

Adaptive learning : a concept and a tool

Personalized Learning

- content delivery, assessment, and mastery are “adapted” to meet students’ unique needs and abilities
- comes in the form of automated digital learning platforms driven by predictive modeling, learning analytics, and the latest research in brain science, cognition, and pedagogy.

Automated Teaching

- replaces the traditional classroom model with automated and more scalable formats less dependent on in-person instruction
- more importance on supporting and coaching role, with less time devoted to delivery of content
- more time focused on one-to-one student engagement and self-paced guidance through a curriculum

The “facilitator-driven” approach

The “facilitator-driven” approach refers to products that provide instructors with actionable student and cohort profiles — essentially dashboards.

- This approach is content-driven, which means that the dashboard output links a specific course’s content inventory “within a system of standards or learning sequences.”
- Facilitator-driven systems provide instructors with information they can act on.
- In the facilitator-driven model, the regularly feedback of a teacher is an integral part of the concept
- A facilitator driven system provides teachers and curriculum designers the ability to make granular-level adaptation of the curriculum based on performance profiles and analytics of student’s performance.

The “assessment-driven” approach

In this approach, the system provides close-to-real-time, “dynamic” adjustments of the instructional content.

- Assessment-driven systems make their own adjustments
- In order to provide these adjustments, assessment-driven systems must be correlated dynamically with assets, items and learning objects to standards, outcomes or other frameworks.
- The assessment-driven model allows students to move the course individually or in a group, without instructor interaction
- This approach can have limited or no facilitator interaction where the integrated technology offers learners near real-time, seamless adjustments to instructional content
- With an assessment-driven approach, there is a heavy reliance on the technology’s ability to monitor, track and analyze data to customize the content for the learner.

ADAPTIVE LEARNING

