MITx: The Learning Revolution

Professor Sanjay Sarma
Director of Digital Learning, MIT
edX

• A not-for-profit online destination for learning from the world’s great universities
• Founded by MIT and Harvard, supported by Berkeley, Caltech, Columbia, IIT Bombay, Tsinghua University, ETH Zurich – and more than 40 others
• OpenEdx is freeware platform created by edX
• Nearly 3 million enrollees from 195+ countries
edX versus MITx

edX is the platform for a global audience

MITx is the production house and the product
Internal adoption has been amazing

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Number of Courses</th>
<th>Courses Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>Fall</td>
<td>3</td>
<td>8.01rq, CC.801, ES.801</td>
</tr>
<tr>
<td>2013</td>
<td>Spring</td>
<td>7</td>
<td>5.11x, 6.041, 6.s064, 8.011, 18.05, CC.801, ES.802</td>
</tr>
<tr>
<td>2013</td>
<td>Fall</td>
<td>13</td>
<td>2.01, 2.03, 3.012, 3.091, 5.37, 6.341, 6.042, 8.21, 8.33, 8.021, 8.13, 18.03, CC.801</td>
</tr>
<tr>
<td>2014</td>
<td>Spring</td>
<td>27</td>
<td>2.01, 2.003, 5.03, 3.039, 3.086, 3.091, 5.11x, 7.013, 7.014, 7.06, 7.28, 8.011, 8.02, 8.13, 8.421, 6.00, 6.002, 6.003, 6.042, 6.s076, 6.874, 16.003, 16.90, 18.03, 18.05, 18.06, CC.802</td>
</tr>
</tbody>
</table>

Bar chart showing the increase in adoption from Fall 2012 to Spring 2014.
WHY?

BECAUSE WE ARE CRACKING THE CODE ON LEARNING
SHORT LECTURES, INSTANT FEEDBACK, REPEATED PRACTICE
Cracking the Code?

Outcomes: 2012 versus 2013

Percent of class

- 2012 % full credit
- 2012 % 80% of credit
- 2013 % passing with full credit
Students are beginning to like it

Student feedback: “Instant feedback = better study habits and I'm able to retain the right material right away”

► Other Physics Courses

[“Do you think that other physics courses could benefit from using MITx? (e.g. 8.01, 8.03)”]
Objects and Plan

OF AN

INSTITUTE OF TECHNOLOGY;

INCLUDING

A SOCIETY OF ARTS, A MUSEUM OF ARTS, AND A
SCHOOL OF INDUSTRIAL SCIENCE.

PROPOSED TO BE ESTABLISHED IN BOSTON.

Prepared by Direction of the Committee of Associated Institutions of Science and Arts;

AND ADDRESSED TO

MANUFACTURERS, MERCHANTS, MECHANICS, AGRICULTURISTS, AND
OTHER FRIENDS OF ENLIGHTENED INDUSTRY
IN THE COMMONWEALTH.

...the interests of Commerce and the Arts, as well as of General Education, call for the most earnest co-operation of intelligent culture with industrial pursuits.