DESIGNING BROADER IMPACTS AND OUTREACH



Developed by MSU Extended University, Summer 2015, to help proposal writers plan broader impacts strategies to accompany their research.

· · · · · · · · · · · · · · · · · · ·		ke a positive difference in th		y should the average perso				
2. PICK YOU	JR IMPACT							
Choose at le	east one of the fo	ollowing areas from the NSF	grant proposal guide upon w	which to focus. Which one(s				
fit best with	your statement	above or are areas in which	you could work most succes	ssfully?				
☐ Full p	participation of u	nderrepresented groups in S	TEM (women, persons with	disabilities, and				
	resented minorit		, , , ,	,				
•	·							
•	·							
☐ Increase public science literacy and pubic engagement								
Diverse competitive STEM workforce								
	'							
	, ,							
☐ Improved well-being of individuals in society								
☐ Improved national security								
Incre	ase US economic	competitiveness						
Describe ho	w the proposed	BI make sense with regard to	o the research goals and obj	ectives				
	ENT OF NEED eed for your prop	posed BI? Use the following I	rubric element to enhance y	our project's impact (Impac				
Analysis Eva	luation Method,	, Davis & Scalice, 2014).						
Needs	Fair	Good	Very Good	Excellent				
Assessment:	Prior	Research on what works;	Conversation with and/or	Survey of or pilot with				
What is the	experience,	Literature review on similar	direction from stakeholders	potential				
evidence of	"seems like a	programs/	(Focus Group); Experts review	audience/users about				
need?	good idea"	products/populations/ goals	the ideas/plan	the draft program				

GOALS AND OBJECTIVES

Create a goal and SMART (see below) objectives.

Goal – a broad statement about what you hope to achieve or accomplish through the project

Your Goal ______

Objective – an observable, measure able result that would be expected when your goal is achieved

S – Specific

M – Measureable

A – Aggressive but Attainable

R – Results-oriented

T – Time-bound

Your objectives				
Who	will do	what + why, how much	when	
VVIIO	VLND	TANGET	TIME BOONDANT	

NSF has defined types of impact in five categories. What categories are you trying to impact?

Behavior - intention to change and actual change

VEDD

Attitude - changes in perspectives toward self, STEM, scientists or a topic

Skills -interpreting data, procedural aspects of knowing, using devices, scientific inquiry

TADCET

Interest - engagement/interest in a mission, a scientific topic, concept, phenomena, theory, or career

Knowledge – awareness, knowledge, understanding of a particular scientific topic, concept, phenomena, theory, or career

EVALUATION

WHO

Evaluation is a process for determining how well project goals were achieved.

Impact is defined as the intended and unintended effects on the Behavior, Attitudes, Skills, Interests, and/or Knowledge (BASIK) of participants.

Impact is determined based on the *data you collect as evidence of impact* (the results) and the rigor of the methods and measures you use to collect those data.

Results x Rigor = Documented Impact

Impact is increased by using evaluation for needs assessment, setting goals and objectives, designing experiences, and during implementation

Friedman, A. (Ed.). (March 12, 2008). Framework for Evaluating Impacts of Informal Science Education Projects http://www.aura-astronomy.org/news/EPO/eval_framework.pdf

CHECKLIST

Separate statement for Broader Impacts in

- Project summary
- Project description
- Budget

· Results of previous funding

TIME DOLLNIDADY

Annual and final reports

MERIT REVIEW

ч	Does the proposed activity benefit society or advance societal outcomes?
	Does the proposed activity suggest and explore create, original, or potentially transformative
	concepts?
	Is the plan well-reasoned, well-organized, and based on a sound rationale?
	Does the plan incorporate a mechanism to assess success?
	How well qualified is the individual or team to conduct the proposed activity?
	Are their adequate resources available to the PI (either at the home organizations or through
	collaborations) to carry out the proposed activities?