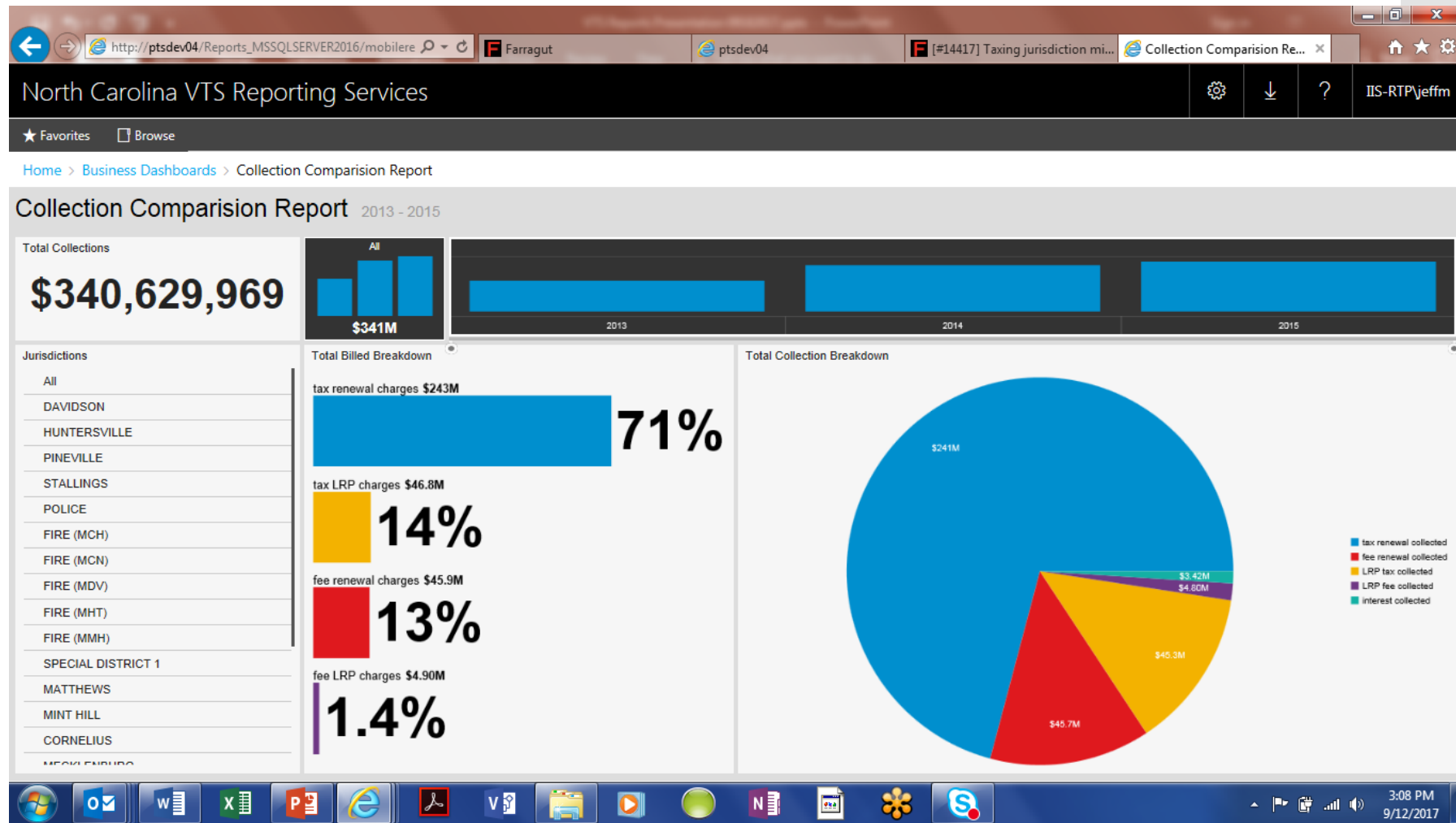
Taxing Jurisdiction

Year For

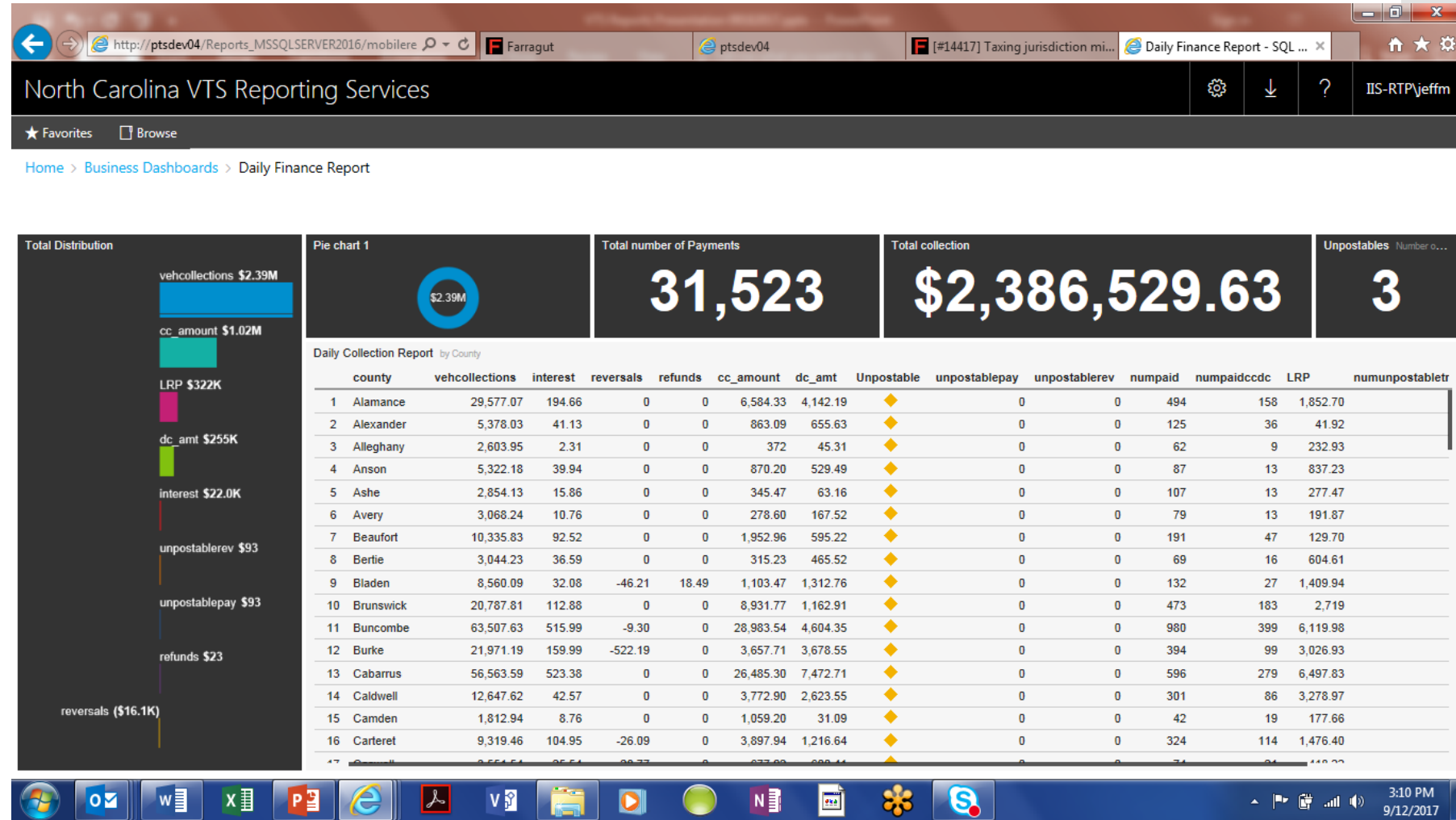
Report Details

	Year For	Jurisdiction	Levy Type	Billed Amt	Adjustments	Releases	Collection Amt	Additionalbills	Unpaid Balance	Num BillsPaid
1	2,015	CHARLOTTE	Tax	\$32,542,675	\$351,849	\$49	\$32,190,616	\$0	\$0	560,971
2	2,014	CHARLOTTE	Tax	\$29,988,821	\$280,868	\$0	\$29,707,839	\$0	\$0	557,342
3	2,013	CHARLOTTE	Tax	\$26,327,468	\$86,948	\$0	\$26,240,517	\$0	\$0	519,619
4	2,015	CHARLOTTE	Vehicle Fee	\$16,527,210	\$55,200	\$0	\$16,471,980	\$0	\$0	549,066
5	2,014	CHARLOTTE	Vehicle Fee	\$16,375,890	\$44,580	\$0	\$16,331,250	\$0	\$0	544,375
6	2,013	CHARLOTTE	Vehicle Fee	\$15,183,060	\$8,070	\$0	\$15,174,990	\$0	\$0	505,833
7	2,015	FIRE (MCH)	Tax	\$251,460	\$739	\$0	\$250,722	\$0	\$0	35,485
8	2,014	FIRE (MCH)	Tax	\$219,476	\$428	\$0	\$219,048	\$0	\$0	33,434
9	2,013	FIRE (MCH)	Tax	\$190,690	\$271	\$0	\$190,418	\$0	\$0	30,872
10	2,015	FIRE (MCH)	Vehicle Fee	\$0	\$0	\$0	\$0	\$0	\$0	0
11	2,014	FIRE (MCH)	Vehicle Fee	\$0	\$0	\$0	\$0	\$0	\$0	0
12	2,013	FIRE (MCH)	Vehicle Fee	\$0	\$0	\$0	\$0	\$0	\$0	0
13	2,015	CORNELIUS	Tax	\$903,986	\$2,216	\$0	\$901,770	\$0	\$0	24,603
14	2,014	CORNELIUS	Tax	\$819,733	\$1,564	\$0	\$818,170	\$0	\$0	23,728
15	2,013	CORNELIUS	Tax	\$717,423	\$351	\$0	\$717,068	\$0	\$0	22,119
16	2,015	CORNELIUS	Vehicle Fee	\$235,210	\$110	\$0	\$235,100	\$0	\$0	23,510
17	2,014	CORNELIUS	Vehicle Fee	\$225,730	\$100	\$0	\$225,630	\$0	\$0	22,500

Dynamic Reports



Dynamic Reports



Standard Reports

North Carolina VTS Reporting Services

Home > Business Dashboards > DailyFinance

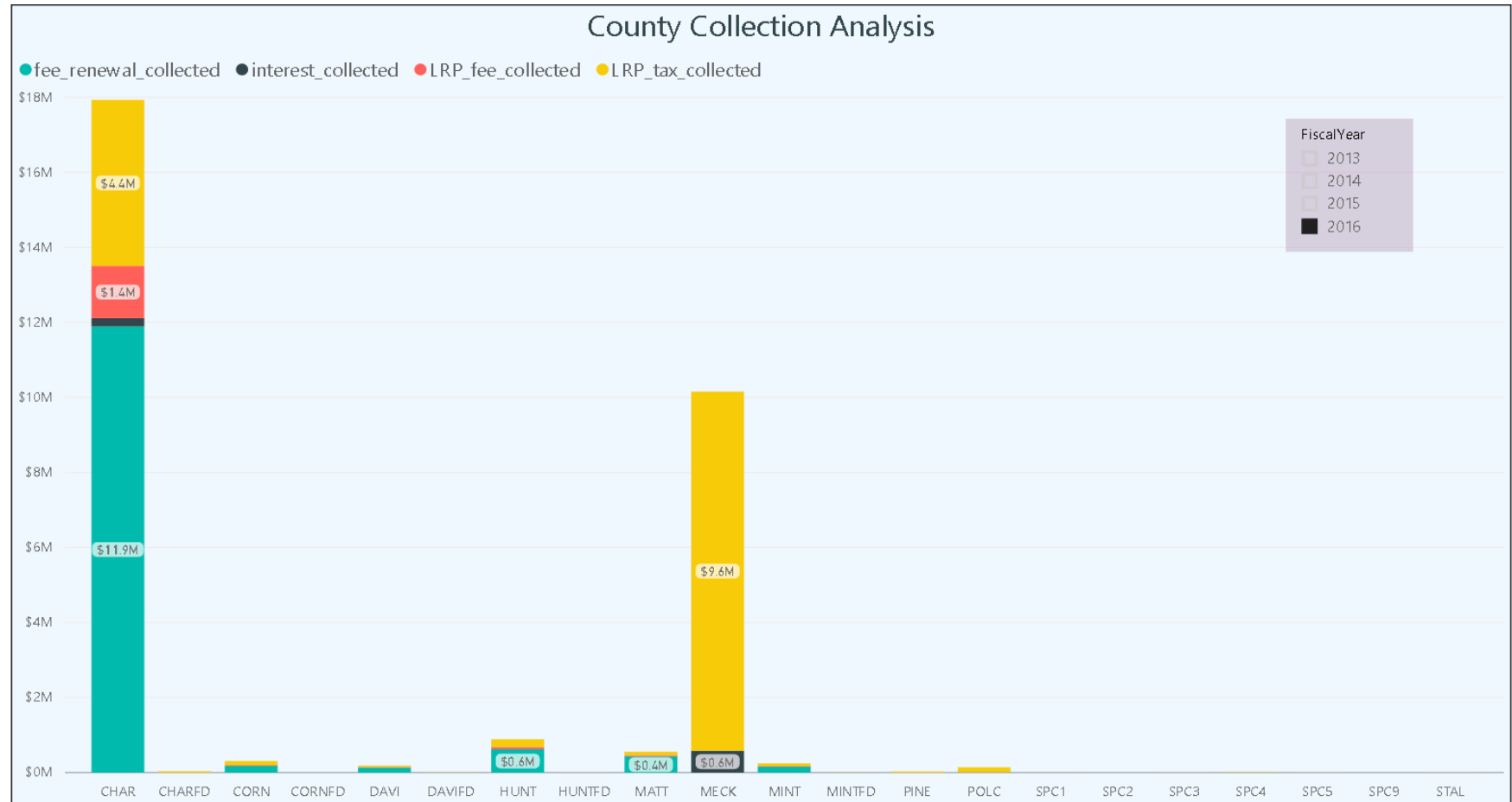
Finance Date:

1 of 2? 100% Find | Next

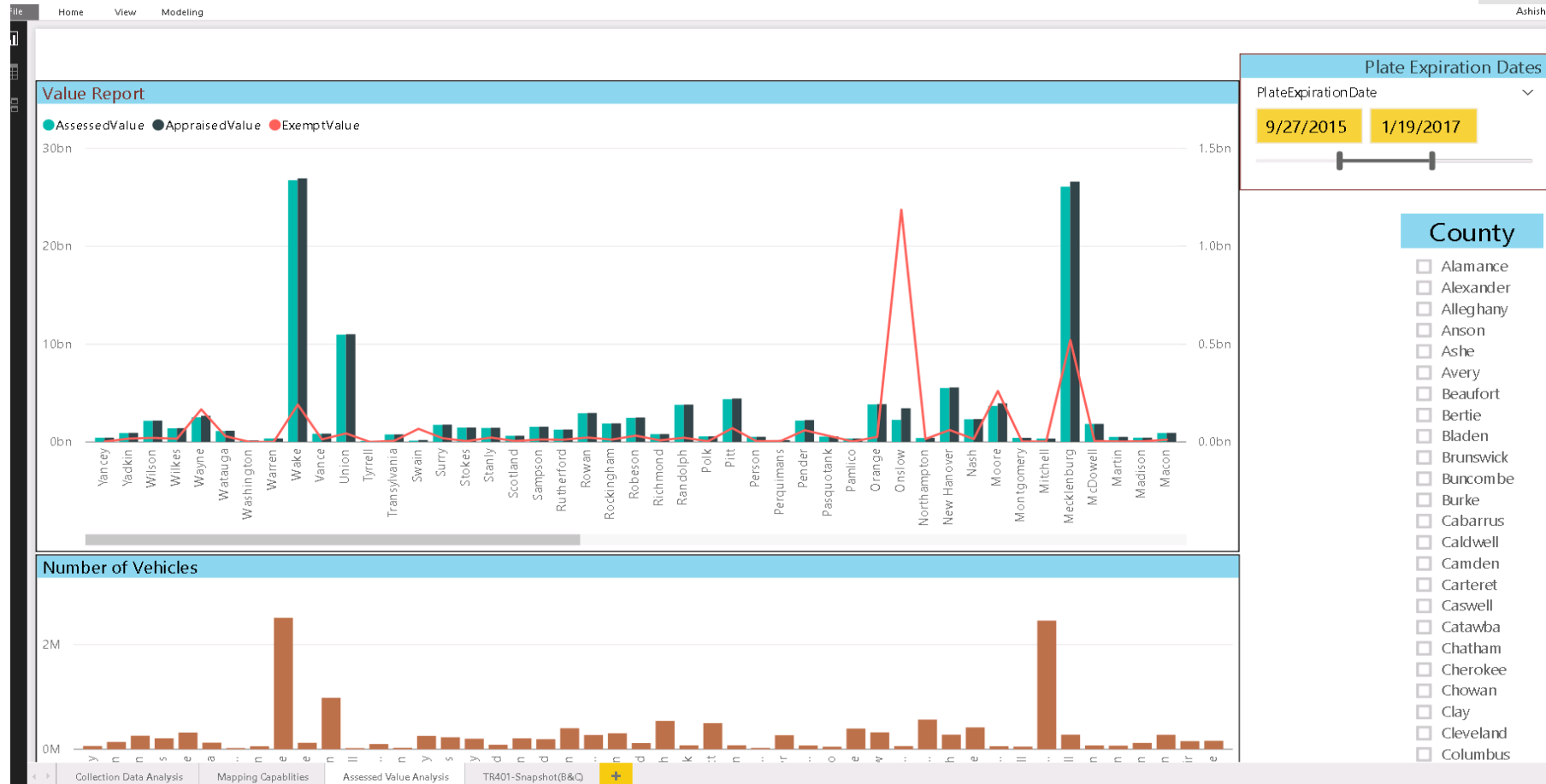
Daily Finance Report 9/12/2017 12:00:00 AM

County Name	Vehicle Coll	Interest	Reversals	Refunds	Credit Card amount	Debit Card	Number Bills Paid	LRP
Alamance	\$29,577.07	\$194.66	\$0.00	\$0.00	\$6,584.33	\$4,142.19	494	\$1,852.70
Alexander	\$5,378.03	\$41.13	\$0.00	\$0.00	\$863.09	\$655.63	125	\$41.92
Alleghany	\$2,603.95	\$2.31	\$0.00	\$0.00	\$372.00	\$45.31	62	\$232.93
Anson	\$5,322.18	\$39.94	\$0.00	\$0.00	\$870.20	\$529.49	87	\$837.23
Ashe	\$2,854.13	\$15.86	\$0.00	\$0.00	\$345.47	\$63.16	107	\$277.47
Avery	\$3,068.24	\$10.76	\$0.00	\$0.00	\$278.60	\$167.52	79	\$191.87
Beaufort	\$10,335.83	\$92.52	\$0.00	\$0.00	\$1,952.96	\$595.22	191	\$129.70
Bertie	\$3,044.23	\$36.59	\$0.00	\$0.00	\$315.23	\$465.52	69	\$604.61
Bladen	\$8,560.09	\$32.08	(\$46.21)	\$18.49	\$1,103.47	\$1,312.76	132	\$1,409.94
Brunswick	\$20,787.81	\$112.88	\$0.00	\$0.00	\$8,931.77	\$1,162.91	473	\$2,719.00
Buncombe	\$63,507.63	\$515.99	(\$9.30)	\$0.00	\$28,983.54	\$4,604.35	980	\$6,119.98
Burke	\$21,971.19	\$159.99	(\$522.19)	\$0.00	\$3,657.71	\$3,678.55	394	\$3,026.93
Cabarrus	\$56,563.59	\$523.38	\$0.00	\$0.00	\$26,485.30	\$7,472.71	596	\$6,497.83
Caldwell	\$12,647.62	\$42.57	\$0.00	\$0.00	\$3,772.90	\$2,623.55	301	\$3,278.97
Camden	\$1,812.94	\$8.76	\$0.00	\$0.00	\$1,059.20	\$31.09	42	\$177.66
Carteret	\$9,319.46	\$104.95	(\$26.09)	\$0.00	\$3,897.94	\$1,216.64	324	\$1,476.40
			(\$28.77)	\$0.00	\$677.92	\$600.41	74	\$418.22

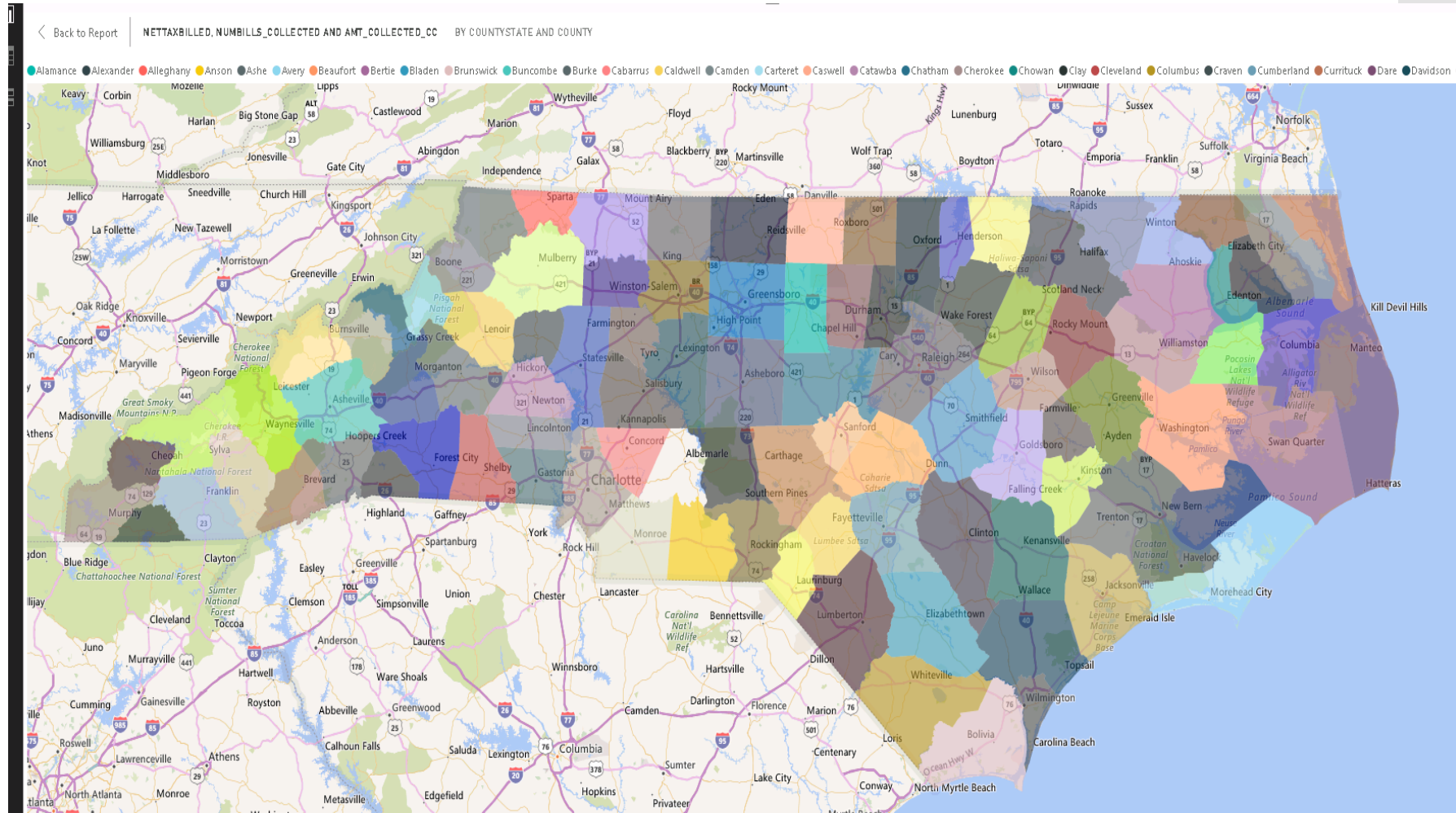
Data Analytics



Data Analytics



Data Analytics



User-Generated Reports

SQL Server Mobile Report Publisher

5 Grid rows 10 Grid columns

New Mobile Report

Number 1

31,490,208.00

Category chart 1

Category	Value (Approximate)
Category A	\$110M
Category B	\$85M
Category C	\$45M
Category D	\$65M
Category E	\$25M

Category chart 1 Visual properties

Title:	Category chart 1	Accent:	Off	Data points sorting:	None	Adjust Y range to values:	Off	Series visualization:	Stacked bars	Show legend:	Off
Subtitle:		Drillthrough target:	Drillthrough target...	Number format:	Abbreviated currency	Independent axis annotations:	No	Chart orientation:	Vertical		

Layout Data Settings Preview

75% 7,530

Half-donut Thermometer

Charts

- Time chart
- Category chart
- Totals chart
- Comparison time chart
- Comparison category chart
- Comparison totals chart
- Waterfall chart
- Pie chart
- Funnel chart
- Tree map
- Maps
- Gradient heat map
- Range stop heat map
- Bubble map

Data grids

id	value	Date	value	Date	value
+1.2012	4,824.20	Jan 1, 2012	4,824.20	Jan 1, 2012	4,824.20
+1.2012	7,861.97	Jan 1, 2012	7,861.97	Jan 1, 2012	7,861.97
+1.2012	6,751.94	Jan 1, 2012	6,751.94	Jan 1, 2012	6,751.94
+1.2012	6,769.89	Jan 1, 2012	6,769.89	Jan 1, 2012	6,769.89
+1.2012	7,982.45	Jan 1, 2012	7,982.45	Jan 1, 2012	7,982.45
+1.2012	7,143.69	Jan 1, 2012	7,143.69	Jan 1, 2012	7,143.69

Next Steps

Standard Reports Improvements

- User Requirements
- Development & Deployment

Data Analytics

- User Requirements
- Development & Deployment

Key Performance Indicators

- User Requirements
- Development & Deployment

VTS Reporting Solution

Questions and Comments

