

Mapping Student Success: Using Affinity Group Programs, Majors, and Education Goals as Indicators for Integrated Planning Strategies

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Purpose

- ▶ Foster integration of statewide planning initiatives (e.g., SEP, SSSP, BSI)
- ▶ Utilize data to identify successful affinity groups and narrate their achievement
- ▶ Replicate promising practices across the institution
- ▶ Promote institution-wide discussion of student success and equitable achievement of student outcomes



Where are students succeeding at Delta, and what promising practices should we replicate?

Investigate

- Identify successful programs and *why* they are effective

Integrate

- Coordinate change initiatives to achieve maximum impact

Innovate

- Adapt and apply promising practices

Implement

- Continue successful efforts and establish new innovations

Methods: Overview

▶ Data Collection


- 9,318 distinct students, three cohorts
 - Demographics; achievement outcomes (CCCCO Student Success Scorecard)
 - Affinity group membership, declared majors & education goals (Delta College Student Information System 2020)

▶ Data Mapping (Tableau Public)

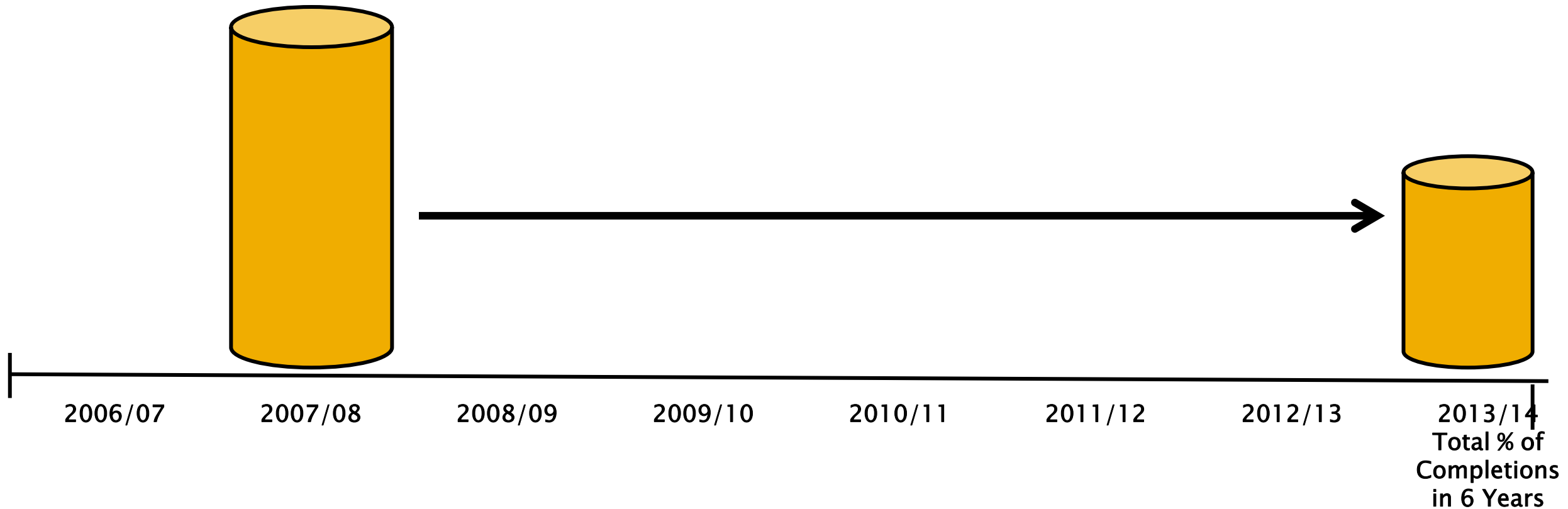
▶ Logistic Regression (SPSS)

▶ Qualitative Inquiry

Scorecard Cohort Criteria

- ▶ First-time students who took a credit course in the CCC system for the first time.
 - ▶ ≥ 6 units earned at Delta College and/or anywhere in the system during first three years of enrollment.
 - ▶ Attempted a Math or English course in first three years.
- 

Outcome Variable: Completion Rate



Completion: Earned a degree, certificate, or transferred to a 4-year institution within 6 years of first-time enrollment

Affinity Groups

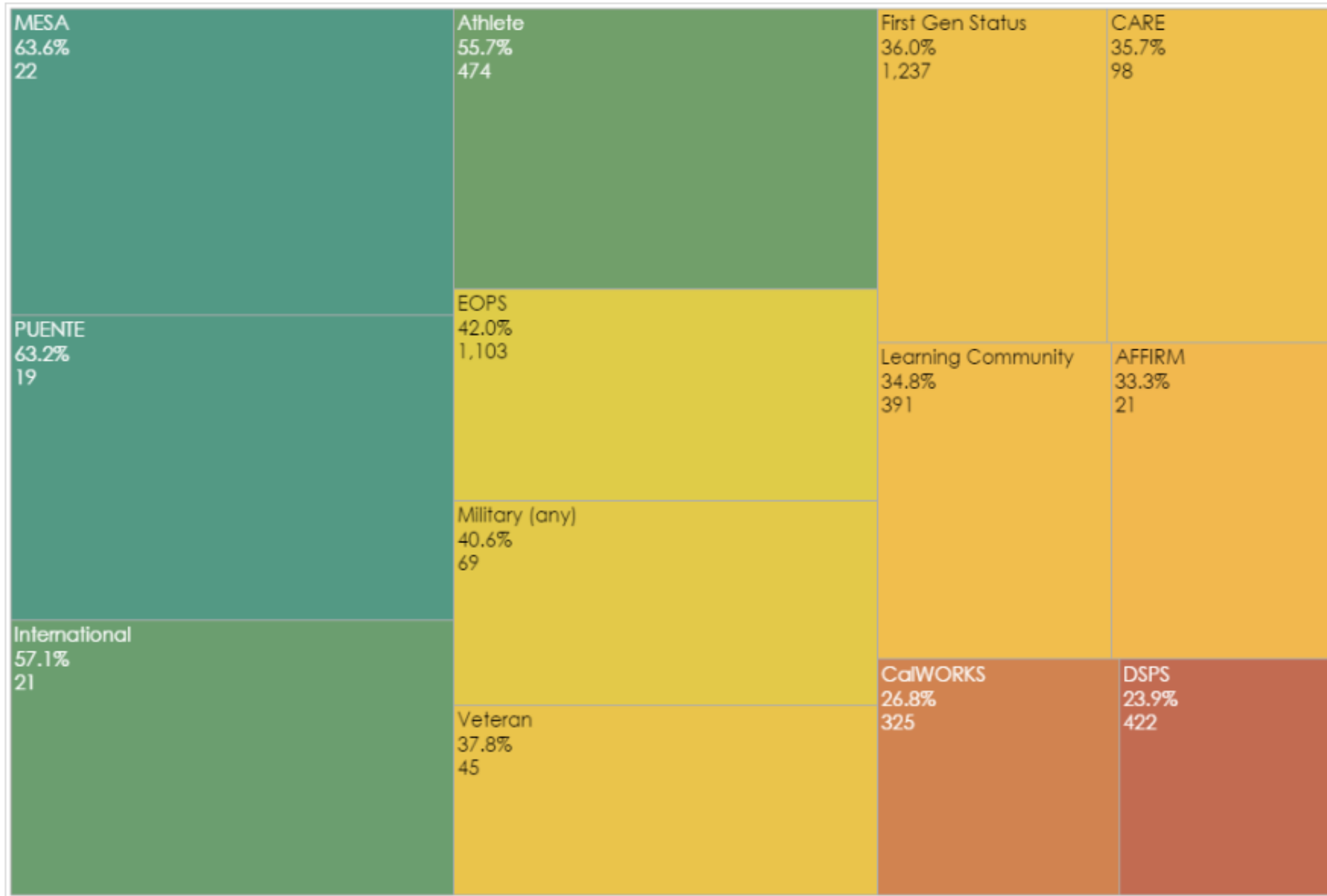
- ▶ AFFIRM
- ▶ Athlete
- ▶ CARE
- ▶ CalWORKs
- ▶ DSPS
- ▶ EOPS
- ▶ Foster Youth*
- ▶ First Generation
- ▶ International
- ▶ Learning Community
- ▶ MESA
- ▶ Middle College High School*
- ▶ Military (Any)
- ▶ Puente Project
- ▶ STEM Academy*
- ▶ Veteran

*Dropped from mapping analyses due to fewer than 10 students in cells

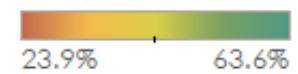
Results: Mapping Student Success

- ▶ Where are students succeeding at Delta, and what promising practices should we replicate?
 - [Affinity Group Dashboards](#)

Completion Rate by Affinity Group



Completion Rate



Affinity Group

(All) ▾

Preparedness

(All) ▾

Race/Ethnicity

(All) ▾

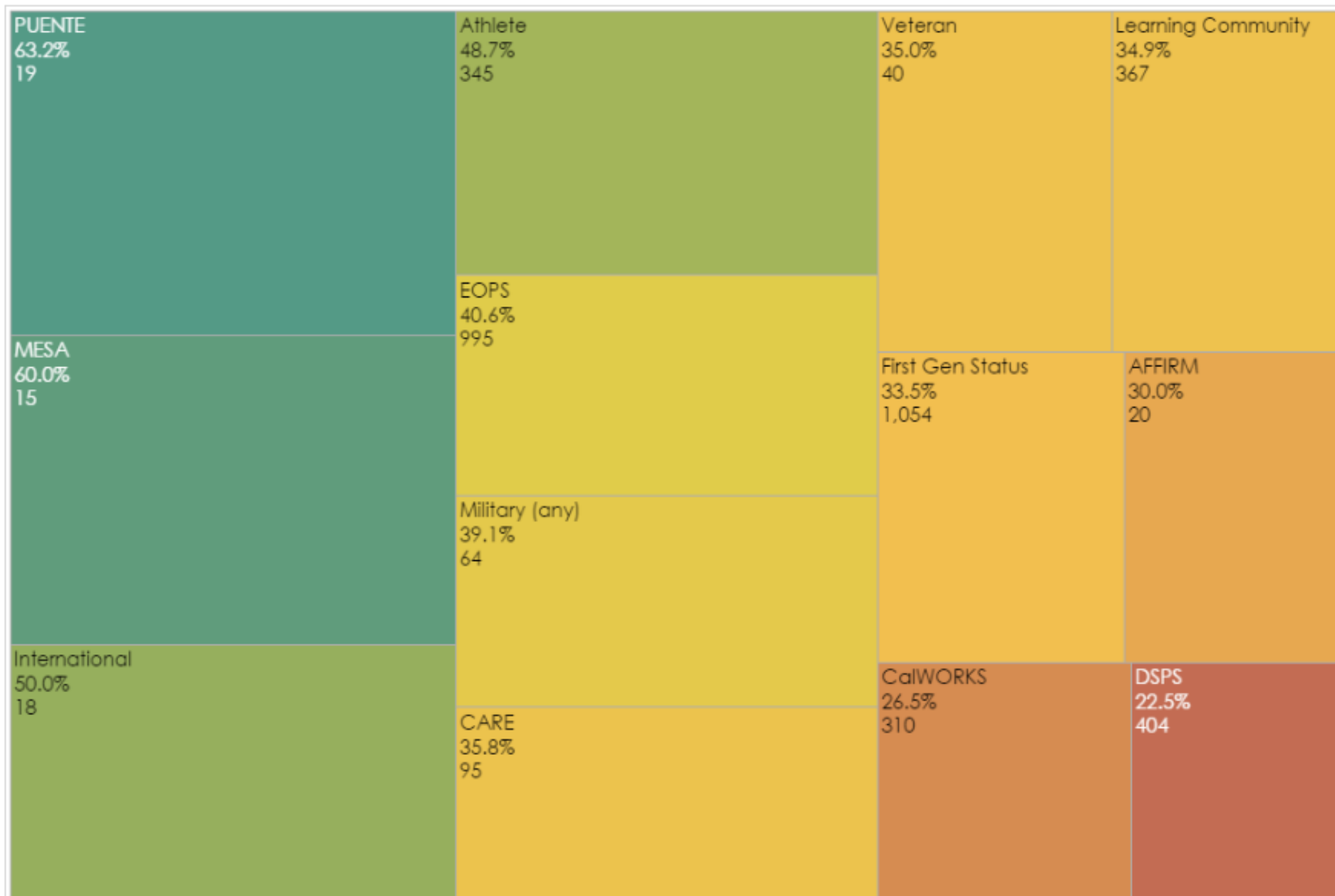
Age Range

(All) ▾

Gender

(All) ▾

Completion Rate by Affinity Group



Completion Rate



Affinity Group

(All) ▾

Preparedness

- Unprepared ▾
- (All)
- Unprepared
- Prepared

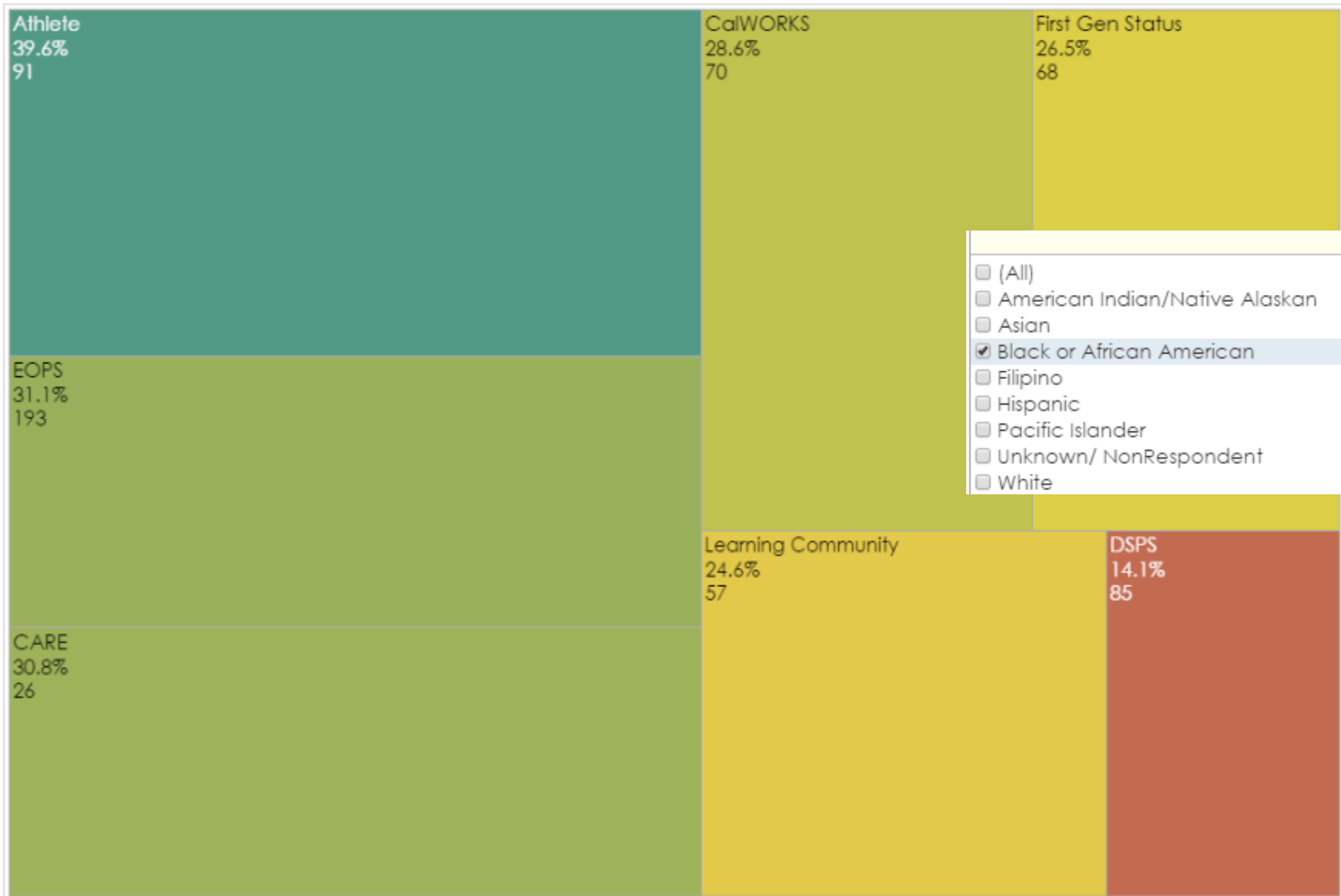
Age Range

(All) ▾

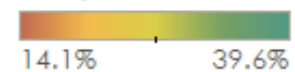
Gender

(All) ▾

Completion Rate by Affinity Group



Completion Rate



Affinity Group

(All) ▾

Preparedness

Unprepared ▾

Race/Ethnicity

Black or African Am... ▾

Age Range

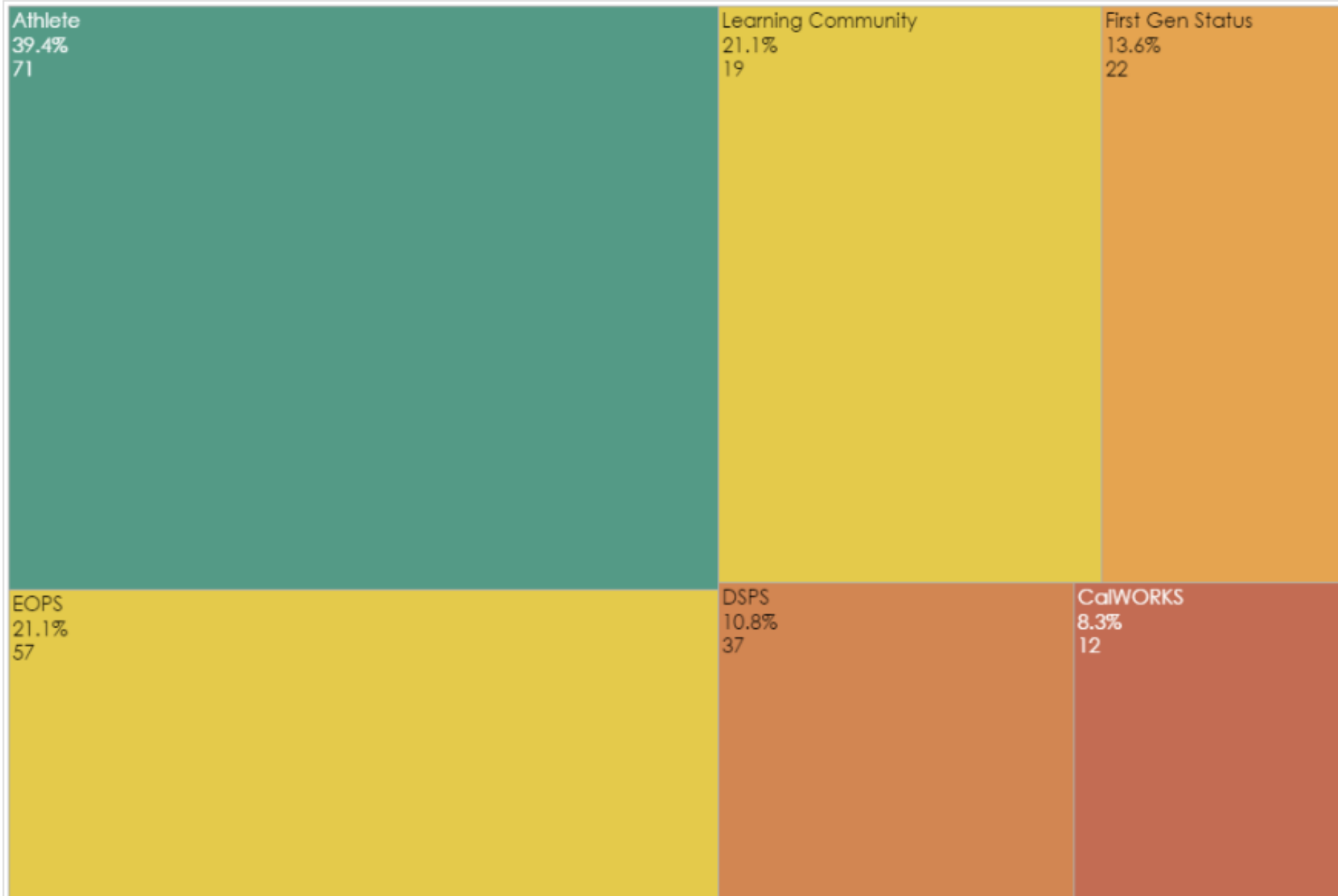
(All) ▾

Gender

(All) ▾

- (All)
- American Indian/Native Alaskan
- Asian
- Black or African American
- Filipino
- Hispanic
- Pacific Islander
- Unknown/ NonRespondent
- White

Completion Rate by Affinity Group



Completion Rate



Affinity Group

(All) ▾

Preparedness

Unprepared ▾

Race/Ethnicity

Black or African Am...

Age Range

(All) ▾

Gender

Male ▾

- (All)
- Female
- Male
- Unknown

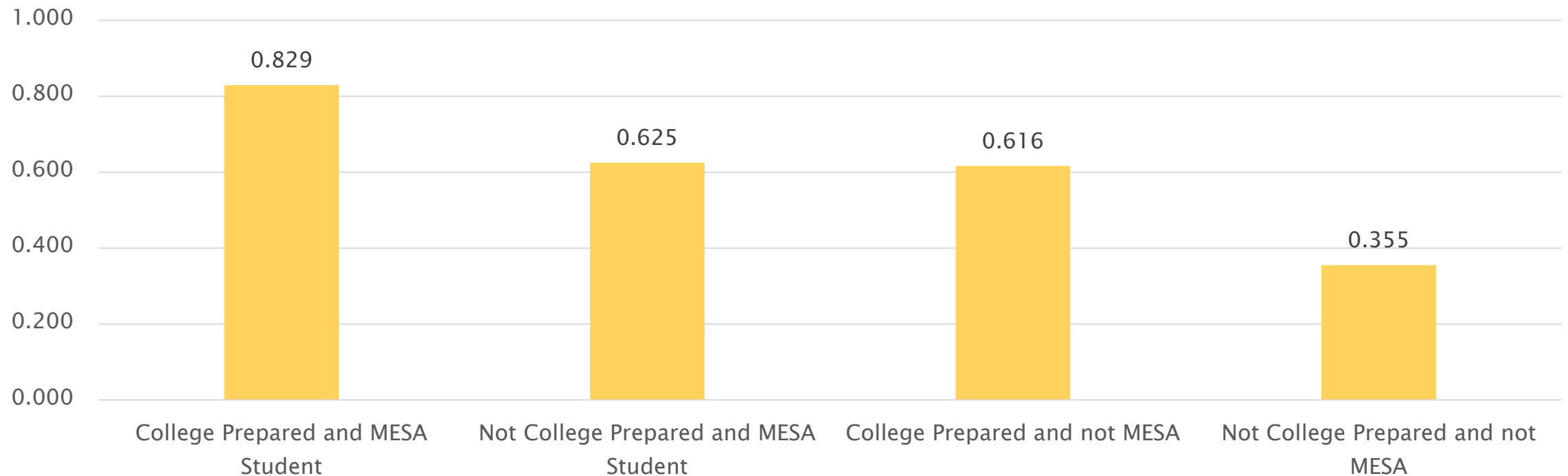
Exploratory Results: Logistic Regression*

Indicator	Coefficient	Std. Error	Odds when X is low	Odds when X is High	Change in Odds Ratio
Gender	-0.166***	.045	0.438	0.398	-4.0%
College Prepared	1.071***	.051	0.356	0.617	26.1%
Athlete	0.629***	.099	0.412	0.568	15.6%
EOPS	0.365***	.077	0.410	0.501	9.0%
CalWORKs	-0.589***	.143	0.425	0.291	-13.4%
MESA	1.107**	.478	0.419	0.751	33.2%
DSPS	-0.667***	.120	0.427	0.277	-15.0%
Econ. Disadvantaged	-0.116**	.050	0.440	0.411	-2.8%
First Generation	-0.177**	.068	0.426	0.383	-4.3%
Puente	1.277**	.491	0.419	0.721	30.2%
Constant	-0.440				
Chi Square Log Likelihood	663.72				
Pseudo R Square	.093				
Percent Correctly Predicted	64.5%				
Model Improvement	16.3%				

* N = 9,318 – only indicators with statistically significant coefficients displayed in the Table

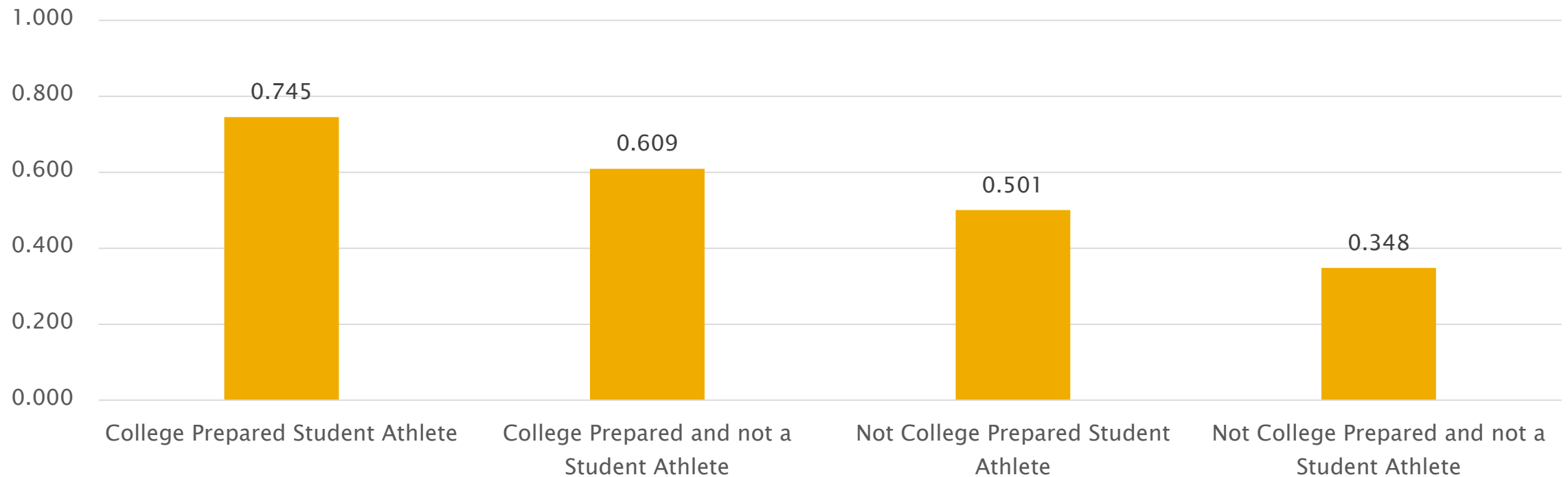
Exploratory Results: Logistic Regression

The Odds of Completion at Delta College:
The Impact of MESA and College Preparedness



Exploratory Results: Logistic Regression

The Odds of Completion at Delta College:
The Impact of College Preparedness and Athletics



Future Directions

- ▶ Mapping by key majors and by education goals
- ▶ Mapping by course completion (rather than scorecard completion)
- ▶ Mapping by other key equity attributes (athletic teams, online vs. face to face completion)
- ▶ Dissemination to campus constituents for democratic access to the data
- ▶ Refinement of the LOGIT Model
- ▶ Possible presentation at a future conference, perhaps in San Diego in April, 2016

Questions and Feedback?



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