# From a Culture of Evidence to a Culture of Action & Inquiry APPENDIX: Examples of Outcomes Data That Matter



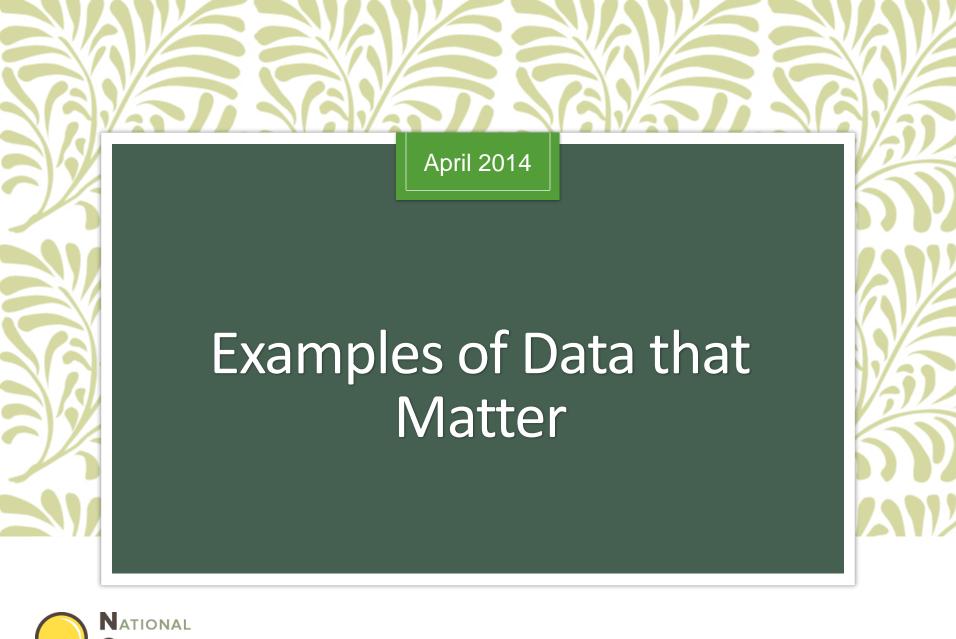
Dr. Rob Johnstone
Aspen / ATD Leadership Symposium
Wye River, MD
April 1, 2014

www.inquiry2improvement.com

#### **Acknowledgements**

- The content in this presentation has been collected from a variety of sources, all of which are publicly available on websites or have been presented in public settings.
- These sources include local college IR efforts, state system efforts, and national projects such as:
  - Completion by Design
  - The Aspen Prize for Community College Excellence
  - The Carnegie Foundation's Statway / Quantway
  - Collegemeasures.org
- Content has also been developed by and with a host of national partners, including CCRC, the Aspen Institute, the RP Group (CA), and AIR (American Institutes for Research)



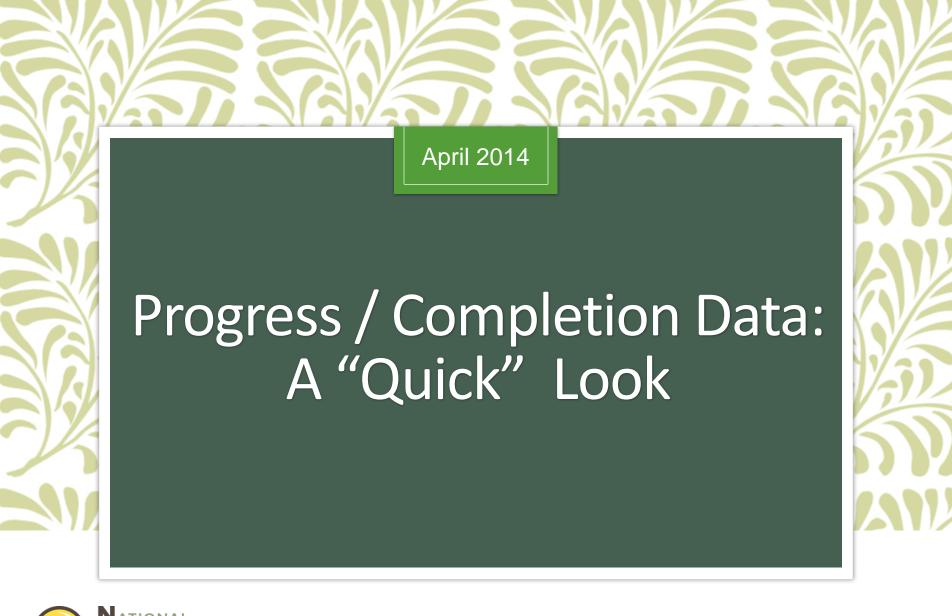




### Aspen's Take on Data that Matters:

Progress / Completion Outcomes Data
Labor Market Outcomes Data
Learning Outcomes Data
Equitable Outcomes Data







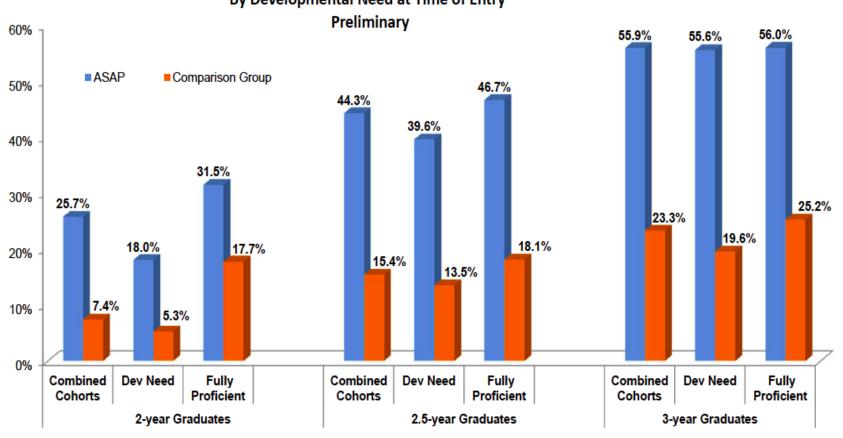
# Completion Example #1 CUNY ASAP Program Graduation Rates



#### **ASAP Program Results**

Chart 1: Graduation Rates for Combined ASAP and Comparison Group Cohorts:

By Developmental Need at Time of Entry<sup>1</sup>

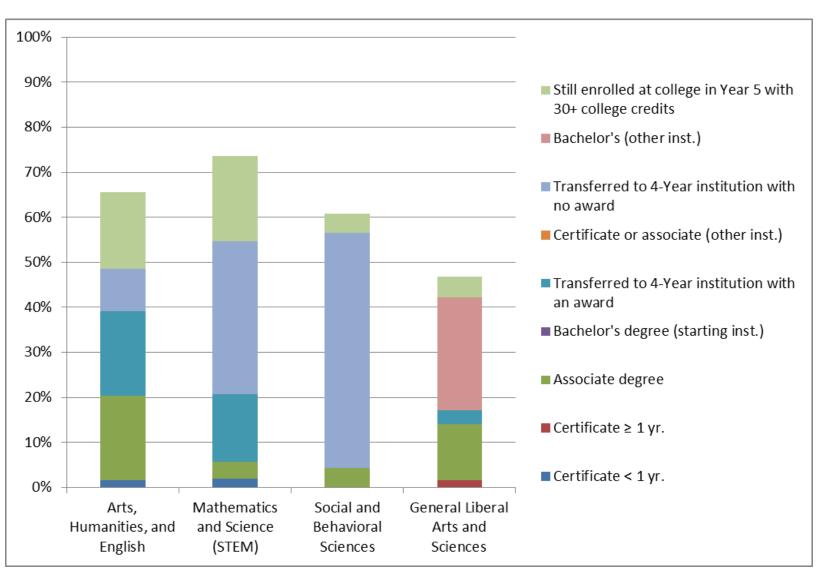


# Completion Example #2 Completion Rates in Completion by Design



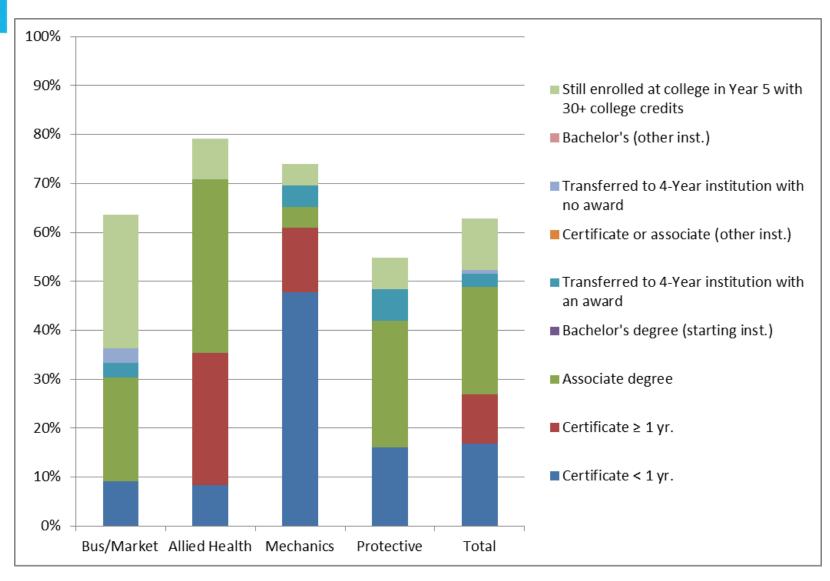


# **Example from CBD: Outcomes for LAS Concentrators**





#### **Outcomes by CTE Concentrators**



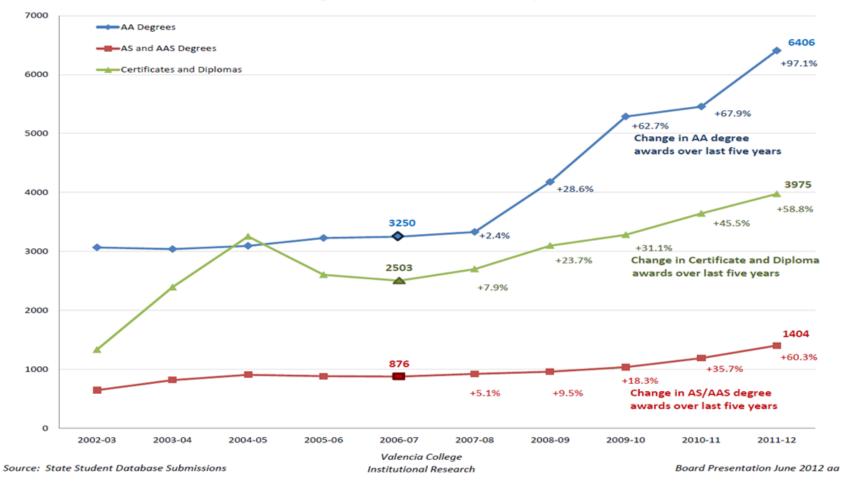
# Completion Example #3 Valencia College



#### **Outcomes of Prize finalist colleges:**

#### Exceptional improvements over time in completion

#### AA, AS/AAS Degrees and Certificates / Diplomas Awarded



# Progress Example 1: Grades in Sequenced Courses



#### **Grades in Sequenced Courses Backdrop**

- Course sequences analyzed in Mathematics, English, Biology, Chemistry, Physics & Economics
- Relationship between grade in 1<sup>st</sup> course in sequence and success in 2<sup>nd</sup> course in sequence was examined.
- Enrollment data tracked over five-year period
- Selected highlight slides follow; full PPT provided on request

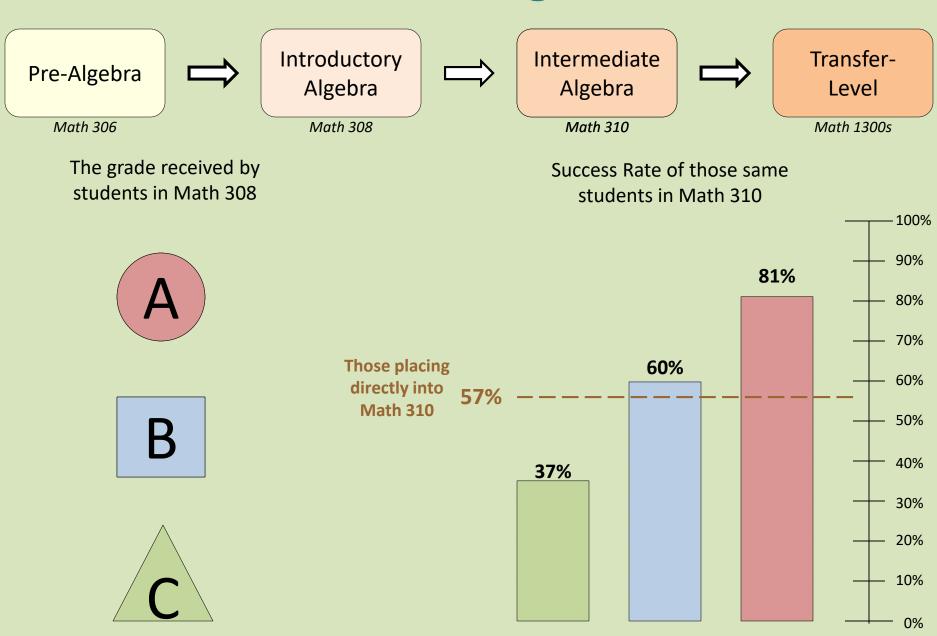


#### **Data Too Often Presented Like This...**

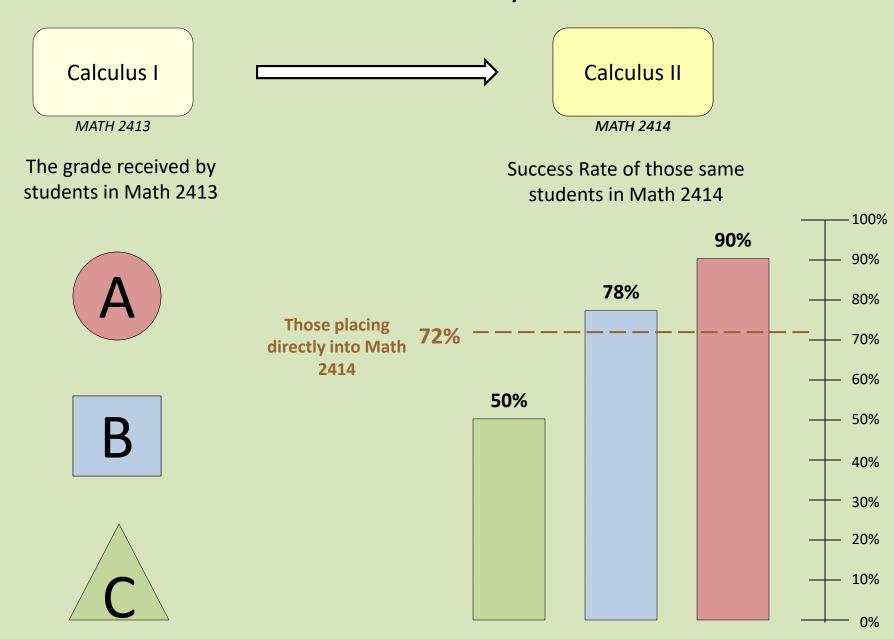
Status in Math 310	Count	% of Total N	Success Rate in Math 310
A in Math 308	5,659	10%	81%
B in Math 308	7,726	13%	60%
C in Math 308	7,234	12%	37%
Unclear Status in Math 308*	1,675	3%	16%
Math 310 Repeater / Non Success	14,568	25%	41%
Math 310 Attempt was First Math Course	16,812	29%	57%
Taking Math 308 / 310 in Same Semester	4,505	8%	68%
Other	487	1%	44%
Total	58,666	100%	53%



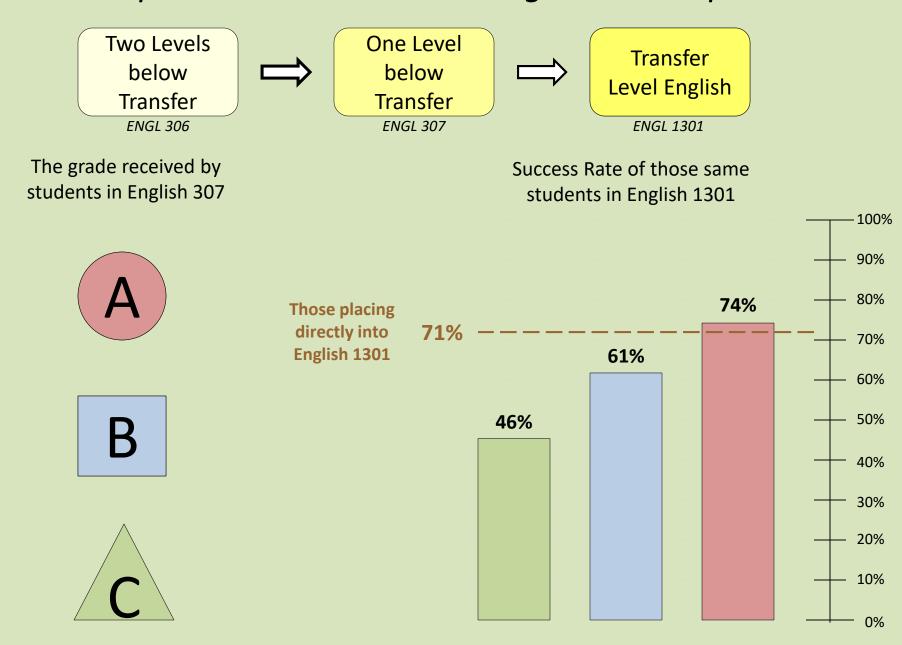
#### **And Not Often Enough Like This...**



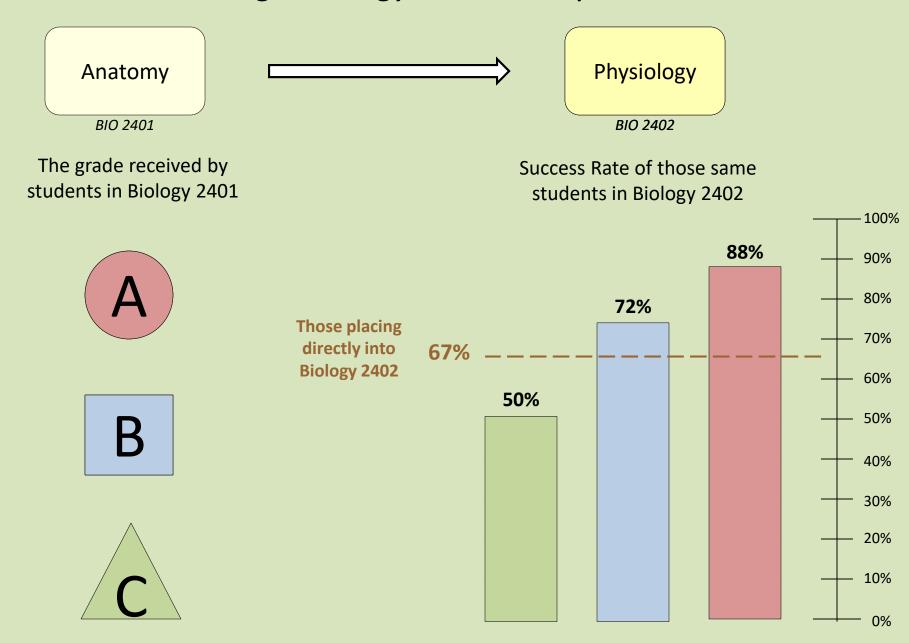
#### Calculus Course Sequence



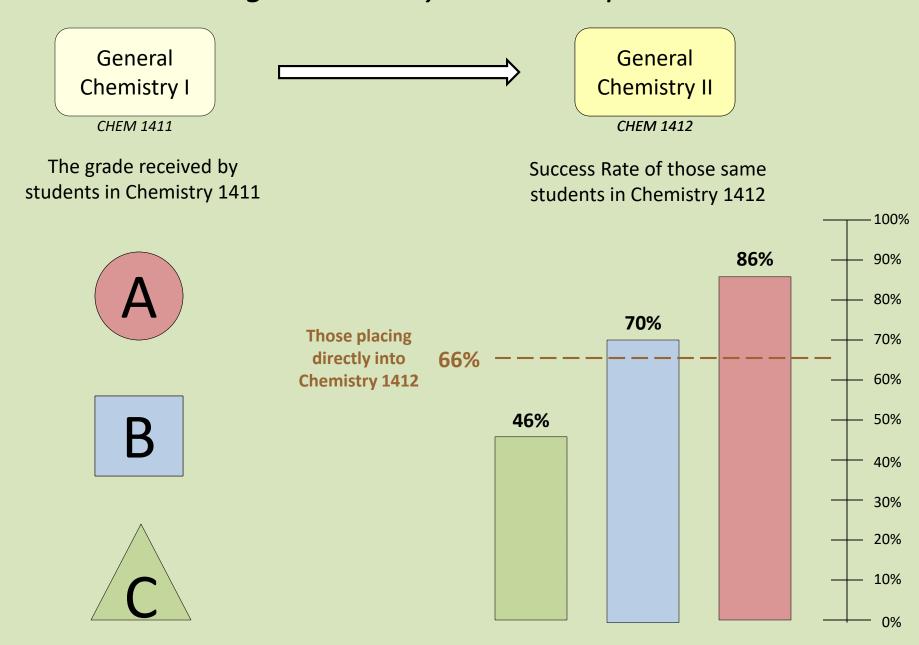
#### Developmental Education Writing Course Sequence



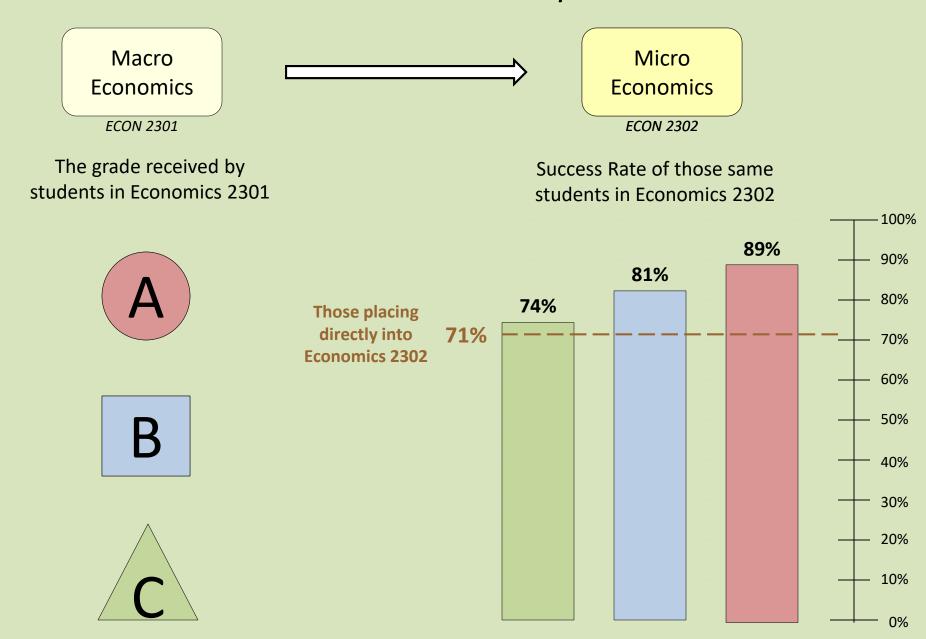
#### College Biology Course Sequence



#### College Chemistry Course Sequence



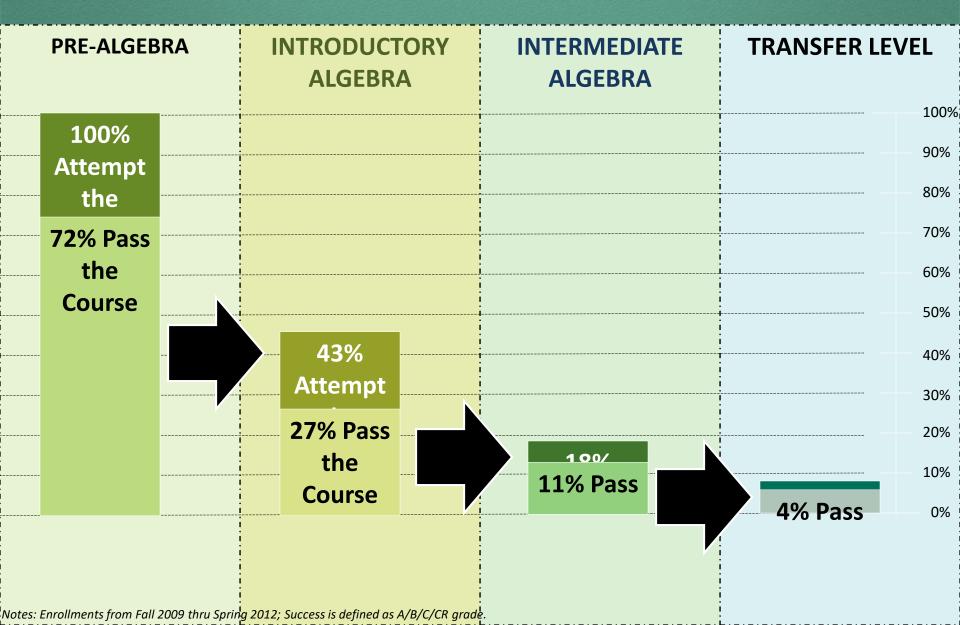
#### Economics Course Sequence



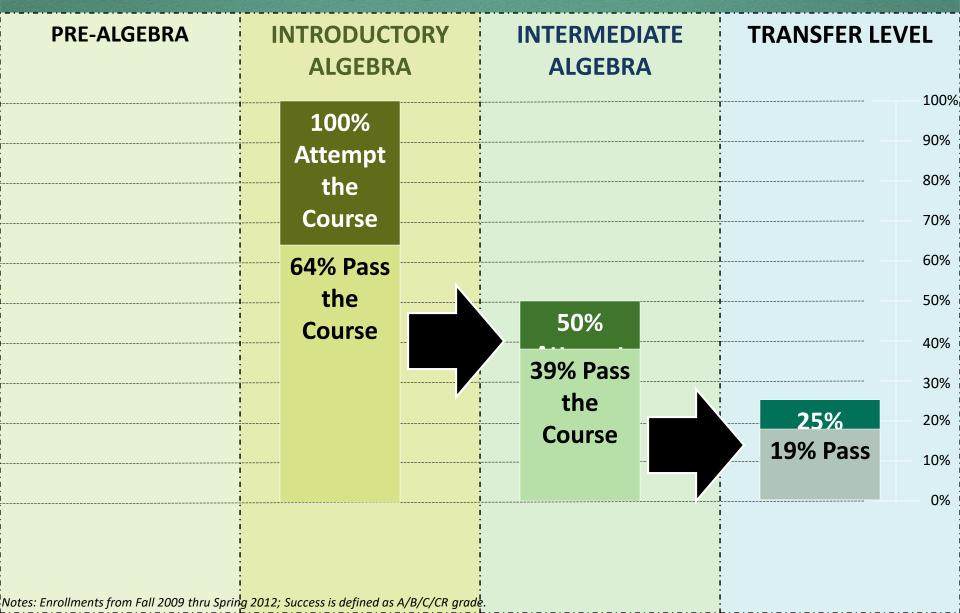
# Progress Example 2: Developmental Education Cohort Tracking



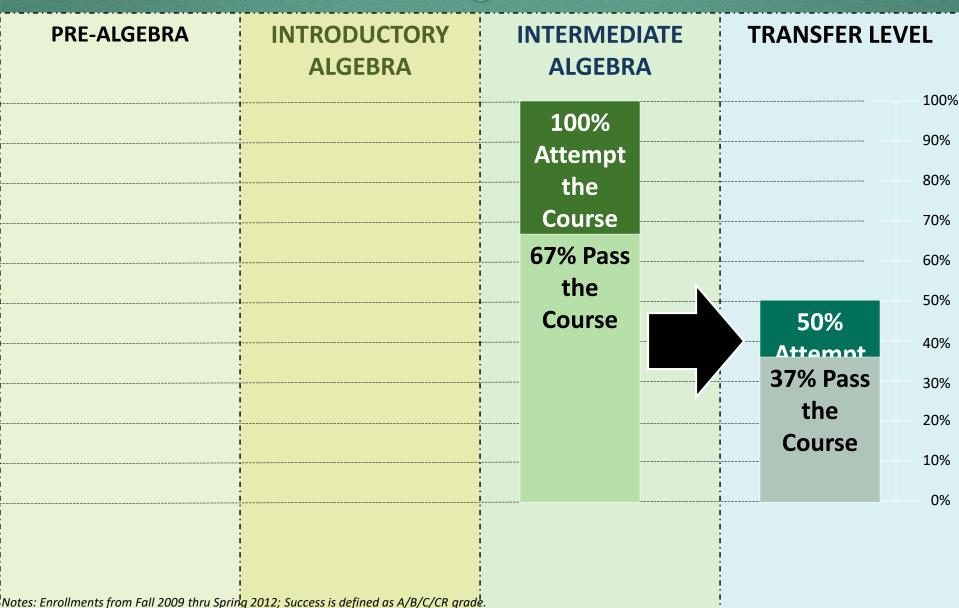
#### Math cohort tracking starting in Pre-Algebra



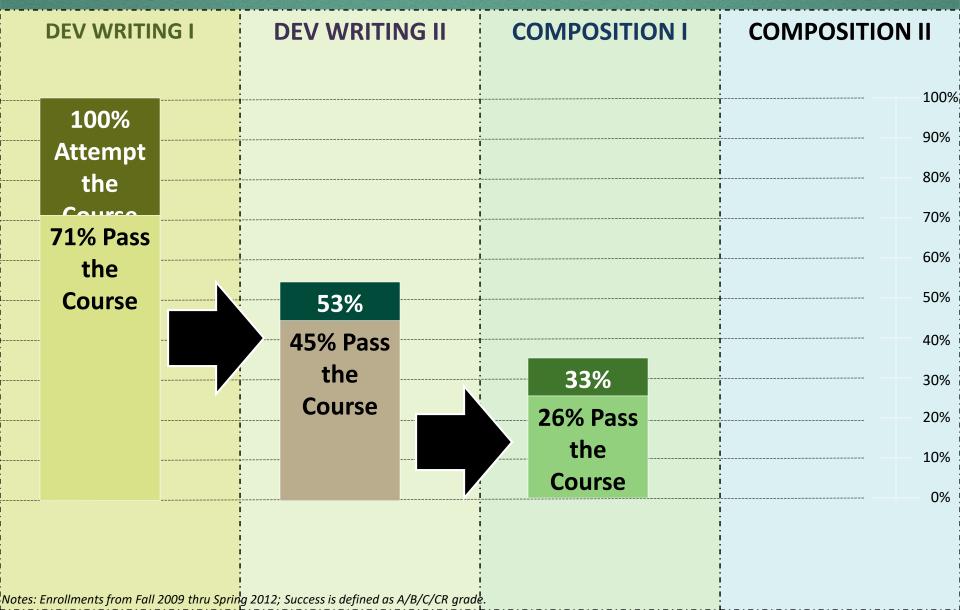
# Math cohort tracking starting in Introductory Algebra



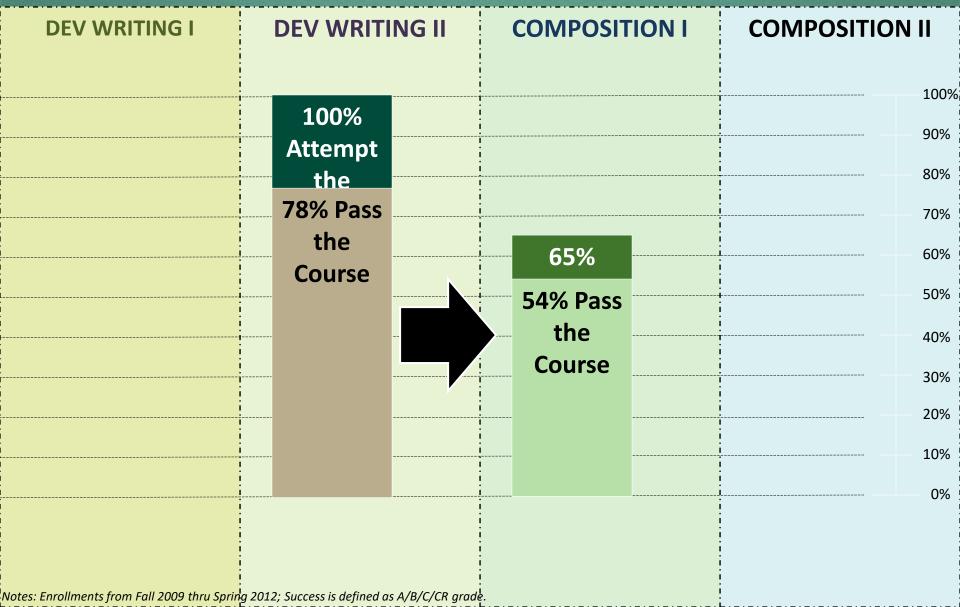
## Math cohort tracking starting in Intermediate Algebra



# English Writing cohort tracking starting at Developmental Writing I



# English Writing cohort tracking starting at Developmental Writing II



#### **Progress Example 3:**

**Look for Examples from Four-Year Schools:** 

**Retention & Progress at Georgia State** 

http://www.edtrust.org/higher\_ed\_practice\_guide for more examples



#### First Year to Second Year Retention, Georgia State University

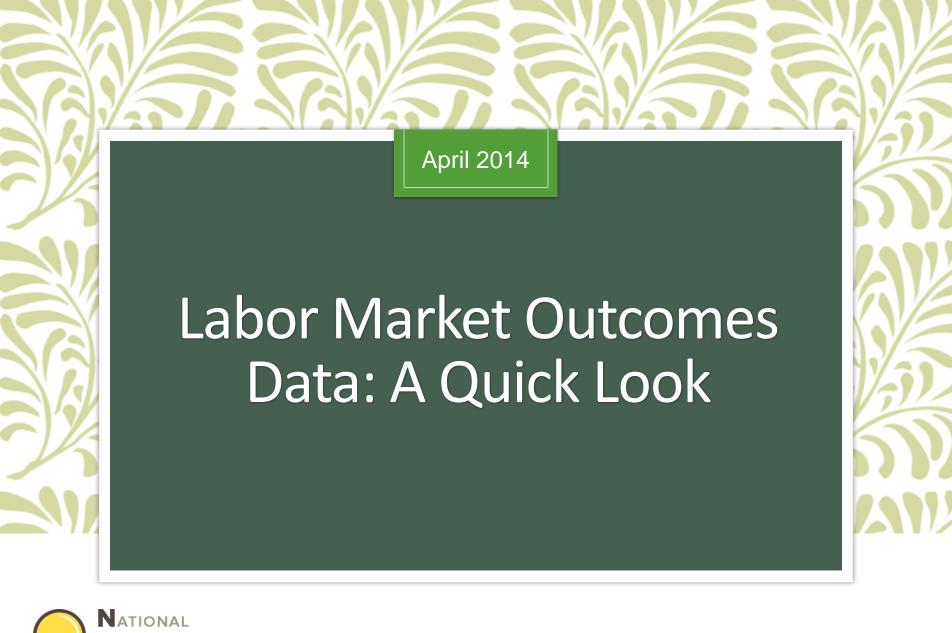




### First Year Retention & Progression Rates - Georgia State University









# Labor Market Outcomes Example 1:

CollegeMeasures.org ESM

for Program-Level LMI Data



# CollegeMeasures.org is one possibility to get LMI data

- Collaboration between the Lumina Foundation and AIR
- Six states currently signed on AR, CO, FL, TN,
   TX, VA
- Any state can theoretically participate
- Check it out: <a href="http://www.collegemeasures.org/esm/">http://www.collegemeasures.org/esm/</a>



33

## Wages of Individual Degree Programs at an Arkansas CC





## Wage Earning Rate of Individual <1 Year Certificate Programs at a Colorado CC





## Wages for AA Degrees in Business / Mgmt / Marketing in Tennessee, By College





## Wage Earning Rate of Licensed Vocational Nurses in Virginia, By College





# Labor Market Outcomes Example 2:

Aspen Prize's Approach for

**Comparing Labor Market Outcomes** 



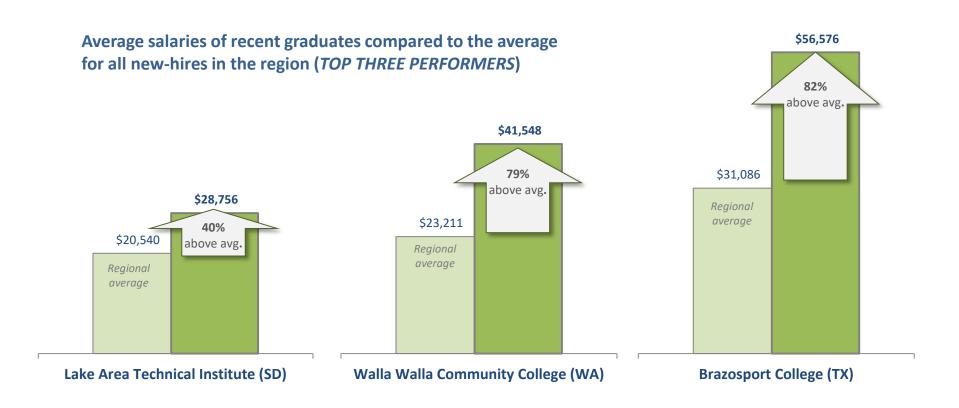
## **Aspen Prize Sample Model Comparing Labor Market Outcomes**

	Employment Metrics		Earnings and Wage Metrics				County-level Economic Context Metrics		
Institution	Class of 2011 Composite Employment Index	Class of 2006 Composite Employment	Annualized Salaries and Wages for 2011 Employed Graduates	Class of 2011 Relative Wages	Annualized Salaries and Wages for Employed 2006 Graduates in 2011	Class of 2006 Relative Wages	County Civilian Workforce Participation Rate	2011 County Unemployment Rate	County 5 Year Employ ment Growth Rate
County Community College	239	209	\$55,784	180%	\$79,204	161%	76%	8.4%	7.0%
Peer College 2	176	182	\$24,969	85%	\$48,130	102%	80%	9.0%	-8.1%
Peer College 3	175	154	\$20,304	89%	\$29,475	89%	67%	7.5%	1.4%
Peer College 4	153	151	\$21,637	77%	\$41,894	99%	76%	9.5%	9.9%
Peer College 5	218	208	\$28,353	138%	\$36,830	100%	86%	4.2%	0.9%
Peer College 6	137	157	\$27,533	101%	\$43,973	91%	77%	8.6%	-3.0%
Peer College 7	175	170	\$23,483	96%	\$38,429	89%	77%	7.6%	-7.5%
Peer College 8	147	120	\$22,919	68%	\$34,005	76%	46%	10.4%	1.6%
Peer College 9	164	181	\$40,966	177%	\$58,470	151%	72%	7.5%	5.0%
Peer College 10	184	146	\$21,227	84%	\$35,818	86%	72%	8.3%	-2.5%
Peer-group average	177	168	\$28,717	109%	\$44,622	105%	73%	8.1%	-1.4%



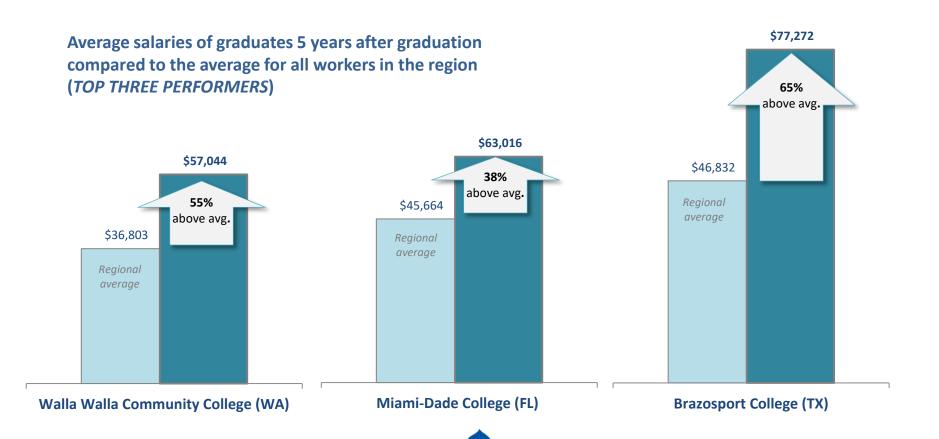
### **Outcomes of Prize finalist colleges:**

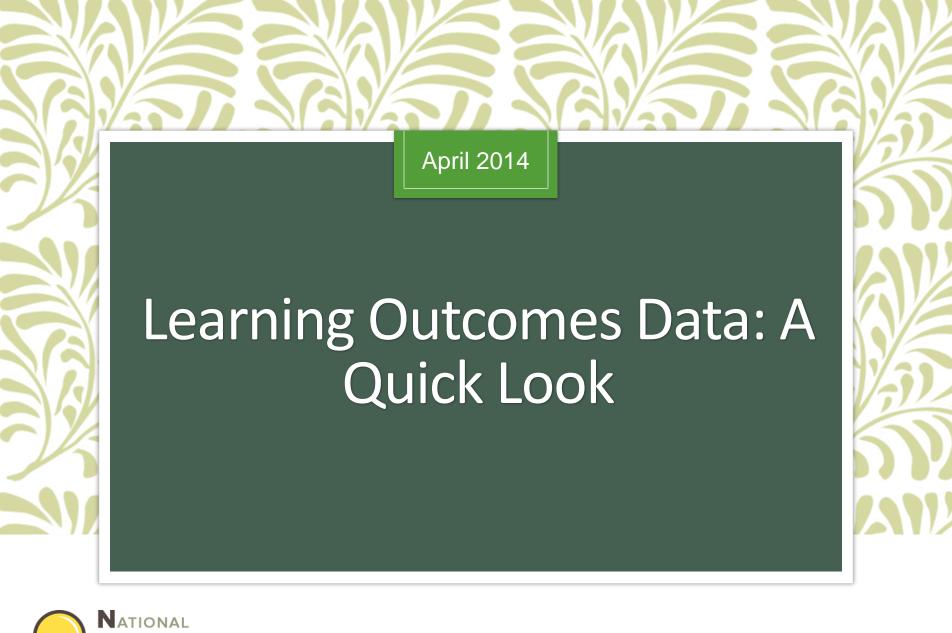
Exceptional short-term labor market outcomes for graduates



#### **Outcomes of Prize finalist colleges:**

Exceptional long-term labor market outcomes







## **Goals of Learning Outcomes Assessment**

- An ideal Learning Outcomes Assessment process:
  - Focuses on authenticity vs. compliance
  - Is driven & supported by the practitioners tasked with improvement
  - Leads to the generation of insight that is woven into improvement efforts
  - Creates campus conversations about student success and improving outcomes



## **Learning Outcomes Assessment Thoughts**

- Lots of outcomes to assess:
  - Institutional Learning Outcomes
  - General Education Learning Outcomes
  - Program Learning Outcomes
  - Course-level Learning Outcomes
- Challenging & complex but critical to work on generating insight and improvement at all levels



## **Learning Outcomes Assessment Thoughts**

Not many nationally normed LOA models aside from standardized tests (e.g. CLA & CAP) – many local models that are good

 Accreditation focus on LOA has resulted in a massive collection / reporting effort – taking away from the actual use of data for improvement...



## **Learning Outcomes Assessment Thoughts**

- Check out how CCBC's Executive Summaries at <a href="Iink">Iink</a>
  tell the assessment & improvement story at the course level
  - My favorite all-time story is Chem 108 tells how an attempt to improve outcomes actually made it worse, but then further redesign achieved very high levels tells that LOA is a journey to improvement story
- CCBC also strong on LOA at GE levels through a rubric assessment model – see <u>link</u> for more info

### **Learning Outcomes Examples**

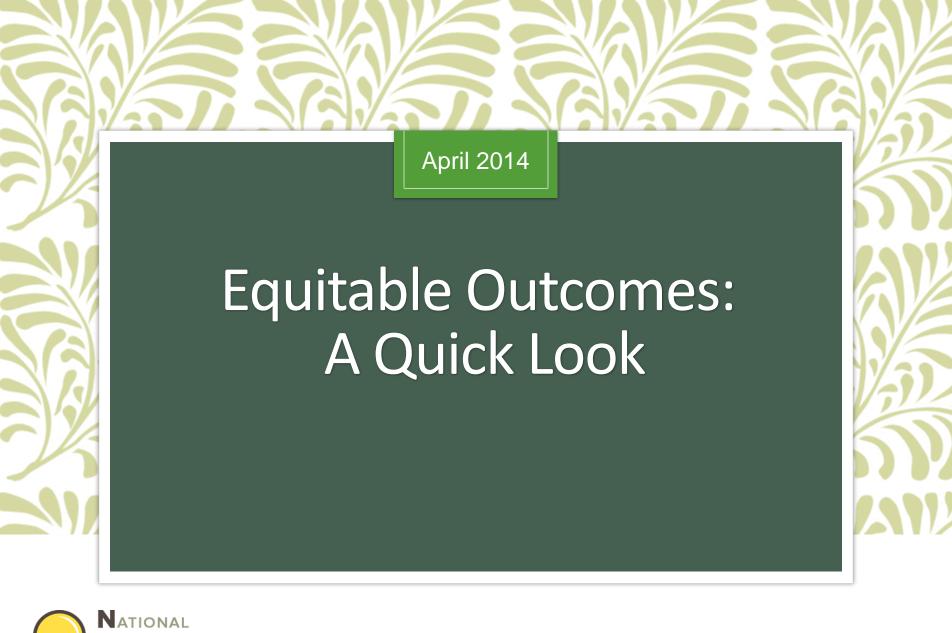
#### **Alverno College**

The gold standard example of LOA – check out the student, community, and faculty responses in addition to the mechanics - <a href="link">link</a>

#### Valencia College

- detailed program level assessments, excellent sharing of LOA outcomes with peers <u>link</u>
- Santa Barbara City College
  - closing the loop by focusing on improvement plans <u>link</u>
- West Kentucky Community & Technical College
  - overall approach to student learning; significant gains in reading based on LOA assessment – <u>link</u>







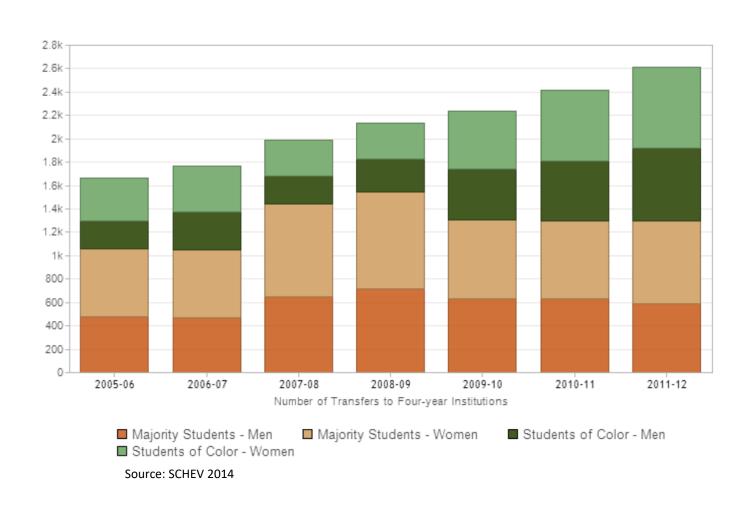
# Equitable Outcomes Example 1:

Northern Virginia CC & Transfers

to George Mason University



## Northern Virginia Community College Students Transferring into George Mason University 2005–2012



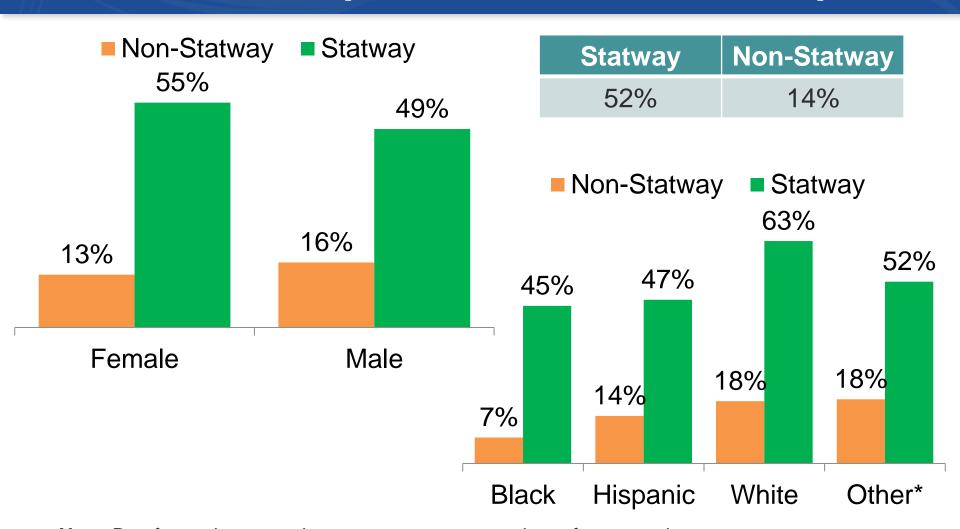
# Equitable Outcomes Example 2:

Statway / Quantway looks at

**Program Effects by Gender & Race** 

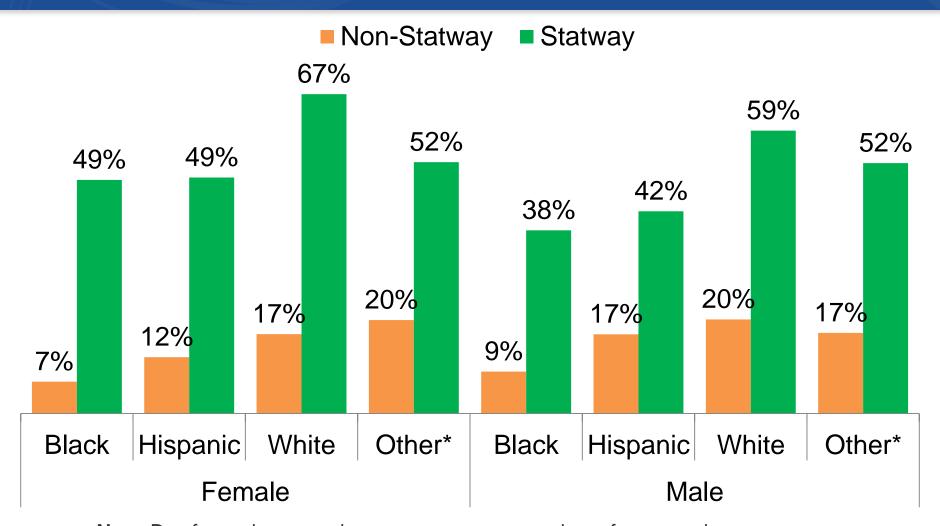


## Statway looks at Pathway thru Algebra Success by Gender & Ethnicity



**Note.** Data from unknown gender status were not presented; very few were unknown. "Other" also contains data from unknown status.

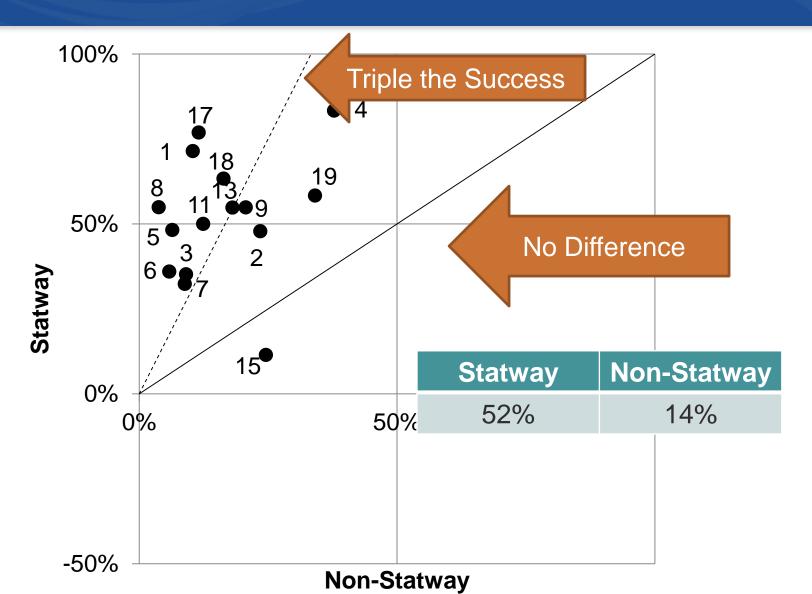
## Gender and Race/Ethnicity



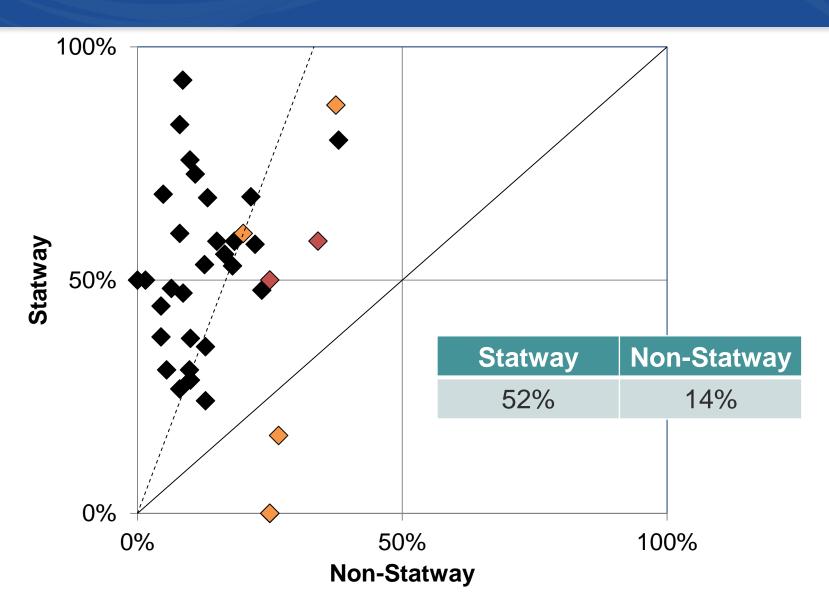
**Note.** Data from unknown gender status were not presented; very few were unknown.

"Other" also contains data from unknown status.

## College Level Math Success By College



## College Level Math Success - Faculty



## Equitable Outcomes Example 3:

Aspen Prize's Approach for Comparing

**Equitable Outcomes at the College Level** 



## **An Aspen Prize Finalist Achieves Near Equity in Outcomes**

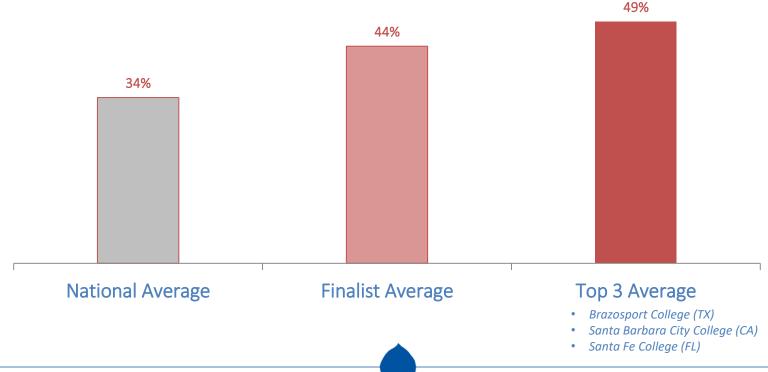
Equity Gaps: Three-Year Graduation and Transfer Rates (Full-Time, Federal IPEDS Data 2008-10) Percent of Entering Cohort 30% White 45% Gap Between Whites and Underrep. Minorities Minorities 42% 61% (URM) U.S Average URM 28% 34% 20% 40% 60% 80% 0% 100%



### **Outcomes of Prize finalist colleges:**

Far greater equity in outcomes than the national average

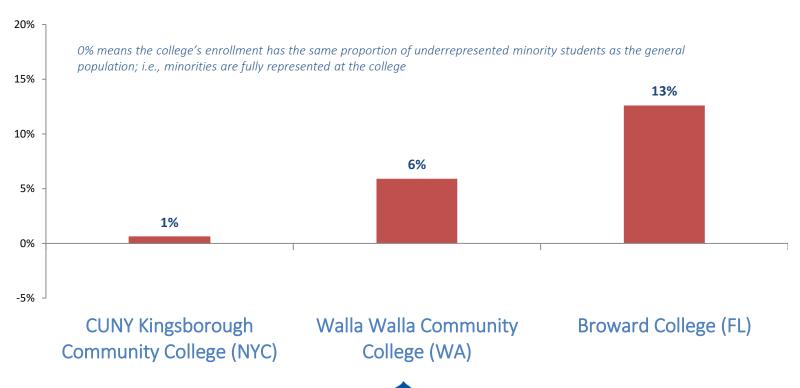
Three-year completion and/or transfer rates for *underrepresented minority students* compared to the national average



#### **Outcomes of Prize finalist colleges:**

Exceptional equity in access for underrepresented populations

% Difference between underrepresented minority enrollment in institution and percentage of the population in the college's service area (*TOP THREE PERFORMERS*)



### **Find Out More**

The National Center for Inquiry & Improvement website

www.inquiry2improvement.com

- Dr. Rob Johnstone, Founder & President <a href="mailto:rob@inquiry2improvement.com">rob@inquiry2improvement.com</a>
- CBD Inquiry Guides on Applied Inquiry & Nuances of Completion:

http://www.inquiry2improvement.com/publications-resources

