

# Agenda

- 1 Introduction
- 2 Benchmark Analytics
- **3** Comparative Collection Analytics

Cooperative friendly neighbors



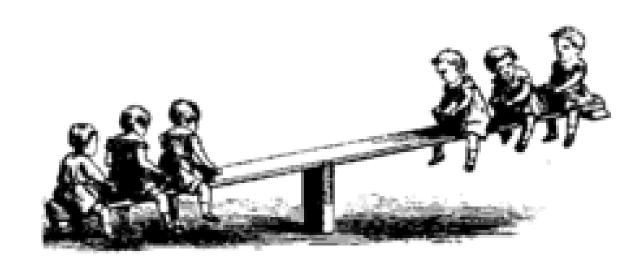
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# Not like this





- When performing comparative analysis, there is a need to balance different aspects of the comparison
  - The depth/detail of data
  - The breadth of comparison/number of institutions comparing to



- Benchmark Analytics puts focus on the breadth of comparison
- Data being compared is high level/KPI





- Comparative Collection Analytics puts focus on the depth of comparison
- Group for comparison is smaller





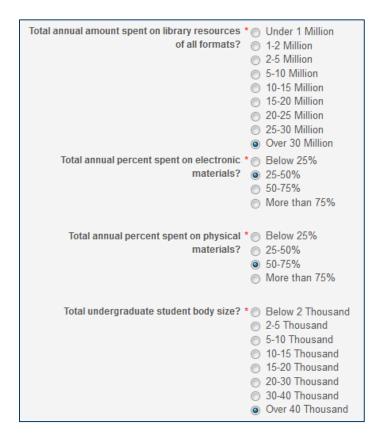
# Agenda

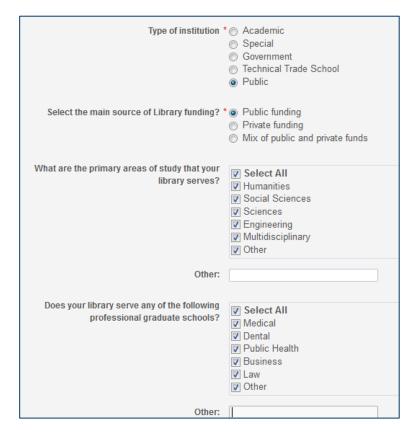
- 1 Introduction
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- **3** Comparative Collection Analytics

- The overall goal and idea of the Benchmark analytics is for the institution to identify
  - Where in their workflows improvements can be made
  - Where processes are already at a satisfactory or above satisfactory level.
- One way for doing this is to compare KPIs (Key Performance Indicators) with other institutions
- The KPIs can be measured on a monthly or yearly basis. This enables the identification of trends.
- Already live and in production. New KPIs are being added throughout the remainder of 2017 and 2018.

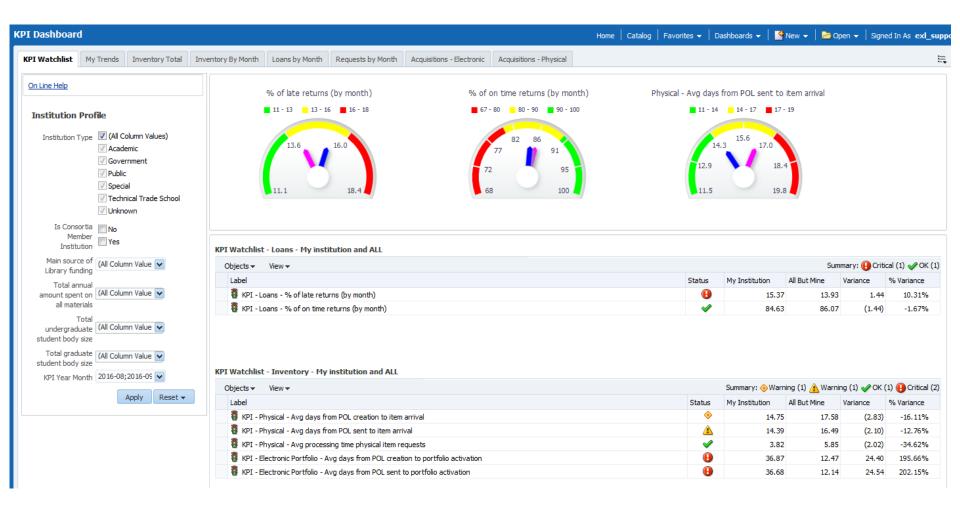
- For example, an institution may see that from the time of ordering physical items until the time the item arrives takes significantly longer than the average for other institutions.
- This institution can then drill down to investigate where in the process there may be a problem.
  - It may be that between the time the order is created until the time it is sent takes too long because the "review" process is taking too long.
  - It may be that certain vendors are taking an unusually long time to process the orders.
  - There could also be a problem with the period from when the item arrives to the institution until it arrives to the acquisitions librarian to scan it in.
- Benchmark analytics allows the institution to identify these issues

 As part of the process each institution is defined with a profile so that they can be compared appropriately with other institutions, in a non-identifying manner

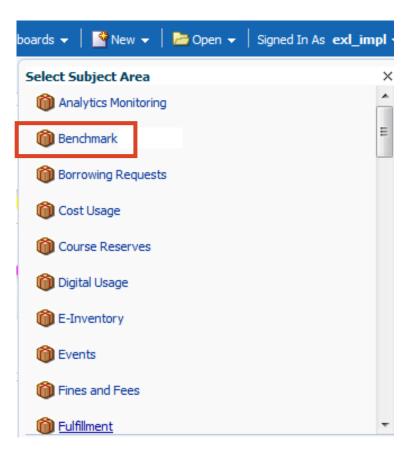


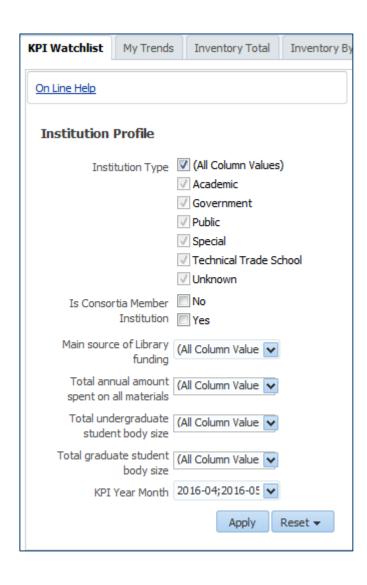


 The Benchmark Analytics can be easily accessed via an "out of the box" customizable and ready to use KPI dashboard.



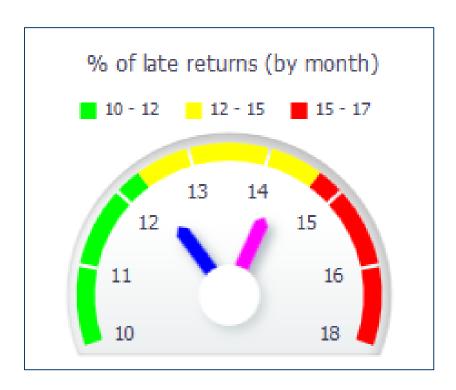
 The Benchmark Analytics is a subject area in Alma Analytics and, like all other subjects, customized specific reports can be created on demand by each institution.

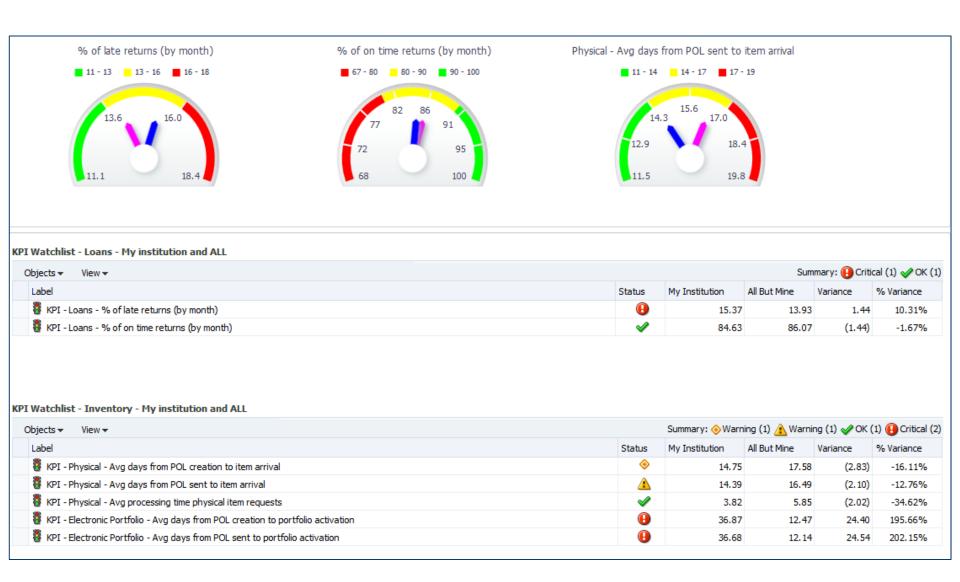




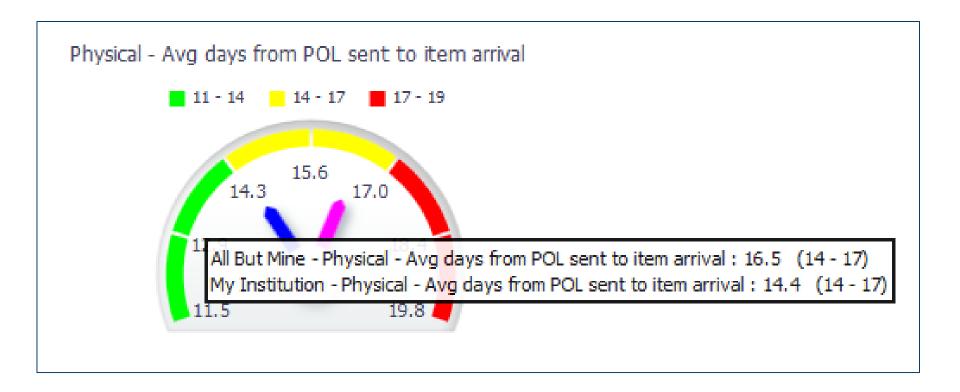
 As is the case with all tabs in the KPI Dashboard the comparison to other institutions can be filtered by various criteria.

- The KPI Watchlist provides a summary of various KPIs which can be seen together.
- The gauges quickly inform the user where his institution (blue dial) stands in comparison to other institutions (pink dial)

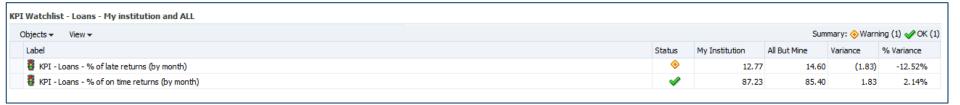




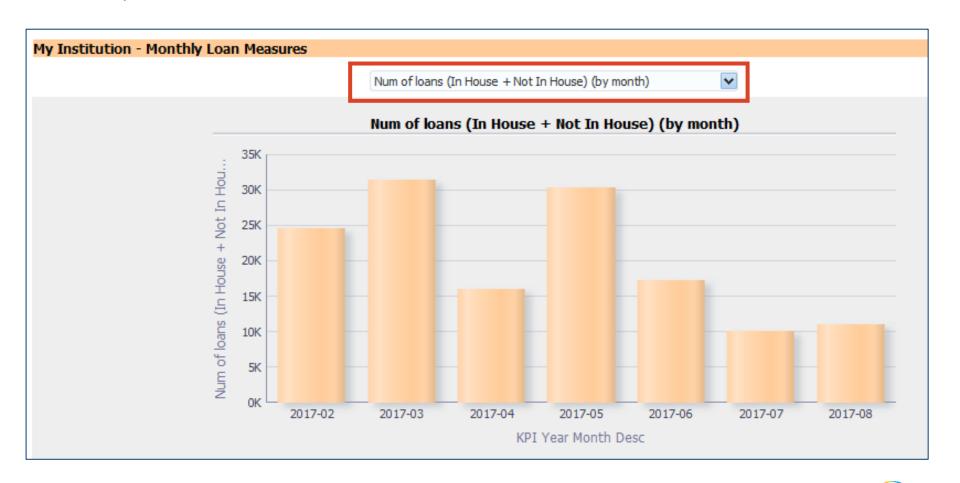
- Hovering over the gauge provides further details. When the dial is near the green this is good.
- When the dial is near the red this is a warning



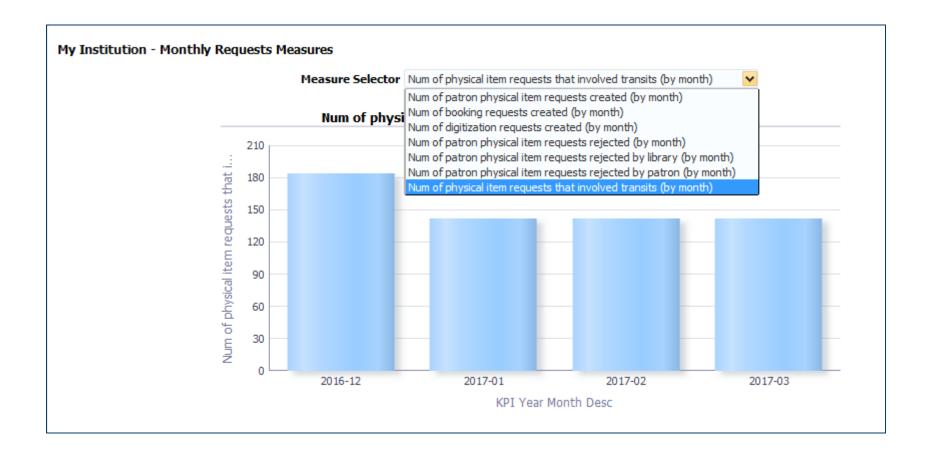
 The KPI Watchlist also provides the information in tabular form with status indicators of warning, critical and OK



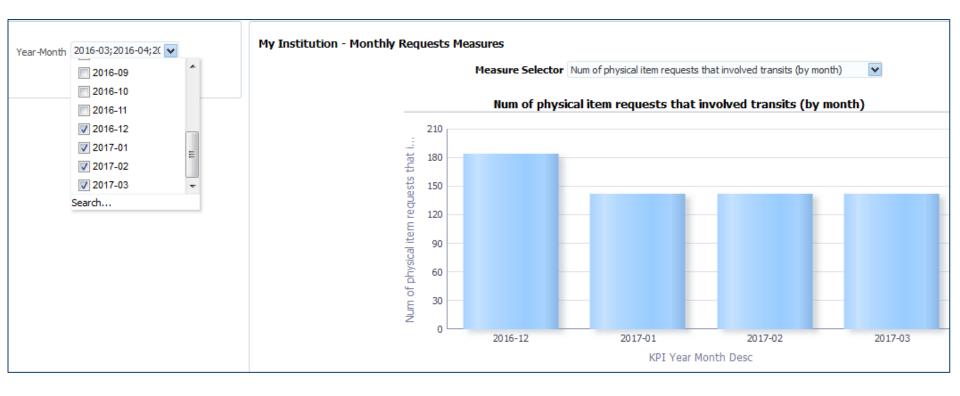
 The "My Trends" tab of the dashboard provides the institution with an up close look at his own institution, and may be filtered by time and specific measures.



- The "My Trends" currently includes five areas of measurements.
  - Monthly requests measures
  - Monthly loan measures
  - Monthly inventory measures
  - Monthly Borrowing Requests
  - Monthly Lending Requests
- Each area includes several measures



 And, of course, each institution can choose the dates for which he wants to see the trends

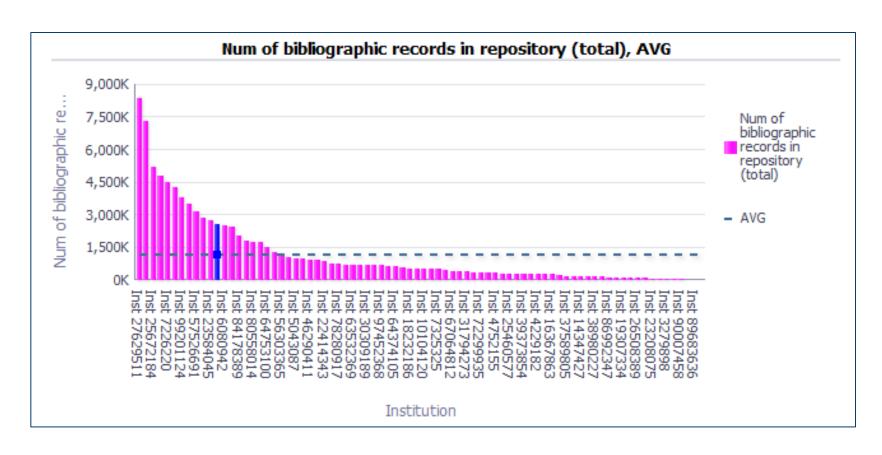


### **Benchmark Analytics - Inventory Total**

- The Inventory Total tab allows the institution to compare its inventory to other institutions
- At the current time this includes:
  - Number of bibliographic records in repository (total)
  - Number of electronic collections in repository (total)
  - Number of electronic portfolios in repository (total)
  - Number of physical items in repository (total)

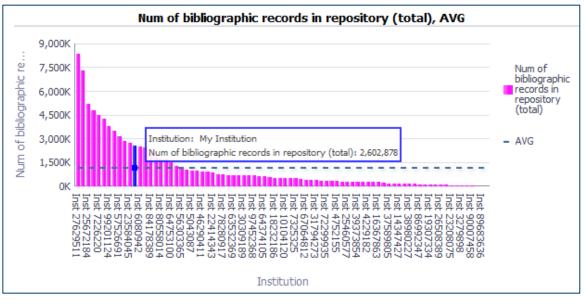
#### **Benchmark Analytics - Inventory Total**

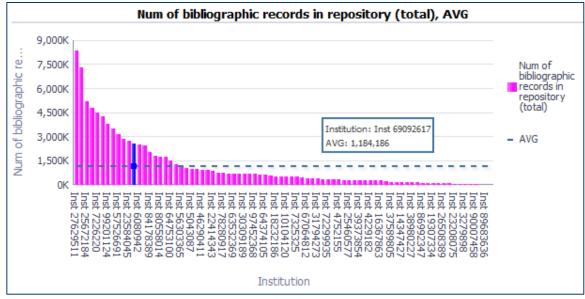
- The dotted line is the average
- The blue bar is "my institution"
- The pink bars are all other institutions.



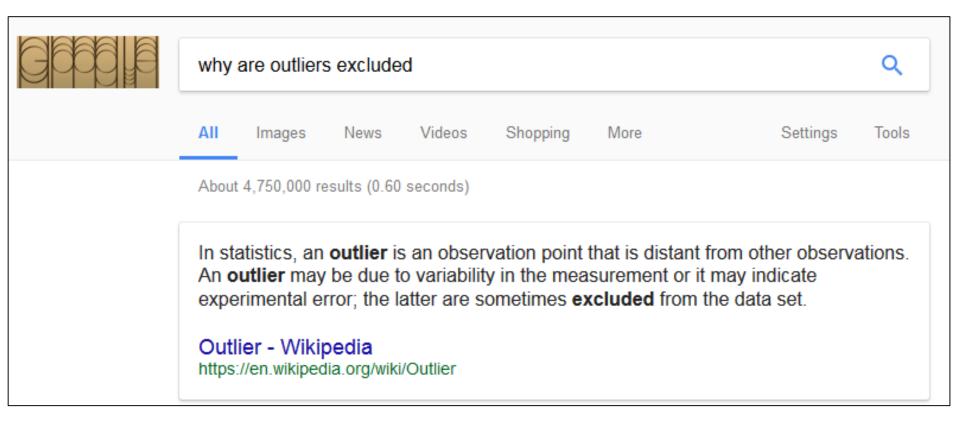
# **Benchmark Analytics - Inventory Total**

Hovering over the data provides additional information.

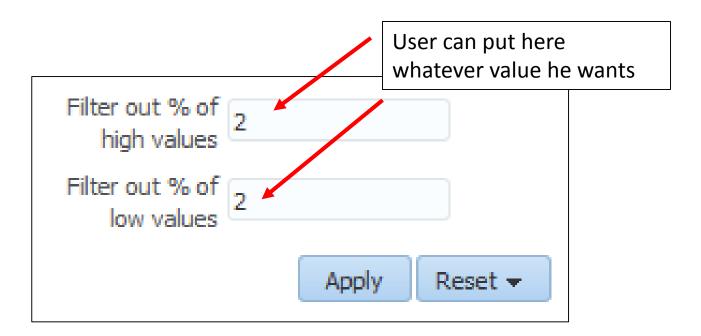




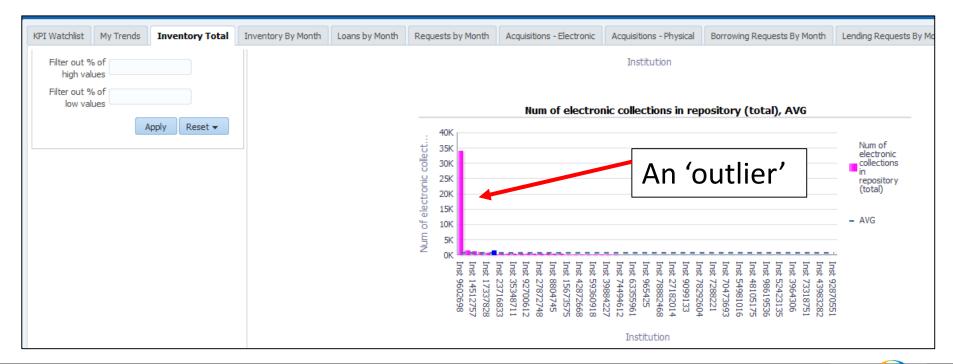
The outliers can also be removed from the graphs



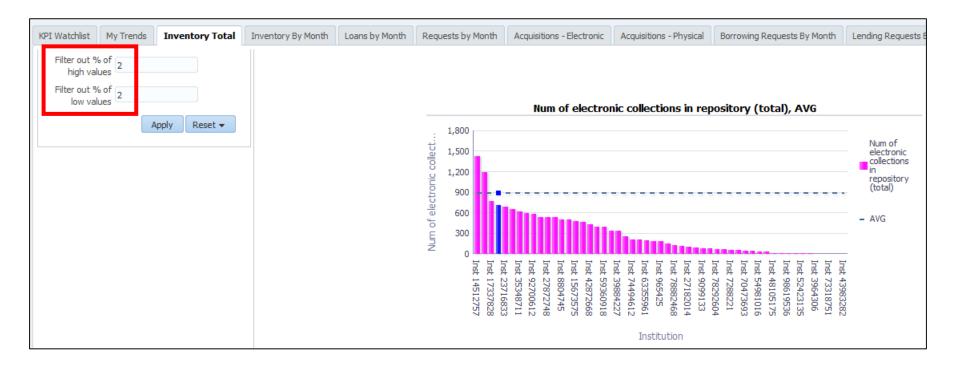
- It is possible to filter out the extreme high and low values (outliers) in benchmark analytics graphs.
- This gives a more accurate picture of the situation.



 This is the graph 'Num of electronic collections in repository (total), AVG' in the 'Inventory Total' tab.



 After removing the top and bottom 2% we have a more accurate picture



 The data also appears at the top of the dashboard in performance tiles

Num of active physical items in repository (total)

1,374,005

Num of electronic portfolios in repository (total)

1,503,989

Num of electronic collections in repository (total)

734

Num of active bibliographic records in repository...

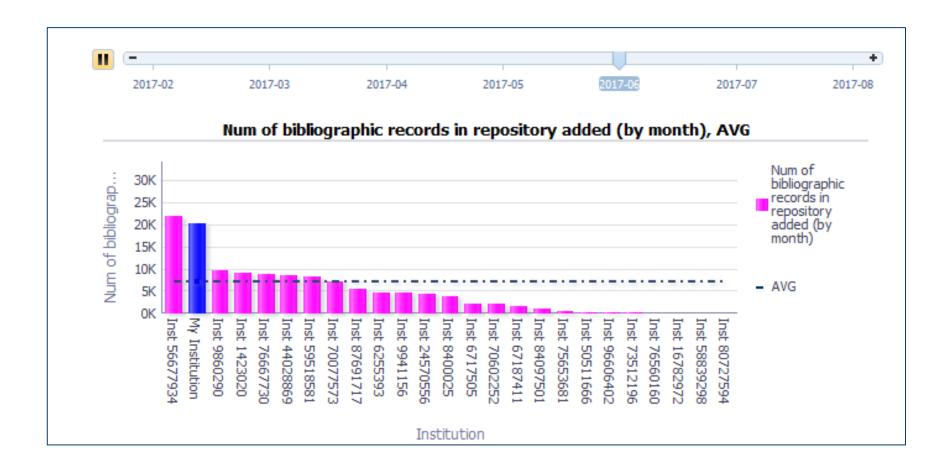
2,602,878

# **Benchmark Analytics - Inventory Total by month**

- The Inventory Total by month tab allows the institution to compare what was added to his inventory with other institutions
- At the current time this includes:
  - Number of bibliographic records in repository (by month)
  - Number of electronic collections in repository (by month)
  - Number of electronic portfolios in repository (by month)
  - Number of physical items in repository (by month)

# **Benchmark Analytics - Inventory Total by month**

 The chosen times appearing can be "played" on the slide bar on top showing the changes over the time period



# Benchmark Analytics - Inventory Total by month

- The data also appears at the top of the dashboard in performance tiles.
- Here we have the average amounts added per month for the specified time period

Num of physical items in repository

4,414

added (by month)

Num of electronic collections in repository

added (by month)

Num of electronic portfolios in repository

30,909

added (by month)

Num of bibliographic records in repository

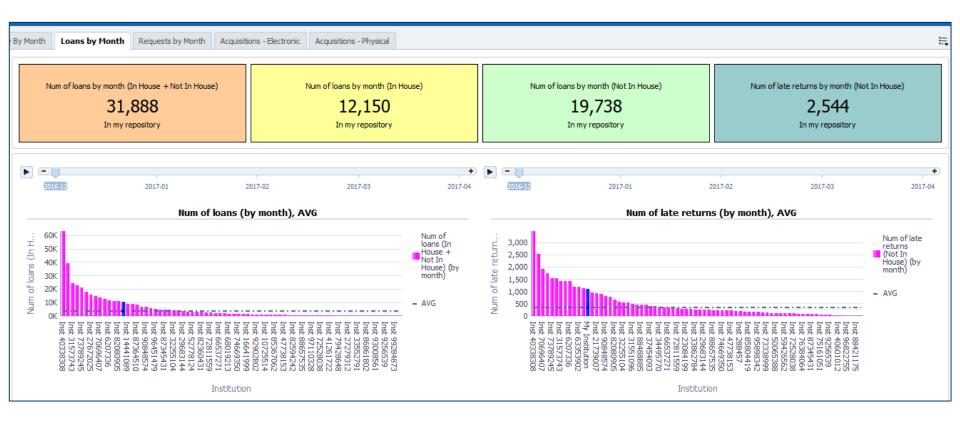
25,089

added (by month)

### **Benchmark Analytics - Loans by Month**

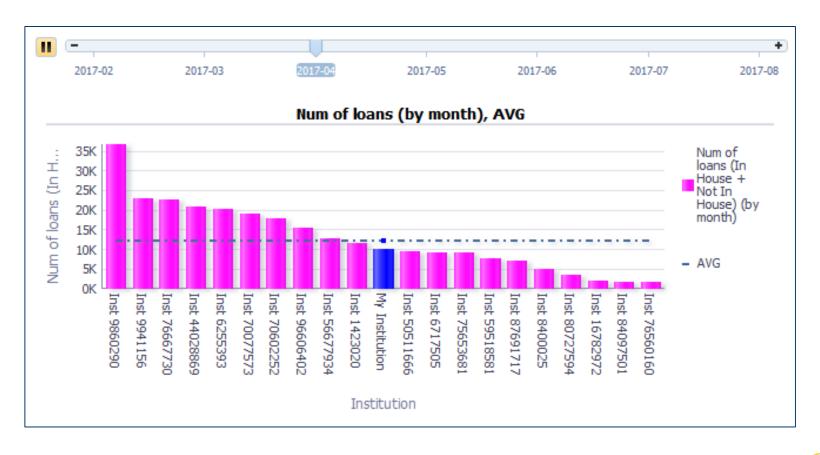
- The Loans by Month tab allows the institution to compare its fulfillment loans with other institutions
- At the current time this includes:
  - Number of loans (by month)
  - Number of late returns (by month)

#### **Benchmark Analytics - Loans by Month**



# **Benchmark Analytics - Loans by Month**

- The chosen times appearing can be "played" on the slide bar on top showing the changes over the time period
- Here is the number of loans per month per institution



#### **Benchmark Analytics - Loans by Month**

Here is the number of late returns per month per institution



#### **Benchmark Analytics - Loans by Month**

 The data also appears at the top of the dashboard in performance tiles

Num of loans by month (In House + Not In House)

31,888
In my repository

Num of loans by month (In House) 12,150
In my repository

Num of loans by month (Not In House)

19,738

In my repository

Num of late returns by month

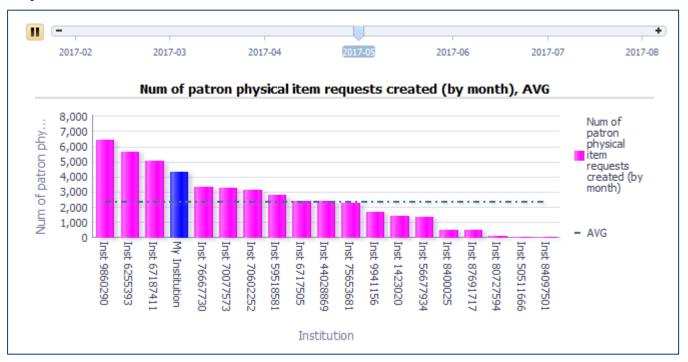
2,544

In my repository

- The Requests by Month tab allows the institution to compare its fulfillment requests with other institutions
- At the current time this includes:
  - Number of patron physical item requests created (by month)
  - A detailed table including
    - Number of patron physical item requests created (by month)
    - Number of patron physical item requests rejected (by month)
    - Number of patron physical item requests rejected by patron (by month)
    - Number of patron physical item requests rejected by library (by month)



- The chosen times appearing can be "played" on the slide bar on top showing the changes over the time period
- Here is the patron physical item requests created per month per institution



Here is table showing the data with additional measures

Institution	Num of patron physical item requests created (by month)	Num of patron physical item requests rejected (by month)	Num of patron physical item requests rejected by patron (by month)	Num of patron physical item requests rejected by library (by month)
Inst 96614676	10,126	710	101	149
Inst 66131130	7,809	818	10	11
Inst 25290108	5,523	1,220	7	75
Inst 56773351	4,958	826	21	134
Inst 53859913	4,311	931	19	63
My Institution	2,982	287	9	59
Inst 59507251	2,945	262	11	42
Inst 37394907	2,441	214	9	105
Inst 5584154	2,439	807	9	81
Inst 81375611	2,295	217	1	58
Inst 34286026	1,406	267	4	29
Inst 52033242	1,365	189	2	34
Inst 97407214	1,327	39	5	13
Inst 81159948	989	219	7	15
Inst 31722692	790	108	5	27

 The data also appears at the top of the dashboard in performance tiles

Num of patron physical item requests (by month)

2,422

rejected

Num of patron physical item requests (by month)

660

rejected by library

Num of patron physical item requests (by month)

64

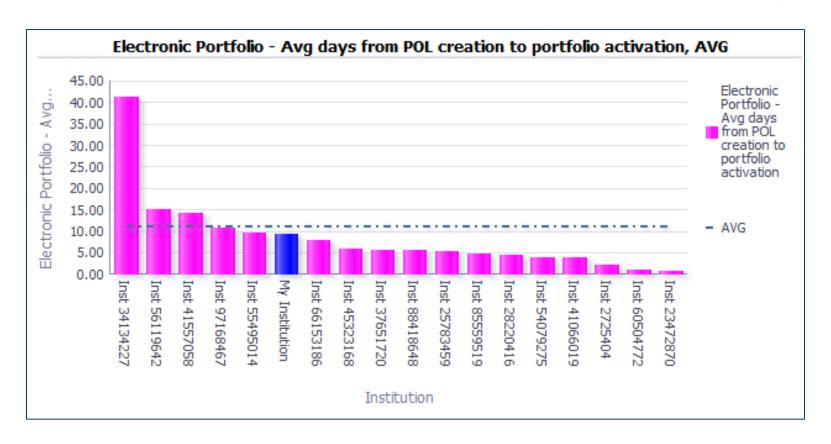
rejected by patron



- The Acquisitions Electronic tab allows the institution to compare its acquisitions measures regarding electronic collection and portfolios with other institutions
- At the current time this includes:
  - Electronic Portfolio Avg days from POL creation to portfolio activation



 Here the institution can see that regarding the time it takes from ordering electronic inventory to getting it activated he is a little under (faster than) the average.



 The data also appears at the top of the dashboard in performance tiles

Electronic Portfolio - Avg days -

9.45

from POL creation to portfolio activation

Electronic Portfolio - Avg days -

0.95

from POL creation to sent

Electronic Portfolio - Avg days -

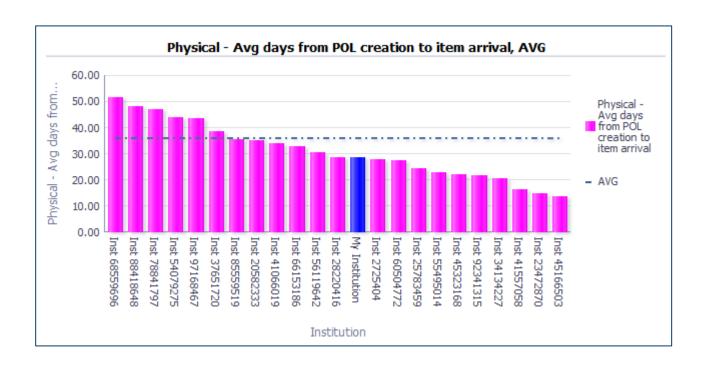
8.50

from POL sent to portfolio activation

- The Acquisitions Physical tab allows the institution to compare its acquisitions measures regarding the ordering of physical one-time inventory with other institutions
- At the current time this includes:
  - Physical Avg days from POL creation to item arrival



 Here the institution can see that regarding the time it takes from ordering physical inventory to having it arrive it is faster than (it takes less days) the average.



 The data also appears at the top of the dashboard in performance tiles

Physical - Avg days -

28.94

from POL creation to item arrival

Physical - Avg days -

0.95

from POL creation to sent

Physical - Avg days -

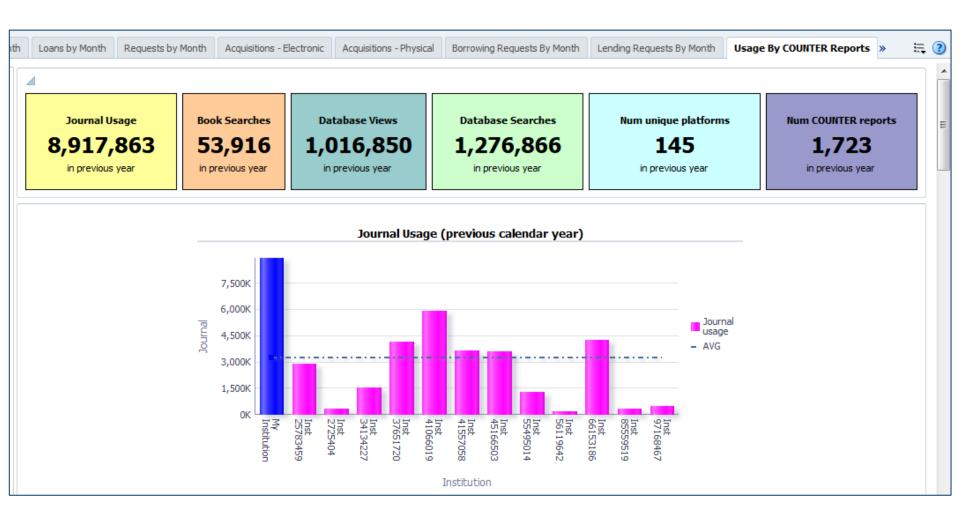
28.16

from POL sent to item arrival

### **Benchmark Analytics – Usage by COUNTER reports**

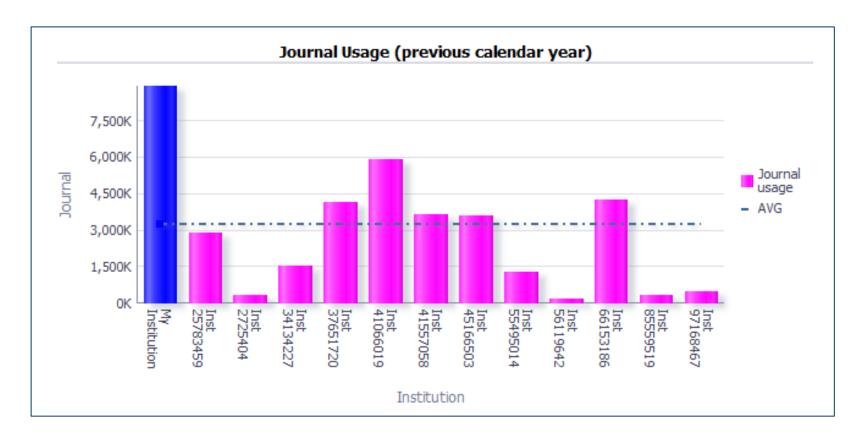
- It is also possible to compare the usage of electronic resources as reported via COUNTER reports
- At the current time this includes:
  - Journal Usage (in previous year)
  - Book Searches (in previous year)
  - Database Views (in previous year)
  - Database Searches (in previous year)
  - Number of Unique Platforms (in previous year)
  - Number of CPOUNTER reports (in previous year)

# **Benchmark Analytics – Usage by COUNTER reports**



### Benchmark Analytics – Usage by COUNTER reports

 Here the institution can see that they have higher than average Journal Usage (JR1)



#### Benchmark Analytics – Additional planned KPIs

- In addition to the KPIs shown here, there are plans to roll out several additional KPIs.
- These include the following:

Area	KPI
Alma Staff	Number of staff logins - in the last year
Claiming	Percentage of orders that have to be claimed - orders sent in the last year
Cost Per Use	Average Cost Per Use - in the last year (from COUNTER reports is Cost Usage subject area)
Course Reserves	Number of items in Course Reserves location - added - in last year
Digital Inventory	Number of digital objects - added- in the last year
Digital Inventory	Number of digital objects - total
Discovery	Number of Journal/DB views - in the last week
Discovery	Number of searches - in last week
Discovery	Number of ServicePage/Uresolver sessions - in the last week
Discovery	Number of sessions - in last week

# **Benchmark Analytics – Additional planned KPIs**

Area	КРІ
Fees	Money collected from patrons - total - in the last year
Fees	Money owed by Patrons - total
Fees	Money waived by staff - total - in the last year
Fees	Percentage of patrons that have blocks
Fees	Percentage of patrons that owe money
Invoicing	Average handling time for invoices - From creation until closure - invoices created in the last year
Invoicing	Average handling time for invoices - From creation until payment - invoices created in the last year
Invoicing	Average handling time for invoices - From creation until sent for payment - invoices created in the last year
Resource Sharing Borrowing Requests	Average supply time for borrowing (outgoing ILL) requests - in the last year
Resource Sharing Borrowing Requests	Number of borrowing (outgoing ILL) requests placed - in the last year
Resource Sharing Lending Requests	Number of lending (incoming ILL) requests - in the last year
Resource Sharing Lending Requests	Percentage of lending (incoming ILL) requests that could not be filled - in the last year
Transit	Average time in transit - in the last year



# Agenda

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- 3 Comparative Collection Analytics

#### **Comparative Collection Analytics - Overview**

- The overall goal and idea of the Comparative Collection Analytics is for the institution to be able to understand the collection relative to a set of peer institutions
- Peer institutions have agreed (mutually) to work together in a known and identified manner

- This will enable the institution to, for example
  - Create weeding (withdrawal) plans
  - Effectively create a collection development policy by knowing what subjects are held by other institutions which are my peers and thus accessible to my patrons.

### **Comparative Collection Analytics**

- Bibliographic and inventory data is compared with that of other predefined peer institutions.
- Example 'queries':
  - How much overall overlap is there between your collection and those of your peers?
  - How many of your items are unique among your set of predefined peers?
  - How old is your collection compared to those of your peers?

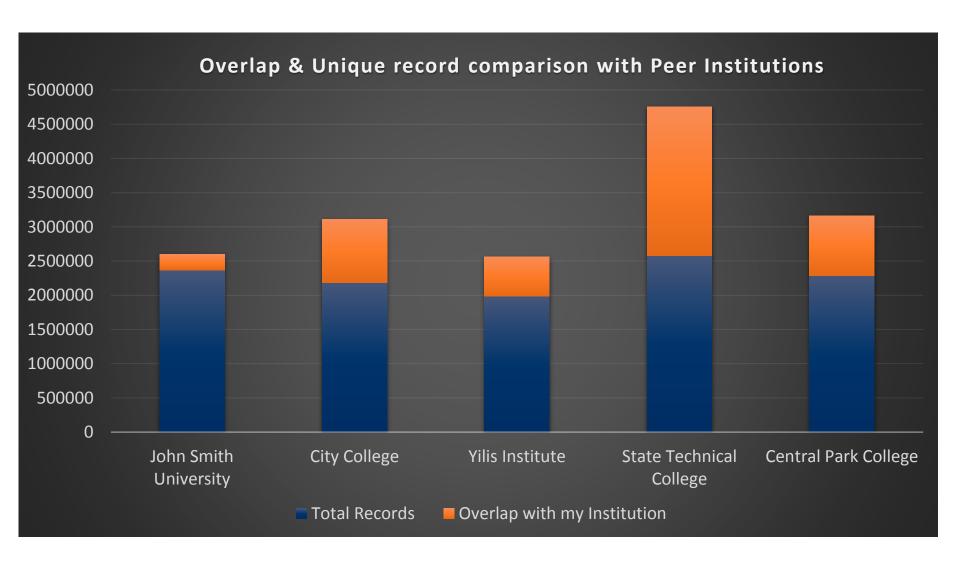
### **Comparative Collection Analytics - Peer Institutions**

- Typically the "peer institutions" are institutions which
  - Are located in the same geographical area
  - Have resource sharing or other cooperative fulfillment policy agreements
  - May also have e-resource licensing and other acquisition cooperative programs
  - May engage in common digitization projects

#### **Comparative Collection Analytics - Peer Institutions**

- In the example here the "Sarah Khan Technical College" has five peers:
  - John Smith University
  - City College
  - Yilis Institute
  - State Technical College
  - Central Park College
- These peers all form a group of six institutions which collaborate with each other on various levels.
- For example patrons in each of the six institutions and can loan items from the other five institutions.

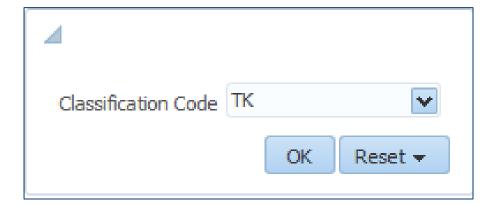
#### **Comparative Collection Analytics – General Overlap**





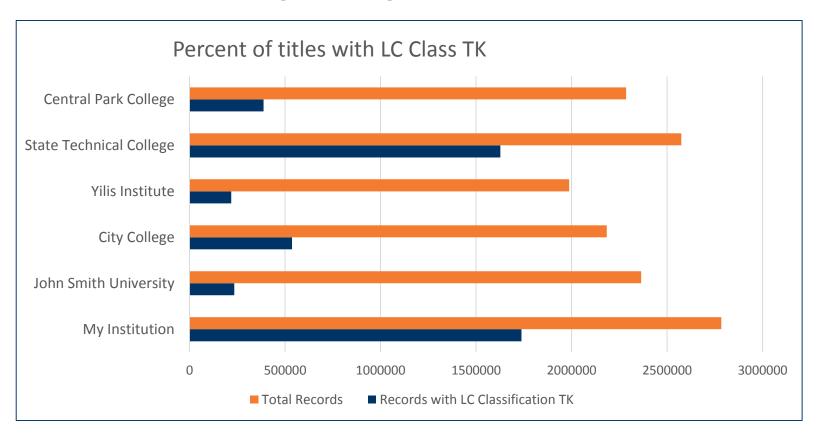
#### **Comparative Collection Analytics – LC Classification Overlap**

- It will also be possible to query which institutions have "how many" bibliographic records with particular call numbers or subjects.
- Example: TK is the LC Classification code for Electrical Engineering



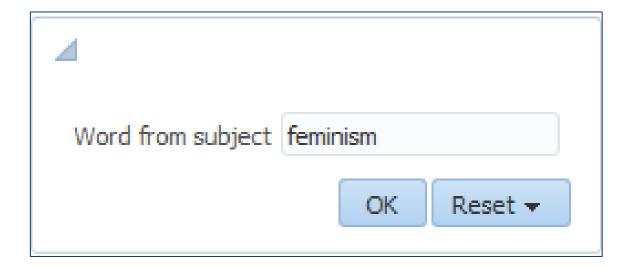
#### **Comparative Collection Analytics – LC Classification Overlap**

 Here we clearly see that "My Institution" and "State Technical College" both have many records (more than half of total) which are for "Electrical Engineering"

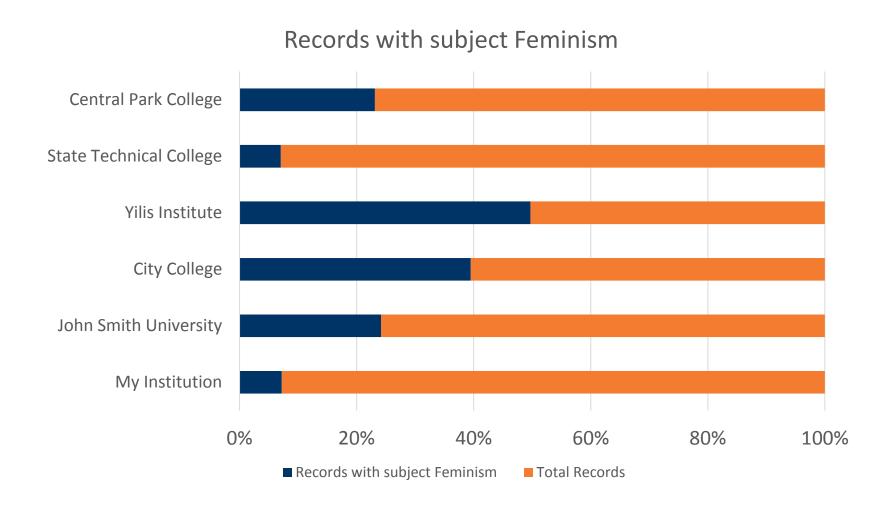


# **Comparative Collection Analytics – Subject Overlap**

 On the other hand ... if we compare the institutions on "word from subject = feminism" ...

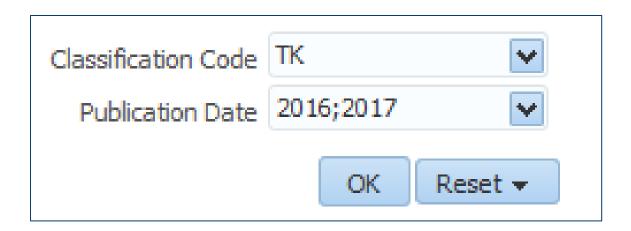


# **Comparative Collection Analytics – Subject Overlap**



#### **Comparative Collection Analytics – LC and Year Overlap**

- There are some cases where it is important to also be able to filter by year.
- For example we previously saw that both "My Institution" and the "State Technical College" have a lot of material with LC Category "TK" which is "Electrical Engineering".
- We may further want to know how much of that material is from the last two years.



#### **Comparative Collection Analytics – LC and Year Overlap**

Here are the results in graph format

