

# National Defense University Information Resources Management College



## The Agile Classroom: Can Syncing Enterprise Data with Mobile Devices Get Us There?

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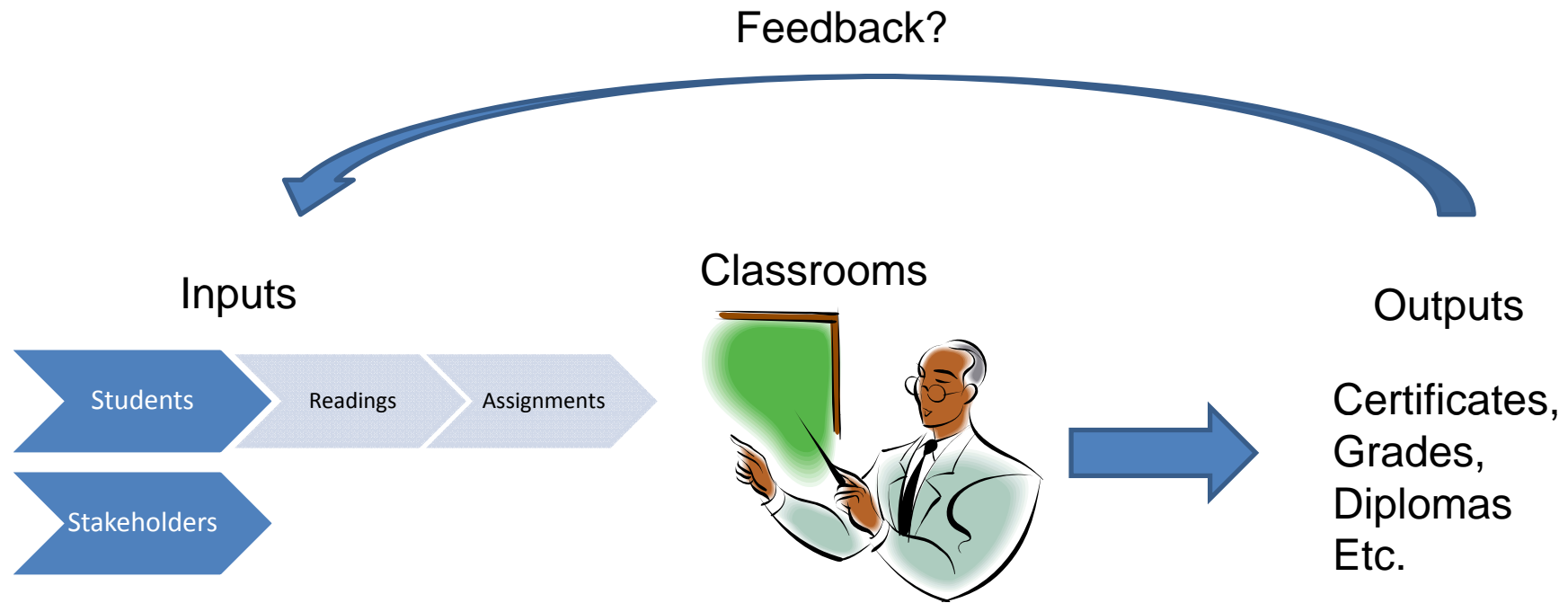
# Current status of education

- Vision of learners today film clip

<http://www.youtube.com/watch?v=dGCJ46vyR9o>



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# An "agile classroom"

- Uses Information Technology (IT):
  - Gulf between advanced users of IT and typical users of IT is growing.
    - 4 practices of high performing organizations:
      - Make use of improved measurement,
      - Greater use of field experiments,
      - More use of Information sharing,
      - Replication of innovations.

Source: Brynjolfsson, E., Innovating with Business Data, retrieved from <http://www.technologyreview.com/video/?vid=664> on April 12, 2011.



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# An "agile classroom"

## —Where are the agile classrooms

- MIT “TEAL”, <http://web.mit.edu/edtech/casestudies/teal.html>
- Stanford’s Wallenberg Hall, <http://scil.stanford.edu/news/TKTW.html>
- iCollege of the NDU, all readings in electronic form, many classes issue Amazon Kindles which contain assigned readings.



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# An "agile classroom"

- Uses Technology that students already use.
  - Smartphones (which are near learners 24 hours a day):
    - Increased interactivity.
    - Records inputs for further analysis:
      - What are common mistakes,
      - What are the attributes of successful learners.
  - Social Media
    - Automatically generated “tweets” when students begin and end readings;
    - Automatically generated “tweets” when students submit assignments.
    - Students who did well in course “101” also did well in course “220.”
    - These are examples of “classroom” experiments.

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# An "agile classroom"

- Uses some technology that students do not already have.
  - Management Dashboards
    - Measure student's performance;
      - How much reading on average did the class do versus how much did I do?
      - How many inputs to on-line discussions did I submit versus my colleagues?
      - When did I submit assignments?
    - Measure professor's:
      - Currency of readings;
      - Feedback: how long did it take for students to get feedback on assignments?

- Education needs to use more Information Technology.
- The Information Technology used in the classroom should be technology that learners already use.
- The Information Technology used in the classroom should be the technology used in the workplace.
- Metrics should be gathered on student performance, instructor performance, and stakeholder performance. Results should be used as feedback to improve the current system.

## Questions and Comments



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