

# EMEARC18

OCLC EMEA  
REGIONAL COUNCIL  
MEETING

Hello.

I'm the **Smarter** Library.



## Library data and learner analytics

JAMES HODGKIN, UNIVERSITY OF GLOUCESTERSHIRE

LEE BAYLIS, JISC

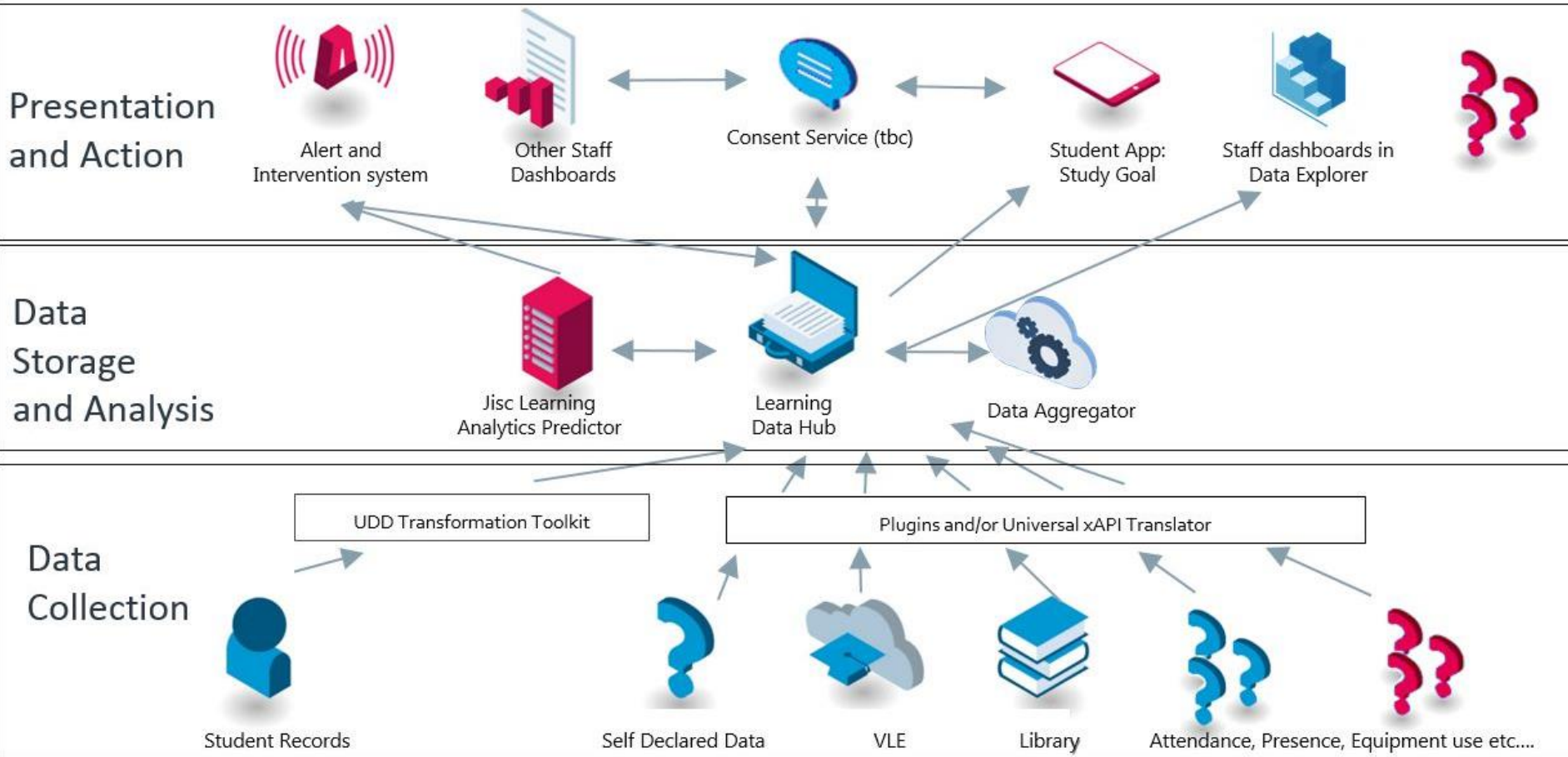




# Lee Baylis

Senior Analytics Innovator, Jisc

# Extracting data from OCLC Systems for Learner Analytics



# Jisc Library Labs



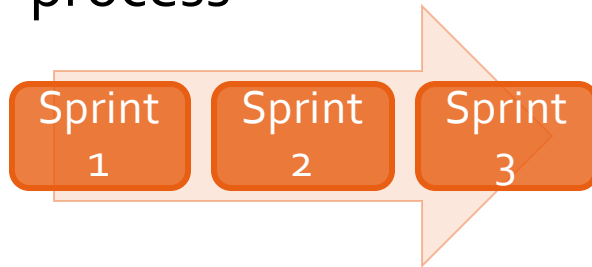
24 Higher Education institutions



28 expert practitioners

12 week

Agile development process



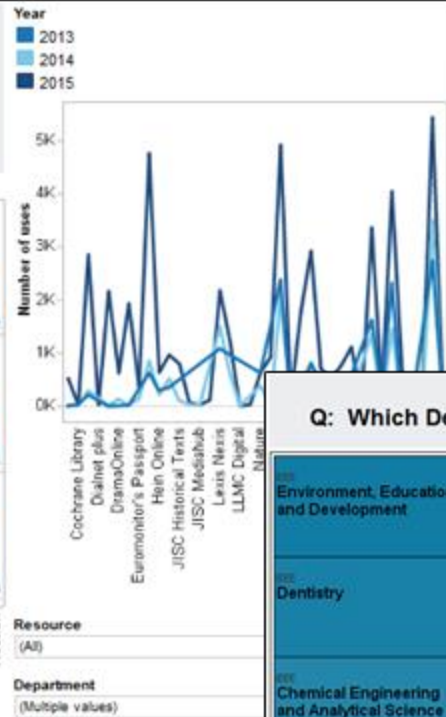
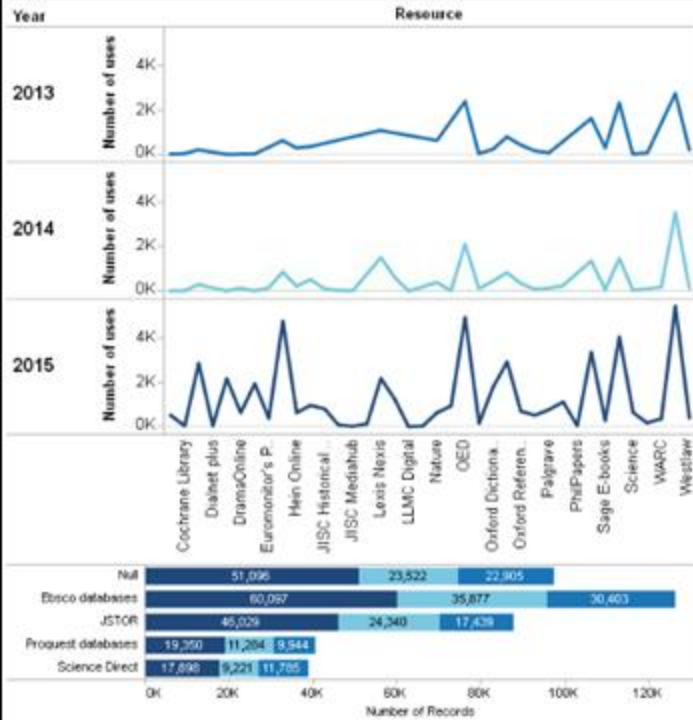
<https://business-intelligence.ac.uk/analytics-labs/get-involved/>

**EMEARC18**

#OCLCEMAR18



Q: How does usage of each resource change over three years?

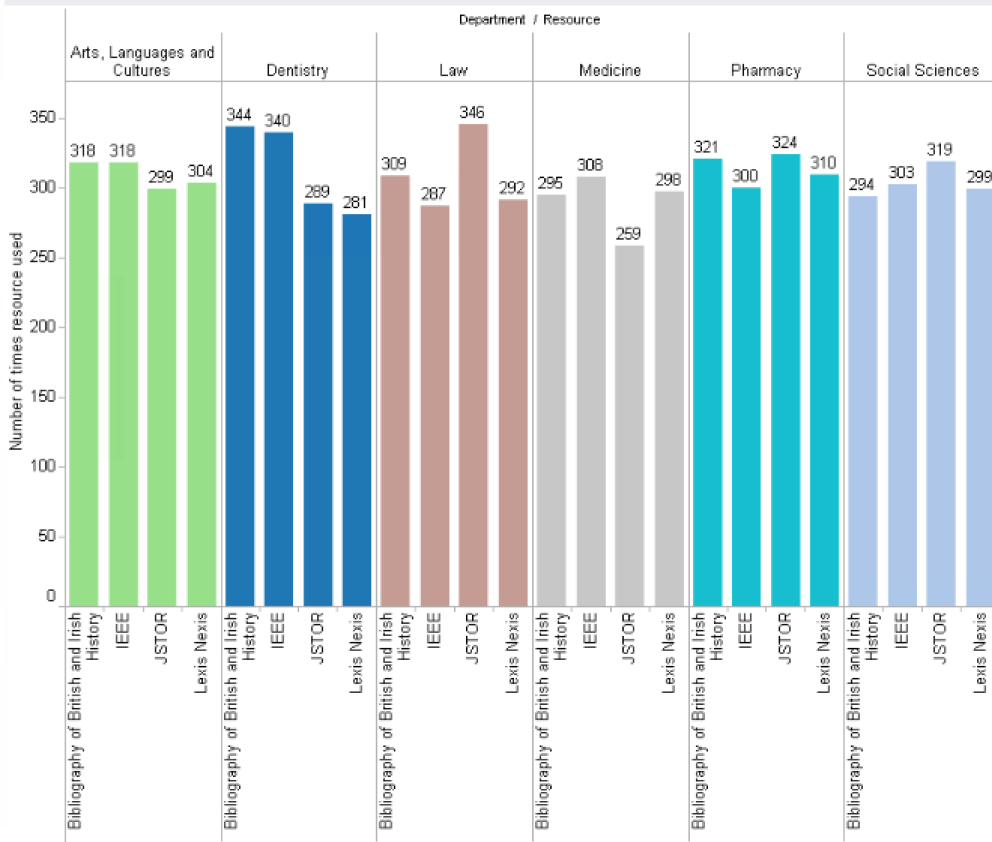


# Library eResource Suite Team Elizabeth (Charles)

Q: Which Departments are using which Resource most heavily?



Q: Which resources are being used by departments overall?



Resource

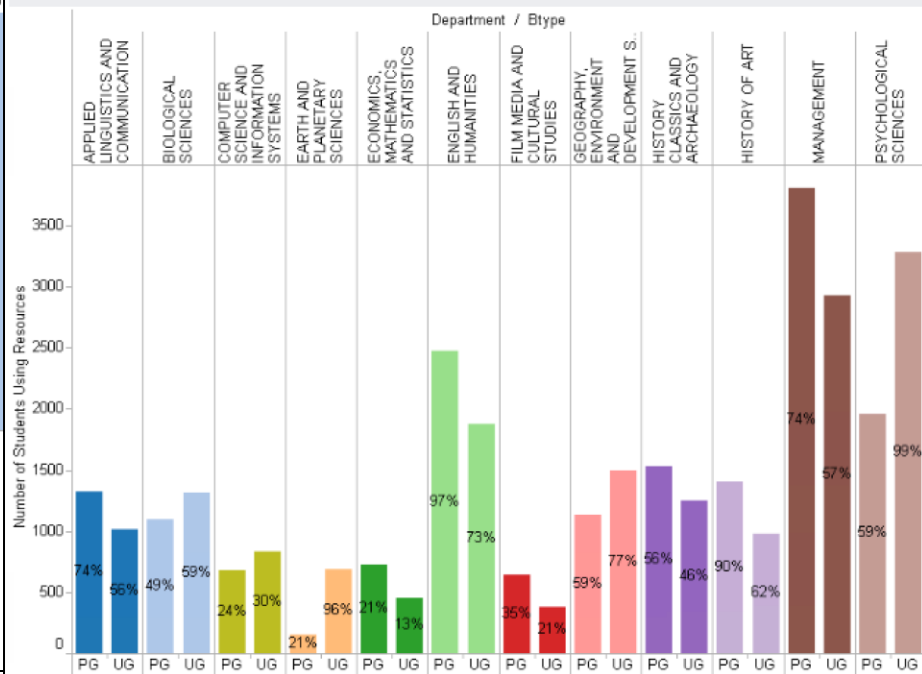
(Multiple values) ▼

Department

# Library eResource Suite

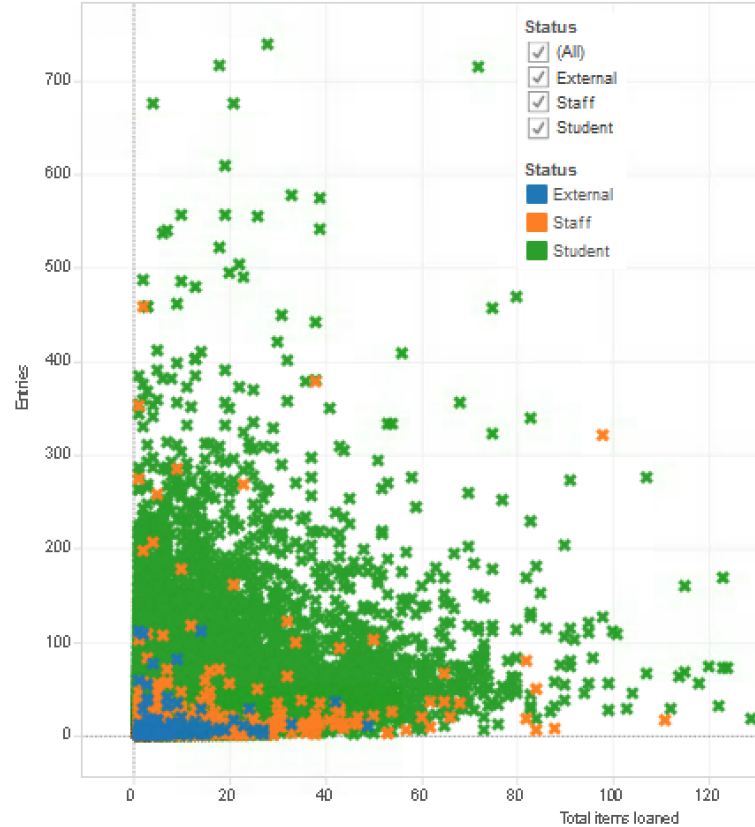
Q: What percentage of my department's students are using online resources?

Q: What percentage are using a particular resource?



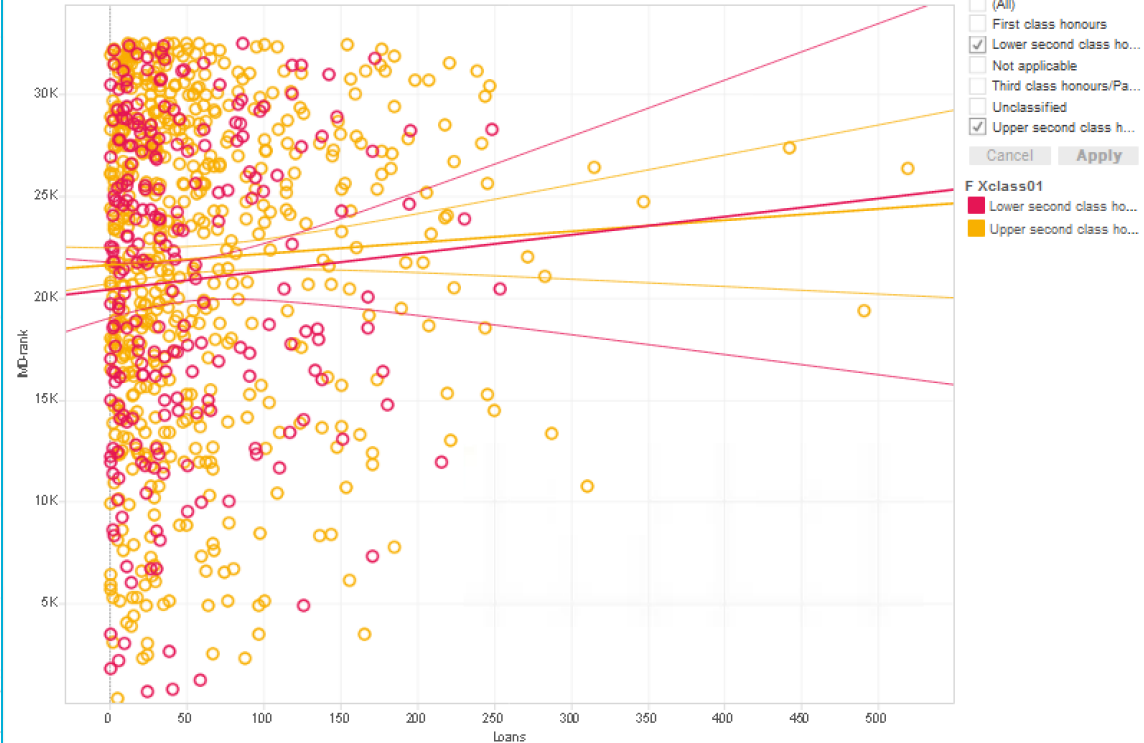
# Library Loans Suite

## Visits and Loans



## Deprivation, Library Engagement and Final outcome

### IMD Rank

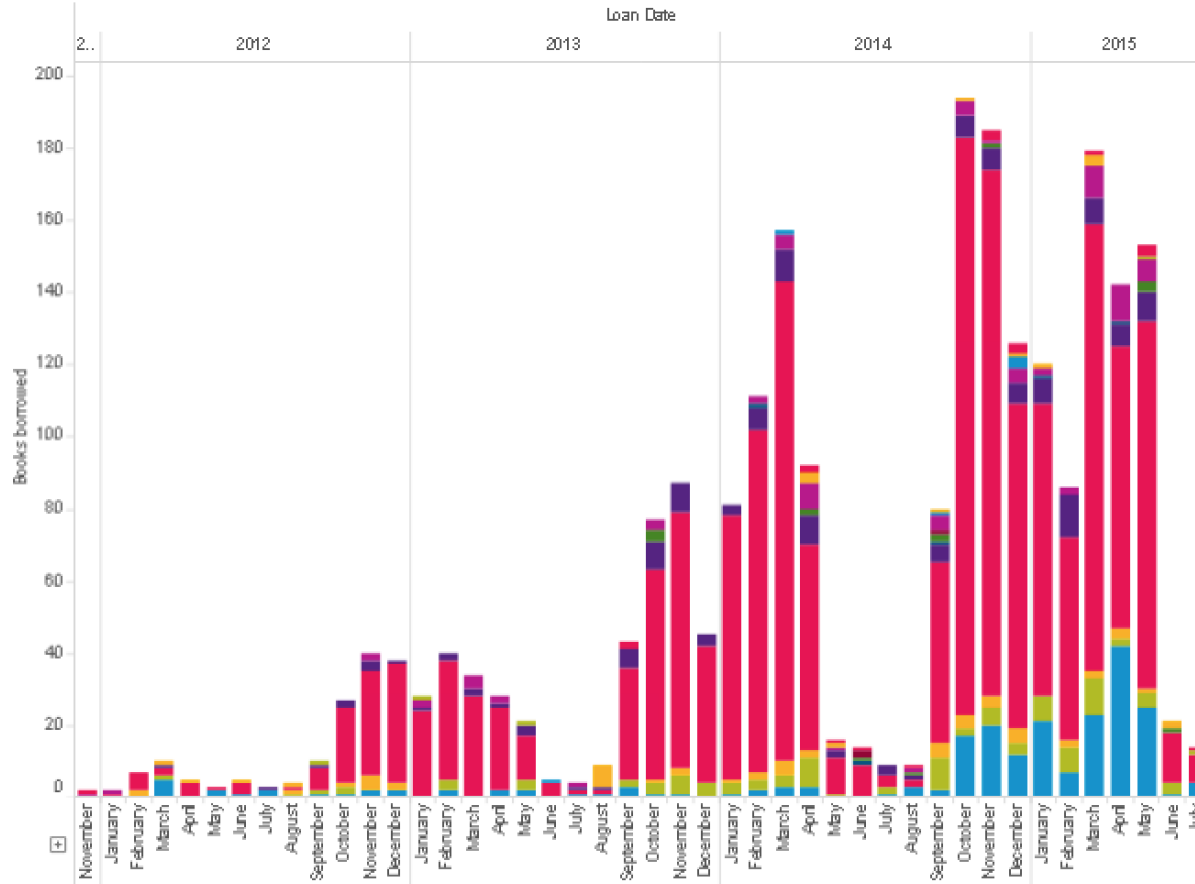




# Library Loans Suite Team Ian (Harter)

Book Stock Usage

## Using what you've paid for



Institution

University of Glouces...

Students Field of Study

- (All)
- Null
- (1) Medicine & den...
- (2) Subjects allied ...
- (3) Biological scien...
- (5) Agriculture & re...
- (6) Physical scien...
- (7) Mathematical s...
- (8) Computer scie...
- (9) Engineering & t...
- (A) Architecture, b...
- (B) Social studies
- (C) Law
- (D) Business & ad...

Cancel Apply

Ordered for Subject

- (2) Subjects allied to m...
- (3) Biological sciences
- (6) Physical sciences
- (A) Architecture, buildin...
- (B) Social studies
- (C) Computer science
- (D) Business and admi...
- (E) Mass communicatio...
- (F) Languages
- (G) Historical and philo...
- (H) Creative arts & des...
- (I) Education
- (J) Combined

# xAPI – an open standard

```
"actor": {  
  "objectType": "Agent",  
  "account": {  
    "name": "***UNAME**",  
    "homePage": "***HOMEPAGE**"  
  }  
},
```

```
"verb": {  
  "id":  
    "http://id.tincanapi.com/verb/viewed",  
  "display": {  
    "en": "viewed"  
  }  
},
```

```
"object": {  
  "objectType": "Activity",  
  "id": "***HTTP_URL**",  
  "definition": {  
    "type": "http://id.tincanapi.com/activitytype/resource",  
    "name": {  
      "en": "eResource"  
    }  
  },  
  "description": {  
    "en": "an eResource made available via a proxy service"  
  }  
},
```

```
"context": {  
  "platform": "UxAPI",  
  "extensions": {  
    "http://xapi.jisc.ac.uk/sessionId": "***SESSION_ID**",  
    "http://id.tincanapi.com/extensions/ip-address": "***IP**",  
    "http://id.tincanapi.com/extension/referrer": "***HTTP_REFERRER**",  
    "http://id.tincanapi.com/extension/browser-info":  
    "***HTTP_BROWSER_INFO**",  
    "http://xapi.jisc.ac.uk/recipeVersion": "libraryV1.0"  
  }  
}  
"version": "1.0.0",  
"timestamp": "***TIMESTAMP**",  
"result": {"response": "***HTTP_RESPONSE**"}
```

<https://github.com/jiscdev ...>

<... /xapi/blob/feature-library>

<... /universal-xapi-translator/>

Data should be supplied as a UTF-8 Tab Separated File called attendance.tsv

## library-borrowed

- [USER\\_ID](#) [1]
- [ITEM\\_ID](#) [1]
- [ITEM\\_TYPE](#) [1]
- [ITEM\\_NAME](#) [1]
- [OCLC\\_NUMBER](#) [1]
- [CALL\\_NUMBER](#) [0..1]
- [BRANCH\\_NAME](#) [0..1]
- [PERMANENT\\_SHELVING\\_LOCATION](#) [0..1]
- [TEMPORARY\\_SHELVING\\_LOCATION](#) [0..1]
- [BORROWER\\_CAT](#) [0..1]
- [LOAN\\_POLICY](#) [0..1]
- [BRANCH](#) [0..1]
- [RENEWAL\\_COUNT](#) [0..1]

Full Example:

```
"version": "1.0.0",
"actor": {
  "objectType": "Agent",
  "name": "John Smith",
  "account": {
    "name": "PATRON_BARCODE",
    "homePage": "HOMEPAGE"
  }
},
"verb": {
  "id": "http://activitystrea.ms/schema/1.0/borrowed",
  "display": {
    "en": "borrowed"
  }
},
"object": {
  "objectType": "Activity",
  "id": "http://library.universityofjisc.ac.uk/0123456789"      (what would the iri of a book look like? h
  "definition": {
    "type": "http://id.tincanapi.com/activitytype/book",      (How do we work out from the data the type
    "name": { "en": "Intro to Java" },
  }

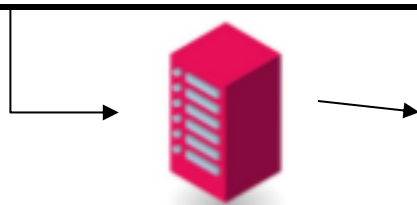
  "extensions": {
    "http://oclc.com/number": "OCLC_NUMBER",
    "http://xapi.jisc.ac.uk/dewey_code": "CALL_NUMBER"
    "http://xapi.jisc.ac.uk/item_location": {
      "http://id.tincanapi.com/extension/location": "ITEM_BRANCH_NAME",
      "http://xapi.jisc.ac.uk/permanent_shelving": "ITEM_PERMANENT_SHELVING_LOCATION",
      "http://xapi.jisc.ac.uk": "ITEM_TEMPORARY_SHELVING_LOCATION"
    },
  },
},
"timestamp": "2015-09-18T01:54:51.484Z",
"context": {
  "extensions": {
    "http://xapi.jisc.ac.uk/library_borrower_category": "UG", // should this be a code
    "http://xapi.jisc.ac.uk/library_loan_policy": "short", // should this be a code
    "http://xapi.jisc.ac.uk/library_branch": "Main library", // should this be a code
    "http://xapi.jisc.ac.uk/library_return_date": "2015-09-18T01:54:51.484Z"
    "http://xapi.jisc.ac.uk/library_renew_count": 3
    "http://xapi.jisc.ac.uk/version": "x-ignore"
```

EMEARC18

#OCLCEMAR18

# Daily EZProxy / Weekly Worldshare

```
XX.XX.XX.XX - sXXXXXX T2uddXpOOs9niWP  
[01/May/2017:00:00:16 +0100] "GET  
http://www.sciencedirect.com:80/science/RedirectURL?_m  
ethod=outwardLink&_partnerName=936&_eid=1-s2.0-  
S1466853X15001212&_pii=S1466853X15001212&_origin  
=article&_zone=art_page&_targetURL=https://s100.cop  
yright.com/AppDispatchServlet?publisherName%3DELS%26  
contentID%3DS1466853X15001212%26orderBeanReset  
%3Dtrue HTTP/1.1" 200 509 Default  
http://www.sciencedirect.com.ezproxy.glos.ac.uk/science/a  
rticle/pii/S1466853X15001212? Mozilla/5.0 (Windows NT  
10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko)  
Chrome/58.0.3029.81 Safari/537.36
```



Universal xAPI Translator

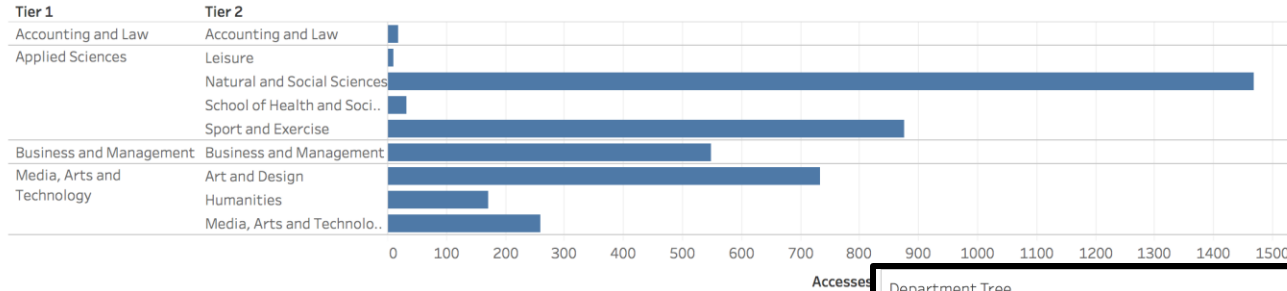
```
{  
  "statement": {  
    "version": "1.0.0",  
    "timestamp": "2017-05-01T00:00:16.000Z",  
    "object": {  
      "objectType": "Activity",  
      "definition": {  
        "type": "http://id.tincanapi.com/activitytype/resource",  
        "name": {"en": "eResource"},  
        "description": {"en": "an eResource made available via a proxy service"}  
      },  
      "id": "http://www.sciencedirect.com:80/science/RedirectURL?  
_method=outwardLink&_partnerName=936&_eid=1-s2.0-  
S1466853X15001212&_pii=S1466853X15001212&_origin=article&_zone=art_page&  
_targetURL=https://s100.copyright.com/AppDispatchServlet?publisherName%3DELS  
%26contentID%3DS1466853X15001212%26orderBeanReset%3Dtrue"  
    },  
    "actor": {  
      "objectType": "Agent",  
      "account": {  
        "homePage": "https://lak.jisc.ac.uk",  
        "name": "sXXXXXXXXX"  
      }  
    },  
    "verb": {  
      "id": "http://id.tincanapi.com/verb/viewed",  
      "display": {"en": "viewed"}  
    },  
    "result": {"response": "200"}  
  }  
}
```

[...]

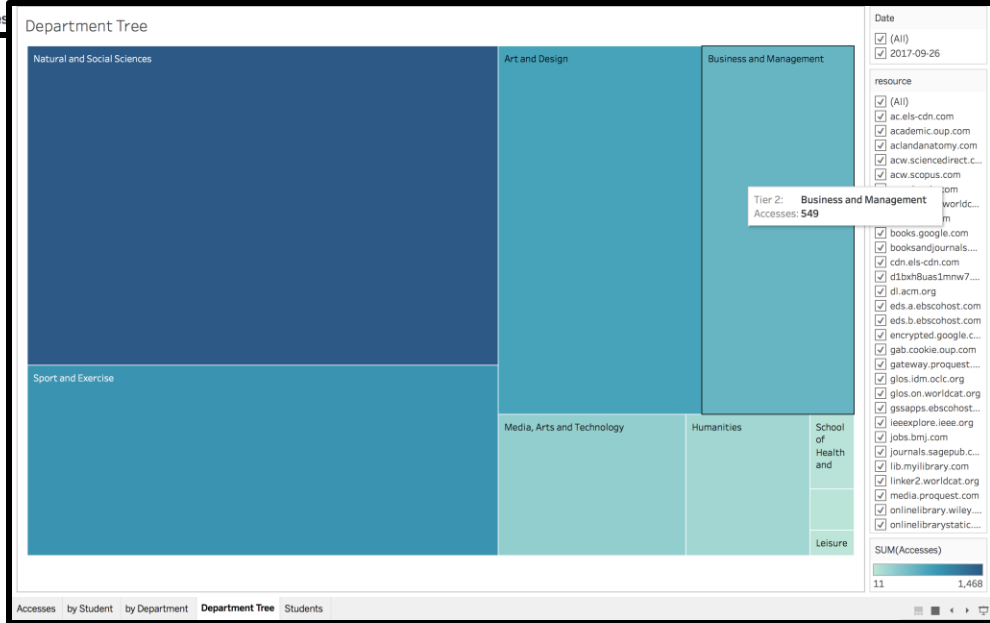
# Visualisations

## Combining LDH data

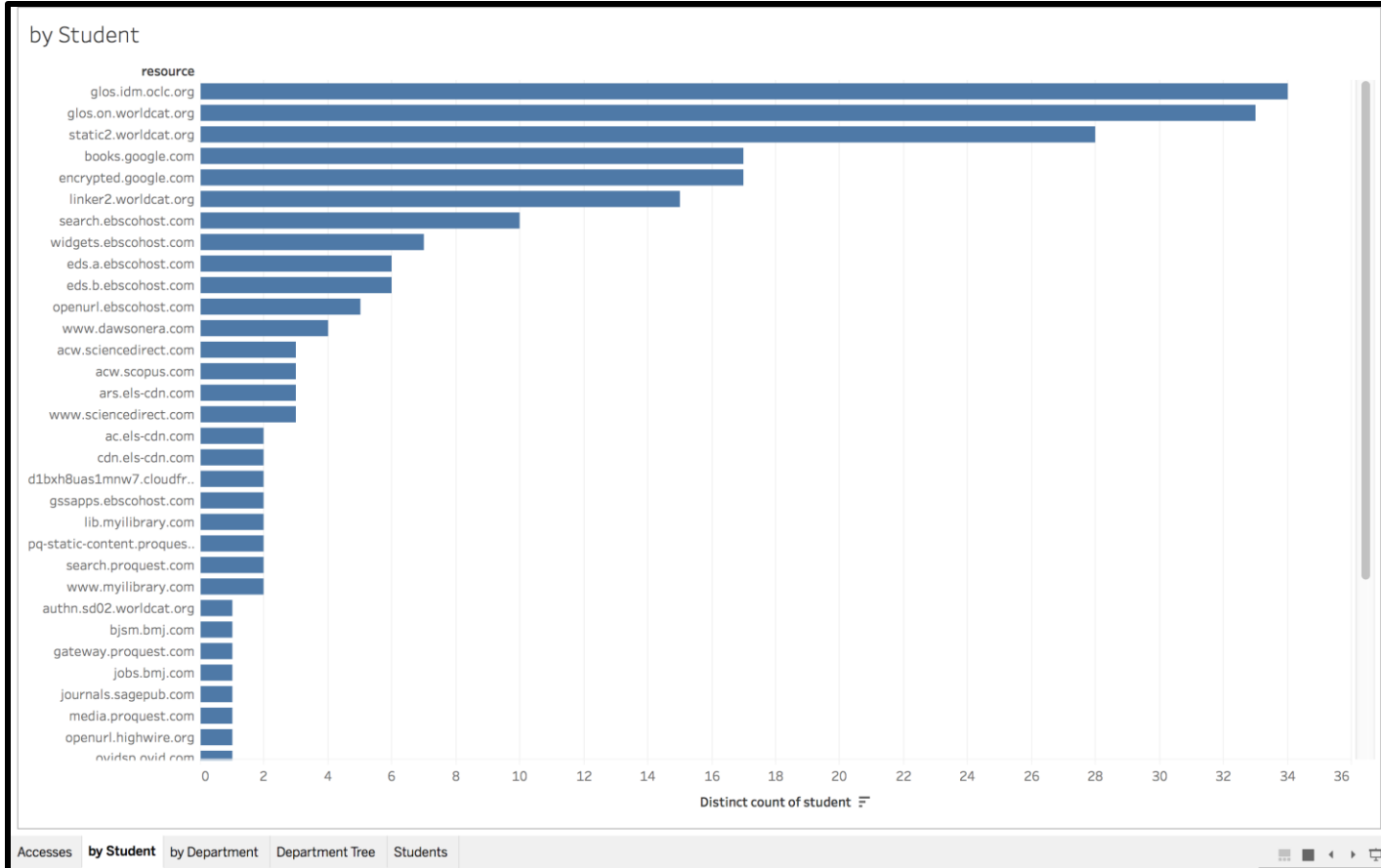
by Department



- resource
- (All)
  - ac.els-cdn.com
  - acw.sciencedirect.c...
  - acw.scopus.com
  - ars.els-cdn.com
  - authn.sd02.worldc...
  - bjsm.bmj.com
  - books.google.com
  - cdn.els-cdn.com
  - d1bxh8uas1mnw7....
  - eds.a.ebscohost.com
  - eds.b.ebscohost.com
  - encrypted.google.c...



# Limited Granularity – do we need EZPaarse?



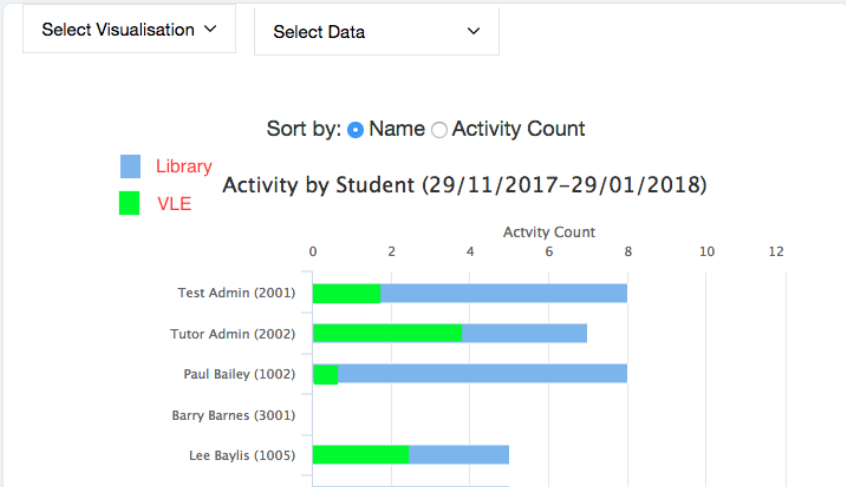
# Jisc's Data Explorer

Jisc : Tutor > Module Overview

## Module Overview: Advanced Jiscing for Business

**Module Instance ID** JISC-MOD2-2017 | 
 **Module ID** JISC-MOD2 | 
 **Module VLE ID** JISC-MOD2-2017

**Staff** Michael Webb , Tom Glanville , Lee Baylis , Paul Bailey , Jemma Greener , Tim Stratton , Rob Bristow , Test Admin , Test Tutor



**Start Date** ?

2017-11-29

**End Date**

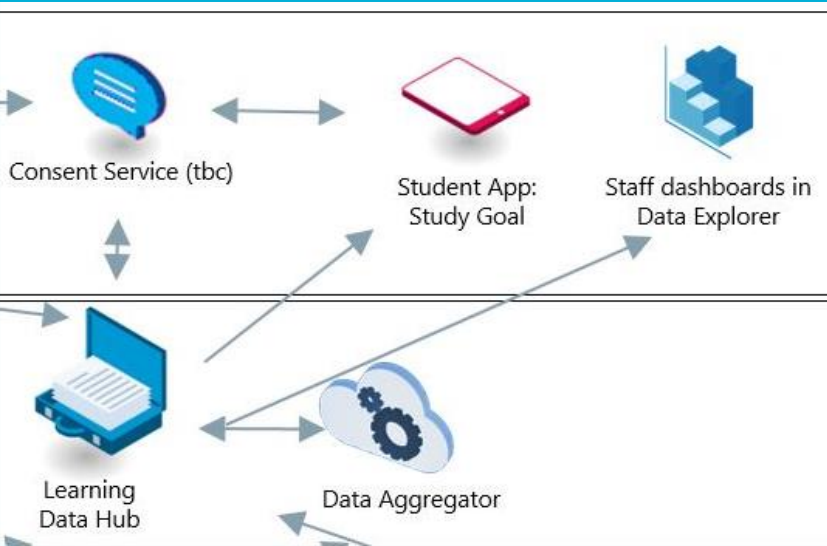
2018-01-29

**Assessments** ?

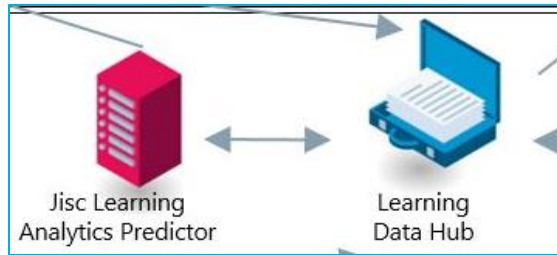
Marked Assessments Count

1

MOD1-ASSESS3



## Moving Forward



xAPI Plugins!



...Costs? Benchmarking...?



# Thank you

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