

LEAP: Adaptive technology in the Classroom

**Improving
Learning
Experiences:**
Student Attitudes
Towards the Use of
Technology

To view the complete report:
visit www.Brightspace.com/UK/NUS

Research by



Sponsored by



LEARNING STYLES

Passive vs. Active Learning

Average Retention Rate

(% students recall after 24 hours)



Reading

10%



Audio-visual

20%



Demonstration

30%



Lecture

5%



Discussion groups

50%



Practice by doing

75%



Teaching others

90%

The Learning Pyramid." The Peak Performance Center. The Peak Performance Center, n.d. Web.



Big Data in Education

Meaningful Insight

- Students
- Instructors
- Programs
- Institution

Real-time Data

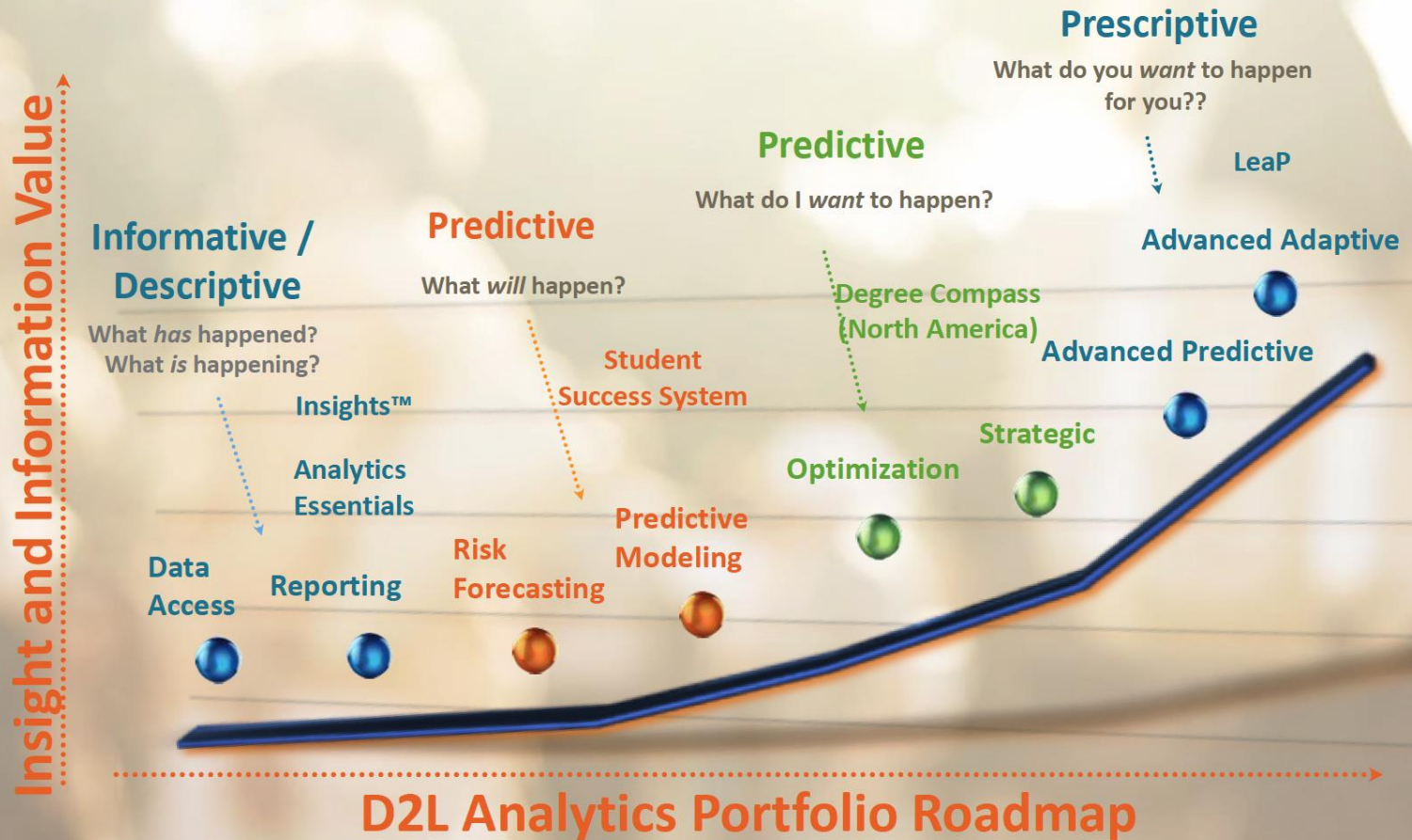
- Dashboards
- Statistical Analysis
- Machine Learning
- Data Modeling
- Data Mining

Transforming Education

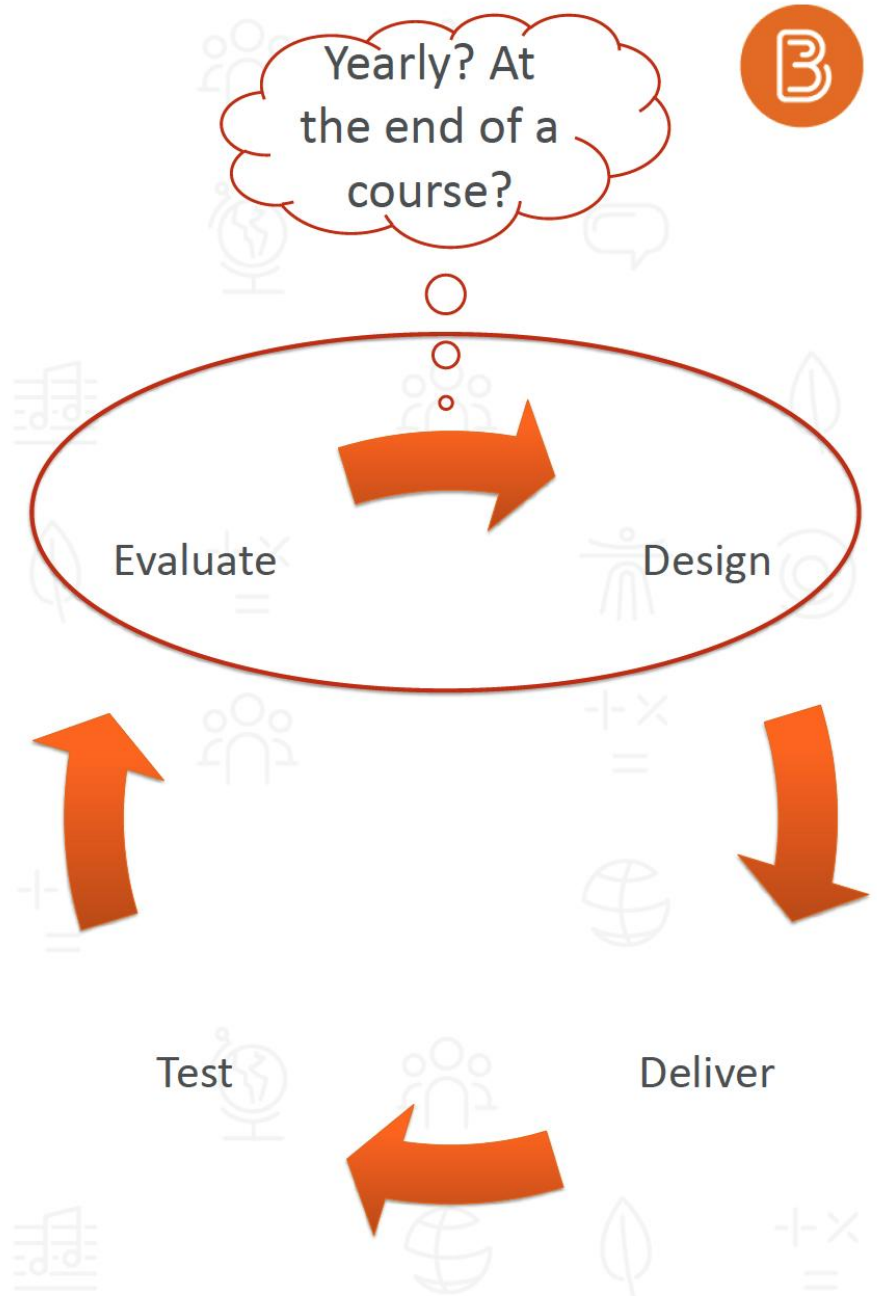
- Grades
- Outcomes
- Evidence
- Life-long Learning

Personalized Learning

Learning Analytics Maturity Model



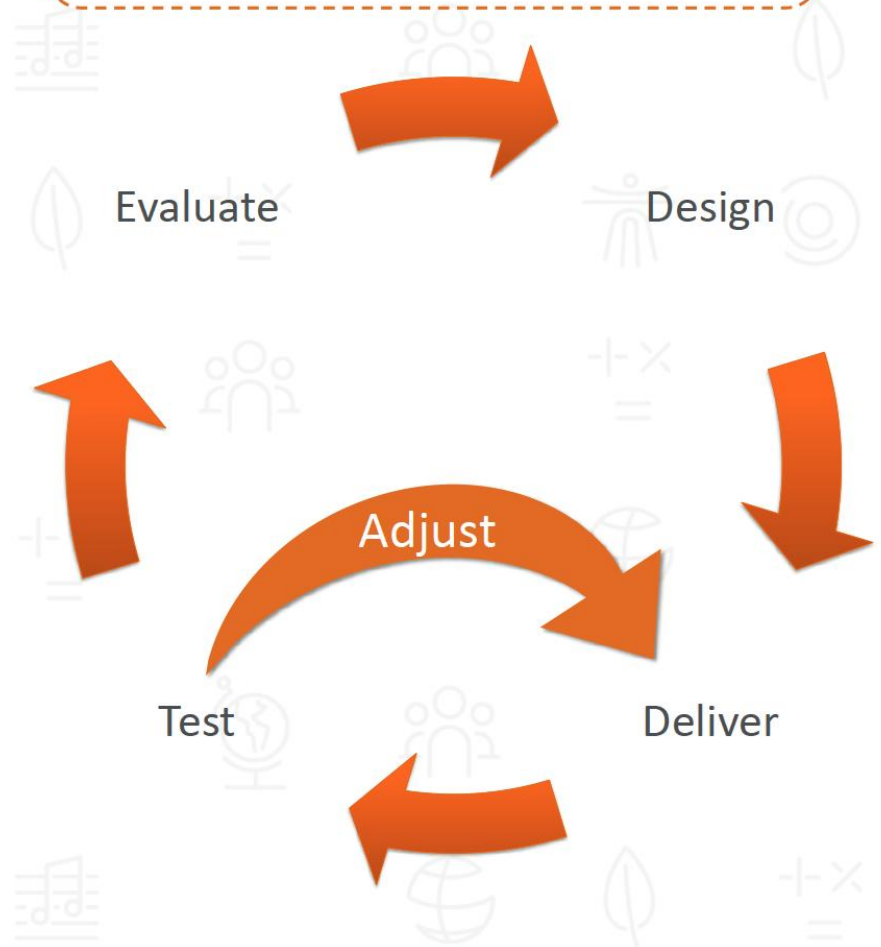
The Current State:



Proposed...



Data related to a student's experiences can allow for immediate adjustment and personalization of the learning experience for students



LeaP Adaptive Engine

What is adaptive learning?

- cognitive and prescriptive business intelligence practices
- recommends, but also suggests alternate paths
- learns from the user

LeaP recommends content for students to help them master a topic.



What is LeaP?



Personalize the learning experience



Adaptive technology tool that personalizes learning – by personalizing your learning content

Table of Contents > D2L Leap > Chapter 1: Ecosystems

Chapter 1: Ecosystems

Search Study Progress Preferences

Learning Path

- Aquatic ecosystem / Biotic characteristics
- Biome / Other biomes
- Biome / Other biomes / Map of biomes
- Biome
- Herbivore / Predator-prey theory (herbivore-plant interactions)
- Bacteria
- Food Chains, Webs and Pyramids
- Trophic level / Overview
- Bacteria / Interactions with other organisms
- Host (biology)

BIOME / OTHER BIOMES / MAP OF BIOMES

Source: http://en.wikipedia.org/wiki/Biome#Map_of_biomes

Previous Recommended Reading Practice Next

Allows educators to place the learner at the center of their own learning experience

Check Learner Knowledge



Table of Contents > D2L Leap > Chapter 1: Ecosystems

Chapter 1: Ecosystems

Search Study Progress Preferences

Learning Path

- Aquatic ecosystem / Biotic characteristics
- Biome / Other biomes
- Biome / Other biomes / Map of biomes
- Biome
- Herbivore / Predator-prey theory (herbivore-plant interactions)
- Bacteria
- Food Chains, Webs and Pyramids
- Trophic level / Overview
- Bacteria / Interactions with other organisms
- Host (biology)

BIOME / OTHER BIOMES / MAP OF B

Source: http://en.wikipedia.org/wiki/Biome#Map_of_biomes

Practice

_____ biomes include tundras, temperate forests and grasslands.

- ☐ A. Marine
- ☐ B. Desert
- ☒ C. Terrestrial
- ☐ D. Mountainous
- ☐ Don't know

Source not available

CORRECT

Try Another

Recommended Reading Practice Next

Continually adapting learning paths allow learners to challenge their knowledge development at any point along the learning journey

Additional Resources



Table of Contents > D2L Leap > Chapter 1: Ecosystems

Chapter 1: Ecosystems

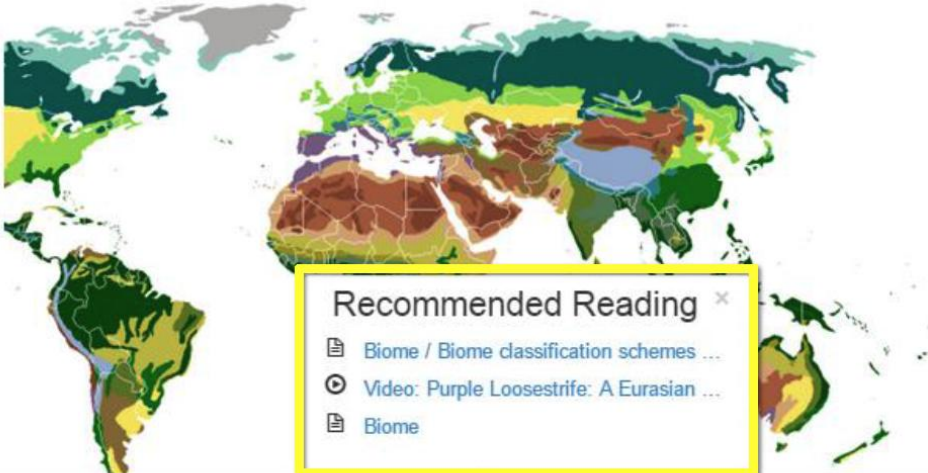
Search Study Progress Preferences Practice Test Me

Learning Path

- Aquatic ecosystem / Biotic characteristics
- Biome / Other biomes**
- Biome / Other biomes / Map of biomes
- Biome
- Herbivore / Predator-prey theory (herbivore-plant interactions)
- Bacteria
- Food Chains, Webs and Pyramids
- Trophic level / Overview
- Bacteria / Interactions with other organisms
- Host (biology)

BIOME / OTHER BIOMES / MAP OF BIOMES

Source: http://en.wikipedia.org/wiki/Biome#Map_of_biomes



Recommended Reading

- Biome / Biome classification schemes ...
- Video: Purple Loosetrife: A Eurasian ...
- Biome

Previous Recommended Reading Practice Next

Thank you!



Rafi Syed
Sr. Technical Solutions Engineer - D2L