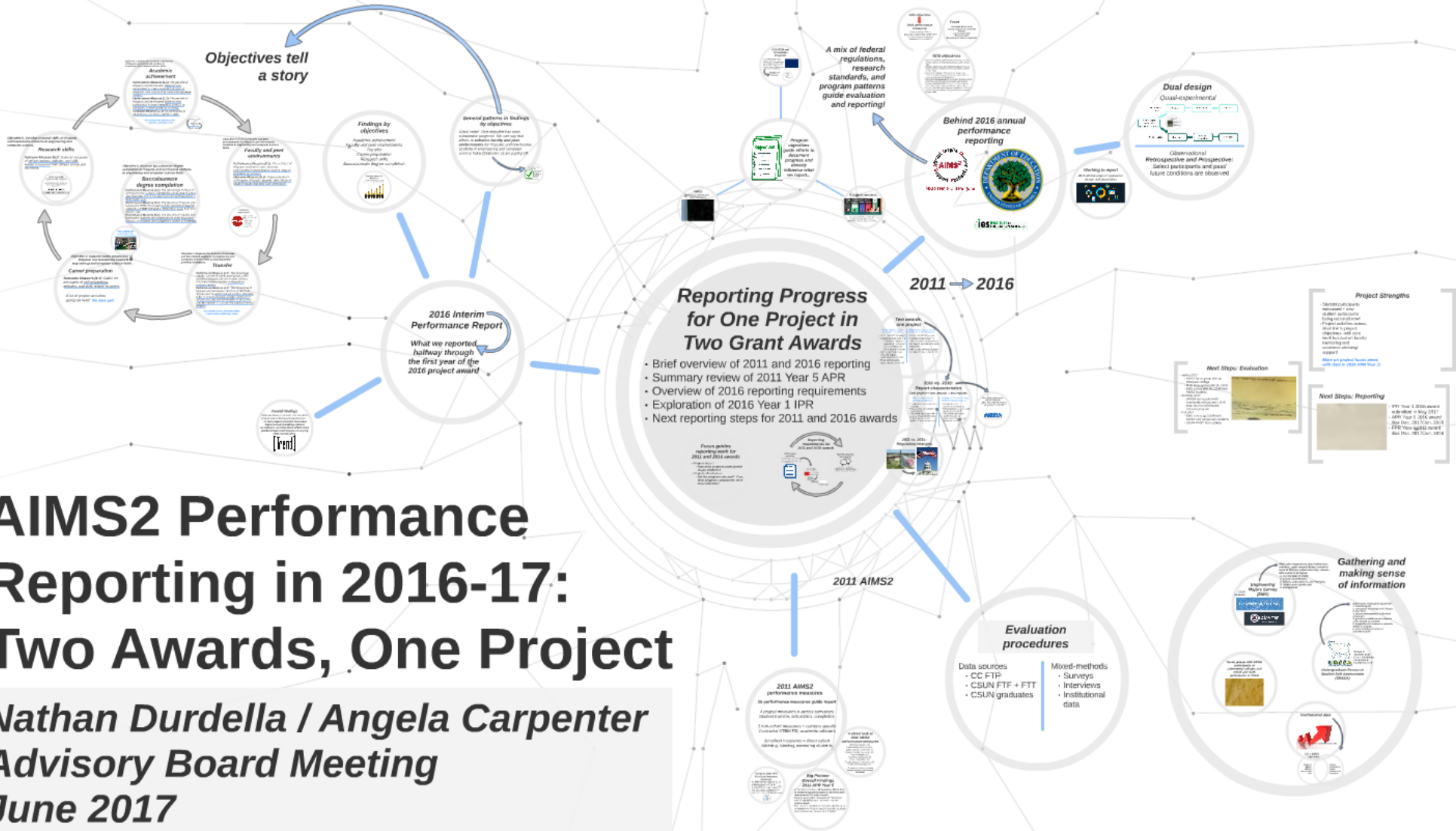


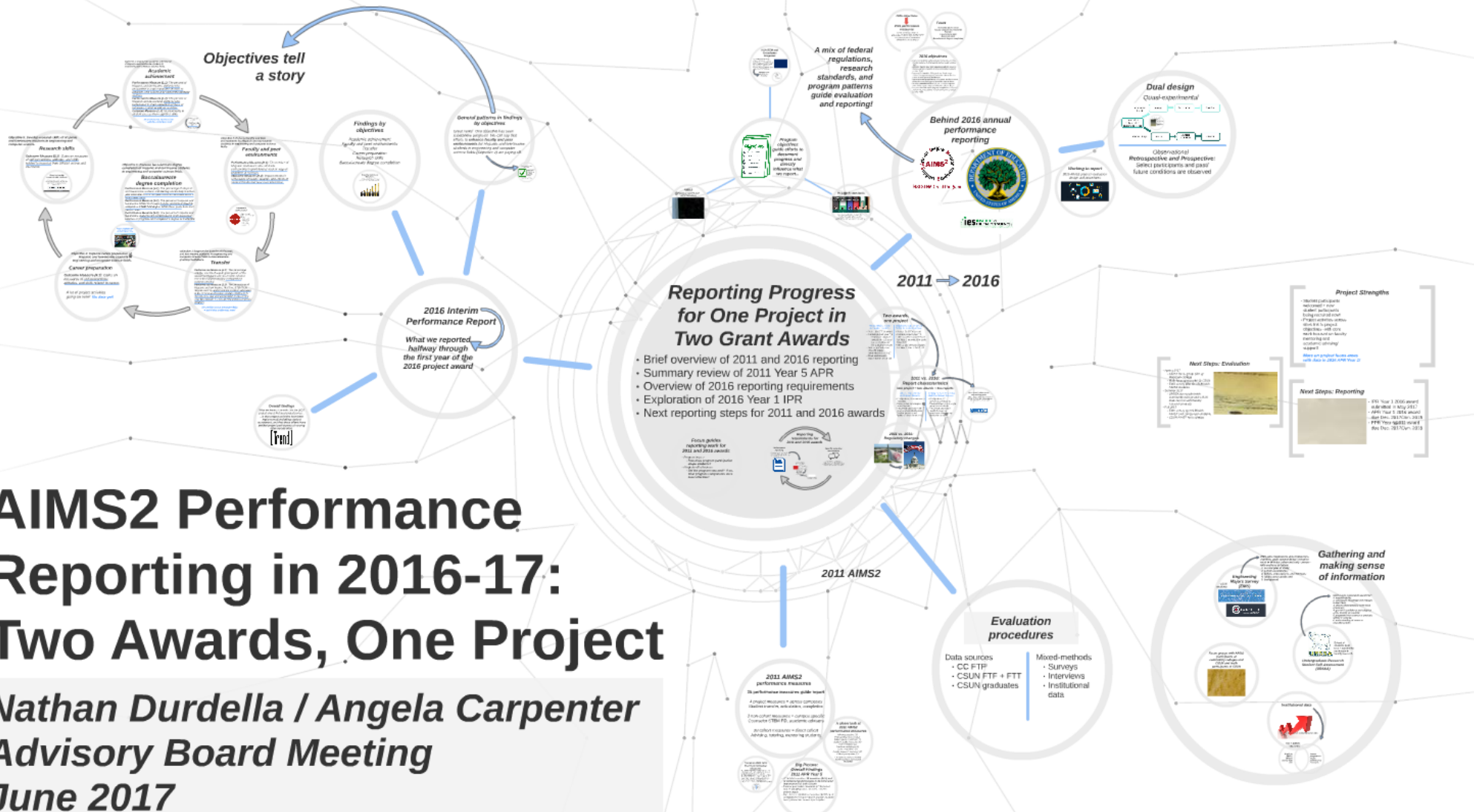
AIMS2 Performance Reporting in 2016-17: Two Awards, One Project

Nathan Durdella / Angela Carpenter
Advisory Board Meeting
June 2017



AIMS2 Performance Reporting in 2016-17: Two Awards, One Project

Nathan Durdella / Angela Carpenter
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June 2017



Reporting Progress for One Project in Two Grant Awards

Brief overview of 2011 and 2016 reporting
Summary review of 2011 Year 5 APR
Overview of 2016 reporting requirements
Exploration of 2016 Year 1 IPR

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Two awards, one project


Attract, Inspire, Mentor and Support Students

- 2011 HSI-STEM award
- Current project year = 6
 - 5 years in original award with a 1-year no, cost extension for a total of 6 years
- Annual performance (Year 5) report submitted in Jan 2017
- Final performance report due in Jan 2018

Bridging the Gap: Enhancing AIMS2 for Student Success

- 2016 HSI-STEM award
- Current project year = 1
- Interim performance report for Year 1 submitted in early May 2017
- Annual performance report for Year 1 due in Jan 2018

ng



2011 vs. 2016: Report characteristics

One project + two awards = two reports

Attract, Inspire, Mentor
and Support Students

12 objectives, 35 performance
measures

Focus on two cohorts/year in


Bridging the Gap: Enhancing
AIMS2 for Student Success

- 10 objectives, 12 performance measures
- Treat participants as a single

Both awards share same overarching goals

Build a transfer model, increase student transfer to CSUN, and increase program completion of students at CSUN





2011 vs. 2016: Report characteristics

One project + two awards = two reports

Attract, Inspire, Mentor and Support Students

- 12 objectives, 35 performance measures
- Focus on two cohorts/year in annual reports
- Mixed-methods design with balance of quantitative data (student journals) and qualitative data (interviews)

Bridging the Gap: Enhancing AIMS2 for Student Success

- 10 objectives, 12 performance measures
- Treat participants as a single group across cohorts
- Mixed-methods design heavily focused on quantitative data (survey and institutional)

2011 vs. 2016: Regulatory changes



Reporting Progress for One Project in Two Grant Awards

- Brief overview of 2011 and 2016 reporting
- Summary review of 2011 Year 5 APR
- Overview of 2016 reporting requirements
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- Next reporting steps for 2011 and 2016 awards

Two awards, one project

- Attract, Inspire, Mentor and Support Students**
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- 2016 HSI-STEM award
 - Current project year = 1
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 - Annual performance report for Year 1 due in Jan 2018

Focus guides reporting work for 2011 and 2016 awards

- Program impact
 - How does program participation shape students?
- Program effectiveness
 - Did the program succeed? If so, what program components were most effective?

Reporting requirements for 2011 and 2016 awards

Performance reporting

- Performance reporting required after each project performance period
- Report must be prepared midway through the next project period



Specific reporting requirements



We must report on performance (Section A) and budget (Section B) as a comprehensive tool to progress toward achievement of our project objectives

2011 vs. 2016 Regulatory changes



2011 → 2016

Reporting Progress for One Project in Two Grant Awards

- Brief overview of 2011 and 2016 reporting
- Summary review of 2011 Year 5 APR
- Overview of 2016 reporting requirements
- Exploration of 2016 Year 1 IPR
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- Did the program succeed? If so, what program components were most effective?

Reporting requirements for 2011 and 2016 awards



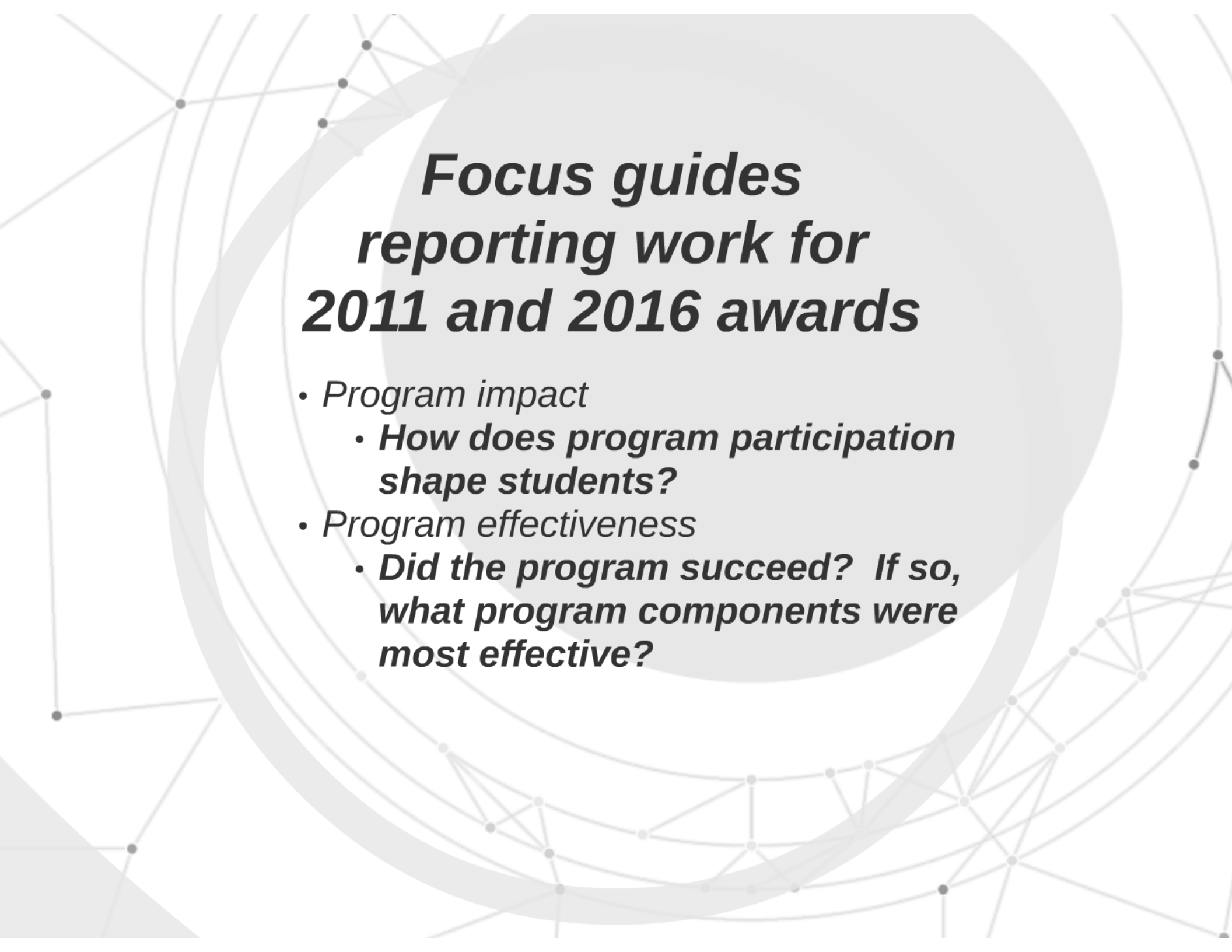
Performance reporting

Performance reporting is required for both original and extension awards. Annual reports are due every 12 months.



Specific reporting requirements

We require reporting performance (Student Success Report) as a component of our reporting process.



Focus guides reporting work for 2011 and 2016 awards

- *Program impact*
 - ***How does program participation shape students?***
- *Program effectiveness*
 - ***Did the program succeed? If so, what program components were most effective?***

Reporting requirements for 2011 and 2016 awards

Performance reporting

- Performance reporting required after each project performance period
- Interim report required midway through first-year project period



Recent and current project performance periods

2011 AIMS2 award
Year 5: Oct. 1, 2015 - Sept. 30, 2016
Year 6: Oct. 1, 2016 - Sept. 30, 2017
2016 Bridging AIMS2 award
Year 1: Oct. 1, 2016 - Sept. 30, 2017

The annual performance report (APR) is due about 3 months after the end of a project period, usually in late Dec./early Jan.

2016 Year 1 APR + 2011 Year 6 FPR due Dec. 2017/Jan. 2018



APR/FPR review and presentation @ the AIMS2 December meeting and AIMS2 advisory board meeting in June!

Specific reporting requirements



We must report on performance (Section A) and budget (Section B) -- a comprehensive look at progress toward achievement of our project objectives!

Performance reporting

- Performance reporting required after each project performance period
- Interim report required midway through first-year project period



*Recent
project p
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Recent and current project performance periods



2011 AIMS2 award

Year 5: Oct. 1, 2015 - Sept. 30, 2016

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2016 Bridging AIMS2 award

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**2016 Year 1 APR +
2011 Year 6 FPR
due Dec. 2017/**

DECEMBER 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
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**2016 Year 1 APR +
2011 Year 6 FPR
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Jan. 2018**

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DECEMBER 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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31		Notes				

JUNE 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
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		Notes				

www.wheriscalendars.com

***APR/FPR review and presentation @
the AIMS2 December meeting and
AIMS2 advisory board meeting in June!***

Specific reporting requirements



We must report on performance (Section A) and budget (Section B) -- *a comprehensive look at progress toward achievement of our project objectives!*



2011 AIMS2

2011 AIMS2 performance measures

35 performance measures guide report

4 project measures = across campuses
Student transfer, articulation, completion

3 non-cohort measures = campus specific
Counselor STEM PD, academic advisers

28 cohort measures = direct cohort
Advising, tutoring, mentoring students

A closer look 2011 AIMS2 performance measures

*Advising sessions
Peer/tutoring sessions
Online course enrollment
Student-faculty interactions
Peer mentoring
Academic workshops
Supplemental lab
Faculty research interactions
Cohort participation*

*+ 7 measures related to
faculty peer-peer and*

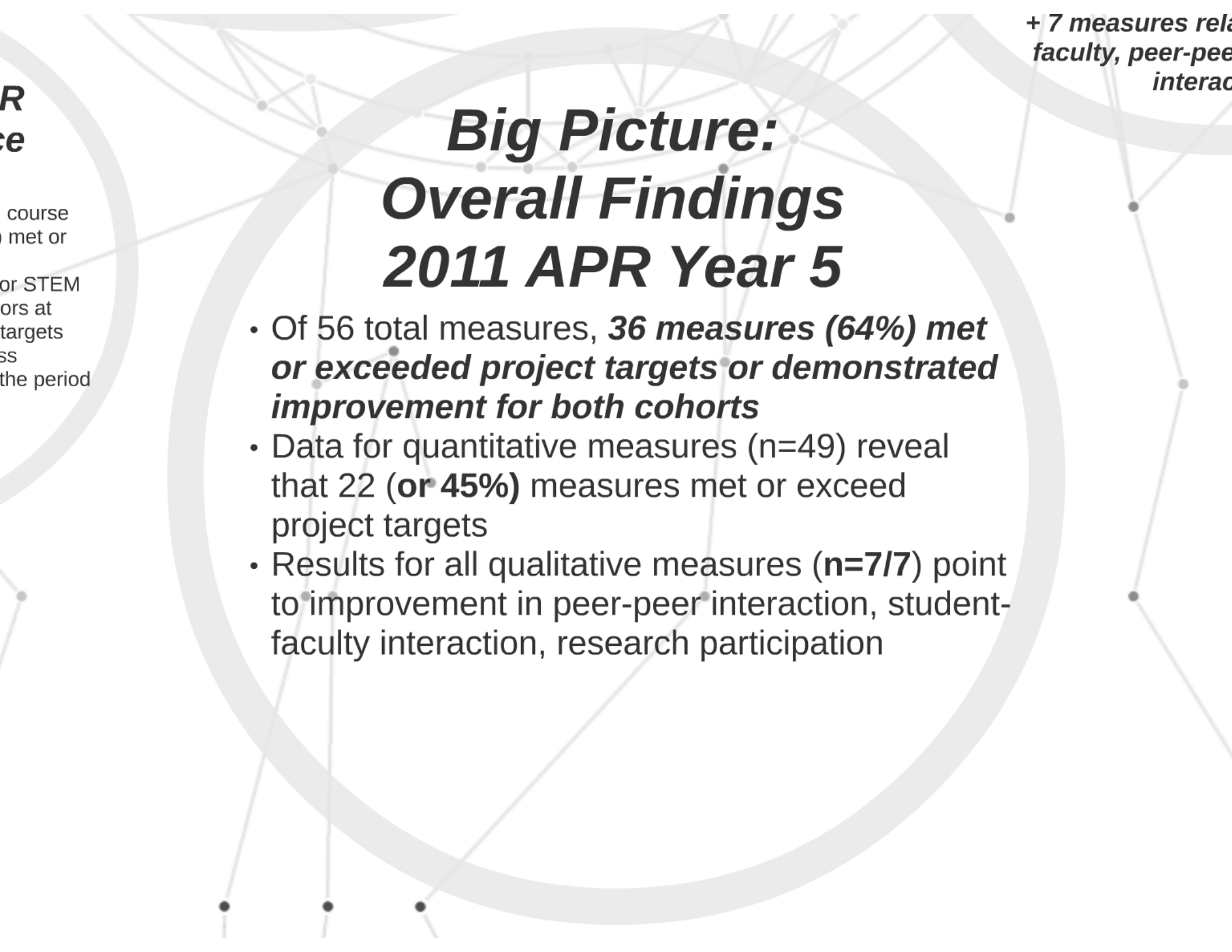
Director
Advisers

Support
Centers

re:

A closer look at 2011 AIMS2 performance measures

- Advising sessions (6)*
 - Peer/tutoring sessions (12)*
 - Online course enrollment (4)*
 - Student-faculty interaction (6)*
 - Peer mentoring (6)*
 - Academic workshops (2)*
 - Supplemental lab (2)*
 - Faculty research interaction (2)*
 - Cohort participation (2)*
- + 7 measures related to student-faculty, peer-peer and research interaction!***



Big Picture: Overall Findings 2011 APR Year 5

- Of 56 total measures, ***36 measures (64%) met or exceeded project targets or demonstrated improvement for both cohorts***
- Data for quantitative measures (n=49) reveal that 22 (***or 45%***) measures met or exceed project targets
- Results for all qualitative measures (***n=7/7***) point to improvement in peer-peer interaction, student-faculty interaction, research participation

+ 7 measures related to
faculty, peer-peer
interaction

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Trends in 2011 APR Year 5 performance measures

- All 4 **project** measures – transfer (1a), course articulation (2a/b), and completion (7a) met or exceeded project targets in the period
- All 3 **non-cohort** measures – Counselor STEM PD (3a) at GCC/COC, academic advisors at CSUN (8a) – met or exceeded project targets
- 22 of 49 (45%) **cohort** measures across campuses met or exceeded targets in the period

2011 APR Year 5: Transfer and program completion

Transfer achievement
exceeded target with
47 new CSUN transfer
students entering in
2015-16 from College of the
Canyons/Glendale
Community College in a
field housed in CECS
→ 121% increase over the
project target (n=36) and a
224% increase over
baseline figure (n=21) from
2010-11!

Program completion
exceeded target with
31.4% (49/156) completing
a degree program for the
most recent period vs.
30.9% (21/68) project target
→ An increase over the
first project year of 29.3%
(22/75) and a decrease over
the fourth project year of
36.5% (72/197) but overall
headcount is up!

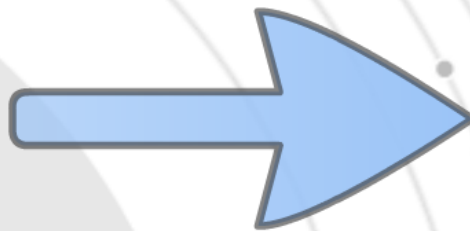
2011 APR Year 5: Transfer and program completion

Transfer achievement exceeded target with 47 new CSUN transfer students entering in 2015-16 from College of the Canyons/Glendale Community College in a field housed in CECS
→ *131% increase over the project target (n=36) and a 224% increase over baseline figure (n=21) from 2010-11!*

Program completion exceeded target with 31.4% (49/156) completing a degree program for the most recent period vs. 30.9% (21/68) project target
→ An increase over the first project year of 29.3% (22/75) and a decrease over the fourth project year of 36.5% (72/197) but overall headcount is up!

The background features a network of grey nodes connected by thin lines, with several large, light-grey arcs curving across the scene. A blue triangle is visible in the top-left corner.

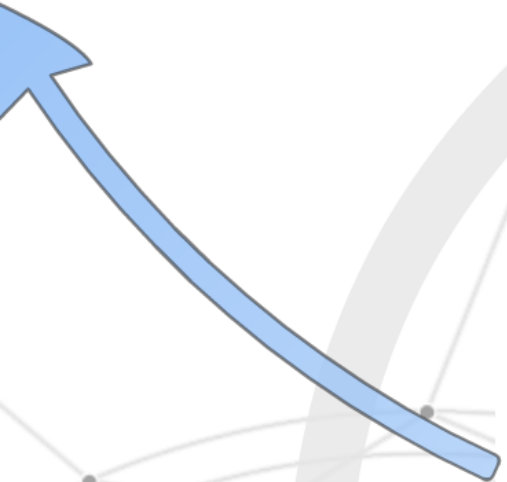
2011



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Behind 2016 annual performance reporting



HSI STEM Grant Program



Workin
2016 AIMS2
design a



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***A mix of federal
regulations,
research
standards, and
program patterns
guide evaluation
and reporting!***

HSI-STEM and Articulation Programs

(1) increase the number of Hispanic/low-income students attaining degrees in STEM fields; and (2) develop model transfer and articulation agreements between two-year and four-year institutions in STEM fields.



Standard set of performance measures

Competitive program priorities

- Competitive Preference Priority (2)
USDE HSI-STEM Program =
- **Moderate evidence of effectiveness**
- *Test participants prior to and after participation AND compare to a test of non-participants across multiple sites directly related to target population!*



Competitive program priorities

- Competitive Preference Priority (2)
USDE HSI-STEM Program =

- **Moderate evidence of effectiveness**

- *Test participants prior to and after participation AND compare to a test of non-participants across multiple sites directly related to target population!*



Research standards



Quasi-experimental design of a matched sample with baseline equivalence and pre-/post-test survey

AIMS2

Historical contexts and current practices





Program objectives guide efforts to document progress and directly influence what we report...

1. **Improve academic achievement** of Hispanic and low-income students in engineering and computer science fields.

2. **Enhance faculty and peer environments** for Hispanic and low-income students in engineering and computer science fields.

3. **Improve the transfer** of Hispanic and low-income students in engineering and computer science fields to baccalaureate-granting institutions.

4. **Improve career preparation** of Hispanic and low-income students in engineering and computer science fields.

5. **Develop research skills** of Hispanic and low-income students in engineering and computer science fields.

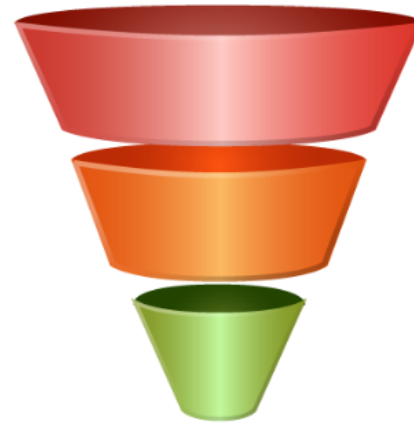
6. **Increase baccalaureate degree completion** of Hispanic and low-income students in engineering and computer science fields.



2016 objectives

- Improve **academic achievement** of Hispanic and low-income students in engineering and computer science fields.
- Enhance **faculty and peer environments** for Hispanic and low-income students in engineering and computer science fields.
- Improve the **transfer** of Hispanic and low-income students in engineering and computer science fields to baccalaureate-granting institutions.
- Improve **career preparation** of Hispanic and low-income students in engineering and computer science fields.
- Develop **research skills** of Hispanic and low-income students in engineering and computer science fields.
- Increase **baccalaureate degree completion** of Hispanic and low-income students in engineering and computer science fields.

Focus



***Academic achievement
Faculty and peer environments
Transfer***

***Career preparation
Research skills***

Baccalaureate degree completion

2016 objectives

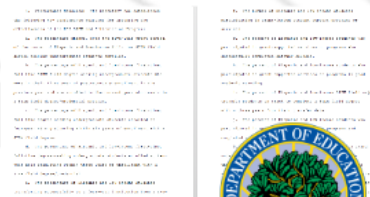


2016 performance measures

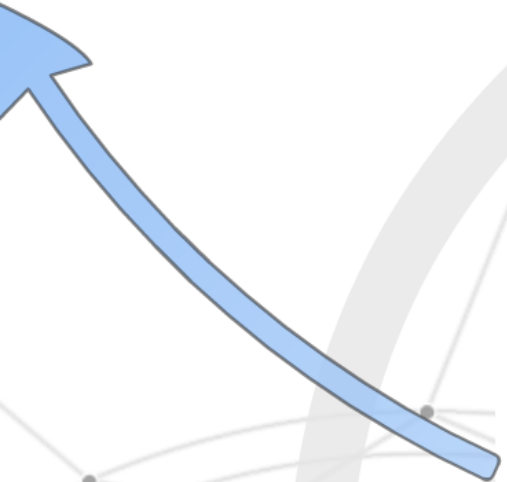
*Developed by USDE +
articulated in 2016 HSI-STEM RFP
= common set of measures
adopted for 2016 AIMS2*

Fac

Bacc



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Behind 2016 annual performance reporting



HSI STEM Grant Program



Workin
2016 AIMS2
design a



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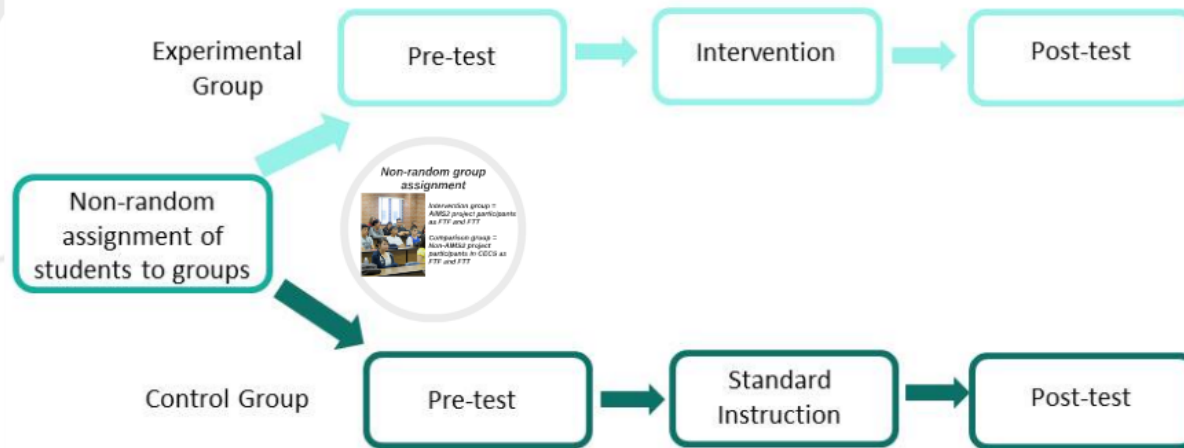
Working to report

*2016 AIMS2 program evaluation
design and procedures*



Dual design

Quasi-experimental



Observational
Retrospective and Prospective:
Select participants and past/
future conditions are observed

to report

program evaluation
procedures



Non-random group assignment

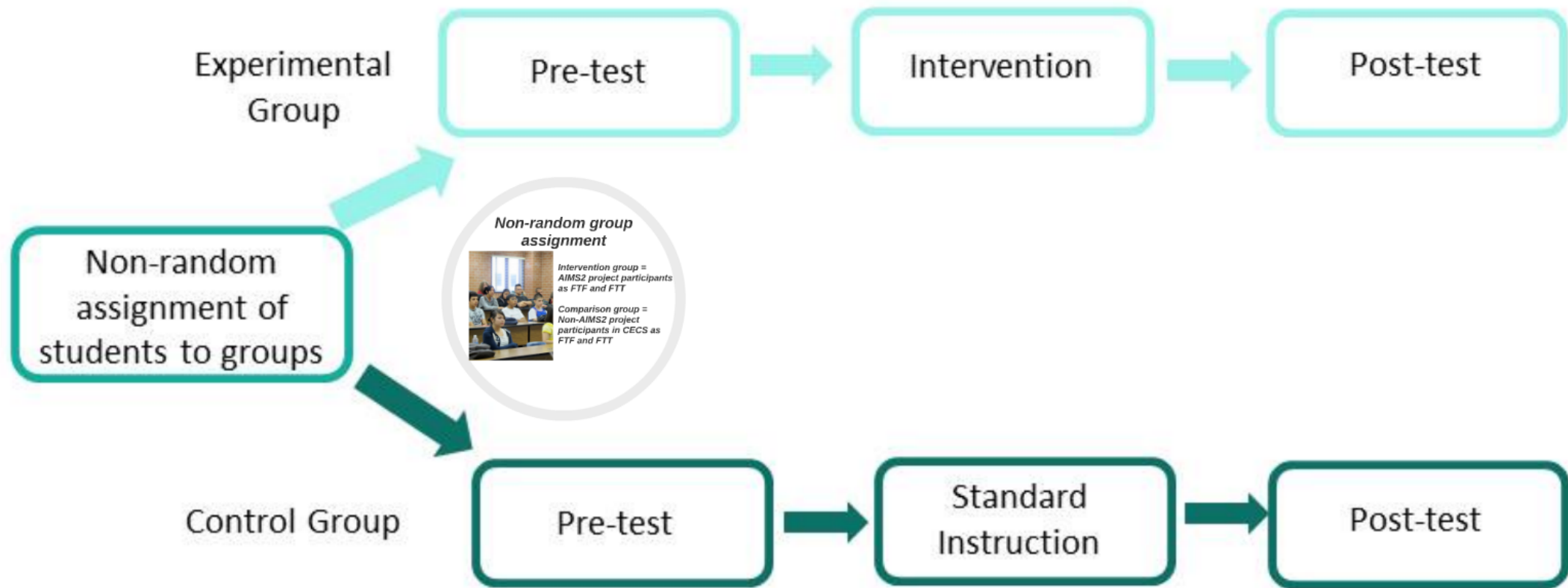


***Intervention group =
AIMS2 project participants
as FTF and FTT***

***Comparison group =
Non-AIMS2 project
participants in CECS as
FTF and FTT***

Dual design

Quasi-experimental



Observational


```
graph LR; A[Control Group] --> B[Pre-test]; B --> C[Standard Instruction]; C --> D[Post-test]
```

Control Group

Pre-test

Standard
Instruction

Post-test

Observational
Retrospective and Prospective:
Select participants and past/
future conditions are observed

Gathering and making sense of information

Engineering Majors Survey (EMS)

CSUN students



EMS asks respondents about behaviors, interests, goals around doing innovative work in their baccalaureate/early careers--with sections as follow:
1. current plan of study;
2. school experiences;
3. beliefs, expectations, and interests;
4. future career goals; and
5. background

URSSA asks respondents about their:
1. research skills;
2. conceptual knowledge and linkages in their field;
3. deeper understanding of the work of science;
4. growth in confidence and adoption of the identity of scientist;
5. preparation for a career or graduate school in science;
6. understanding of career or educational path.



Subset of students from CCs + CSUN who participate in faculty research

Undergraduate Research Student Self-Assessment (URSSA)

Focus groups with AIMS2 participants at community colleges and CSUN and math participants at CSUN



Institutional data



A closer look at institutional data

CC + CSUN students

Match to EMS & URSSA survey data sets



Assess progress on project performance measures


Engineering Majors Survey (EMS)

CSUN
students



with sections as follow:

- 1. current plan of study;*
- 2. school experiences;*
- 3. beliefs, expectations;*
- 4. future career goals; a*
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Institutional data



A closer look at institutional data

**CC + CSUN
students**

**CC + CSUN
students**

*Match to
EMS &
URSSA
survey data
sets*



*Assess
progress on
project
performance
measures*

***Focus groups with AIMS2
participants at
community colleges and
CSUN and math
participants at CSUN***





2016 Interim Performance Report

***What we reported
halfway through
the first year of the***

PERFORMANCE REP

***What we reported
halfway through
the first year of the
2016 project award***





***Objectives tell
a story***

ay

Objectives tell a story

Objective 1: Improve the academic achievement of Hispanic and low-income students in engineering and computer science fields.

Academic achievement

Performance Measure (1.1): The percent of Hispanic and low-income students who participated in grant-supported services or programs who successfully completed gateway courses.
Performance Measure (1.2): The percent of Hispanic and low-income students who participated in grant-supported services or programs in good academic standing.
Outcome Measure (1.3): Improvements in student success (non-cognitive) skills.

No performance measure data = activities underway now!



Objective 5: Develop research skills of Hispanic and low-income students in engineering and computer science.

Research skills

Outcome Measure (5.1): Gains on measures of self-perceptions, attitudes, and skills related to research from URSSA survey and interviews.

Plans for faculty research with students

Data to be collected this summer on research skills, perceptions, attitudes, and self-efficacy. CSUN faculty members identified for summer 2017.

DESGASO1 INTCSH1BPS

Summer 2017 Research Program with CSUN Faculty Members

Objective 6: Increase baccalaureate degree completion of Hispanic and low-income students in engineering and computer science fields.

Baccalaureate degree completion

Performance Measure (6.1): The percentage of Hispanic and low-income students transferring successfully to a four-year institution from a two-year institution and retained in a STEM field major.
Performance Measure (6.2): The percent of Hispanic and low-income STEM field major transfer students on track to complete a STEM field degree within three years from their transfer date.
Performance Measure (6.3): The percent of Hispanic and low-income students who participated in grant-supported services or programs and completed a degree or credential.

Program completion data to be reported in 2018 APR Year 3 (10 Dec. 2017)



Objective 2: Enhance faculty and peer environments for Hispanic and low-income students in engineering and computer science fields.

Faculty and peer environments

Performance Measure (2.1): The number of Hispanic and low-income students participating in grant-funded student support programs or services.
Outcome Measure (2.2): Improvements in self-reports of quality, quantity, and effects of student-faculty and peer-peer interaction.

Increase in participants!

Current student participation measures by site:
 - CSC = 23
 - GGC = 59
 - MPC = 25
 - IPC = 230
 - CSUN = 19

Objective 3: Improve the transfer of Hispanic and low-income students in engineering and computer science fields to baccalaureate-granting institutions.

Transfer

Performance Measure (3.1): The percentage change, over the five-year grant period, of the number of Hispanic and low-income, full-time STEM field degree-seeking undergraduate students enrolled.
Performance Measure (3.2): The percentage of Hispanic and low-income, first-time STEM field degree-seeking undergraduate students who were in their first year of postsecondary enrollment in the previous year and are enrolled in the current year who remain in a STEM field degree/credential program.

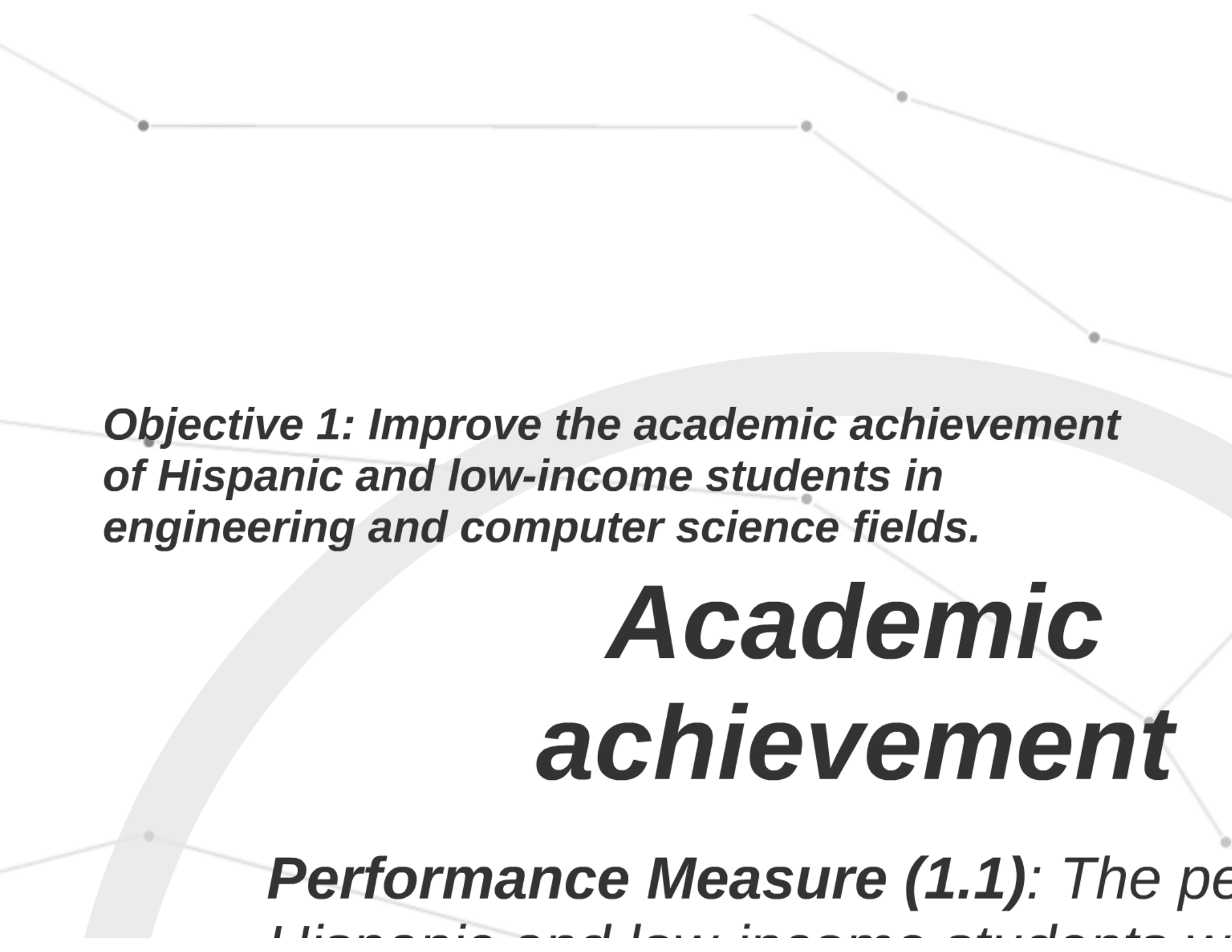
No performance measure data = activities underway now!

Objective 4: Improve career preparation of Hispanic and low-income students in engineering and computer science fields.

Career preparation

Outcome Measure (4.1): Gains on measures of self-perceptions, attitudes, and skills related to career.

A lot of project activities going on here! No data yet!



Objective 1: Improve the academic achievement of Hispanic and low-income students in engineering and computer science fields.

Academic achievement

Performance Measure (1.1): The percentage of Hispanic and low-income students who

Objective 1: Improve the academic achievement of Hispanic and low-income students in engineering and computer science fields.

Academic achievement

Performance Measure (1.1): The percent of Hispanic and low-income students who participated in grant-supported services or programs who successfully completed gateway courses.

Performance Measure (1.2): The percent of Hispanic and low-income students who participated in grant-supported services or programs in good academic standing.

Outcome Measure (1.3): Improvements in student success (non-cognitive) skills.

**No performance measure data
= activities underway now!**

Performance measure =
from U.S. Department of
Education
vs.

Outcome measure =
developed locally by
program

Function to measure
progress on objectives!

Performance measure =
from U.S. Department of
Education

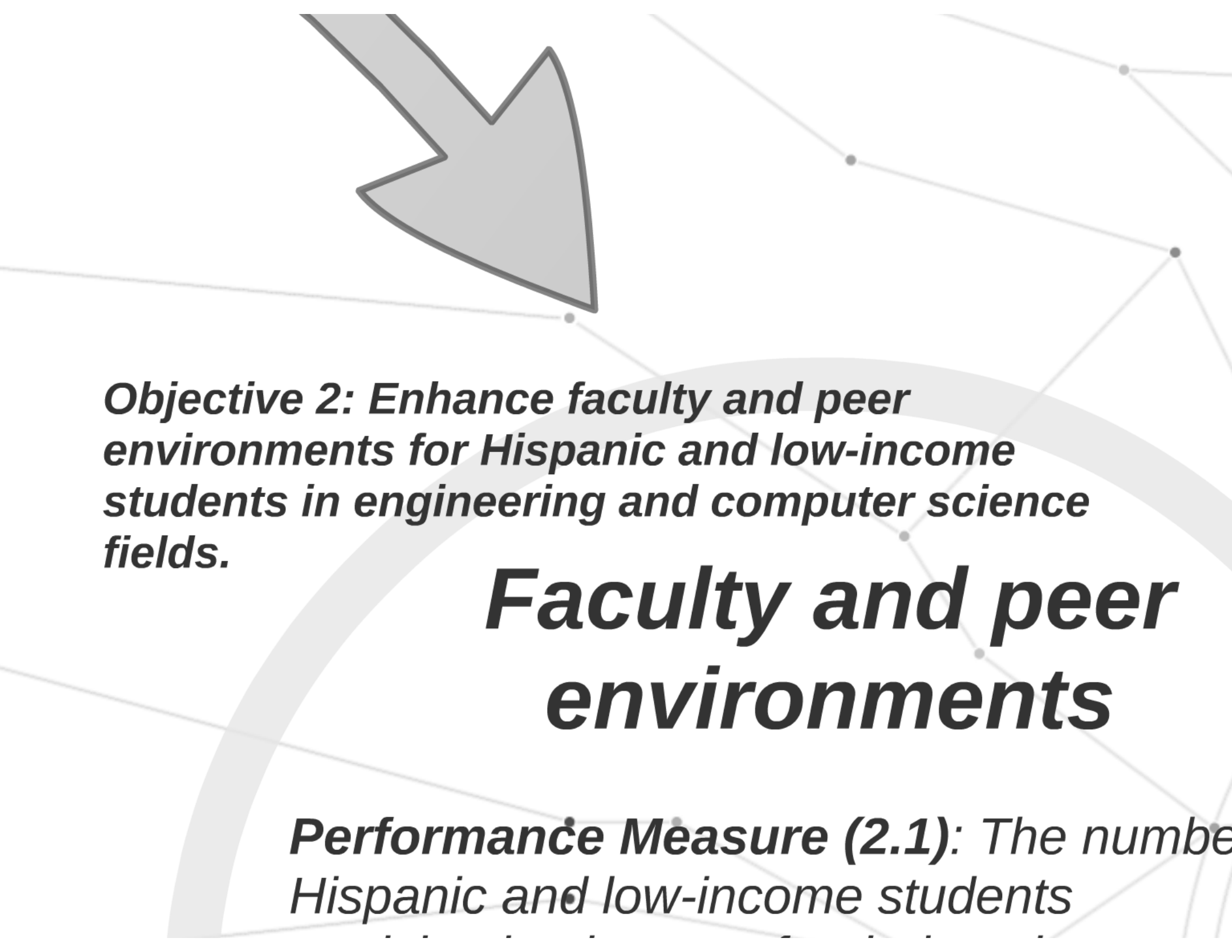
vs.

Outcome measure =
developed locally by
program

Function to measure
progress on objectives!

ms in good academic standing
**Time Measure (1.3): Improvement
t success (non-cognitive) skills**

***No performance measure data
= activities underway now!***



Objective 2: Enhance faculty and peer environments for Hispanic and low-income students in engineering and computer science fields.

Faculty and peer environments

Performance Measure (2.1): The number of Hispanic and low-income students

Objective 2: Enhance faculty and peer environments for Hispanic and low-income students in engineering and computer science fields.

Faculty and peer environments

Performance Measure (2.1): The number of Hispanic and low-income students participating in grant-funded student support programs or services.

Outcome Measure (2.2): Improvements in self-reports of quality, quantity, and effects of student-faculty and peer-peer interaction.

Increase in
participation

Increase in participants!

PARTICIPANTS

- Current student participant headcount by site:
 - COC = 23
 - GCC = 10
 - MC = 25
 - PC = 230
 - CSUN = 19

Objective 3: Improve the transfer of Hispanic and low-income students in engineering and computer science fields to baccalaureate-granting institutions.

Transfer

Performance Measure (3.1): The percentage change, over the five-year grant period, of the number of Hispanic and low-income, full-time STEM field degree-seeking undergraduate

Objective 3: Improve the transfer of Hispanic and low-income students in engineering and computer science fields to baccalaureate-granting institutions.

Transfer

Performance Measure (3.1): The percentage change, over the five-year grant period, of the number of Hispanic and low-income, full-time STEM field degree-seeking undergraduate students enrolled.

Performance Measure (3.2): The percentage of Hispanic and low-income, first-time STEM field degree-seeking undergraduate students who were in their first year of postsecondary enrollment in the previous year and are enrolled in the current year who remain in a STEM field degree/credential program.

**No performance measure data
= activities underway now!**

*to be reported in 2016
APR Year 1 in Dec. 2017!*



Objective 4: Improve career preparation of Hispanic and low-income students in engineering and computer science fields.

Career preparation

Outcome Measure (4.1): Gains on measures of self-perceptions, attitudes, and skills related to career.

Objective 4: Improve career preparation of Hispanic and low-income students in engineering and computer science fields.

Career preparation

Outcome Measure (4.1): Gains on measures of self-perceptions, attitudes, and skills related to career.

A lot of project activities going on here! **No data yet!**

Objective 5: Develop research skills of Hispanic and low-income students in engineering and computer science.

Research skills

Outcome Measure (5.1): Gains on measures of self-perceptions, attitudes, and skills related to research from URSSA survey and interviews.

Objective 5: Develop research skills of Hispanic and low-income students in engineering and computer science.

Research skills

Outcome Measure (5.1): Gains on measures of self-perceptions, attitudes, and skills related to research from URSSA survey and interviews.

Plans for faculty research with students

Data to be collected this summer on students who participate in research with CSUN faculty mentors planned for Summer 2017!

RESEARCH INTERNSHIPS

Summer 2017 Research Projects with CSUN Faculty Mentors

Plans for faculty research with students

*Data to be collected this summer on
students who participate in research with
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RESEARCH INTERNSHIPS

Summer 2017 Research Projects with CSUN Faculty Mentors

Objective 6: Increase baccalaureate degree completion of Hispanic and low-income students in engineering and computer science fields.

Baccalaureate degree completion

Performance Measure (6.1): The percentage of Hispanic and low-income students transferring successfully to a four-year institution from a two-year institution and retained in a STEM field major.

Objective 6: Increase baccalaureate degree completion of Hispanic and low-income students in engineering and computer science fields.

Baccalaureate degree completion

Performance Measure (6.1): *The percentage of Hispanic and low-income students transferring successfully to a four-year institution from a two-year institution and retained in a STEM field major.*

Performance Measure (6.2): *The percent of Hispanic and low-income STEM field major transfer students on track to complete a STEM field degree within three years from their transfer date.*

Performance Measure (6.3): *The percent of Hispanic and low-income students who participated in grant-supported services or programs and completed a degree or credential.*

*Program completion data
to be reported in 2016
APR Year 1 in Dec. 2017!*



***Program completion data
to be reported in 2016
APR Year 1 in Dec. 2017!***



your preparation of

Project Strengths

- Student participants welcomed + new student participants being recruited now!
- Project activities across sites link to project objectives--with core work focused on faculty mentoring and academic advising/ support!

More on project focus areas with data in 2016 APR Year 1!



Next Steps: Evaluation

- Spring 2017
 - AIMS2 focus group pilot @ Moorpark College
 - Math focus group pilot @ CSUN
 - EMS survey pilot @ CSUN with AIMS2 students
- Summer 2017
 - URSSA survey pilot with community college and CSUN students in CSUN faculty research projects
- Fall 2017
 - EMS survey @ CSUN with AIMS2 and comparison students
 - CSUN AIMS2 focus groups



Next Steps: Reporting



- IPR Year 1 2016 award submitted in May 2017
- APR Year 1 2016 award due Dec. 2017/Jan. 2018
- FPR Year 6 2011 award due Dec. 2017/Jan. 2018

AIMS2 Performance Reporting in 2016-17: Two Awards, One Project

Nathan Durdella / Angela Carpenter
Advisory Board Meeting
June 2017

