The CHALLENGE

Faculty have limited time to gather and analyze instructional data during the semester to make changes or interventions that can improve student outcomes before a student fails the course. The solution was required:

- To provide faculty with evidence of supporting student success for promotion and tenure documentation.
- To be FERPA compliant.
- To use the Caliper Analytics standard.
- To protect instructor data from surveillance.

The SOLUTION

Kennesaw State University (KSU) is taking advantage of cloud computing technology and automation to distribute actionable analytics to faculty and train them to interpret and act on critical data points. By leveraging faculty research expertise and uHoo Analytics, faculty have insight into key measures of student success.

Image 1: uHoo Course Analysis Dashboard (redacted in red)

Image 2: uHoo Student Analysis Dashboard (mock data)

Here's how uHoo Analytics works:

- *Monday Measures Email*: Faculty receive one email prioritizing key data points from the past week to alert faculty to students, assignments, and quiz questions displaying concerning trends and links faculty directly to the uHoo Analytics dashboards (Image 3).
- *uHoo Faculty Dashboard*: A collection of dashboards providing detailed insights of individual students, assessments, quizzes, rubrics, alerts, and overall course performance (Images 1 and 2).
- *Faculty MicroCredentials*: A four course series prepares faculty to use uHoo Analytics and think like a learning scientist.
- *uHoo Program Coordinator Dashboard*: These dashboards automate data collection and provide detailed visualizations about program assessments delivered across course sections and across semesters.

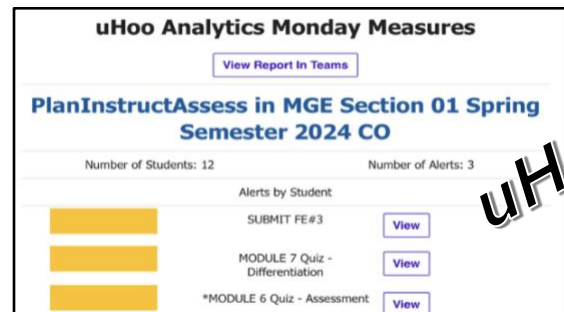uHoo Analytics is comprised of the following dashboards for faculty:

- *Course Analysis*: Data and alerts for all students in a selected course. (Image 1)
- *Assignment/Quiz Analysis*: Data for quizzes, assignments, and rubrics for the selected course.
- Student Analysis: Data for each student in the course. (Image 2)
- *Quiz Question Analysis*: Data for individual quiz questions in a selected quiz in the selected course.
- *Alert Analysis*: Data for assignment, quiz, and engagement alerts.
- *Rubric Analysis*: Data for individual rubric criteria in a selected rubric in the selected course.
- *Program Assessments*: Program coordinators are provided drillable rubric and quiz assessment data.

The RETURN ON INVESTMENT

KSU developed uHoo Analytics, an alerting system that pulls and visualizes data from D2L to empower faculty in the following ways:

1. *Identifying Students in Need*: uHoo Analytics prioritizes faculty attention with alerts for students who may require additional support or tutoring.
2. *Visualizing Common Challenges*: The tool provides visualizations that reveal common stumbling blocks faced by students within a course.
3. *Course Improvement Insights*: uHoo illuminates opportunities to revise course content, activities, and assessments.
4. *Automation of Program Assessment Processes*: Automates the pull and visualization of key program assessment data from across course sections simplifying program coordination responsibilities for faculty.

Image 3: Monday Measures Alerting Email (redacted in gold)

The LEARNING IMPACT OUTCOMES

Today KSU has over 230 faculty using uHoo Analytics with the most popular dashboards being Course Analysis and Student Analysis. This includes a 190% uptake in the first quarter of 2024. The Fall 2023 pilot research study found that uHoo:

- Supported faculty in efforts toward student success.
- Informed instructor-made course improvements and student interventions.
- Guided faculty adoption of new teaching strategies.
- Helped faculty document teaching effectiveness for reviews.
- Facilitated faculty access of uHoo an average of 5 times/month.