



CODiE Summary Document

CATEGORY: Best Big Data Reporting & Analytics Solution

Recognizes the best solution for reporting and analyzing actionable intelligence from massive data sets containing a variety of data types.

ProQuest Product: ETD Dashboard

The ETD (electronic theses and dissertations) Dashboard provides institutions with insights into the global impact of their graduate research being displayed in the ProQuest Dissertations & Theses Global database. The ProQuest Dissertations & Theses Global™ is the most widely used collection of dissertations and theses serving 3,100 university libraries and 4 million researchers with a searchable database of more than 5 million dissertations and theses from over 4,100 institutions worldwide.

The ETD Dashboard is a free web-based application made available to any institution that submits dissertations or theses with ProQuest. It is a visual summary of data generated from the usage and retrieval on the ProQuest platform. ProQuest has worked closely with development partners from universities around the world to build reports that assist graduate schools and libraries with data driven decisions. This includes annual reports that support resource allocation/funding requests, institution and program marketing, and student and faculty recruitment efforts. Institutions will be able to highlight subject areas of strength, benchmark performance against other university groups, identify and recognize most retrieved authors/titles, and identify other university partners for shared research endeavors. Export options are provided that allow universities to present and manipulate the data for external/internal stakeholders. Users have the ability to share metrics, graphs, and charts as image files and export raw data into .csv files for downstream analysis.

ProQuest provides this free dissemination and amplification service to graduate research institutions around the world. Research institutions want to ensure that their graduate schools are performing to high standards since this directly effects their quality of faculty and student recruitment, which is vital to their business. Research institutions are measured and ranked by Times Higher Education in which Research, Knowledge Transfer, and International outlook are the key performance indicators. Being able to address the success of research output and quantify its reach throughout the scholarly community is an invaluable data point to support their future institutional goals and funding initiatives. It is challenging for these institutions to gather large data sources that show evidence of their validity. With ProQuest providing them with this service and ETD Dashboard tool, they have provided a succinct measure of big data into applicable visualizations that allow institutions to take action; promote their research



strengths and popular authors, benchmark against their peer institutions, and seek out new and exciting collaboration opportunities with other institutions.

Introductory Video: <https://youtu.be/LJseq8D3YtA>

<https://disdash.proquest.com/>

User Name: demo@etddemo.com

Password: Dashdemo1*

ProQuest meets the following criteria by:

- Analytics - Evaluating and providing insights into business processes. May include, drill down, data exploration and multi- dimensional analysis.
 - Provides insights into the amplification of University research outputs
 - Drill Down/Cross-sect:
 - By Subject
 - By Date of Publication
 - By Date of Retrieval
 - By Degree Type
 - By Format
 - By Cohort (Predefined or Custom)
- Customization – Is this solution customizable?
 - Yes. Report criteria can be manipulated. Filtering can be saved.
- Data performance – How quickly and reliably is the data transferred to/from devices or resources?
 - Data is uploaded to the data warehouse on a monthly basis, with that monthly data available for query by the Dashboard by the 15th of the next month.
 - The application is intended to render cached views in < 2 seconds, and update the page after new filter criteria are added in <10 seconds.
- Ease of use – How well does the product allow users to achieve goals with effectiveness, efficiency, and satisfaction in a specified context of use?
 - Data visualizations were developed in collaboration with development partner university users. They were crafted with the intent of making big data easy to digest and to visually represent data relationships so that the information is actionable for the university.
 - Users can easily lift the data to meet their needs in various contexts. Png. Files can be downloaded for stakeholder presentations or raw data sets can be exported so that it can be manipulated further or combined with other data sets that the institution may be evaluating. The customization of the filters and the export options give the user the flexibility to apply the data to their decision-making processes surround marketing promotions, grant funding, and future resource and graduate program planning.



- Functionality of key attributes – Do the key attributes function as described?
 - Key Attributes:
 - **Display Results on Subject-Area Strengths and Most Access Titles:** Delivers data visualizations and reports on Top Subjects and Top Retrievals to support university recruitment. Institutions use this data to highlight particular department or program research internally, for external marketing, and for alumni donation fundraising.
 - **Display Comparison Data for University Benchmarking:** Delivers data in Retrievals Benchmarking report to visualize academic benchmarking. Institutions use this data to demonstrate the global footprint of their graduate research and for internal benchmarking of their own program performance.
 - **Display Usage Evidence of the Value of Publishing:** Delivers data in Historical Retrieval Trends to show and validate the impact of widely sharing work. Institutions use this data to inform their students' embargo decisions
 - **Display Usage Information in Alignment with User Location:** Delivers data in Retrievals by University and Retrievals by Country to support the researchers/authors' future career development. Institutions use this data to identify post-graduate collaboration opportunities for future research with other universities or geographical locations.
- Implementation – How easily and quickly can the solution be implemented?
 - Web-based platform. No downloads no software upgrades. Just requires username and password
 - For existing ETD Administrator users, it was pushed to their existing accounts seamlessly. ETD Administrator is an existing Dissertations workflow tool that current customers have the option of using to route, provide feedback, approve, and publish dissertations.
 - Training can be self-service with support found in built in access points as well as supplied LibGuides.
 - ProQuest also supplies in-person training upon request
- Innovation – is the product using cutting edge technology, strategies, ideas or features?
 - In order to improve the application performance and support future enhancement development, ProQuest migrated the entire back end from Oracle to Amazon Redshift. In conjunction new APIs were developed and connected the database to the User Interface that enabled faster rendering of the data visualizations to the user.
 - New Benchmark metrics to deliver on customer desires to measure against their peers (without compromising privacy).
- Integration – Can the solution easily integrate data from a variety of sources?
 - Today the ETD Dashboard only reports on PQ Platform usage data. However, this has been identified as a future development pathway.
- Performance management – How well does the platform allow you to track, monitor and drive performance?
 - Allows you to track and monitor any particular department or program's research performance on PQDT
 - Allows you to demonstrate the global footprint of graduate research through the use of Benchmarking to the performance of other institutions



- Provides insights into defining exemplary thesis/dissertation examples, can analyze per title by using Most Accessed data.
- Can monitor the usage coming from other institutions, determining if there are alignments in subject-area specialization. Leverage this knowledge to establish future collaboration opportunities across different institutions.
- Understand what subject areas are accessed most often to inform decisions made to prioritize additional print theses for future digital preservation efforts
- Monitor digital usage and compare to inter-library loan requests occurring internally to demonstrate the impact of online access and availability and justify future investments.
- Scalability – Is the infrastructure scalable?
 - Yes. It is scalable on-demand on the cloud. The front-end and back-end infrastructure are designed to automatically scale up in response to increased demand to ensure that the user experience is not impacted during periods of peak demand.
- Security – Does the solution offer adequate security features? May include user privileges, fraud detection/prevention, regulatory compliance and more.’
 - Trust Arc is in place. Implementing SSO authentication. ProQuest developed various roles and can control user privileges. ProQuest doesn’t allow other users to see outside institution’s data.
 - ProQuest has implemented technologies and processes that ensure that they meet global cookie compliance, are GDPR compliant and secure consent before collecting anonymized usage data for internal tracking and assessment purposes. They’ve implemented Account and Role Based permissions that limits an institution to view retrieval data for their own titles published with ProQuest.
- Visualization - Reports to help organize data insights into a format that can be easily configured, shared and interpreted.
 - Yes, available on the dashboard and as downloadable colorful, sharable images in the form of png files for presentation purposes.
 - The option exists to exports data sets as .csv files so that they can be integrated with other data sets of further manipulated.
 - Customization can be accomplished through the filtering options which can be saved for easy future use.