

# Current and New Program Evaluation

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# Agenda



## Academic Program Review

Purpose

Current Process

The Future



## New Program Development

Program Evaluation System+ (PES+)

by Gray Associates

Modeling for M.S. in Computer Science

# Purpose

- Regular, systematic review and evaluation of all academic programs
- Assess and strengthen programs
- Required for university and program accreditations
- Assists departments, colleges and university with planning
- Aligns with the University Strategic Plan



# Current APR Process

Programs complete a self-study prepared by faculty under the leadership of chair or program director



Assessment Committee of Faculty Senate will be expanded 18 members including additional faculty and associate/assistant deans



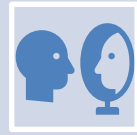
Assessment Committee will review all program self-studies in May and submit report to chair/program director, deans, and provost



All programs assessed every 5 years



# Self-Study



Self-studies are 12-15 pages in length



Externally accredited programs submit their self-studies and the external reviews



Includes:

- Program Description
- Program History
- Academic Quality, including enrollment trends
- Student Learning Outcome Assessment
- Faculty Demographics
- Resources and Planning



Due May 5<sup>th</sup>, last day of spring semester

# Review of Program Self-Studies



Rubric Aligned to Self-Study Outline



1-2 weeks campus-based review following May commencement



Assessment committee divided into groups of 3 with one associate/assistant dean per group



Each program will receive a 2-page report detailing program's strengths, areas for growth, and recommendations



Shared with chair/program director, deans, and provost

# Long-Term Structure

- Self-Studies every five years or as determined by external accrediting bodies limit ability to respond to emerging trends
- Annual Dashboard Program review being developed for implementation in 2023-2024
  - Yearly monitoring of program enrollment trends
  - Ability to quickly identify areas for improvement



# Program Analysis Software: PES+ Markets

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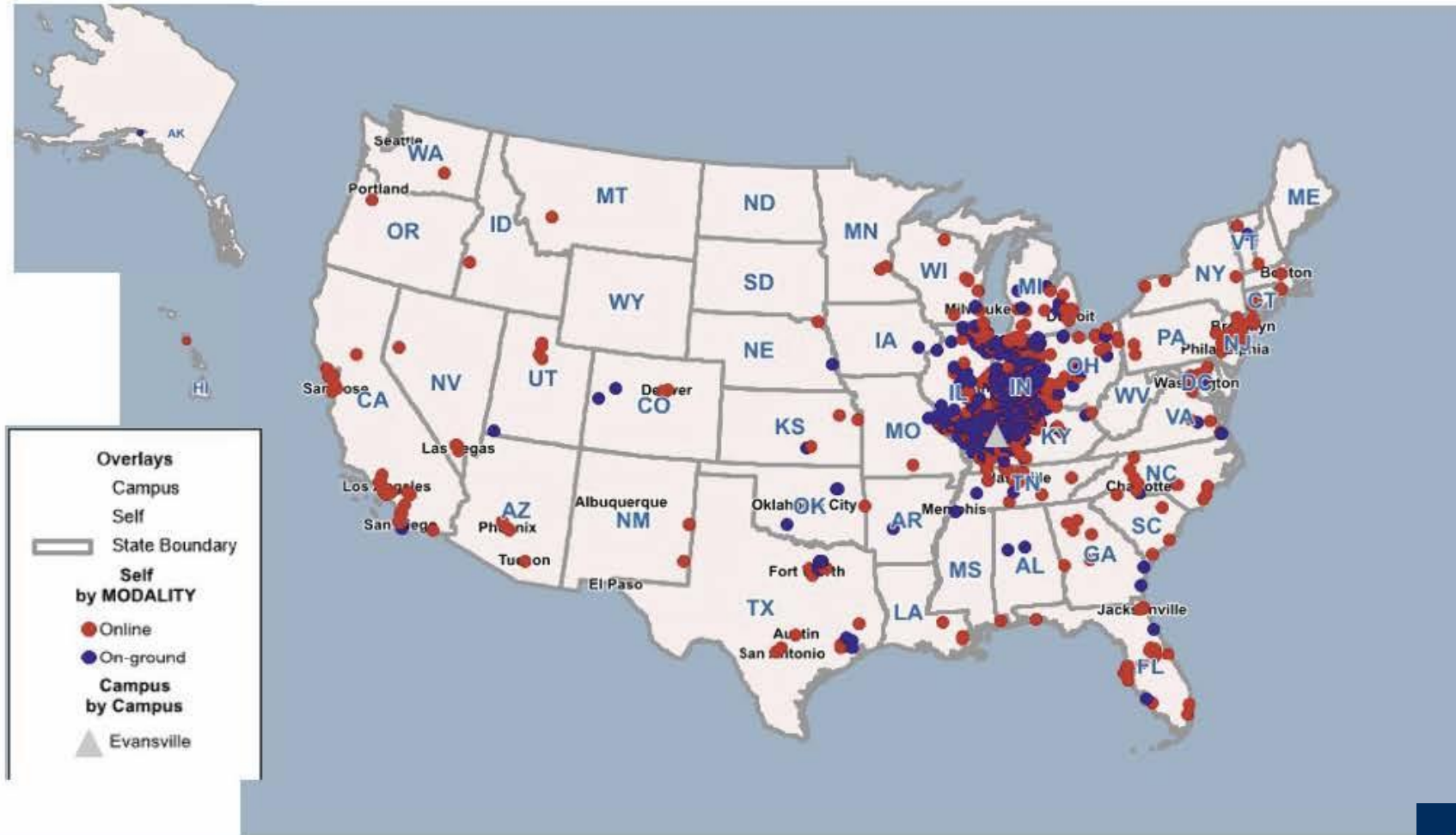
## Market definitions determine what data is included in PES+ Markets.

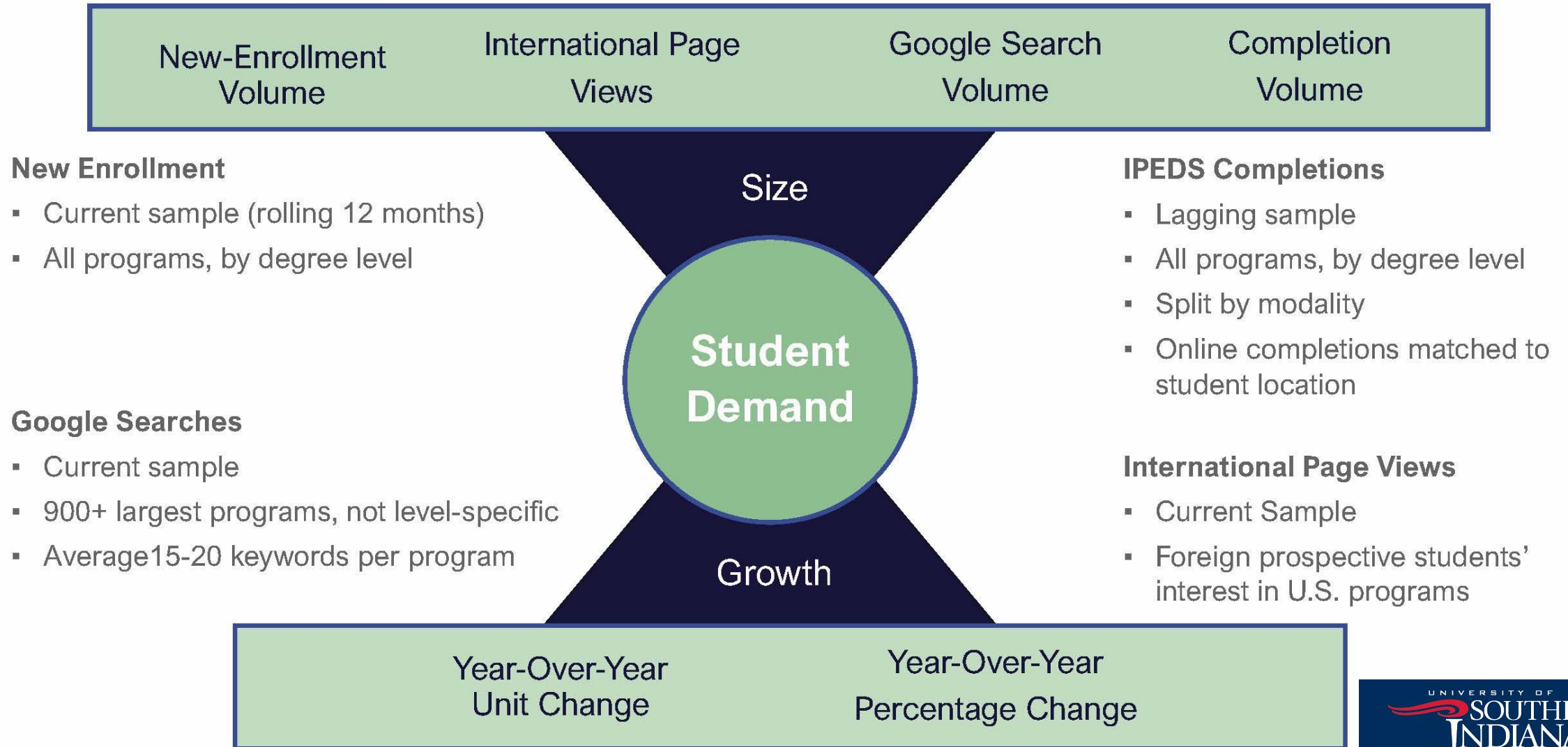
- Geographic market definitions are customized for the University of Southern Indiana.
  - Multiple definitions
  - Defined as clusters of census tracts (twice as precise as 5-digit ZIP codes)
  
- These market definitions determine which data appear in the system.
  - Student demand
  - Direct-preparation job opportunities
  - Competitors
  
- Gray used USI student data to identify markets.
  - Home/permanent address
  - Enrolled domestic students whose entry term was Fall 2019 or Fall 2020

# University of Southern Indiana Student Locations

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Gray mapped the home addresses of all domestic USI students.





Direct Preparation		
Job Postings	BLS Current Employment	BLS Annual Job Openings

BLS Direct-Preparation Wages	National ACS Wages & Outcomes for Bachelor's Degrees
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## Size

## Pay and Outcomes



### Job Postings

- Online job postings
- Current sample
- Volatile
- Assumes 1 posting = 1 job opening

### BLS

- Survey data
- Lagging sample
- Stable

### ACS

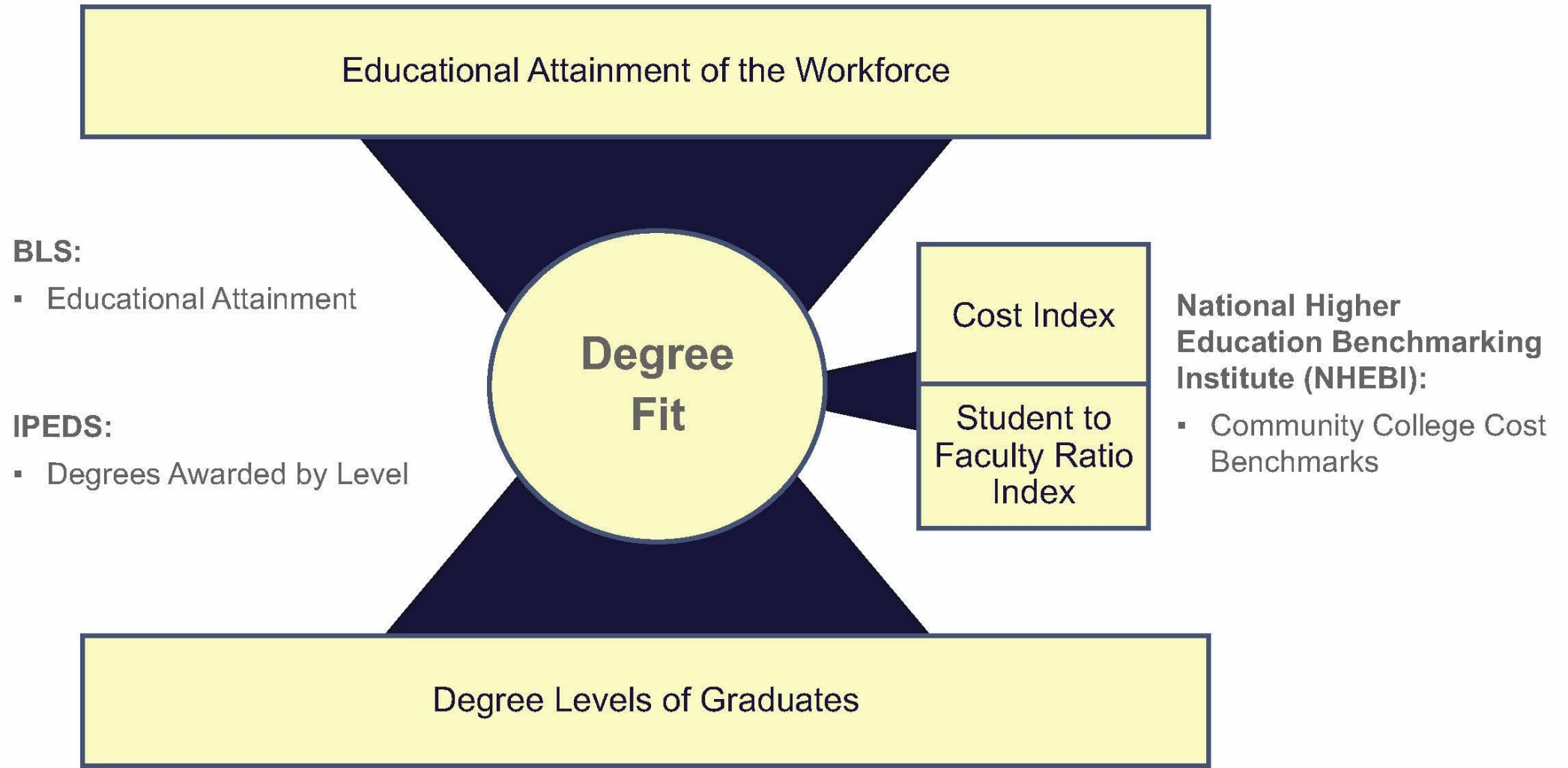
- Survey (long-form census)
- Career paths of Bachelor's Degree Graduates
- Lagging sample, particular for mid-career outcomes

## Growth

## Saturation

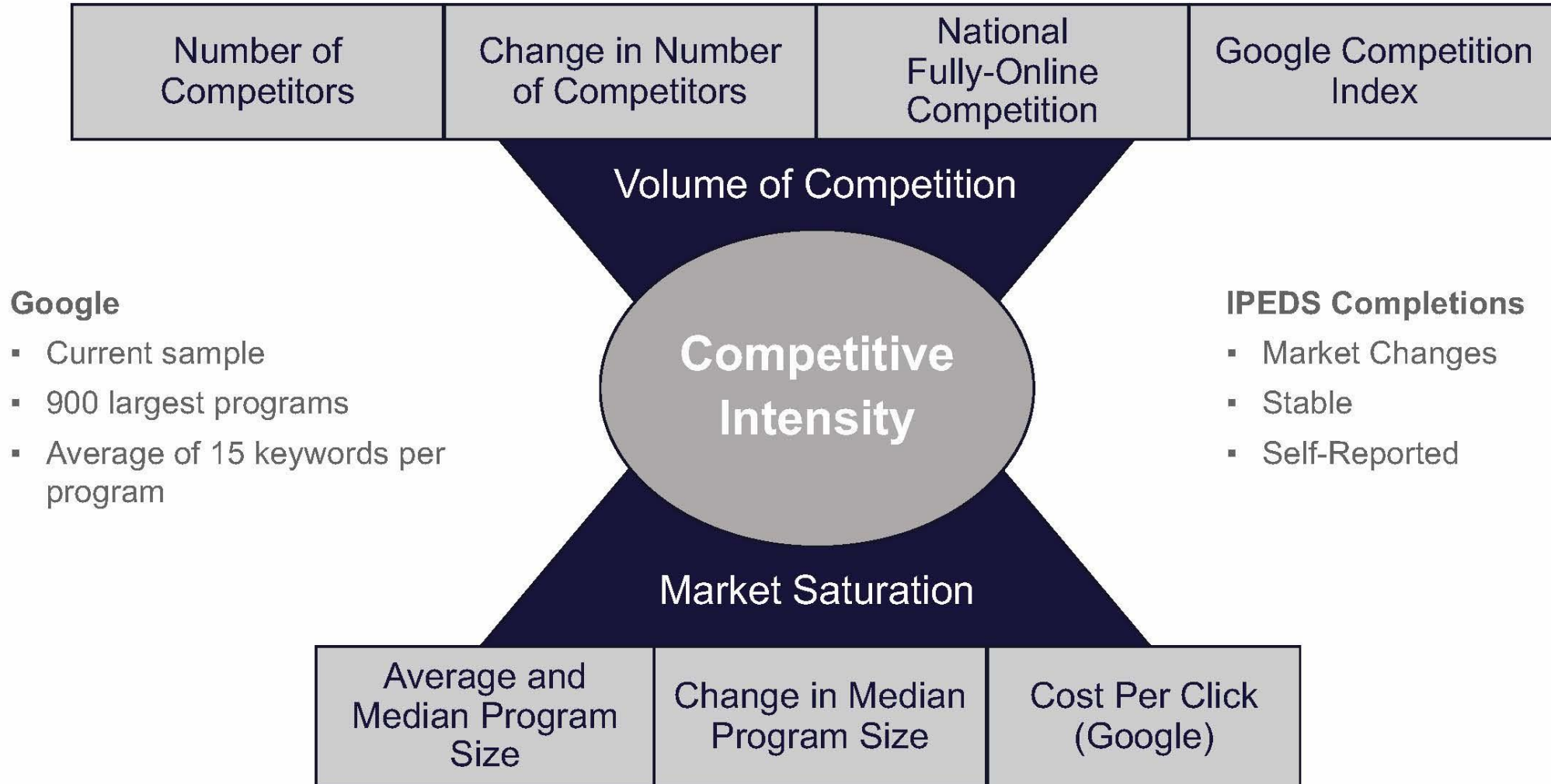
BLS Recent Growth Rates	BLS Growth Forecast
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Job Postings per Grad	Jobs Openings per Grad	ACS Unemployment Rates
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# Competitive Intensity

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CIP: 11.0701 Computer Science

Market: National

Total Score: 42

Percentile: 100

Student Demand

Score: 39 Percentile: 100

Catg...	Pctl	Criterion	Value	Score
Size	99	Google Search Volume (3 Months)*	840,402	8
	99	International Page Views (12 Months)	31,798	NS
	100	New Student Enrollment Volume (12 Mo.)	12,600	8
	99	On-ground Completions at In-Market Institutions	17,656	4
	99	Online Completions by In-Market Students	3,607	4
	99	Sum of On-ground and Online Completions	21,262	4
Growth	98	Google Search YoY Change (Units)*	157,470	3
	100	New Student Enrollment Vol. YoY Change (Units)	9,174	3
	99	Completion Volume YoY Change (Units)	1,253	3
	80	Google Search YoY Change (%)*	23%	1
	94	New Student Enrollment Vol. YoY Change (%)	268%	1
	66	Completion Volume YoY Change (%)	6%	0

Competitive Intensity

Score: -6 Percentile: 13

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	99	Campuses with Graduates**	407	-8
	99	Campuses with Grads YoY Change (Units)**	15	-3
	99	Institutions with Online In-Market Students**	82	NS
In-Market Program Sizes	98	Average Program Completions	44	6
	92	Median Program Completions	16	2
	54	YoY Median Prog. Compl. Change (Units)	-1	0
In-Market Saturation	58	YoY Median Prog. Compl. Change (%)	-6%	0
	90	Google Search * Cost per Click**	\$17	-3
National Online Competition	32	Google Competition Index**	0.30	0
	99	National Online Institutions (Units)**	92	NS
	67	Nat'l Online % of Institutions	21%	NS
	56	Nat'l Online % of Completions	17%	NS

Employment\*

Score: 9 Percentile: 92

Category	Pctl	Criterion	Value	Score
Size: Direct Prep	99	Job Postings Total (12 Months)*	802,409	2
	99	BLS Current Employment*	2,368,405	2
	98	BLS Annual Job Openings*	183,620	NS
Size: ACS Bach. Outcomes	99	Job Postings Total (12 Months)*	302,999	NS
	99	BLS Current Employment*	993,465	NS
Growth (Direct Prep)	75	BLS 1-Year Historical Growth*	-0.4%	NS
	62	BLS 3-Year Historic Growth (CAGR)*	1.6%	0
	78	BLS 10-Year Future Growth (CAGR)*	1.1%	0
Saturation (Direct Prep)	84	Job Postings per Graduate*	7.9	0
	79	BLS Job Openings per Graduate*	1.8	NS
Wages (Direct Prep)	73	BLS 10th-Percentile Wages*	\$47,112	NS
	68	BLS Mean Wages*	76,433	NS
National American Community Survey Bachelor's Degree Outcomes	82	Wages (Age < 30)	\$53,962	6
	61	Wages (Age 30-60)	\$95,532	2
	19	% with Any Graduate Degree	23%	NS
	33	% with Masters	21%	NS
	11	% with Doct/Prof Degree	2%	NS
	86	% Unemp. (Age <30)**	4%	-2
	73	% Unemp. (Age 30-60)**	2%	-1
	98	% in Direct Prep Jobs	62%	NS

CIP Description:

A program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, computer development and programming, and applications to a variety of end-use situations.

Degree Fit:

Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score
NHEBI Nat'l 2 Year		Cost Index**	NA	NS
		Student: Faculty Index	NA	NS

National Completions by Level

Score: 0

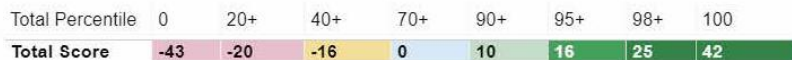
Award Level	Completions (National)	Completions (Market)	Enrollment (Market)
Certificate	8%	8%	0%
Associates	8%	8%	19%
Bachelors	61%	61%	56%
Postbaccalaureate Certificate	0%	0%	0%
Masters	21%	21%	23%
Post-masters Certificate	0%	0%	0%
Doctoral	2%	2%	2%
Unknown	0%	0%	0%

National Workforce Ed. Attainment

Score: 0

Award Level	BLS Educational Attainment
No College	6%
Some College	14%
Associates	9%
Bachelors	46%
Masters	22%
Doctoral	3%

\* - Google search, employment data and Jobs Per Grad Ratio do not filter by award level.  
 \*\* - Color scale in reverse.  
 NA - No data available/not currently tracked.  
 NS - Not Scored in Rubrics (values = 0).  
 2-Yr - Associates & certificate programs only.  
 PCTL - Percentile



\*\* Color Scale in Reverse

