

# Evaluation:




## Don't Submit Your ATE Proposal Without It

**Emma Perk & Corey Smith**  
HI-TEC Conference 2015

**INTRODUCTIONS**



Evaluation Resource Center for  
Advanced Technological Education

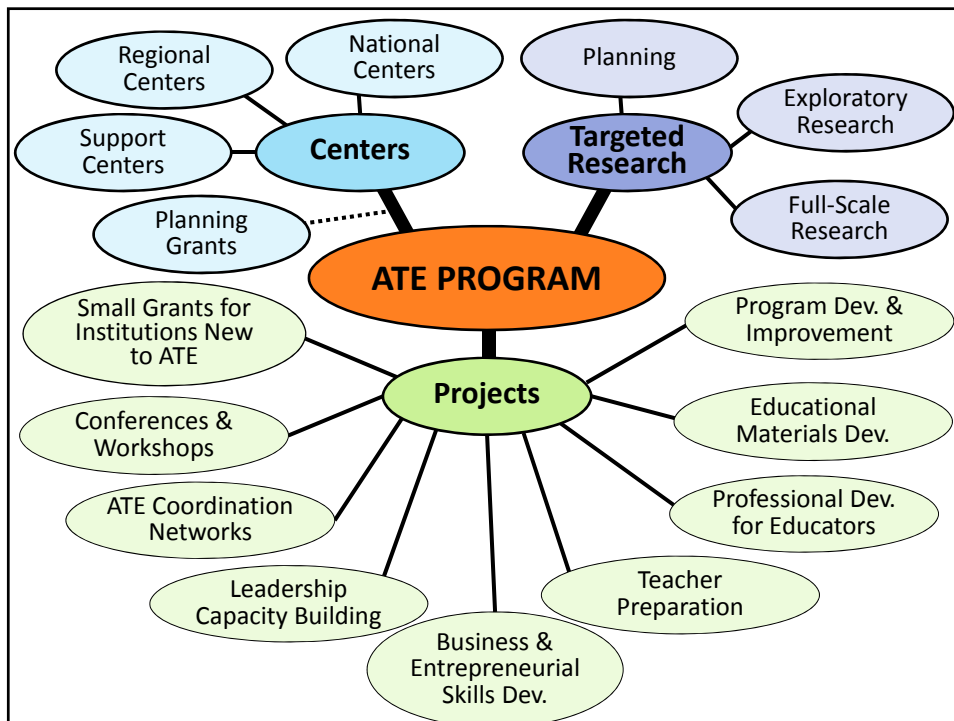


This material is based upon work supported by the National Science Foundation under grant number 1204683. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the presenters and do not necessarily reflect the views of NSF.

FOLDER COMPONENTS

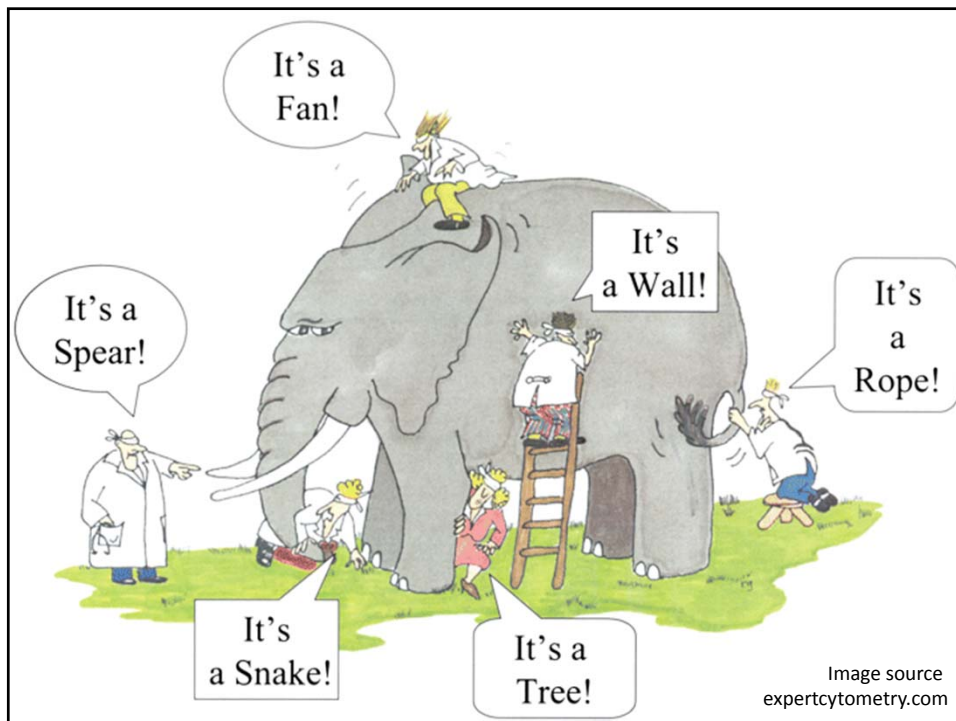
**EVALUATION: DON'T SUBMIT YOUR ATE PROPOSAL WITHOUT IT**  
 Evana Park and Corey Smith | 161 TEC Conference | July 2015

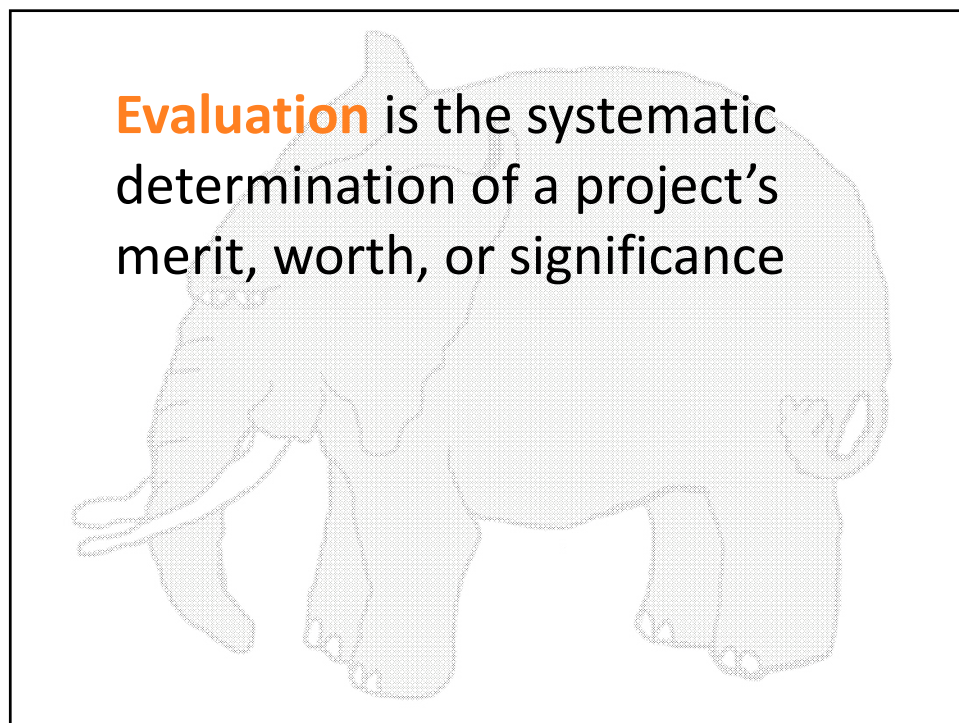
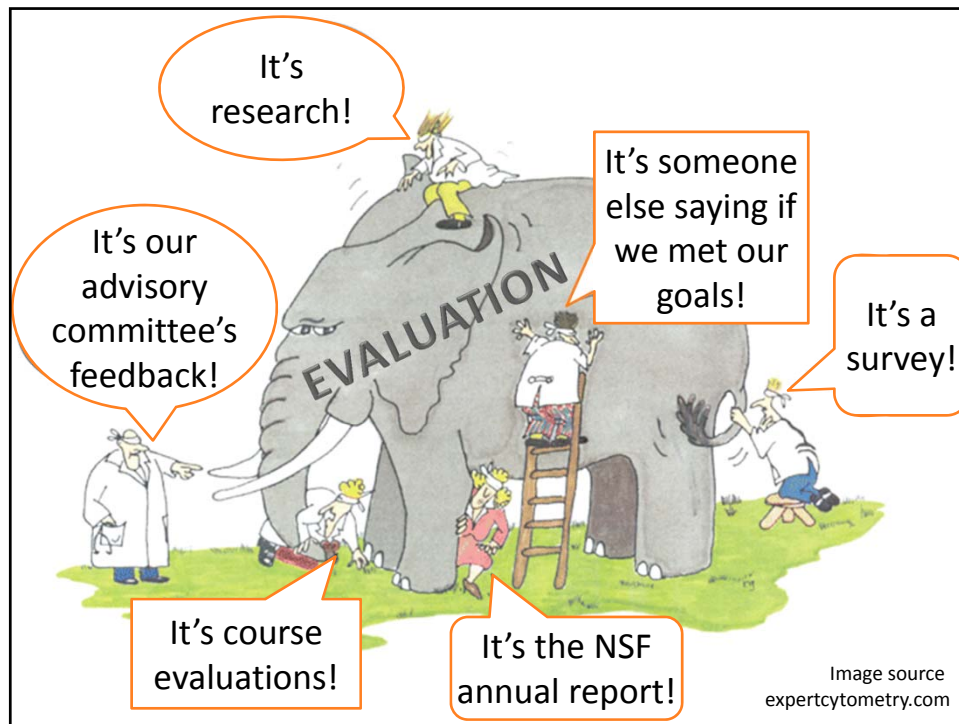
**Evaluation Planning Checklist for NSF-ATE Proposals**  
 with Angela Inquist 2014

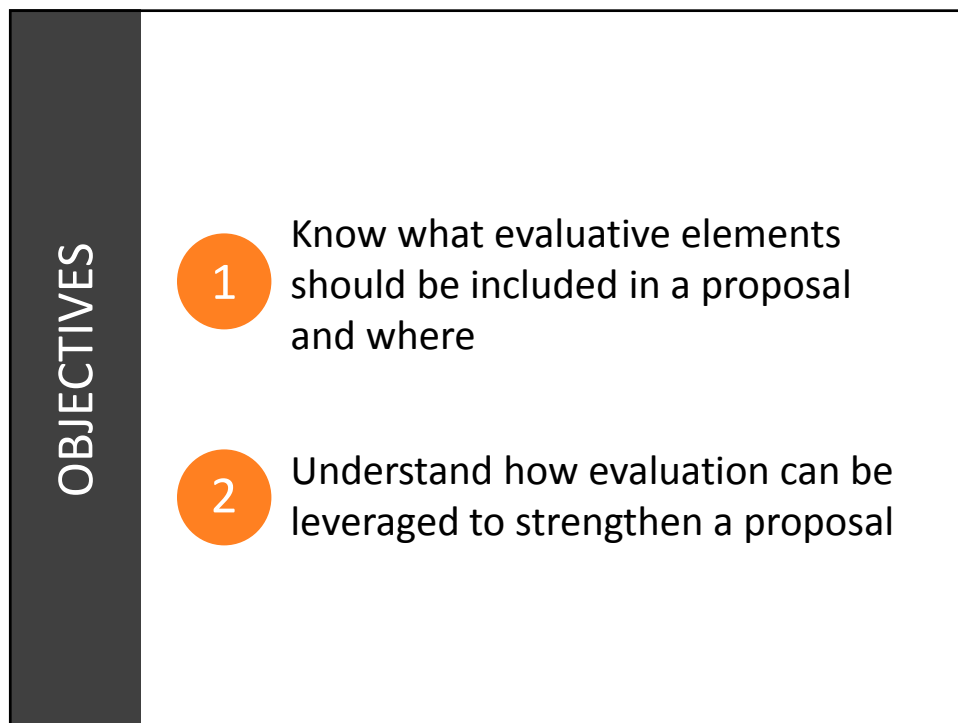
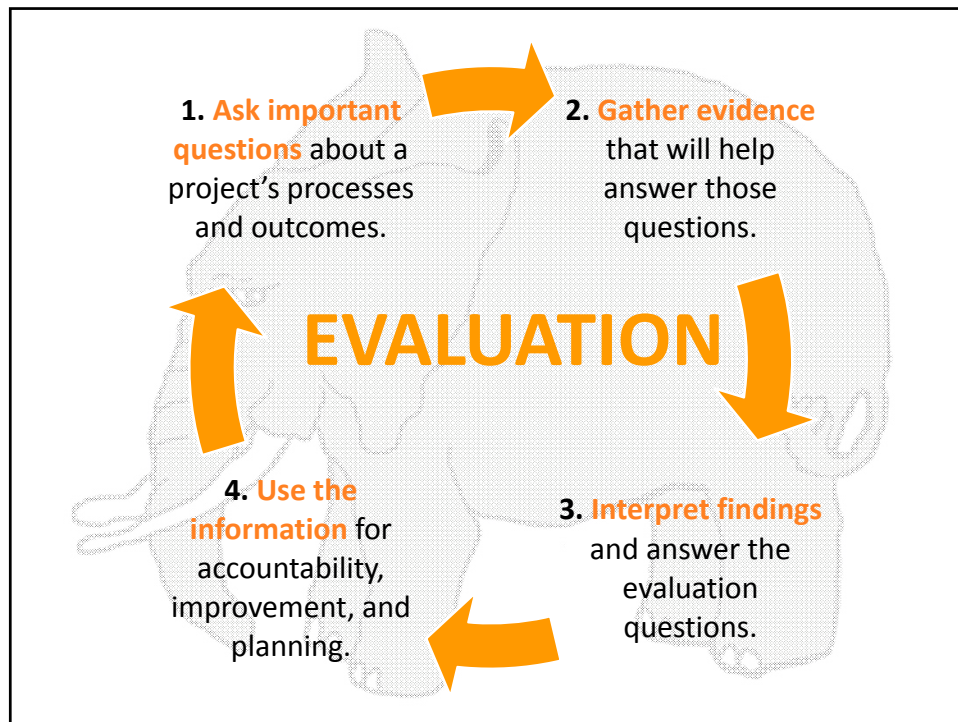



OBJECTIVES

- 1 Know what evaluative elements should be included in a proposal and where
- 2 Understand how evaluation can be leveraged to strengthen a proposal









**EvaluateATE**  
EVALUATION RESOURCE CENTER for  
 advanced technological education

**Evaluation Planning Checklist for NSF-ATE Proposals**  
Lori A. Wingate | July 2013

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This checklist is intended to be of assistance in developing evaluation plans for proposals to the National Science Foundation's Advanced Technological Education (ATE) program. It is organized around the components of an NSF proposal (see the [NSF Grant Proposal Guide](#)) with an emphasis on the evaluation aspects. All proposers should carefully read the [ATE Program Solicitation](#). For additional guidance related to developing ATE proposal evaluation plans, see [10 Helpful Hints and 10 Fatal Flaws: Writing Better Evaluation Sections in Your Proposals](#). Users may also find it helpful to view EvaluateATE's past webinars on integrating evaluation into ATE proposals, available from [evalu-ate.org/featured\\_resources](#) under "Proposal Writing."

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Proposal Component	What you need to do	What you need to know
<b>Project Summary</b> (1 page)	<input type="checkbox"/> Prepare a 1-page project summary that specifically addresses the NSF Intellectual Merit and Broader Impacts criteria (with separate headings for each).	In addition to the NSF-wide Intellectual Merit and Broader Impacts criteria, the ATE program has additional ones, some of which are about evaluation, which are specified in the program solicitation. You are unlikely to have enough space to address all criteria, so focus on the ones most relevant to your proposal.  Resource: <a href="#">NSF's "Merit Review Broader Impacts Criterion: Representative Activities"</a>
<b>Project Description</b> (15 pages total)	Develop a coherent narrative describing your work and relevant background. Sections include <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Results from Prior NSF Support*</b></li> <li><input type="checkbox"/> Rationale</li> <li><input type="checkbox"/> Goals, Objectives, Deliverables, Activities</li> <li><input type="checkbox"/> Timetable</li> <li><input type="checkbox"/> Management Plan</li> <li><input type="checkbox"/> Roles and Responsibilities of the PI, co-PI(s), and Other Senior Personnel</li> <li><input type="checkbox"/> Plan for Sustainability</li> <li><input type="checkbox"/> <b>Evaluation Plan*</b></li> <li><input type="checkbox"/> Dissemination Plan</li> </ul>	It is important that all elements of the project description, including the evaluation plan, convey a coherent, strongly aligned plan that supports your initial claims about the project's intellectual merit and broader impacts (see above).  * <b>Results from Prior NSF Support</b> and <b>Evaluation Plan</b> are the Project Description sections that must include evaluation elements. What should be included in these sections is described below. You may wish to include evaluation activities or deliverables in other areas, such as the Timetable and Management Plan, as appropriate.  For helpful information related to sustainability and dissemination, refer to ATE Centra's <a href="#">Handbook</a> and <a href="#">Outreach Kit</a> .



Organized by proposal component

PROPOSAL COMPONENTS

- Cover Sheet
- Project Summary
- Project Description
- References Cited
- Budget and Budget Justification
- Current and Pending Support
- Facilities, Equipment and Other Resources
- Supplementary Documents

Evaluation-related information is needed in these sections

PROPOSAL COMPONENTS

- Cover Sheet
- Project Summary
- Project Description ← *15-page narrative*
- References Cited
- Budget and Budget Justification
- Current and Pending Support
- Facilities, Equipment and Other Resources
- Supplementary Documents

PROJECT DESCRIPTION

- **Results of Prior Support** ←
- Rationale
- Goals, Objectives, Deliverables, Activities
- Timetable
- Management Plan
- Roles and Responsibilities of the PI, co-PI(s), and Other Senior Personnel
- Plan for Sustainability
- **Evaluation Plan**
- Dissemination Plan
- Broader Impacts (*new*)

✓ PROJECT DESCRIPTION

## Results of Prior Support

“specific outcomes and results including metrics to demonstrate the impact of the activities undertaken including **evidence of the quality and effectiveness of the project's deliverables**”

✓ PROJECT DESCRIPTION

## Evaluation Plan

(1-3 pages of your 15-page project description)

- Identify evaluator and briefly describe his/her experience/expertise
- Describe what will be evaluated and how



PROJECT DESCRIPTION

## Evaluation Plan

(1-3 pages of your 15-page project description)

- ☐ Identify evaluator and briefly describe his/her experience/expertise
- ➔☐ Describe what will be evaluated and how

✓

PROJECT DESCRIPTION

## Describe the evaluation plan:

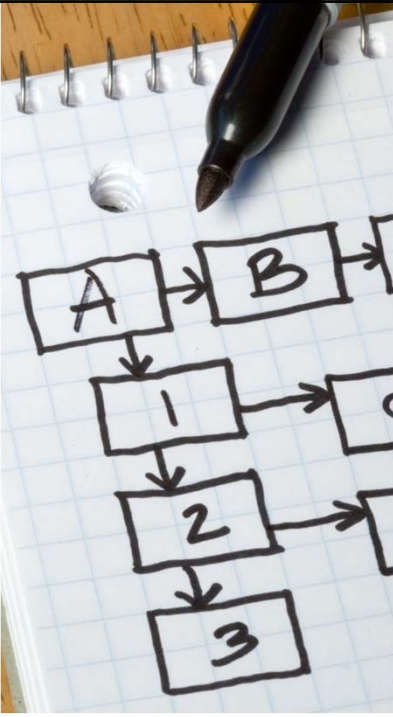
- 1 Logic model
- 2 Evaluation questions
- 3 Data collection plan & analysis
- 4 Evaluation deliverables

✓

✓ PROJECT DESCRIPTION

**1** Logic Model

Helpful for project and evaluation planning



```
graph TD; A[A] --> B[B]; B --> C[C]; A --> 1[1]; 1 --> 2[2]; 2 --> 3[3]; 2 --> D[D]; 3 --> E[E];
```

✓ PROJECT DESCRIPTION

**1** Logic Model

Activities

Activities supported by the project

✓ PROJECT DESCRIPTION

1 Logic Model

Outputs

Tangible results of the activities

✓ PROJECT DESCRIPTION

1 Logic Model

Short-Term Outcomes

What the project's beneficiaries will know or be able to do because of the project

✓ PROJECT DESCRIPTION

1 Logic Model

Mid-Term Outcomes

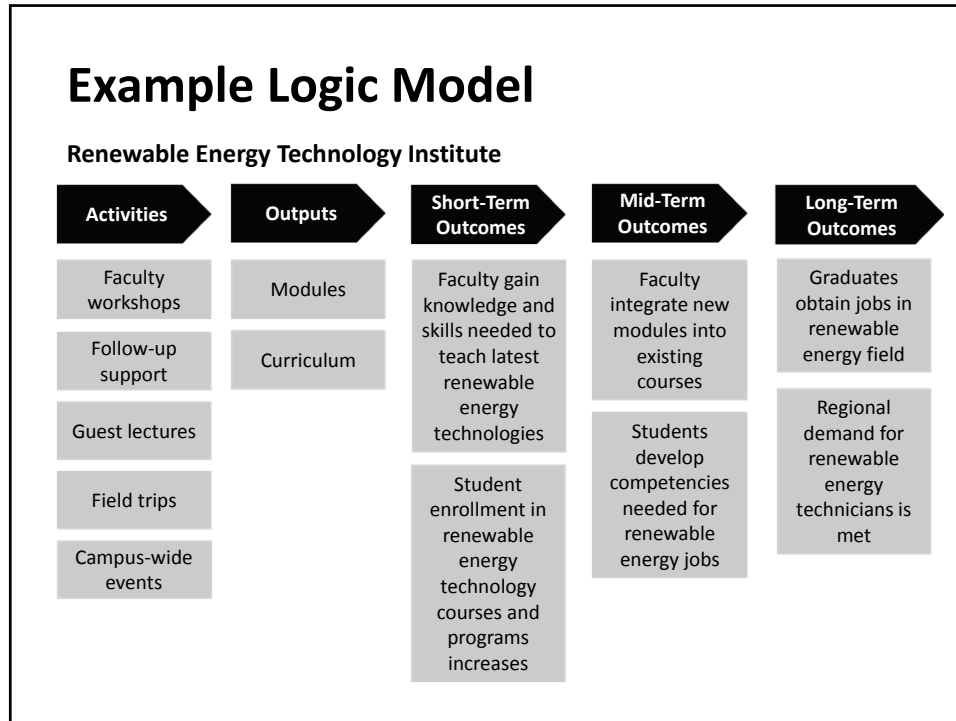
What people will do differently because of the project

✓ PROJECT DESCRIPTION

1 Logic Model

Long-Term Outcomes

Long-term project goals that align with the ATE program's goals



PROJECT DESCRIPTION

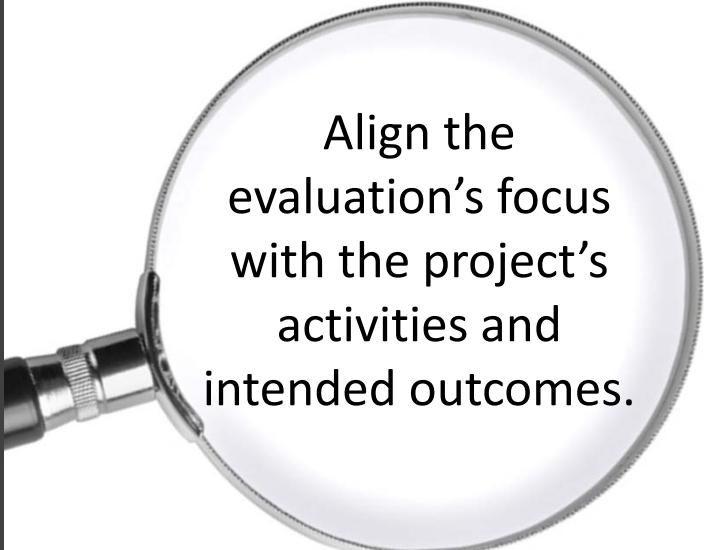
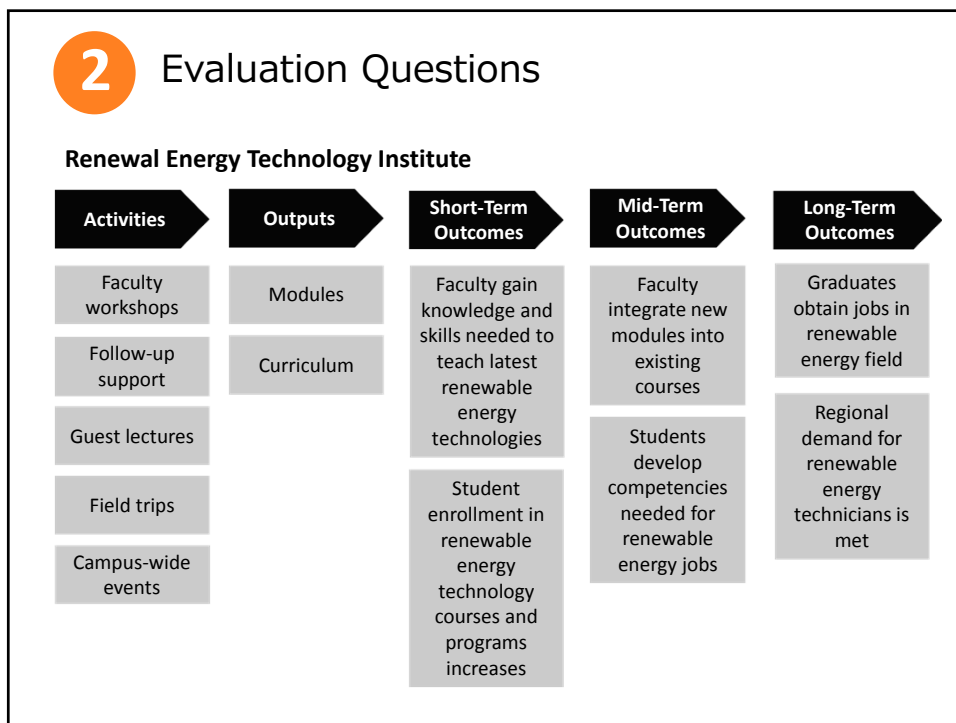
## Describe the evaluation plan:

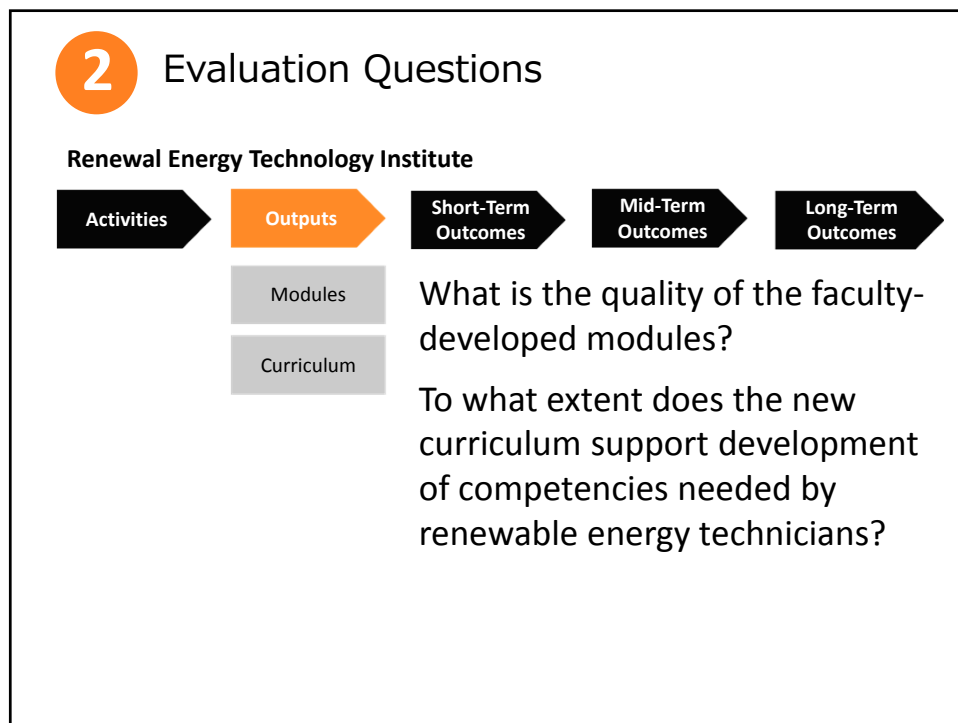
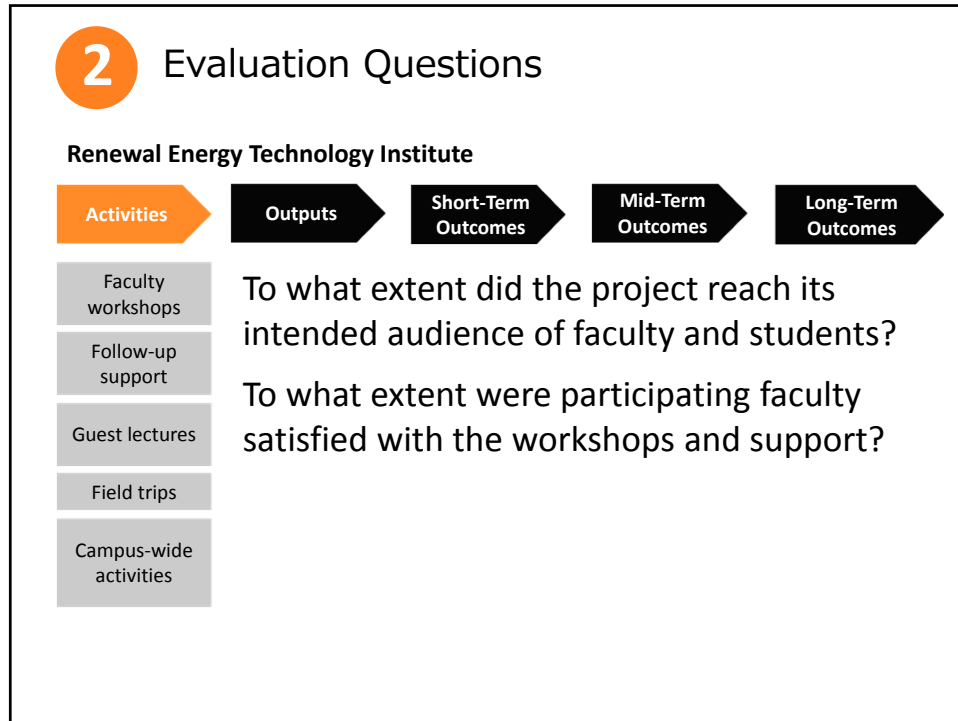
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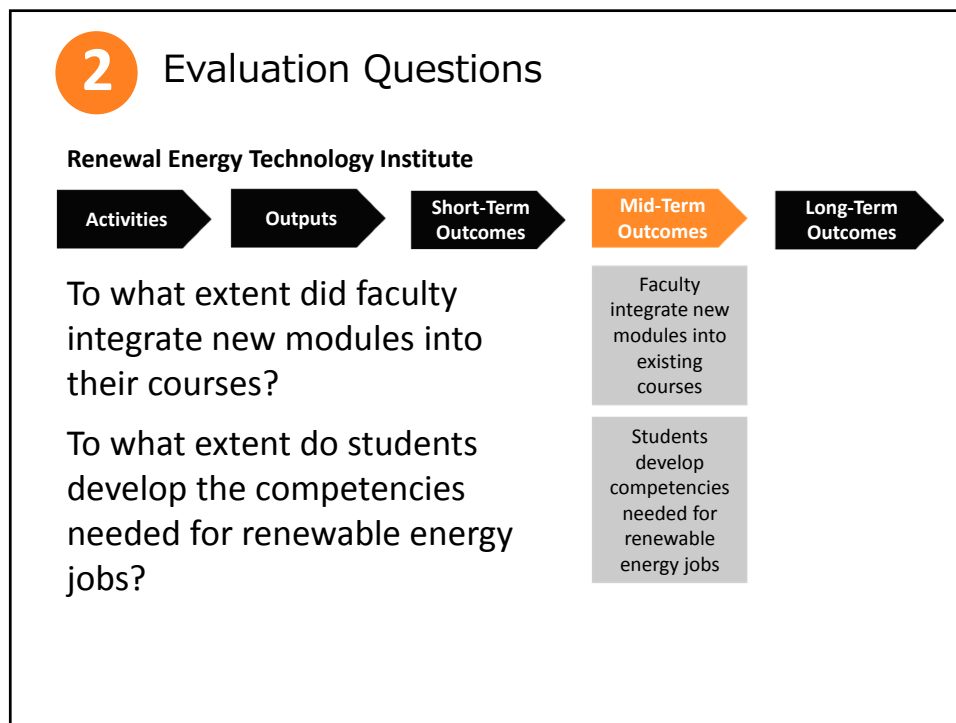
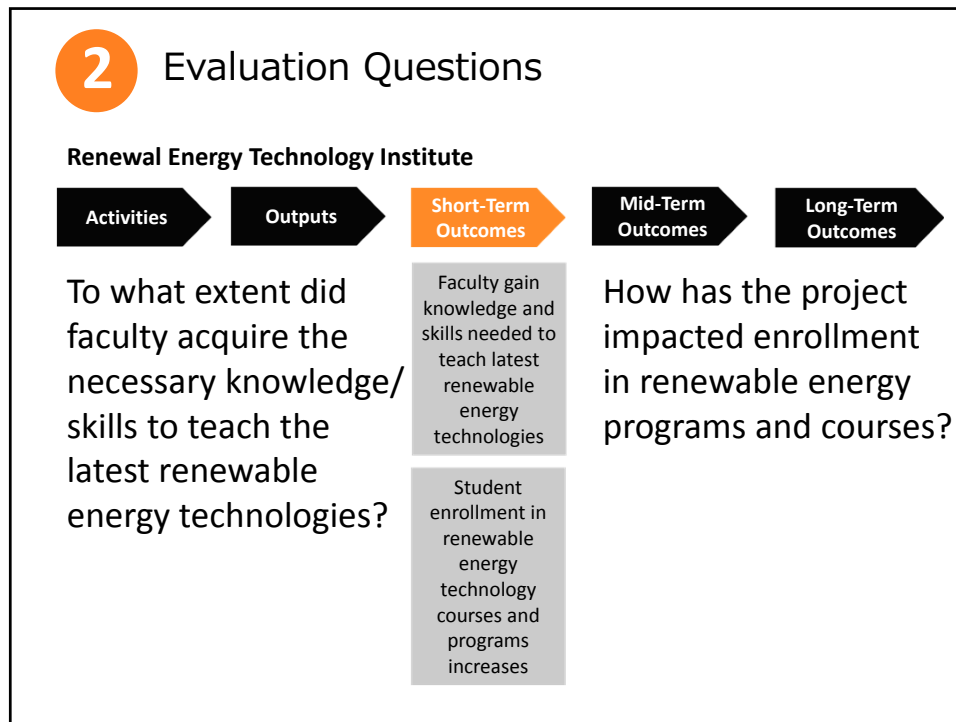
**PROJECT DESCRIPTION**

**2** Evaluation Questions

Align the evaluation's focus with the project's activities and intended outcomes.







## 2 Evaluation Questions

**Renewal Energy Technology Institute**

Activities → Outputs → Short-Term Outcomes → Mid-Term Outcomes → Long-Term Outcomes

To what extent do students with renewable energy certificates and degrees obtain renewable energy jobs?

How has the project contributed to meeting the regional demand for renewable energy technicians?

Graduates obtain jobs in renewable energy field

Regional demand for renewable energy technicians is met

**PROJECT DESCRIPTION**


### Describe the evaluation plan:

- 1 Logic model
- 2 Evaluation questions
- 3 Data collection & analysis } *Data collection matrix*
- 4 Evaluation deliverables

✓ PROJECT DESCRIPTION

**3** Data collection plan

**What** information do you need?  
**How** will you collect it?  
From **whom**?  
**When**?




✓ PROJECT DESCRIPTION

**3** Data collection plan *TIPS*

- Align your data collection to answer your evaluation questions
- Build a body of evidence
  - multiple data sources
  - qualitative and quantitative data
- Embed data collection in regular project activities
- Use existing data whenever possible
- Use existing instruments when/if they match your needs

PROJECT DESCRIPTION



## 3 Data collection & analysis

### Analysis

Organizing, transforming, and describing data

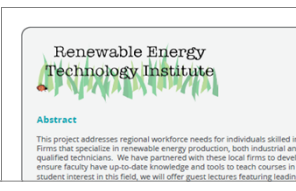
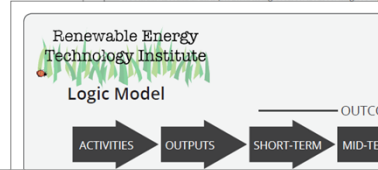
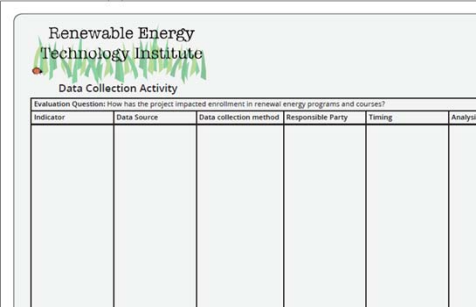
### Interpretation

Making sense of analyzed data so that conclusions can be made about the project's quality, progress or impact

ACTIVITY

## Renewable Energy Technology Institute

Case Study  
Activity

## Data Collection Planning Matrix

<b>Evaluation Question:</b> How has the project impacted enrollment in renewable energy programs and courses?					
<b>Indicator</b>	<b>Data Source</b>	<b>Method</b>	<b>Responsible Party</b>	<b>Timing</b>	<b>Analysis Plan</b>
Change in course enrollment numbers	Institutional research database	Review of institutional and departmental records	Project PI	End of each semester	Comparison of enrollment numbers over time (start 2 years prior to project start)
Opinions of faculty and career center staff about the project's impact	Participating faculty Career center advisors Career center director	In-person interviews	External evaluator	Annually	Inductive coding of interviews to identify themes
Students' reports about why they enrolled	Enrolled students	Web survey	Instructors (instructions provided by evaluator)	Beginning of each semester	Descriptive statistics and inductive coding

**PROJECT DESCRIPTION**

### Describe the evaluation plan:


- 1 Logic model
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- 3 Data collection & analysis
- 4 Evaluation deliverables

✓ PROJECT DESCRIPTION

**4** Evaluation Deliverables

**ATE-Specific INTELLECTUAL MERIT Criterion**

“Is the evaluation likely to provide useful information to the project and others?”




✓ PROJECT DESCRIPTION

**4** Evaluation Deliverables

When and what types of reports will be issued?

How will results be shared?

Who will results be shared with?




**PROJECT DESCRIPTION**

**4** Evaluation Deliverables

Information from the evaluation will be needed for

- annual reports to NSF
- annual survey of grantees
- reports to advisory groups



**PROJECT DESCRIPTION**

**5** Evaluation Deliverables

Improvement	Evidence	Accountability
To identify areas for project improvement.	To describe the project's impact.	To provide assurance that the project is using resources appropriately.

**MORE RESOURCES**

www.evalu-ate.org

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**EVALUATION**  
Don't Submit Your ATE Proposal Without It  
August 19, 2015 | 1 p.m. EDT

GETTING STARTED  
PROPOSAL DEVELOPMENT  
EVALUATION DESIGN  
DATA COLLECTION, ANALYSIS,  
AND INTERPRETATION  
REPORTING AND USE  
GENERAL

**Blog**  
Creation, Dissemination, and Accessibility of ATE-Funded Resources  
Five Questions All Evaluators Should Ask Their Clients  
Happy 4th of July!

**Highlights**  
Information about ATE Annual Survey 2015  
Materials from our webinar: Low Cost, High Impact Evaluation for Small Projects  
Evaluation Planning Checklist for NSF-ATE Proposals

**Recent Library Additions**  
Data Collection Planning Matrix  
Webinar Coordination Checklist  
Clear Writing Checklist

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**Thank You!**

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