About Arizona State University
- Fall 2016 enrollment of over 70,000 students across five metropolitan campuses
- Nearly 50% of students take at least one course online
- Nearly 30% of first-time, full-time undergraduates are awarded Pell grants; about the same proportion of students identify as being members of underrepresented minority groups

Rationale and Goals for Participation in the PLC Grant Program
- Arizona State University (ASU) is a leader in teaching and learning innovation using technology and has been piloting adaptive learning since 2011
- Participation in the PLC Accelerating Adoption of Adaptive Courseware grant program enabled ASU to move toward scale in its implementation of adaptive courseware in high-enrollment courses and while supporting best practice sharing and collaboration with peer institutions
- ASU seeks to scale adaptive courseware across ALL sections of nine high-enrollment courses, reaching over 9,600 enrollments (15% of general education enrollments) by December 2019

Implementation Status as of 6/30/2017
ASU has implemented adaptive courseware in seven of the nine courses targeted during the grant program. As part of the grant program, ASU faculty have adopted products from CogBooks, Learning Objects/Cengage, McGraw-Hill and Pearson to implement across mathematics, natural sciences, social sciences and humanities courses. Given its experience and leadership in innovation, ASU is playing a role of advisor and mentor to peers in the grant program that are at earlier stages of implementation. Peer mentorship and discipline-specific community support have emerged as important resources for implementation success.

Implementation Status

The APLU Personalized Learning Consortium (PLC) is a membership organization of public universities leveraging collaboration and scale to advance the use of technology to improve student learning, retention, and graduation through personalization. To learn more, go to www.aplu.org/plc
Implementation Challenges and Success Factors

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<tr>
<th>Challenges</th>
<th>Success Factors</th>
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<td>● Delayed content development in a math courseware product resulted in a delaying implementation</td>
<td>● Identification of an experienced grant Program Manager during the grant proposal stage and ongoing consistency of that role</td>
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<td>● Changes in departmental leadership have delayed implementation as grant managers bring new leadership up to speed</td>
<td>● Faculty familiarity with adaptive courseware as a result of ongoing adaptive piloting at the institution</td>
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<td>● The course redesign intended to implement adaptive courseware in active learning environments also requires redesign of physical spaces. Aligning the timing of these changes has been a challenge</td>
<td>● Dedicated and knowledgeable team at EdPlus, focused on innovation at scale</td>
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Implementation Impacts as of 6/30/2017

ASU is tracking the D-Fail-Withdraw (DFW) rate in sections adopting adaptive courseware to identify potential impacts of the adaptive courseware implementation on student outcomes. Data collected to date includes a comparison of DFW rates in the sections where adaptive courseware has been adopted to those where adaptive courseware is not in use, plus DFW rates from the same courses in the prior academic year (before the implementation adaptive courseware). Early data shows that students in sections where adaptive courseware was in use in Spring 2017 demonstrated an improved DFW rate as compared to those that did not use adaptive courseware in the same courses during that term or the previous year. Further analysis is required to determine whether the change in DFW rate is attributable to the courseware implementation and to see if the trend continues.

In future periods, ASU will aggregate data on the credit accumulation and completion, and retention and re-enrollment rates of students in courses using adaptive courseware as well as comparison groups. Takeaways from this data will be included in future reports.

To learn more about this adaptive courseware implementation contact:
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