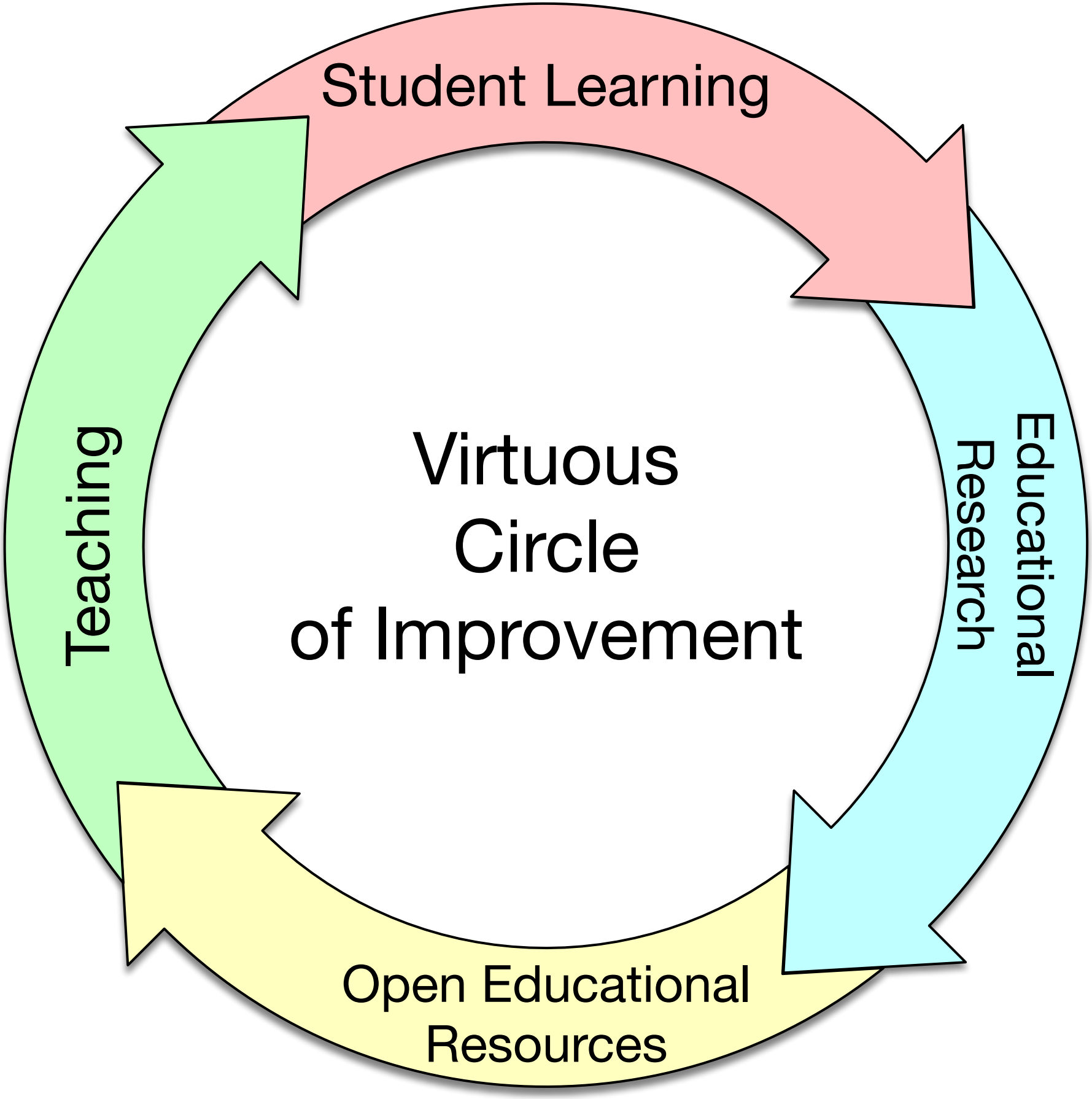
# BRAD MILLER — JUNE 12, 2023

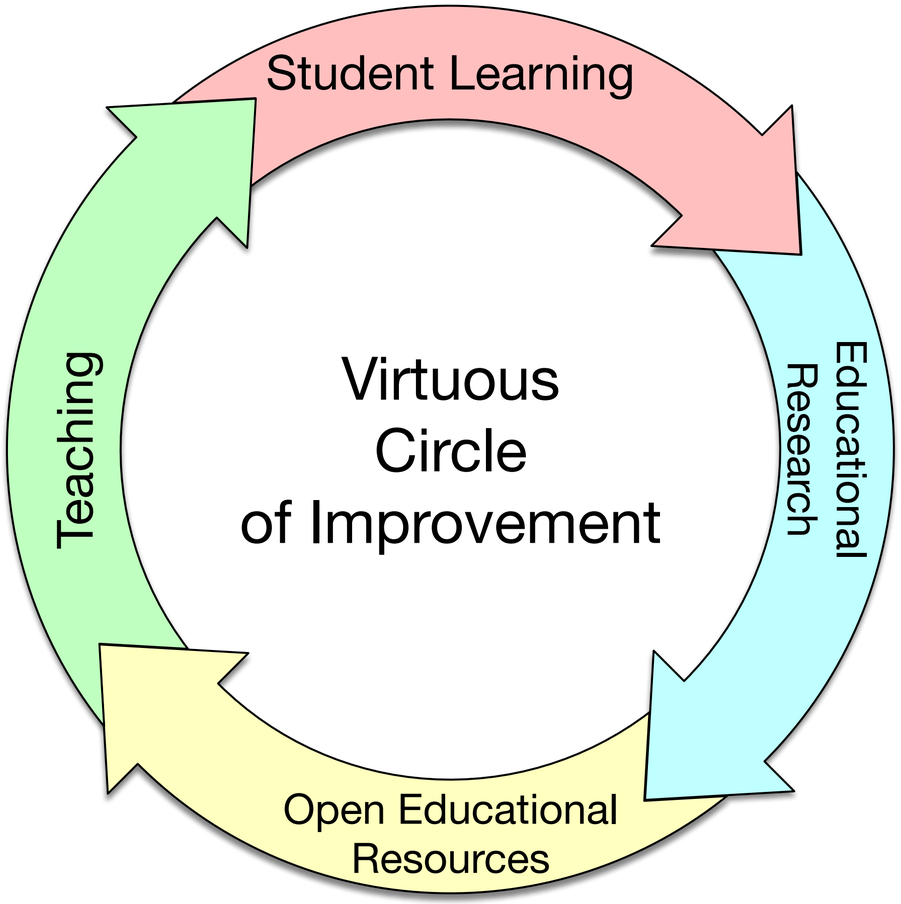
# What is a LEAP? (Part1 - Learning Eng)


Student Learning
Educational Research
Open Educational Resources
Teaching
Virtuous Circle of Improvement

**Learning Engineering** is the systematic application of evidence-based principles and methods from educational technology and the learning sciences to create engaging and effective learning experiences, support the difficulties and challenges of learners as they learn, and come to better understand learners and learning.

# What is a LEAP? (Part1 - Learning Eng)

**Learning Engineering** is the systematic application of evidence-based principles and methods from educational technology and the learning sciences to create engaging and effective learning experiences, support the difficulties and challenges of learners as they learn, and come to better understand learners and learning.



# What is a LEAP (part 2 - analytics)

**Analytics**

- **Students** - How am I doing? What do I need to do next?
- **Teachers** - How are my students doing? How am I doing? How can I improve as a teacher? How can I help my students?
- **Authors** - How is my book doing? What materials are most useful/popular/read? How can I improve my book? ...
- **Researchers** - How are students learning? Is this exercise more effective?  Is this question type more effective? Is this explanation more effective? ....