





Product and Services Update 2019

Laura Kelley, Associate Vice President, Solution Strategy

Presenters: Mark Vanderweide, Director of Product Management

Moderator: Chris Triplett, Strategic Consultant

Webinar Reminders

- Participants will be automatically muted
- 10-15 minutes will be allocated for answering questions following the presentation
- Please submit questions through the Q & A panel within the webinar

Agenda

- New Service Offerings
- Product Update
- Product Roadmap
- Q&A

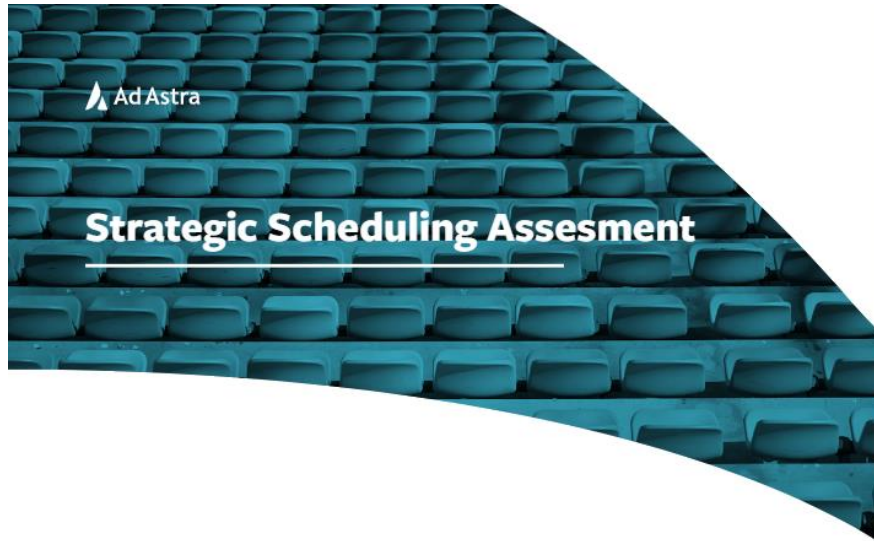


New Services Offerings

Laura Kelley, Associate Vice President,
Solution Strategy

Strategic Scheduling Assessment

(Readiness Assessment)



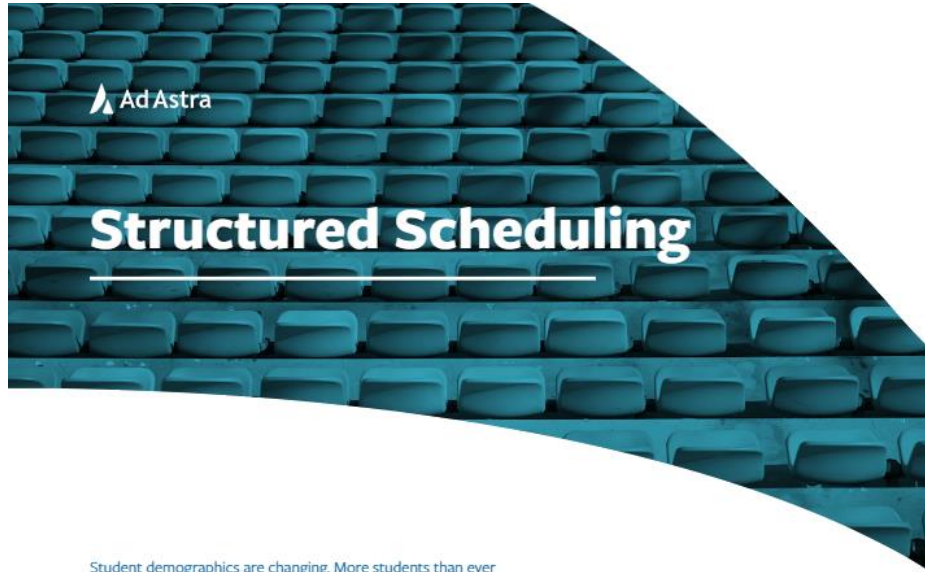
As an institution, do you have pain points around scheduling? Are you concerned that your systems are configured in a way that prevents efficient and effective scheduling? Are your business processes outdated?

Our consultants perform a deep dive into all aspects of scheduling. During an on-site visit, the consultant will break down each important component of the scheduling process to provide recommendations for improvements. The service deliverable will include an executive summary of findings and key points of emphasis to improve scheduling on campus.

Deliverables:

- Strategic Scheduling Checkup (if not already completed)
- Consultants will help lead an onsite assessment with schedule stakeholders -- Senior Leadership, Registrar's Office, Deans/ Associate Deans, Schedulers, Information Technology, and Students – Town Hall (if desired)
- During an onsite visit, critical components of the scheduling process will be covered (Ecosystem – systems implemented or planned, strategic Plan, pain points for scheduling, culture, scheduling policies and practices, courses, curriculum changes, pathways or meta-majors, advising, campus capacity, etc.)
- The service deliverable includes an executive summary of findings and key points of emphasis to improve scheduling on campus
- Follow up visit within 6 months

Structured Scheduling



Student demographics are changing. More students than ever are juggling work, childcare, transportation schedules, and other obligations, all while trying to attend school. Does your schedule take these students' needs into consideration? If not, structured scheduling can help.

Structured schedules allow students to schedule classes in a way that doesn't interfere with work or other obligations. As institutions start to align pathways, advising, registration, and institutional capacity, understanding the options available for structured scheduling is critical. Many case studies have shown structured schedules to be successful in increasing graduation rates.

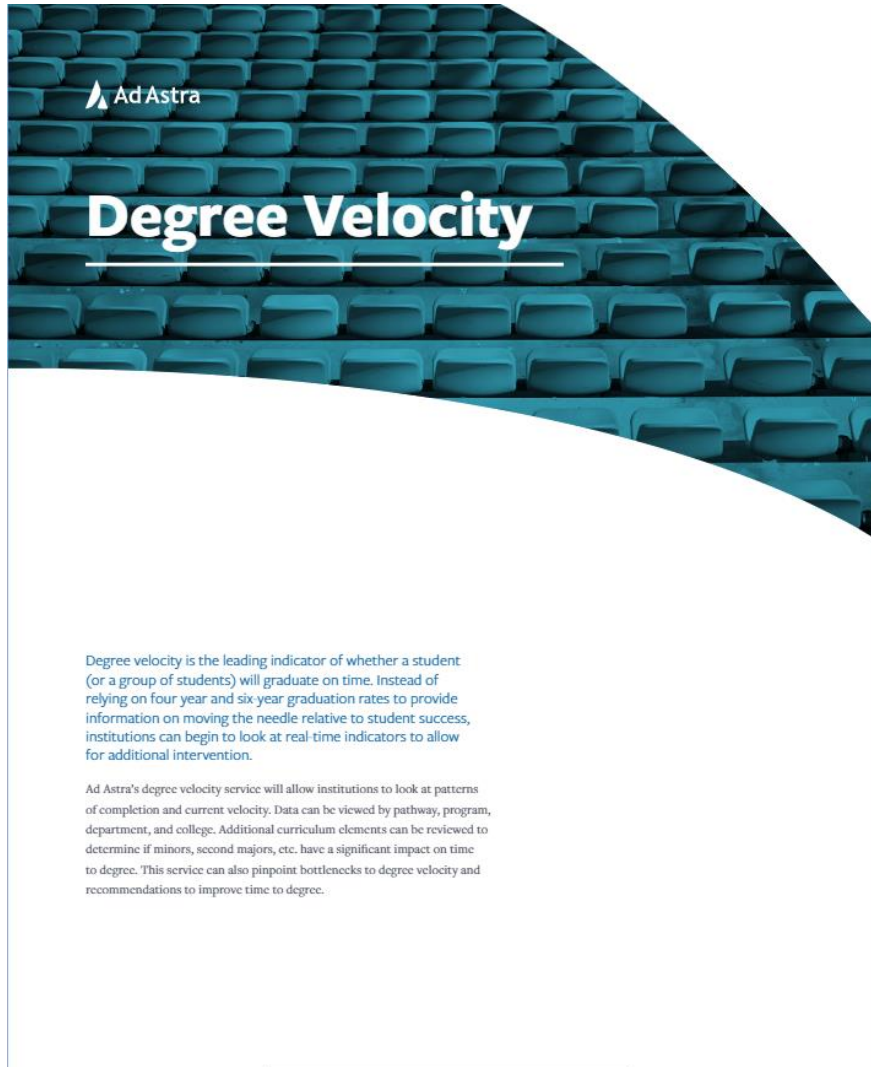
With varying student course placement needs and transfer credits, some institutions struggle to scale structured schedules. Ad Astra's structured scheduling service uses an institution's student information systems data, along with pathways, to accurately predict course needs and available blocks for scheduling. Ultimately, gathering students' information on availability for blocks is crucial for implementing structured scheduling, while understanding capacity and student needs are pivotal in trying to implement structured scheduling at scale. If this is a challenge you're facing, Ad Astra can help guide the design and optimization of your institution's structured schedules.

Note: This service could apply to freshman block scheduling OR structured scheduling of programs

Deliverables:

- Strategic Scheduling Checkup (if not already completed)
- Meeting Pattern Usage Analysis
- Capacity Analysis
- Pathways/Student Analysis
- Patterns in AP/Dual Credit
- Recommendations for Design Elements – meeting patterns, blocks, credit hour loads, parts of term
- Recommendations for Demand – Blocks coupled with student data, # of sections per block, ability to support critical mass or lack
- Onsite delivery (or remote)
- Executive Summary and Analysis Results

Degree Velocity

The graphic features a background of teal stadium seats. In the top left corner, the Ad Astra logo is displayed. The title "Degree Velocity" is centered in a large, white, sans-serif font, with a horizontal line underneath it. Below the title, there are two paragraphs of text in a smaller font.

Ad Astra

Degree Velocity

Degree velocity is the leading indicator of whether a student (or a group of students) will graduate on time. Instead of relying on four year and six year graduation rates to provide information on moving the needle relative to student success, institutions can begin to look at real-time indicators to allow for additional intervention.

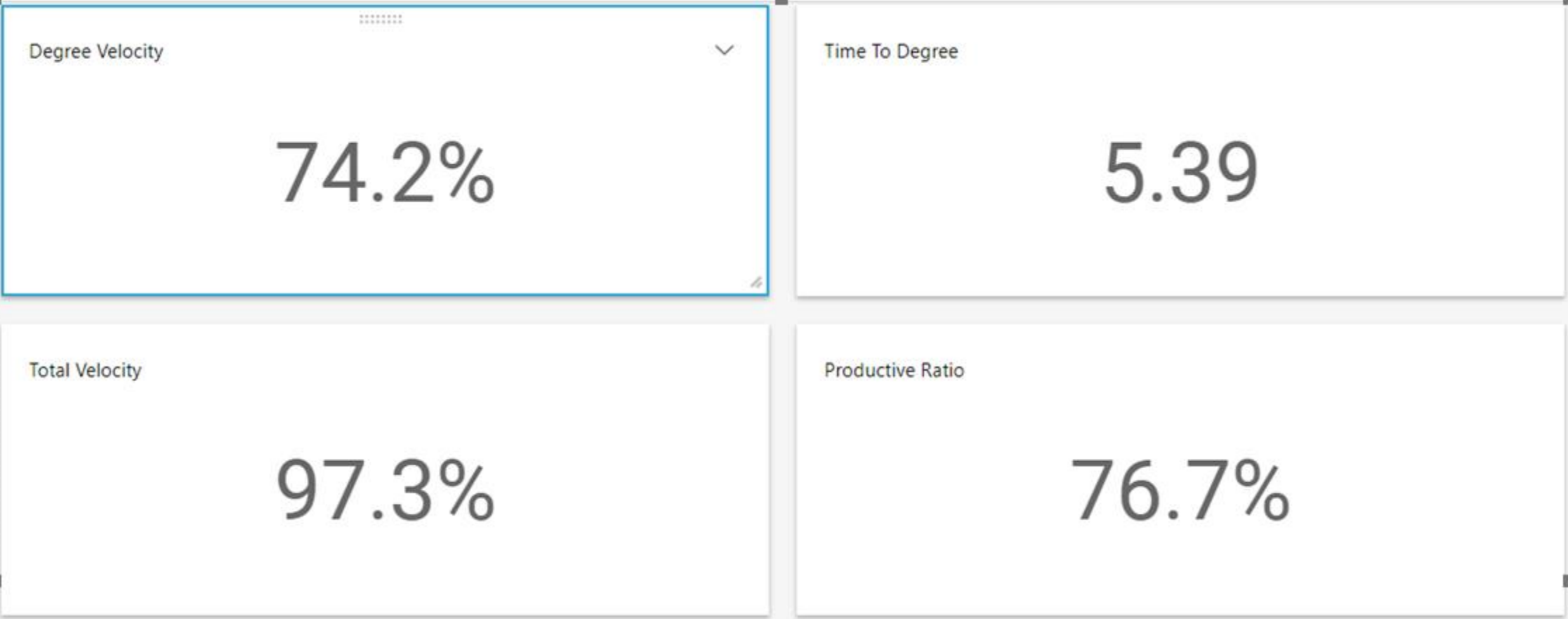
Ad Astra's degree velocity service will allow institutions to look at patterns of completion and current velocity. Data can be viewed by pathway, program, department, and college. Additional curriculum elements can be reviewed to determine if minors, second majors, etc. have a significant impact on time to degree. This service can also pinpoint bottlenecks to degree velocity and recommendations to improve time to degree.

Deliverables:

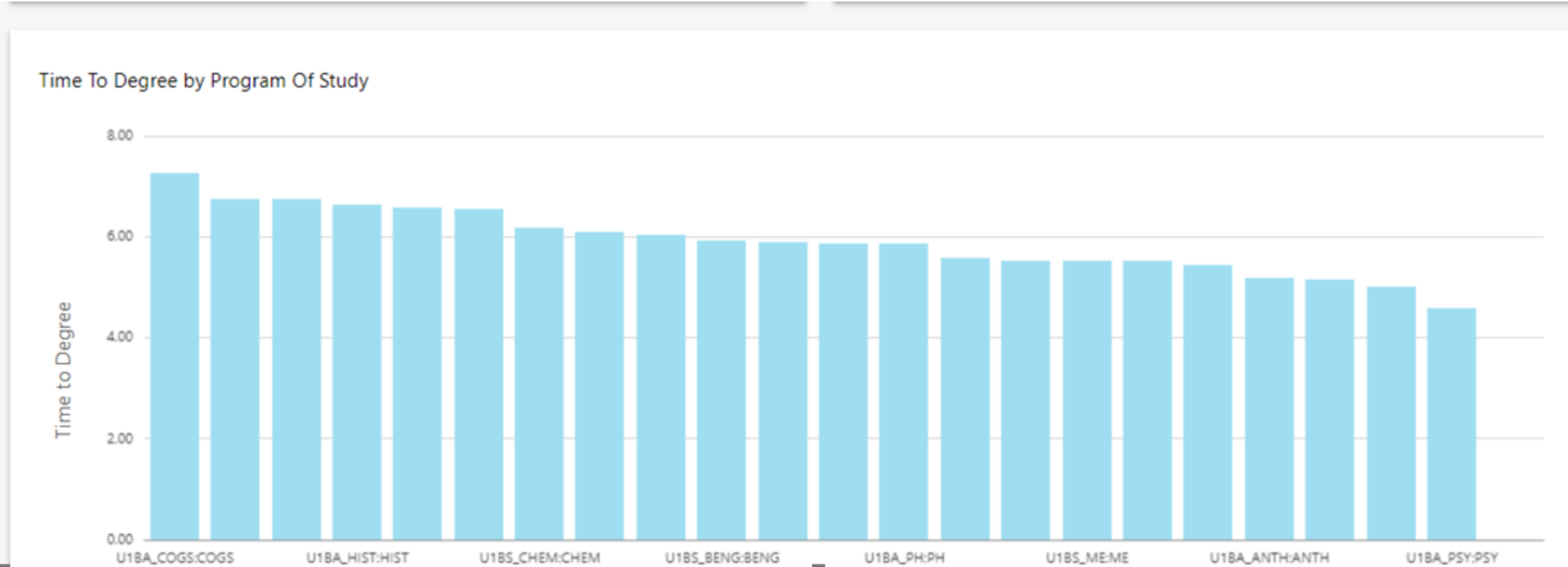
Degree velocity analysis will be conducted during the engagement and includes:

- Review of relevant topics
 - current time to completion (by pathway, program, department, and college)
 - current degree velocity
 - planned curriculum changes
 - enrollment projections/program capacity
 - prerequisite and corequisite requirements
 - Milestone course or actions required
 - transfer/dual enrollment courses and impacts on pathways
 - Cross-discipline evaluation of course demand to fulfill pathway requirements
- Executive Summary of Findings will be presented.
 - Recommendations to promote expedited time to completion and velocity
 - Identification of top bottlenecks to completion
 - Analysis overview

Degree Velocity Metrics

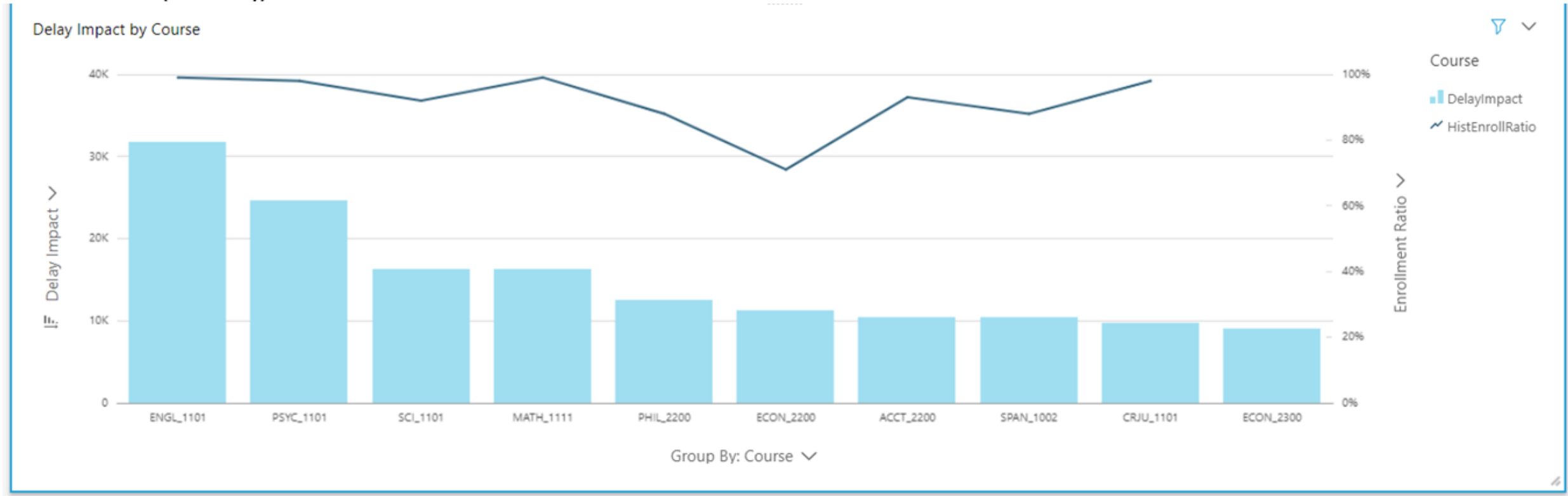


Velocity and Completion by Program

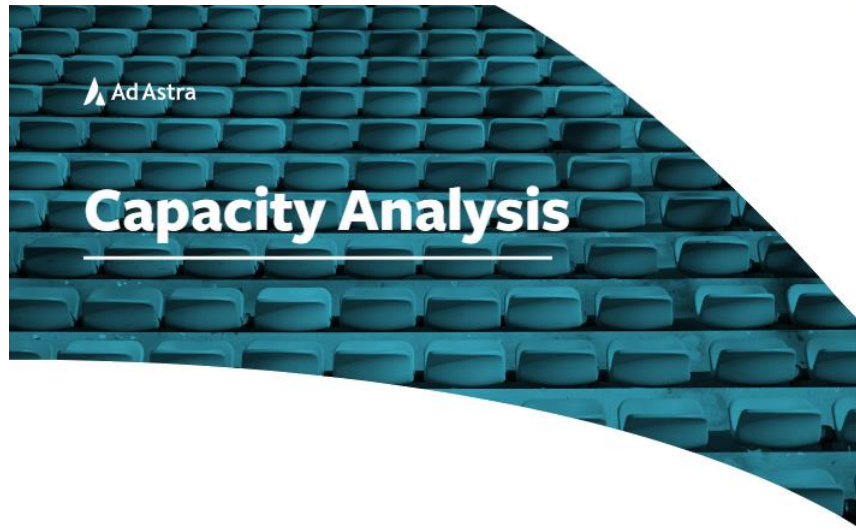


Identifying Impact of Course Bottlenecks

Course Bottlenecks (Term Delay)



Capacity Analysis



Are your classes feeling a little tight? Or, are there classrooms that you struggle to fill? When it comes to capacity, sometimes it's hard to strike a balance.

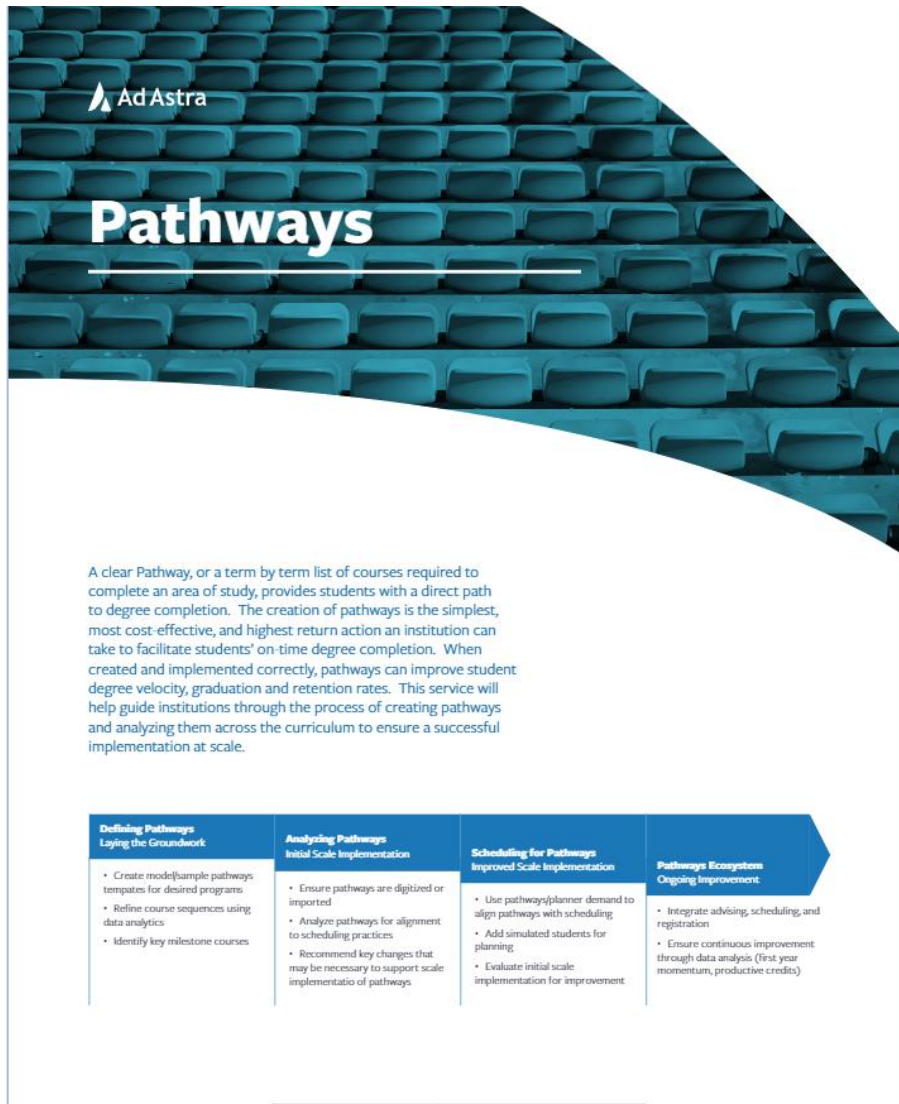
Ad Astra's Capacity analysis service will help your institution find the right balance and plan effectively.

Beyond the benchmarking of the HESI, the capacity analysis engagement allows institutions to do institutional classroom capacity planning. During this engagement, Ad Astra will evaluate current space allocation and scheduling practices along with projections for enrollment and any additional space coming online. This service is for institutions who are out of space, feel out of space, or expect to be out of space in the near future. The service provides intervention options and guidance for the size and types of spaces that may be needed to accommodate the institutional needs.

Deliverables:

- Strategic Scheduling Check up (if not already completed)
- Reviews Scheduling Policy/Guidelines
- Enrollment Trends
- Reviews Planned Building and Classroom Inventory Changes - Evaluate Need for 'Swing Space' during construction projects
- Review Strategies that Impact Space Utilization (Off-grid Waste, Ability to 'reclaim' space due to scheduling practices, Course Offering Review, Review sections offered in 'Prime-time' to space opportunities)
- Review Course Enrollment versus Classroom Capacity for opportunity
- Review Prime-time Compression and opportunities to spread the schedule for more effective space utilization
- Any additional review based on Client Needs

Pathway Design



Ad Astra

Pathways

A clear Pathway, or a term by term list of courses required to complete an area of study, provides students with a direct path to degree completion. The creation of pathways is the simplest, most cost-effective, and highest return action an institution can take to facilitate students' on-time degree completion. When created and implemented correctly, pathways can improve student degree velocity, graduation and retention rates. This service will help guide institutions through the process of creating pathways and analyzing them across the curriculum to ensure a successful implementation at scale.

| Defining Pathways Laying the Groundwork | Analyzing Pathways Initial Scale Implementation | Scheduling for Pathways Improved Scale Implementation | Pathways Ecosystem Ongoing Improvement |
|---|--|---|--|
| <ul style="list-style-type: none">• Create model/sample pathways templates for desired programs• Refine course sequences using data analytics• Identify key milestone courses | <ul style="list-style-type: none">• Ensure pathways are digitized or imported• Analyze pathways for alignment to scheduling practices• Recommend key changes that may be necessary to support scale implementation of pathways | <ul style="list-style-type: none">• Use pathways/planner demand to align pathways with scheduling• Add simulated students for planning• Evaluate initial scale implementation for improvement | <ul style="list-style-type: none">• Integrate advising, scheduling, and registration• Ensure continuous improvement through data analysis (first year momentum, productive credits) |

Deliverables:

- Provides a framework to define and facilitate the implementation of pathways for each degree program offered, including meta major interest areas.
- Share Essential Elements and Best Practice:
- Data Requirements and Catalog requirements
- Guidance on Pathway Design and Templates
- System Support and Integration
- Alignment with existing scheduling practices
- Prerequisite and corequisite requirements
- Milestone course or actions required
- Review of transfer/dual enrollment courses and impacts on pathways
- Cross-discipline evaluation of course demand to fulfill pathway requirements

Instructor Forecasting and Analysis

Scope:

Institutions need to be able to review instructional needs in the context of scheduling whether its adding instructors for new sections or reviewing adjunct instruction for a downturn in enrollment.

Institution Benefit:

Often, institutions do not have unbiased views into instructional capacity. The service provides data to support instructional decision making.

Deliverables:

- HESI (if not already complete)
- Consulting Review
 - Review of current instructional load
 - Review of historical instructional load
 - Review of any planned instructional changes
 - Review of instructional needs per enrollment projections
 - Review of any additional considerations
- Executive Summary
- On-site delivery of results (or remote presentation)



Product Update & Roadmap

Mark Vanderweide, Director of Product Experience

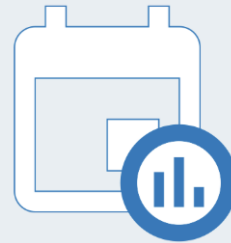
Ad Astra Products

- Today
- Tomorrow
- Beyond



Ad Astra Products

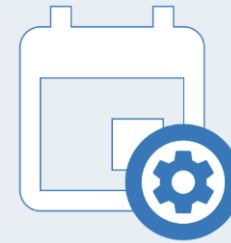
It's all about student completions - our products help colleges and universities progress more students by getting the right resources in the right place at the right time



DISCOVER

How's your schedule? If it matters, measure it. Measuring key performance indicators with an honest assessment can highlight areas of opportunity.

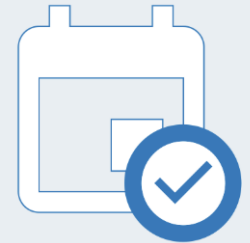
MEASURE IT



DESIGN

You have a good idea about where your opportunities are. So what's next? During the design phase, you put all that data to work for you and your students.

PLAN IT



DELIVER

Armed with data and a plan, it's time to Deliver. Implement initiatives that are efficient, effective, and optimized.

BUILD IT

Ad Astra Products - Today



Platinum Analytics

Offer the right courses, at the right time, for the right students

What if there was a tool that could predict student demand, improve classroom utilization, and create more efficient schedules? While this fortune telling tool might sound too good to be true, it's well within your reach. Platinum Analytics provides predictive analytics coupled with professional consulting, allowing users to make high-impact suggestions to the schedule which, ultimately, helps advance student completion and increases operational efficiency; no crystal ball needed.

Ad Astra Products - Today



HESI

Improve your course schedule and graduate more students, faster.

Let's be honest, everyone wants to know how they stack up to their peers. Colleges and universities aren't any different, and the Higher Education Scheduling Index (HESI™) provides that insight. As the industry's only peer comparison database of performance indicators for the allocation of faculty and space, the HESI helps institutions see how they stack up and highlights opportunities.

Ad Astra Products - Today



Astra Schedule

Complete visibility into all your schedule: events, academics, resources, and calendars.

Scheduling is complex, we simplify it. Astra Schedule is your one-stop-shop for enterprise scheduling, allowing you to streamline class, event, exam, and resource scheduling with one automated system. Astra Schedule integrates bi-directionally with student information systems (SIS) to analyze and optimize space, time, and instructional resources. It also offers unparalleled visibility into the schedule and allows you to test and evaluate changes before you modify your master schedule.

Ad Astra Products - Today

The image shows the cover of a brochure titled "Momentum Year" by Ad Astra. The top half of the cover features a background of teal stadium seats. The Ad Astra logo is in the top left, and the title "Momentum Year" is centered in large white font. Below the title, there is a white curved area containing text and a bulleted list. A teal horizontal bar is at the bottom of the white area.

Ad Astra

Momentum Year

Learn how benchmarking and early intervention can lead to increased retention and graduation rates.

Much like Newton's First Law of Motion, the concept of Momentum Year seems simple. A student at rest tends to stay at rest, while a student in motion tends to stay in motion, and once in motion, they develop momentum. Gaining and maintaining that momentum is key to student completion.

Evidence-based research confirms that college students are most successful when they complete specific first-year benchmarks. When students don't, they graduate late, waste time, and incur unnecessary debt in the process. Momentum Year focuses on:

- Purpose first with Pathways, Programs of Study, or Meta Majors
- 30 to finish
- 9 credits in program
- Gateway course completion

Momentum Year

Momentum Year Settings

The following settings will be used by Student Progress Analysis when calculating Momentum Year progress for students.

English Gateway Requirement

Select a Course

Select a Course Group

Math Gateway Requirement

Select a Course

Select a Course Group

Pathway Progress

Pathway Progress Goal (hrs):

Select Course Group:

Use Students' Pathways (if available)

Momentum Year Hours

Momentum Year Goal (hrs):

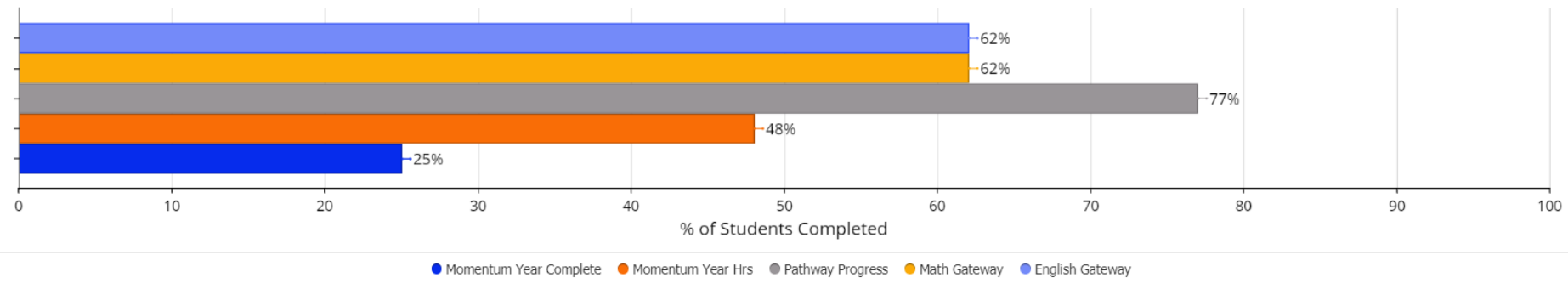
Apply transfer courses toward momentum hours

Momentum Year

Momentum Year Report

Select Start Term: 201708 Total Students: 5484

Momentum Year Metrics for Fall Semester 2017



Students At Risk (Momentum Year Complete)

| Last Name | First Name | ID | Program | Major | Pathway | English Gateway | Math Gateway | Pathway Progr... | Momentum Year Hours | Hours Completed |
|------------|------------|---------|-----------|-------|---------|-----------------|--------------|------------------|---------------------|-----------------|
| Aanenson | Geralyn | 5517905 | BUBBA_MK | MK | | Yes | Yes | Yes | No | 25 |
| Abair | Stuart | 5522362 | BUPHD_FI | FI | | No | No | No | Yes | 75 |
| Abarquez | Elizabet | 5556350 | EHEDS_SCO | SCO | | No | No | No | No | 24 |
| Abbo | Edward | 5557291 | BUBBA_PMK | PMK | | No | No | Yes | No | 9 |
| Abdelrahim | Marielle | 5549742 | BUEDB | EDB | | No | No | No | No | 18 |
| Abesamis | Rosalind | 5544354 | ASAB_AN | AN | | Yes | Yes | Yes | No | 28 |
| Abfall | Rubin | 4575266 | ASMS_BGY | BGY | | Yes | Yes | Yes | No | 26 |

Ad Astra Products - Tomorrow

- Reliability
- Advancing the ecosystem

A COLLABORATIVE ECOSYSTEM FOR YOUR INSTITUTION



Ad Astra Products - Beyond

Octonility

- Usability
- Reliability
- Mobility
- Accessibility
- Extensibility
- Security
- Modularity
- Scalability



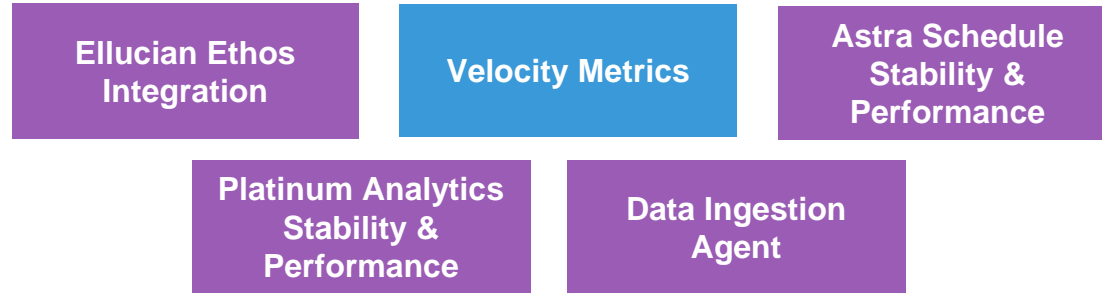
Ad Astra's Product Roadmap

Ad Astra's purpose is to offer products and services that support higher education in its mission to advance successful, timely student completions.

LEGEND: ■ Academics ■ Platform (Academics & Events)

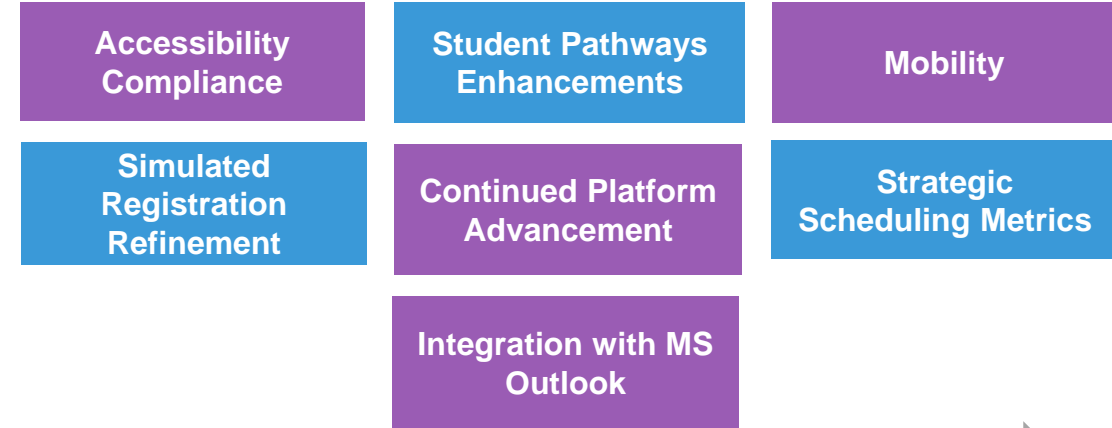
Current

Functionality that is in-progress and will be released to users soon



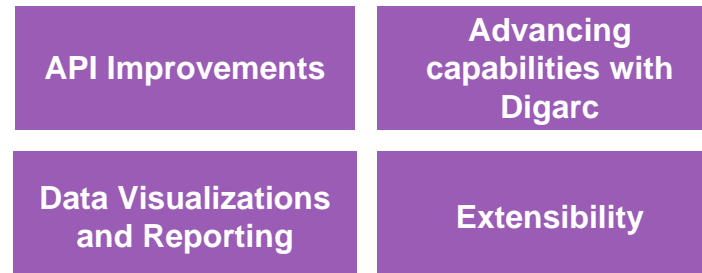
Future

Future ideas that will continue adding value for our users



Next Up

Projects that are being defined and validated with availability targeted in the upcoming quarterly releases



Product Takeaways & Action Items

- Ad Astra product investment focused on meeting your needs
- Interact with us
 - User Panel
 - Website - <https://www.aais.com/>
 - Webinars

Q & A

- If you haven't already submitted a question, please feel free to use the Q & A box.
- We will do our best to answer all questions posed, but know that you can always reach out to your Account Executive and Client Experience Manager if you have further questions.

Upcoming Webinars

Scenario Modeling - Course Optimization

February 26, 2019

Webinar Highlights

- Ad Astra Client Experience Manager will walk you through how to build scenario models within our room optimization tool. This can provide great insight for infrastructure planning, taking rooms/buildings offline, etc.

Optimization for Multi-Campus Institutions

March 26, 2019

Webinar Highlights

- Client will be guiding you through the best practices around academic room optimization for a multi-campus institution.

