

Status of Project-Defined Metrics for SMD's Top Level Goals

Goal 1 -- Enabling STEM Education (Document benefits/improvement of including NASA experts, content, and authentic experiences to learners of all ages)

AREN Project -- NNX16AB95A -- David Bydlowski, PI -- Anil Aranha, Evaluator

Project Outcome: Increased the number of STEM experiences and content from less than 100 learners in 2016 to over 4000 by 2017

Output Metrics: Eclipse 2017 outreach impacted over 3000 learners. University of Maryland Eastern Shore impacted over 50 students through Aviation AVSC 310, Terrakites Production, Engineering ENGE 150, and Flight Crew of Vanilla Aircraft. Wayne RESA provided STEM experiences to over 900 learners through the Rouge Education Project, AREN Presentations, GLOBE Science Symposium, Odyssey of the Mind and Online GLOBE Training. Goddard Space Flight Center impacted over 100 learners with STEM experiences through kite building/flying, AREN presentations, student presentations, line handling challenge, AEROKATS dissemination, and ROVER tests. Montana State University provided STEM experiences to over 40 learners by providing AREN professional development to educators. University of South Florida hosted the Bulls-EyE program to 15 pre-engineers and 30 middle school students through a five week AEROKATS program. Public Lab provided STEM content to over 15 educators through an online webinar.

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Goal 4 -- Leverage Through Partnerships (Document benefits/improvement of including NASA Science and collaborative approach)

AREN Project -- NNX16AB95A -- David Bydlowski, PI -- Anil Aranha, Evaluator

Project Outcome: Increased number of partnering organizations from two in 2016 to five by 2017

Output Metrics: Due to the nature of our awards with GLOBE, AREN worked closely with Mission Earth and Arctic and Earth Signs during 2016. During 2017, AREN increased the work being done with other SMD CAN Awardees. AREN is participating with the SMD MakerSpace Informal Working Group with NASA's Museum Alliance and Solar System Ambassadors. AREN has also worked closely with the NASA Earth Science Education Collaborative in two ways -- assisting with student at the Odyssey of the Mind Festival in East Lansing, MI and with alignment of AREN to the NASA Resources provided by NASA Wavelength.