### DSTk v1 Modules

<table>
<thead>
<tr>
<th>Unit Profile</th>
<th>Program Performance</th>
<th>Course Efficiencies</th>
<th>Instruction Insights</th>
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</thead>
<tbody>
<tr>
<td>Provides an overall outlook on a unit’s business inputs/outputs</td>
<td>View program success and find areas of opportunity</td>
<td>Analyze efficiencies in course offerings</td>
<td>How are people resources being utilized?</td>
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<tr>
<td>Metrics: Course Credit Hours and Revenue, Student Headcount, Faculty/Staff Headcount and Expenditures</td>
<td>Metrics: Student Headcount, Credit Hour and Revenue Contribution, Program Flows, Demographics</td>
<td>Metrics: Credit Hours, Sections Offered, Course Fill Rates, Modality Utilization, DFWs</td>
<td>Metrics: Headcount and FTE, Workload, Instruction Expenditures</td>
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<tr>
<td>School/College Profile</td>
<td></td>
<td>Level- Set Page</td>
<td>Main Page</td>
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<tr>
<td>- School/College Comparison</td>
<td></td>
<td>- High-level overview of primary program related detail</td>
<td>- School/College Comparison</td>
</tr>
<tr>
<td>- High-level Trends</td>
<td></td>
<td>- School/College Comparison</td>
<td>- Instruction by Rank</td>
</tr>
<tr>
<td>Department Profile</td>
<td></td>
<td>- Department Comparison and Analysis</td>
<td>- Faculty Expenditures</td>
</tr>
<tr>
<td>- Formerly “Scenario Planner”</td>
<td></td>
<td>- Student headcount and credit hour contribution by Student Type</td>
<td>- Instructional Capacity Gap</td>
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<tr>
<td>- Department Comparison</td>
<td></td>
<td>- Program Flows – shows where students are going</td>
<td>- Department Breakdown</td>
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<tr>
<td>- “The Breakdown” provides analysis comparing costs/benefits by department</td>
<td></td>
<td>- Demographics – who are your students and where to they come from</td>
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</tbody>
</table>
https://www1.ucdenver.edu/offices/institutional-research-and-effectiveness/decision-support-toolkit

- The website serves as a starting place to each of the DSTk modules
- Stores training resources
- The DSTk website is housed under the Office of Institutional Research webpage
- For easy access, Google: “CU Denver Decision Support Toolkit”
Start with the **Unit Profile**

- Gain insight on high level stats from all parts of your business with the **School/College Overview**
  - View your data as compared to the other Schools and Colleges
  - Keep track of your high-level metrics and trends

- Dive deeper the **Department Detail**
  - Formerly the **FY 20-21 Scenario Planning Resource**
  - Sort through department level data
  - Use **The Breakdown** to view analysis and trends on department level detail
  - Dive even further into program and subject level comparisons

Once you’ve found some areas to dig into, dive deeper with the Program Performance, Course Efficiencies, and Instruction Insight modules
Get into course offerings with the Course Efficiencies module

- Use the Level-Set page as a place to start to understand your course level data
  - Jump to The Breakdown section to start comparing stats by department

- Dig into more detailed analysis all the way down to the subject level on the Detail page
  - Look at fill rates and section utilization
  - Find savings with Collapsible Course analysis
  - Narrow down high and low demand courses
  - Know when to offer classes with the Course Demand Calendar
  - Learn which modalities work best
  - Identify areas where students are most successful
Identify your thriving programs with the **Program Performance** module

- The **Level-Set** page serves as a starting place in understanding your program level data
  - **The Breakdown** sets you up to start comparing stats by department

- Use the **Detail** page to get dive deeper into more granular data at them program level
  - View headcount trends by different groups of students
  - Understand credit hour and revenue contributions
  - Use **Program Flows** to view where students are end up from one semester to another
  - Find out where your students are coming from with the High School/Transfer College Map
Understand resource utilization with the **Instruction Insight** module

- Understand your instructional costs
  - As a percent of total expenditures
  - In terms of cost per credit hour

- Look at credit hours and sections being taught by faculty rank

- View trends on workload by rank
  - Use the **Instructional Capacity Gap** analysis to compare target workload to actual

- Compare departments through all stats within this module and see how they’ve been trending
What’s Next?

Detailed Walkthroughs / Feedback
- Look out for calendar invites for each of the four modules
- We will do in-depth demonstrations and solicit feedback

Please reach out to set up an individual/tailored session
- Please reach out with questions you have on anything regarding DSTk content
- We’re happy to do in-depth, tailored walkthrough with your units. Please reach out to set up a session
- Is there something you’d like to see that’s not included in one of our tools? Feel free to request an enhancement!

Other users?
- Currently, DSTk is limited to those with approved access. Please reach out to David to add additional user

On to the Demonstrations

Contact David Doig with Feedback, Session Requests, and User Access Requests: david.doig@ucdenver.edu
Data Diagram

Source Diagram
Marrying Student Records with Financials and HR Data

- Human Resources (CIW and OIRE)
- Budget and Finance (CIW)
- Student Records (OIRE)
  - Student Level
  - Class Level
- Mapping Source
- Tuition Rate Tables
- Various Merged Analytical Tables
- DSTk
Leveraging OIT Tools For Seamless Updates

- In its optimal state (beyond version 1), the Toolkit will utilize Exasol and Mulesoft – enterprise data movement and warehousing tools provided by OIT.
- This will allow for completely hands-off data refreshing and automation, and for some applications, near real-time data.
Outreach, Engagement, Maintenance, Improvements

**Short Term** (Q2 FY 2021)
- **Outreach and Training** (October 2020)
  - In-depths demos of each of the modules
  - Offer consultation to Schools and Colleges on
- **Collect Feedback** (November 2020)
  - Hold feedback sessions after demos
- **Enhancements and Modifications** (November and December 2020)
- **Data Movement and Infrastructure**

**Medium Term** (Q3 & Q4 FY 2021)
- **Version 2 Planning. Areas of focus:**
  - D2/Extended Studies
  - Central Administration Modules
  - Forecasting and machine learning
- **Communications**
  - Blog
  - Townhalls
  - Case studies
  - Consultation