

Implementing Transformational Analytics Strategies

February 26, 2019

Dr. Dianna G. Phillips, President, Harford Community College

Agenda

- Harford Community College Overview
- Overview of Analytics Initiatives & Strategy Development
- Partners
- Where is Harford Community College Today?
- What's Next?
- Questions?

Harford Community College Overview

Serving Harford County since 1957



Pictured: HCC's Library, which serves as the "heartbeat space" of campus for students, staff, and administrators, housing both a state-of-the-art digital media lab and the Office of the President.

- HCC offers more than 80 degree and certificate programs, along with a wide variety of non-credit continuing education courses.
- Certifications are offered in such growing industries as cybersecurity, drone technology, and heavy equipment operations.
- We also offer apprenticeship programs and contract training services for local employers.
- The College enjoys strategic partnerships with area businesses and institutions—most notably the U.S. Army's Aberdeen Proving Ground, the largest employer in Harford County.

The Quintessential Community College

- Harford County, MD is conveniently located near Baltimore, Philadelphia, Wilmington, and Washington, DC.
- The County has a population of approximately 250,000 and contains a mix of small urban and rural communities.
- We enroll more than 18,000 students annually across our credit and non-credit programs.
- We employ 961 people, including 100 full-time faculty.
- We are working to become a true College of the Future—an adaptable institution that can evolve to meet the ever-changing needs of the community we serve.



Challenges



Student Enrollment



Student Success

(Retention and
Completion)



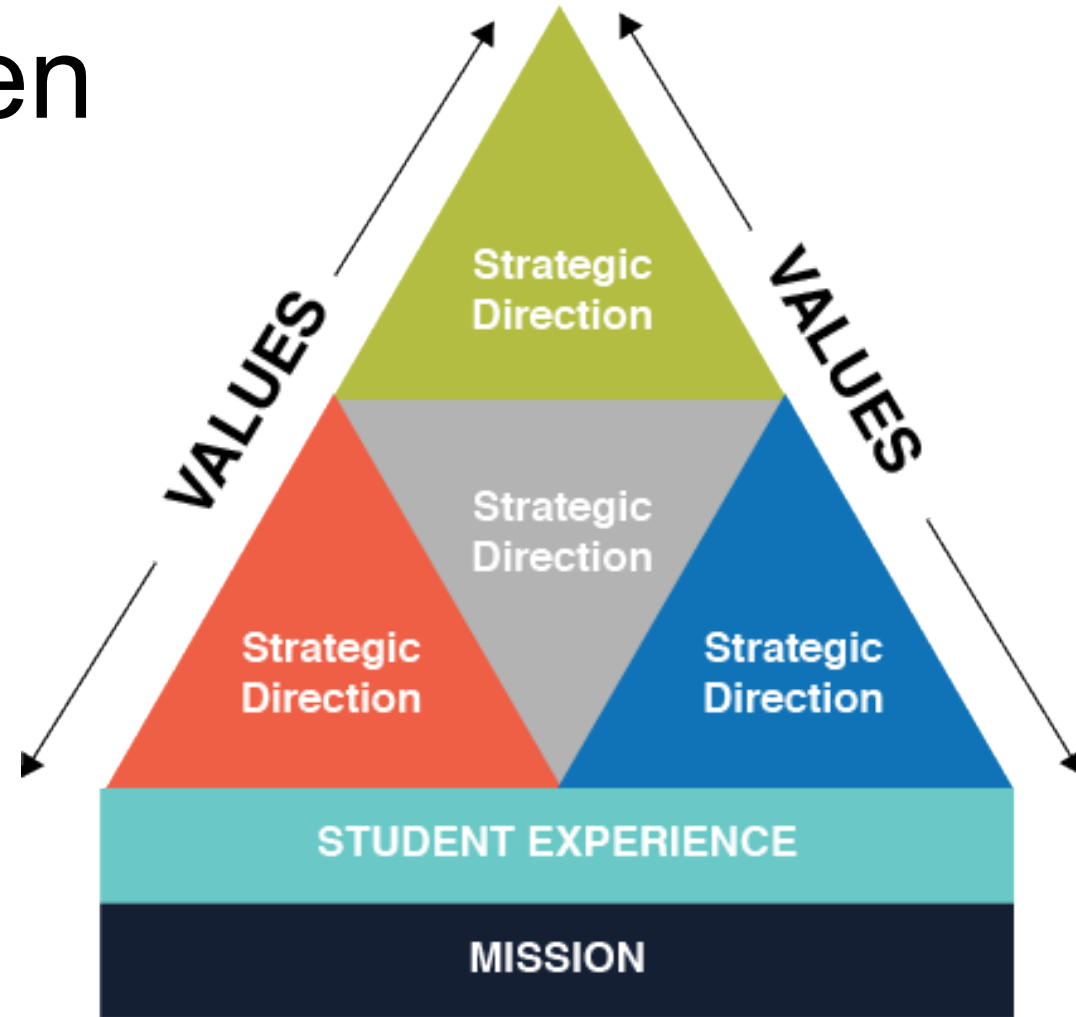
Adaptable and
Sustainable Business
Model

Overview of Analytics Initiatives & Strategy Development

Strategic Planning at HCC



Performance-Driven Strategic Plan



Comprehensive Plan

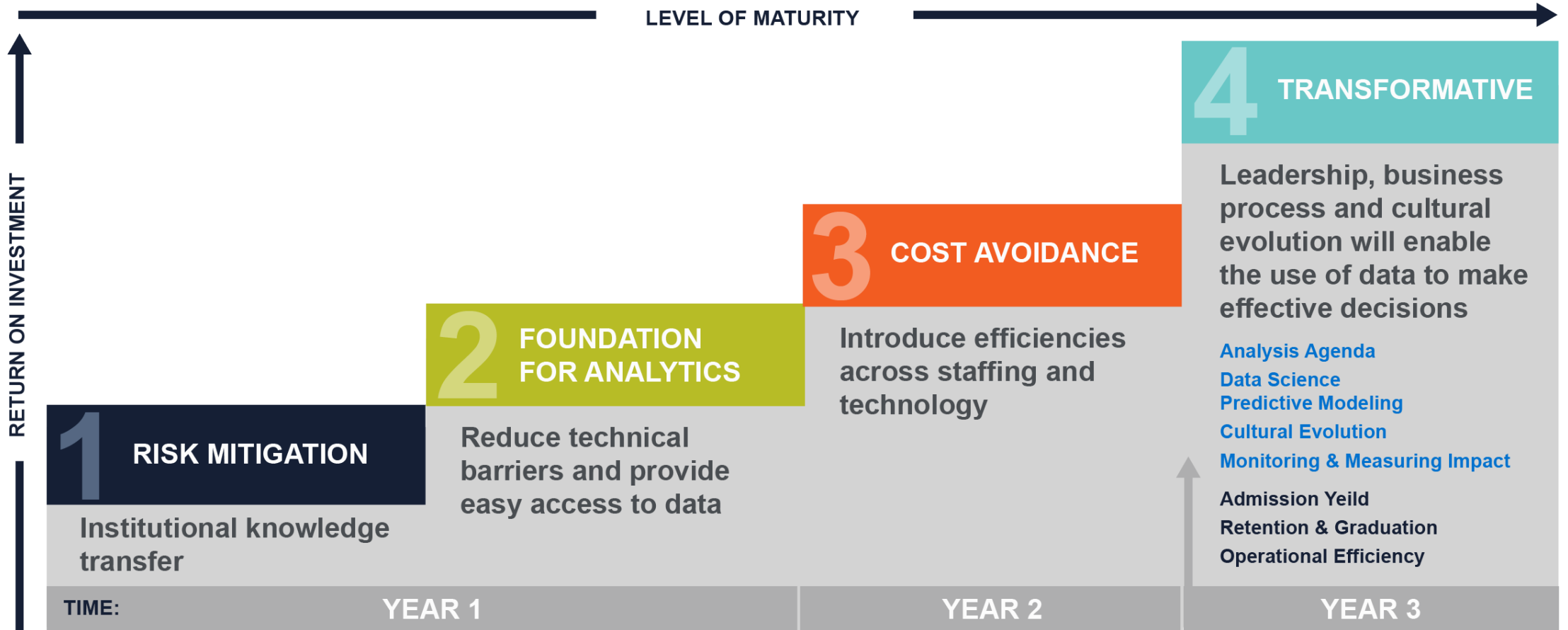


Partners

Engaging a Partner



Maturity and ROI Framework: From Foundational to Transformative



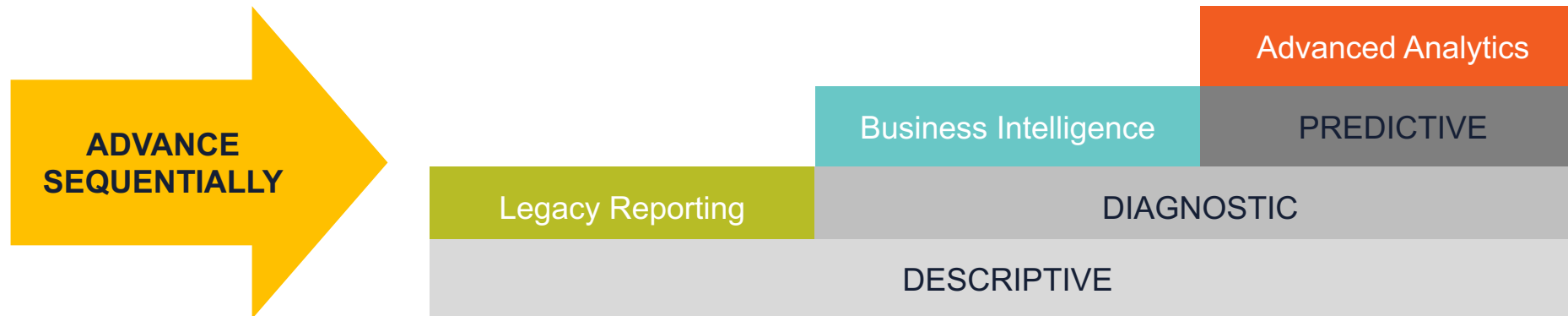
Executive Summary

OPPORTUNITIES

- Build Off Strengths in IR
- Plan for Increasing Technical Fluency
- Introduce Efficiencies in Reporting and Analysis Across IR and IT
- Plan for Data Governance
- Leverage Synergies Across Strategic Initiatives

RECOMMENDATIONS

- *Elevate the Role of IR*
- *Increase Technical Fluency Across IR and IT*
- *Data Governance*
- *Advance Sequentially from Legacy Reporting to Advanced Analytics*



Achieving the Dream – Data Review



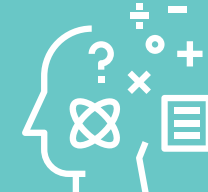
**EMERGING
THEME #1:**
Transitional and
Gateway Course
Completion



**EMERGING
THEME #2:**
Course Delivery
Modes



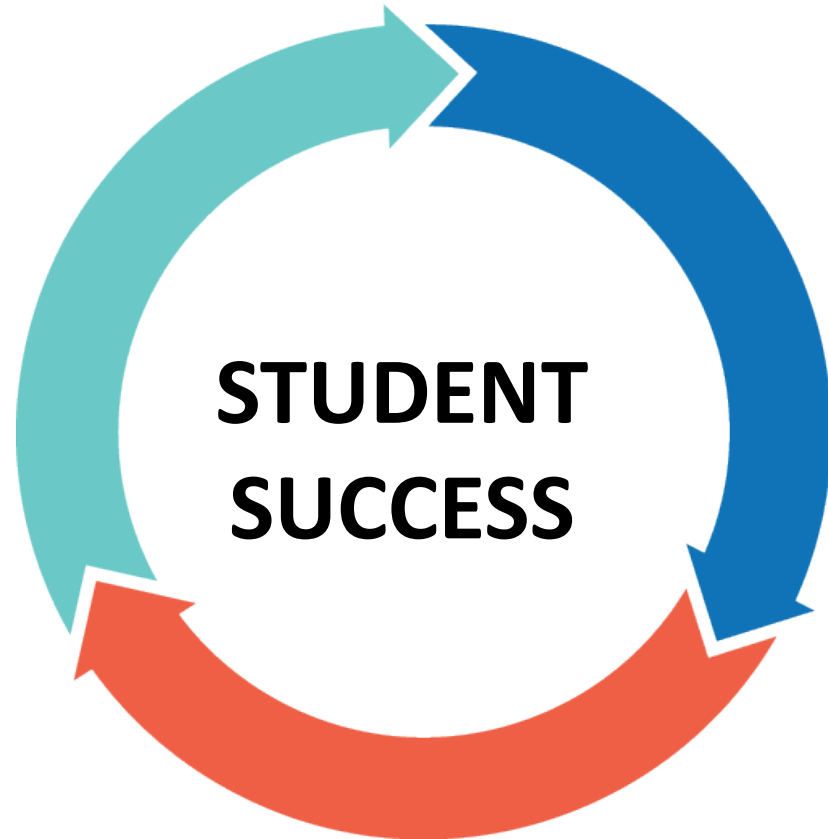
**EMERGING
THEME #3:**
Onboarding



**EMERGING
THEME #4:**
Attainment
Gaps

Where is Harford Community College Today?

Insights & Accomplishments

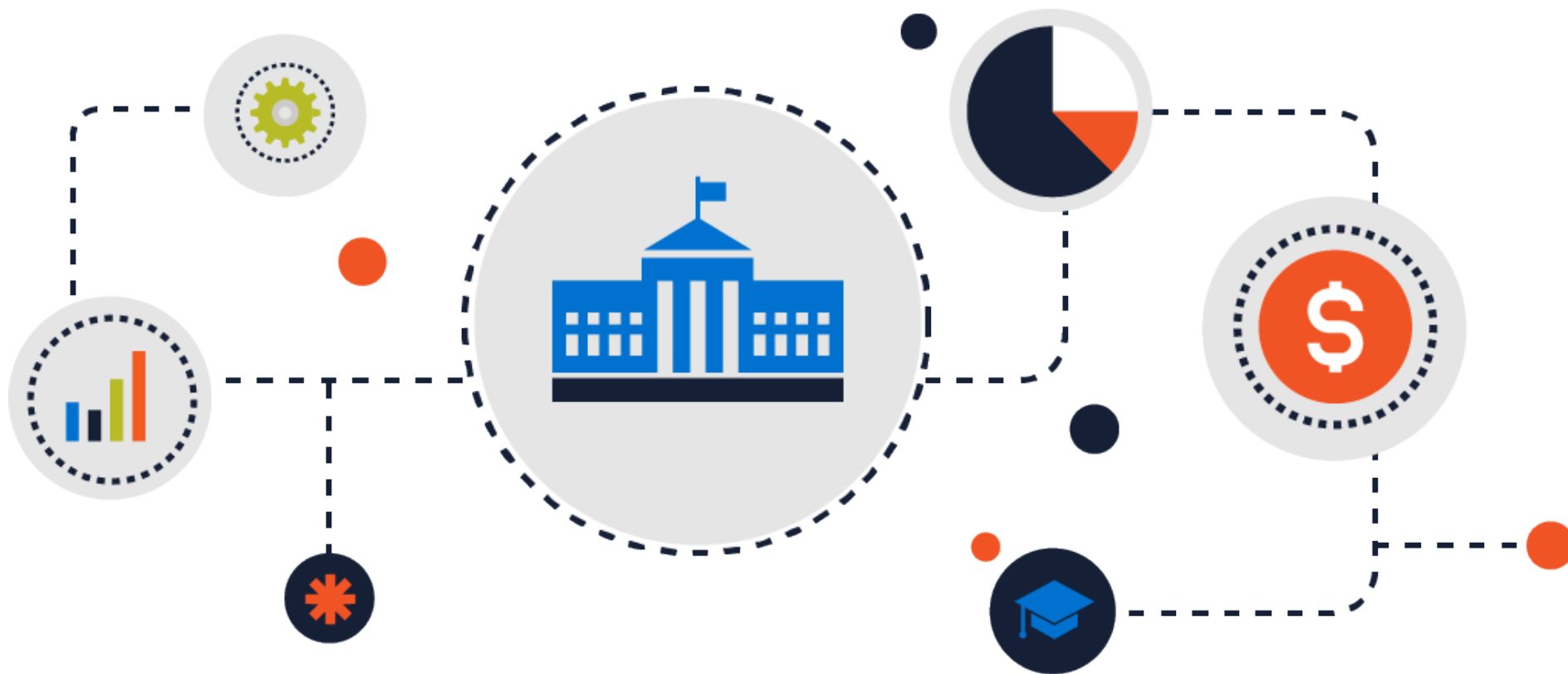


June 2018 – December 2018

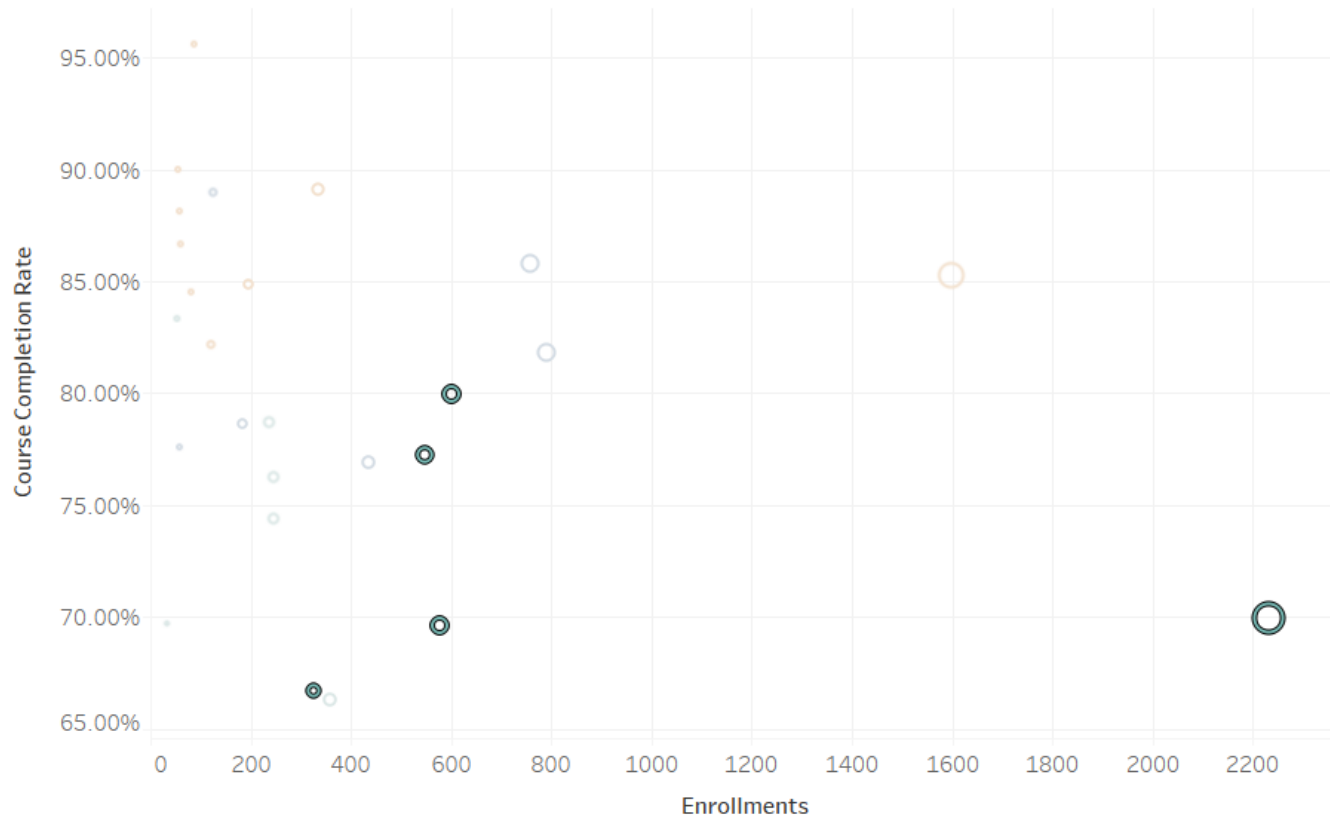
Major Accomplishments:

- Migrated our IR Office to be an office of Analytics and Planning
- Built data platform
- Validated data models
- Visualized data to identify trends and patterns

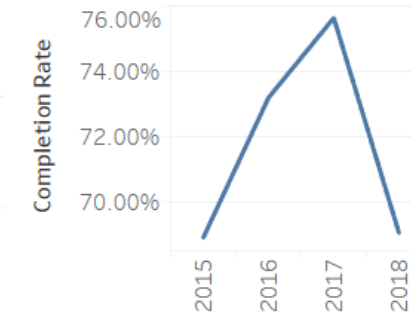
Data: The Fabric Of The Institution



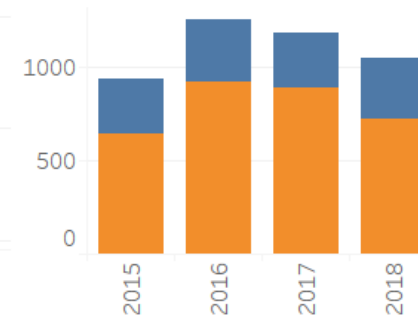
Obstacle Course Analysis



Rate Trend



Successes and Failures



WHAT'S IMPORTANT?

- Student Success dashboards present multiple views of student success: success in courses, student persistence and cohort retention.
- We can now identify which courses are impediments to successful progression in students academic programs, and make updates and interventions to course programs as necessary.

Term to Term Comparison

Headcount Change by Course from 201620 to 201720



WHAT'S IMPORTANT?

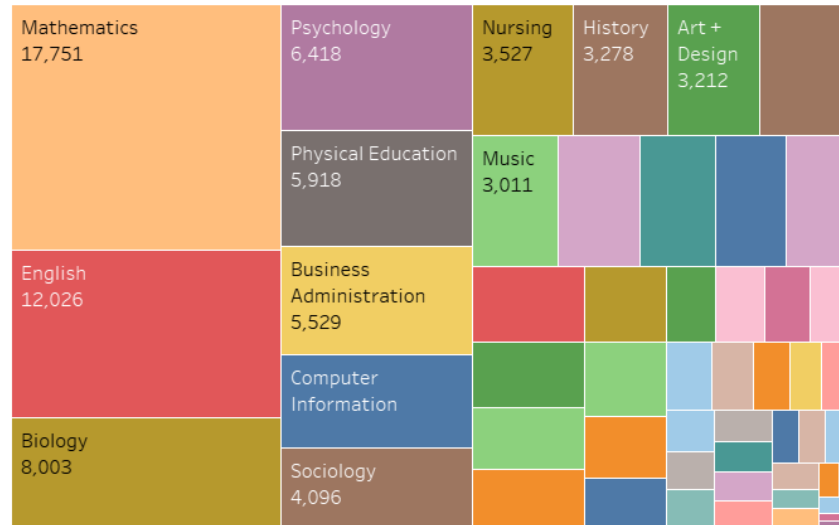
- The Term to Term comparison dashboard allows our institution to identify changes in headcounts or credit hours over time.
- This allows us to identify trends and patterns in the data that require action.

Class Size Metrics

Total Enrollments

Level of Detail Selector

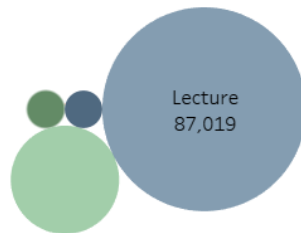
Course Subject



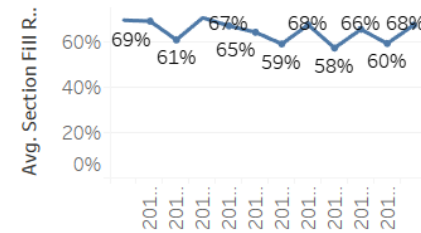
CourseFill

Selected Level of Detail Cour..	Avg. Average Section Cap..	Avg. Fixed Section E..	Avg. Section Fill Rate
Visual and Per..	55.00	53.83	97.9%
Orientation	64.51	43.54	74.5%
Sociology	29.68	23.97	80.7%
Philosophy	29.98	23.70	79.1%
Psychology	29.79	23.70	78.7%
Earth Science	32.73	23.40	69.5%
Economics	30.76	23.14	75.7%
Nursing	23.23	22.90	97.1%
Astronomy	27.36	21.68	79.4%
Communicatio..	25.67	21.47	84.5%
Criminal Justice	29.75	21.09	69.7%
History	28.90	20.24	69.2%
Forensic Scien..	26.00	20.08	76.9%
Religion	30.00	19.83	66.1%
Health	23.82	19.13	82.3%
Biology	24.54	19.11	77.6%
Geography	28.81	18.77	63.6%
Chemistry	24.63	18.08	73.8%
Mathematics	23.16	16.92	61.2%
Drama	25.86	16.43	68.6%
Political Scien..	28.94	16.24	56.7%
Computer Scie..	24.43	16.04	65.9%
Business Admi..	25.92	15.83	58.8%
Accounting	27.75	15.50	54.8%
Physics	23.52	15.48	65.8%
Anthropology	24.63	15.25	71.9%
Allied Health S..	18.51	15.09	84.3%

Course Type



Enrollments / Maximum Class Size



WHAT'S IMPORTANT?

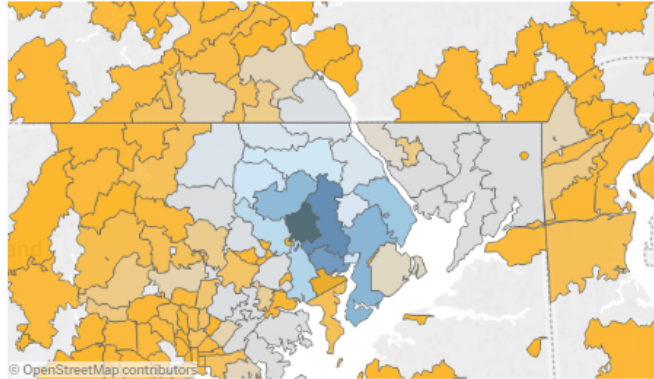
- The Class Size Metrics dashboard is intended to be used to track metrics that help with capacity planning and space utilization.
- This allows us to identify trends and patterns in the data that require action.

Student Geographics

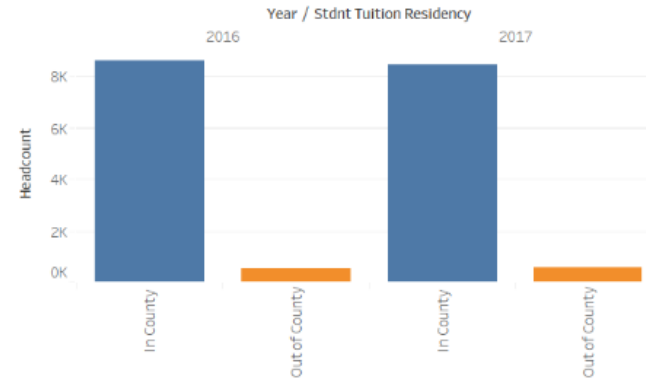
WHAT'S IMPORTANT?

- The Student Geographics dashboard provides an interactive map of enrollment by zip code, residency and city, allowing us to visualize which parts of the state and region our students are coming from.

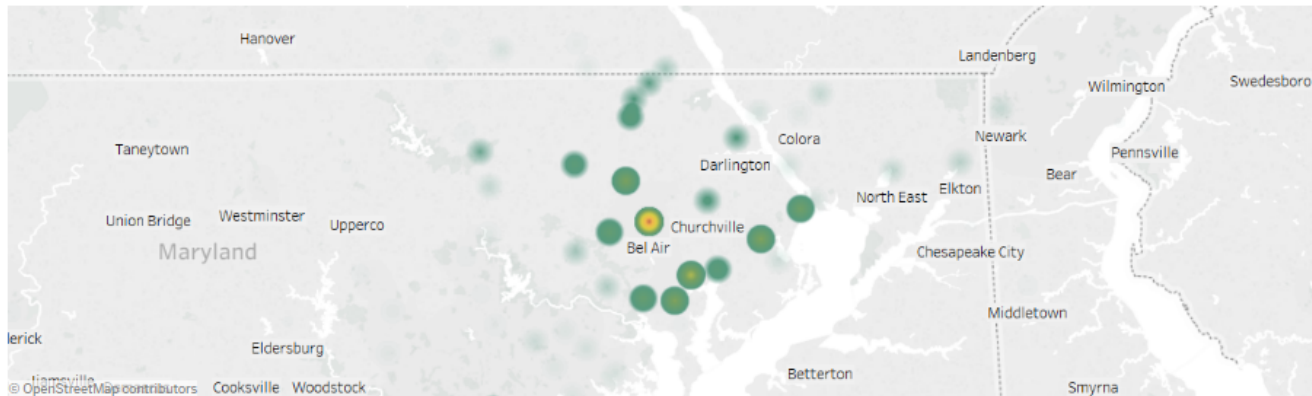
Enrollments By Zipcode



Enrollments by Residency



Enrollments By City



What's Next?

Going Forward



Data
Dictionary

STATUS: NOT STARTED



Training:
Senior Leadership
& Across Campus

STATUS: NOT STARTED



Financials
Implementation
Kick-Off

STATUS: NOT STARTED

Questions?