

**XSEDE**

Extreme Science and Engineering  
Discovery Environment

# CEE-BP Metrics

March 2019

# Agenda

CEE-BP Mission

Metrics & Targets

Impact Measurement

# CEE-BP Mission

The XSEDE Broadening Participation program, with the support of the entire XSEDE team, assists underrepresented minorities (URM), women, and Minority Serving Institution (MSI) faculty in joining the XSEDE community so that they can benefit from the resources and services provided.

Recruitment = New Users

Retention = Sustained Users

Inclusion = Engaged Across All of XSEDE

# CEE-BP Metric: New Users

Table 3-2: KPIs for the sub-goal of extend use (new communities).

KPI	Report Year	Target	RP1	RP2	RP3	RP4	Total
Number of new users of XSEDE resources and services via the portal	RY5						
	RY4						
	RY3	3,000/ qtr	1,905 <sup>1</sup>	2,743	2,489		
	RY2	2,000/ qtr	2,305	2,813	2,346	2,917	10,381
	RY1	>1,000/ qtr	*	1,973	1,849	2,359	6,181
Number of new underrepresented individuals using XSEDE resources and services via the portal	RY5						
	RY4						
	RY3	200/qtr	134	155	129		
	RY2	150/qtr	251	175	222	234	950
	RY1	100/qtr	*	150	135	240	525

# CEE-BP Metric: Sustained Users

Table 3-1: KPIs for the sub-goal of deepen use (existing communities).

KPI	Report Year	Target	RP1	RP2	RP3	RP4	Total
Number of sustained users of XSEDE resources and services via the portal	RY5						
	RY4						
	RY3	3,500/ qtr	4,196	4,089	3,099		
	RY2	3,000/ qtr	3,962	3,754	2,488	3,020	4,527
	RY1	>5,000/ qtr	*	4,755	4,446	4,924	6,186
Number of sustained underrepresented individuals using XSEDE resources and	RY5						
	RY4						
	RY3	1,500/ yr	529	509 <sup>1</sup>	343		
	RY2	1,500/ yr	490	408	296	402	1,640

# CEE-BP Metrics: URM Students Served

Area Metric	Report Year	Target	RP1	RP2	RP3	RP4	Total
benefiting from XSEDE resources and services through training, XSEDE projects, or conference attendance	RY4						
	RY3	1,250/qtr	1,613	1,666	1,145		
	RY2	950/qtr	1,722	1,478	1,170	1,522	3,720
	RY1	50/qtr	*	997	815	2,679	4,824
Percentage of under-represented students benefiting from XSEDE resources and services through training, XSEDE projects, or conference attendance	RY5						
	RY4						
	RY3	50/qtr	28	26	27		
	RY2	50/qtr	28	27	30	28	30
	RY1	50/qtr	*	34	33	19	28

# Targets

Are the targets appropriate?

Are there benchmarks? Are we consistent, ahead, or behind?

Raw numbers, percentages or both?

- Students – target % is 50%; achieved 26%
- Students – achieved raw number is ~ 1,300 per year

## Size of the Pool

- URM and MSI faculty in STEM
- URM and MSI faculty in all disciplines
- URM and MSI faculty with research funding
- URM and MSI faculty with research and education (curriculum development) and broadening participation in STEM funding
- URM students in STEM at two and four year institutions
- URM students enrolled in post-secondary education
- URM students at institutions with computer science, computational science (including bioinformatics, computational chemistry, digital humanities, etc.)

# What are Measures of Inclusion?

Participation in Leadership positions

Participation in Advisory Committees

Participation in XRAC review

Participation in the Champions Program

Champions Fellows

PIs with allocations

Member of a project team with an allocation

Institutions that host multi-cast training

Institutions that host training events

Participation in Institutes

Contributors of training materials

Presenters of training, workshops, and tutorials at PEARC and other conferences

Staff Climate survey data

Champions Climate survey data

Internships and REU participation



# Next Steps

Research Benchmarks

Define the size of the pool

Refine metrics

Develop Inclusion Measures

Maintain the Status Quo