# **Oklahoma EPSCoR Track 1 (S<sup>3</sup>OK)** Laying the Groundwork for **Project Impacts**

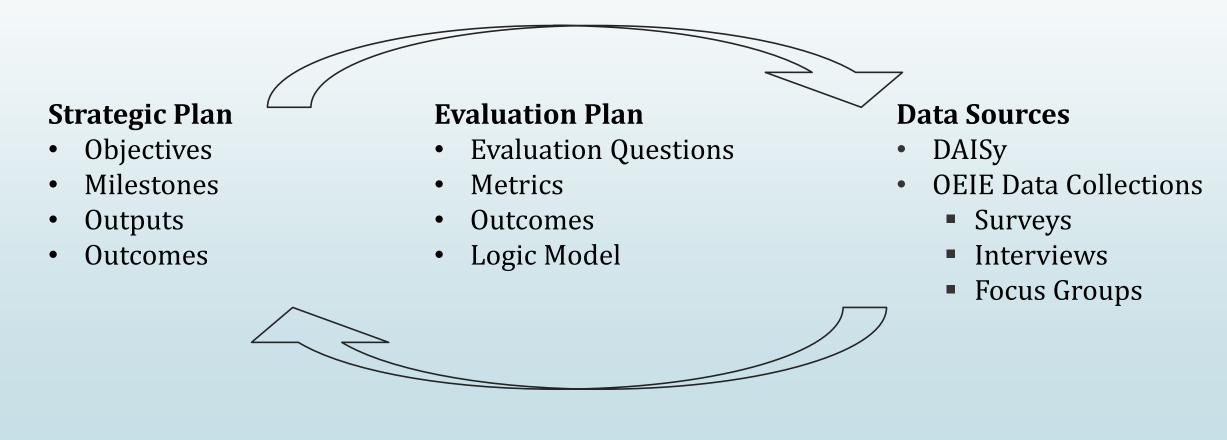
## **Office of Educational Innovation and Evaluation (OEIE)**

May 25<sup>th</sup>, 2021

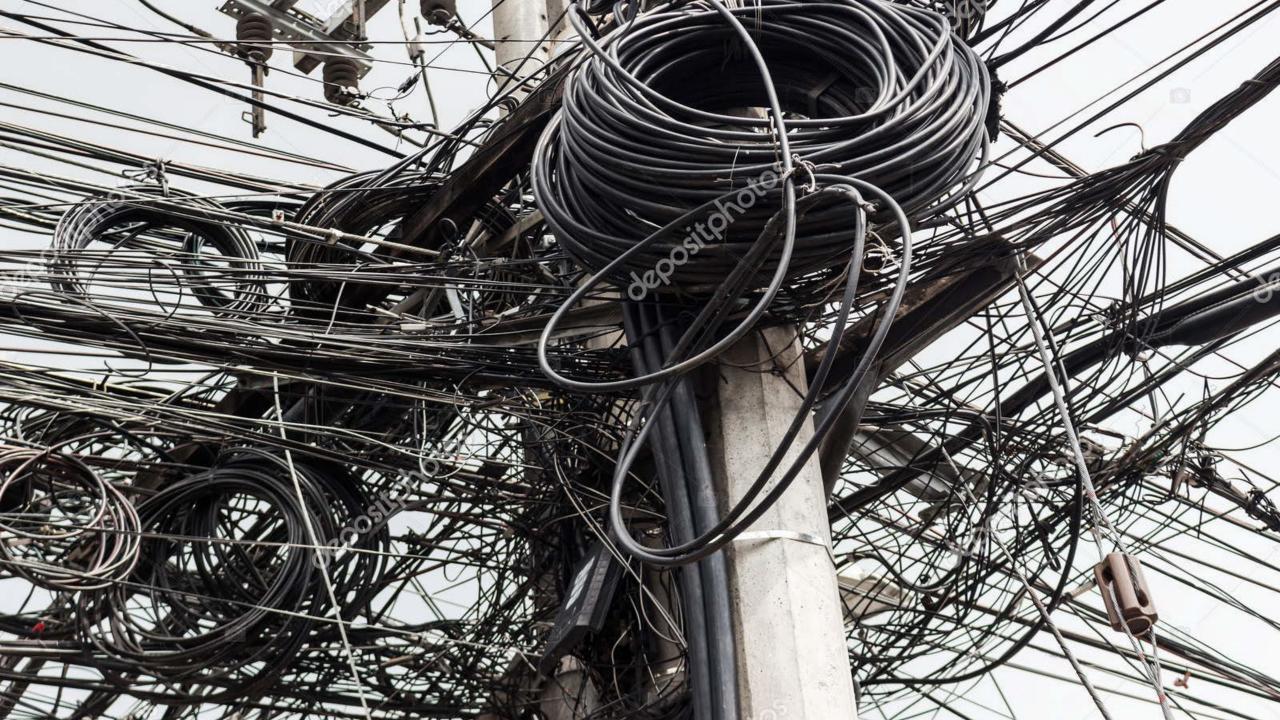


# **Evaluation Plan Process**

Aligning objectives, outcomes, metrics, evaluation questions, and data sources







# **Evaluation Plan**

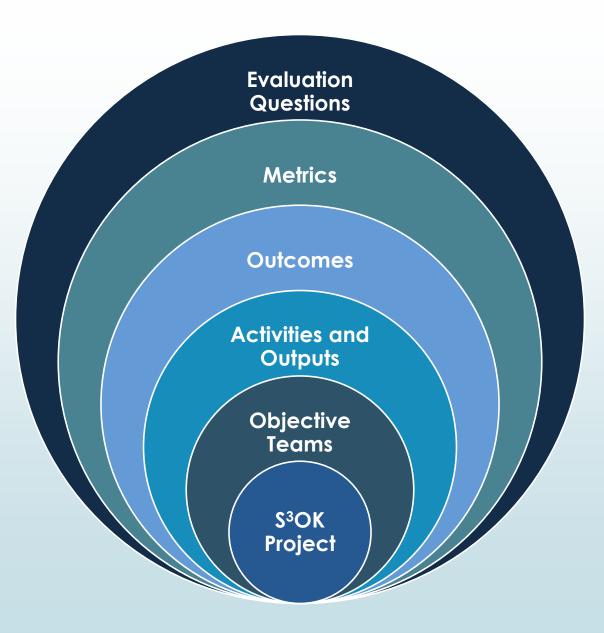
#### **Evaluation Question**

3. What are the short-term and long-term impacts of project activities?

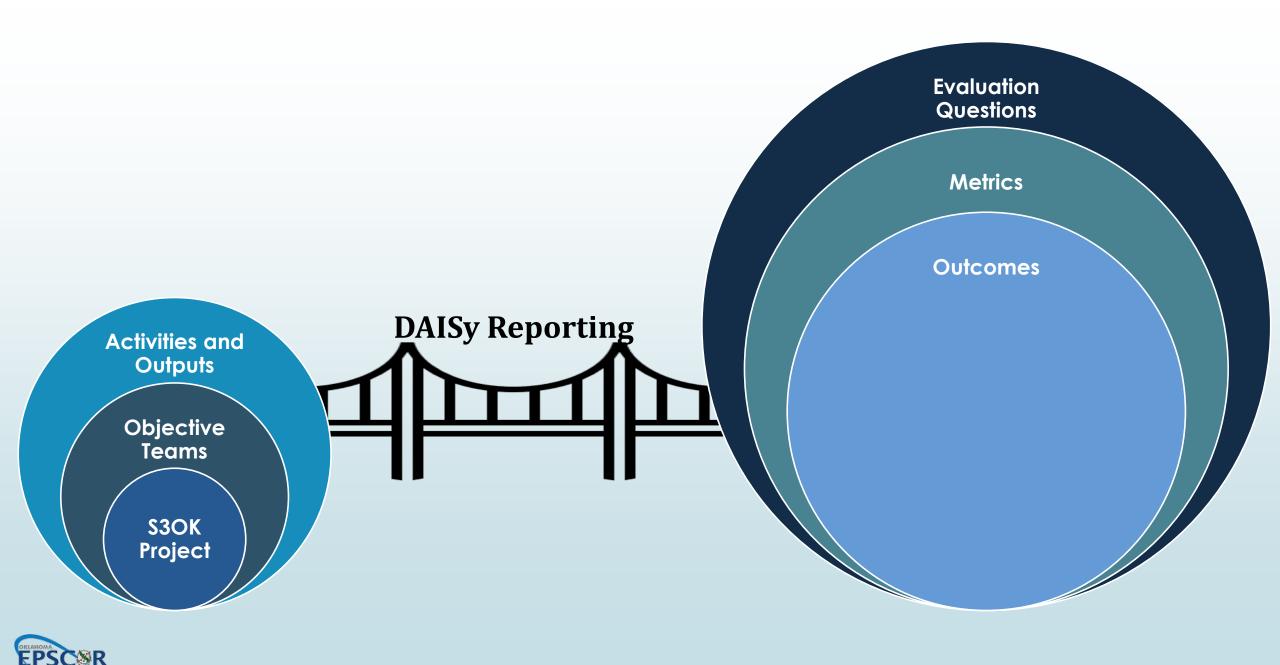
a. To what extent has research generated from the project advanced multi-objective solutions for managing threats to water, terrestrial ecosystems, and infrastructures in OK?

Outcome(s)	Evaluation Metric(s)/Indicator(s)	Data Analysis	Method/Data Source	Data Collection Responsibility	Data Collection Schedule
New knowledge creation	Research products (new tool kits, data sets, models, database technical report, etc.)	Content analysis	Project Report	S3OK DAISy	Annually
Adoption/ Implementation	Applications/use in policy and decision making (e.g., use of science-based evidence and knowledge gained )	Content analysis	Project Report	S3OK DAISy	Annually
Increased knowledge/awareness	Faculty and professional staff project members' perceptions of key research outcomes	Content analysis, descriptive statistics	Annual survey with faculty and professional staff	OEIE	Annually
Transfer of knowledge	Number and location of authors citing project researchers	Bibliometric analysis	List of publications reported in NSF EPSCoR Table E	OEIE	Years 4-5

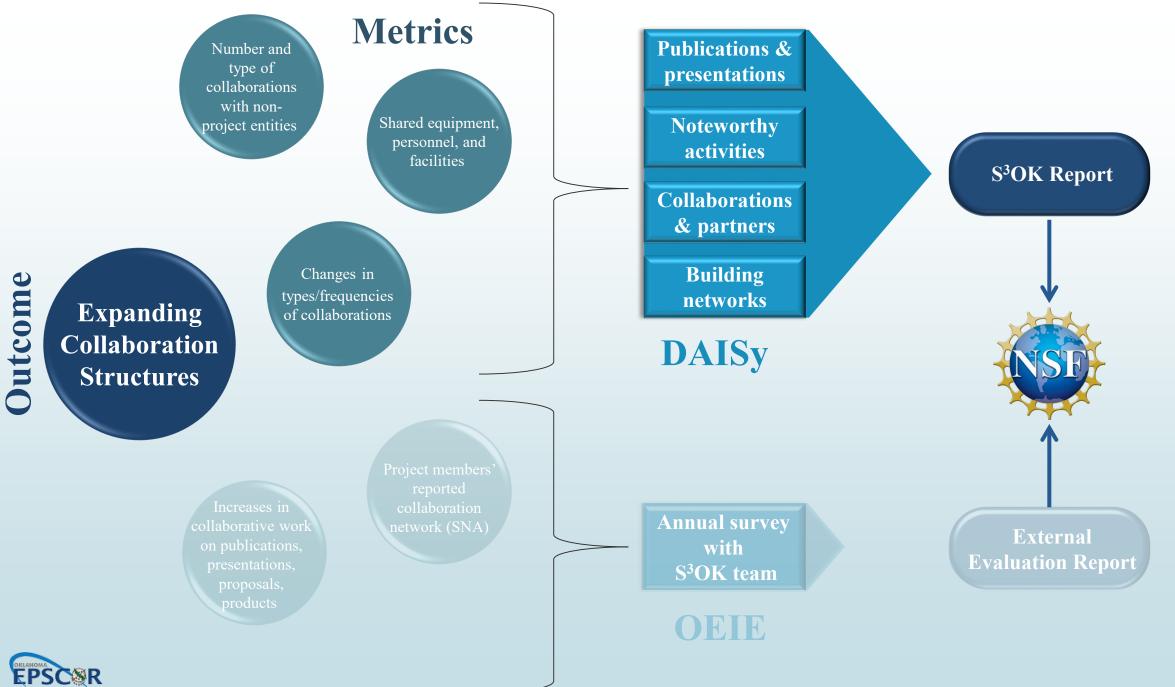




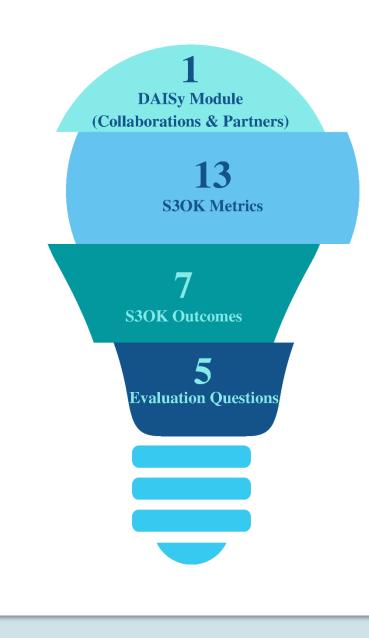


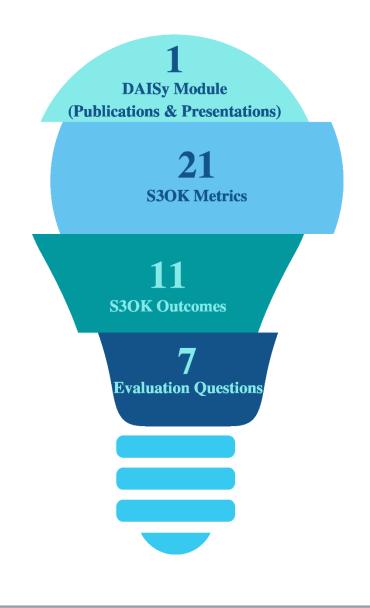


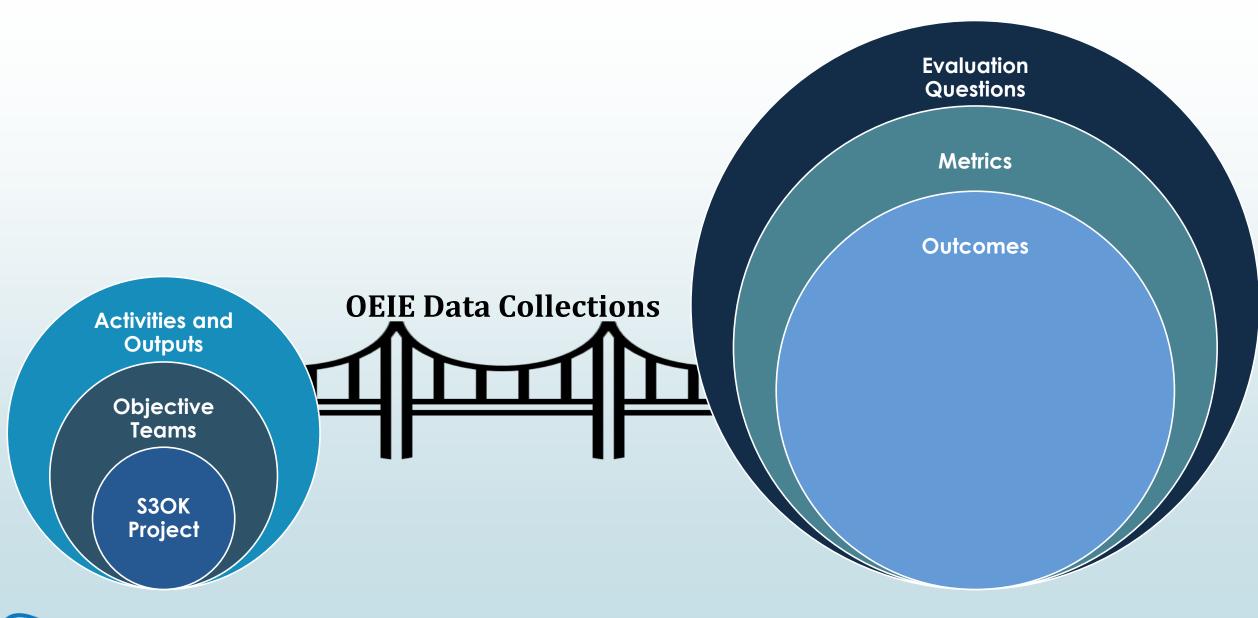
Established Program to Stimulate Competitive Research



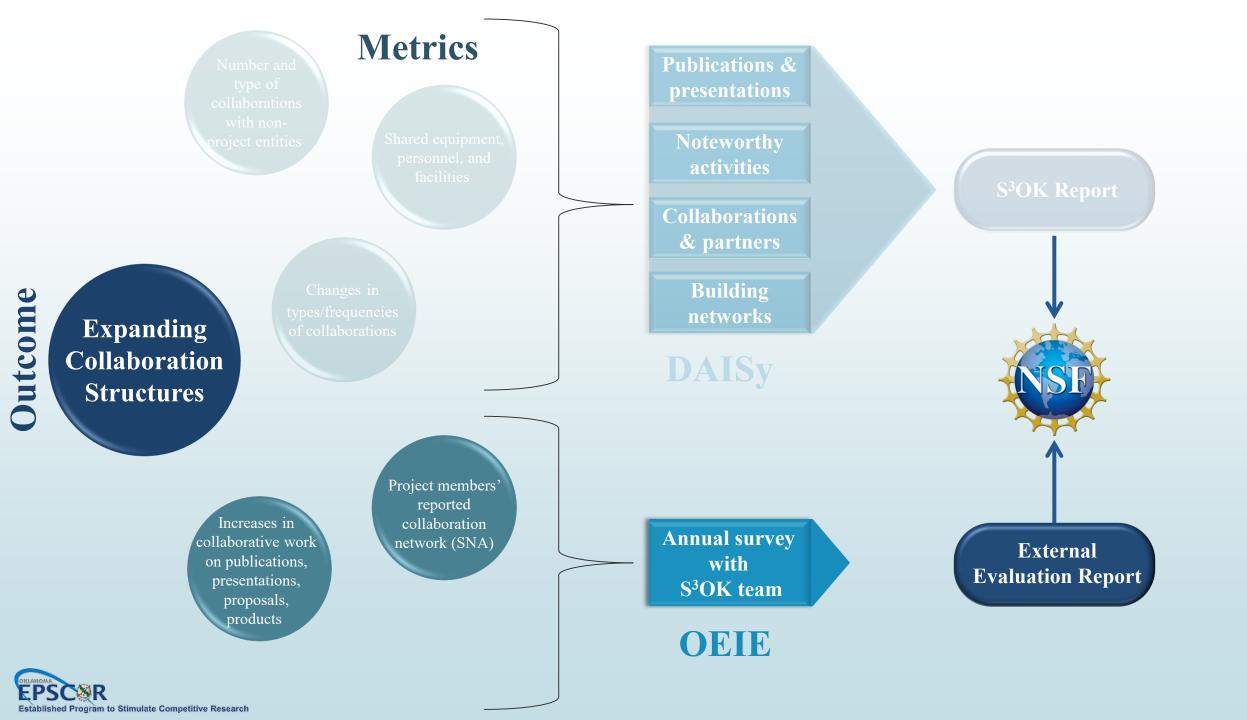
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# **External Evaluation Data Collections**

## **Annual Data Collections**

Surveys, Interviews, Focus Groups

## Fall (Researcher Retreat)

- S3OK Faculty and Staff (Survey) Summer (Annual Meeting)
- Graduate and Undergraduate Student Researchers (Survey or Focus Group)

## Fluid

am to Stimulate Competitive Research

- Seed Grant Recipient (Interviews or Survey)
- External Partners (Interviews, Focus Groups, or Survey)

## **Other Data Collections:**

## Fall (from DAISy)

• Bibliometrics/Altmetrics

## **Periodic Data Collections**

## Surveys, Interviews, Focus Groups

## Early Spring

• New Hire Interviews

## **Other Data Collections:**

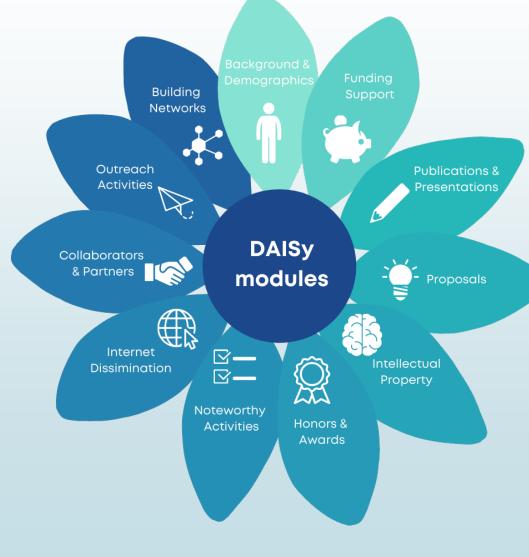
## Fall (from surveys & DAISy)

Social Network Analysis

## Summer (Annual Meeting)

- Ripple Effects Mapping
- Asset Mapping

# That's a Lot!



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OEIE External Evaluations

#### Surveys

(S3OK Faculty and Staff, Student Researchers, External Partners)

#### Interviews

(Seed Grant Recipients, External Partners, New Hires)

#### **Focus Groups**

(Student Researchers, External Partners)

# **The Details Matter**

What difference was made?

Manuscripts Not Published

Published Manuscripts

What are the effects?

Manuscripts Under Review

> Collaboration with Students

Collaboration with other Researchers

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Proposals

Who does this impact?

**Funding Support** 

**Magazine or News** segment Interview

Why is it significant?

Blog

**Presentations** 

What changes are occurring?

**Collaboration with City/Government Agency** 

**Submitted** 

Manuscripts

FY 2016 Oklahoma	<b>EPSCoR</b> Ke	y Outcomes
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RII Track-1 Template Data	EPSCoR Total	Jklahom EPSCoR	• •
Patents Awarded	14	0	• F • F
Patents Pending	34	0	Note
Proposals Submitted	1539	39	proje in th
Proposals Awarded	675	22	
Publications	1336	25	
New Faculty Hired	84	1	Awa
Undergrads Graduated	404	5 4	Amo Amo Unlic
Graduates Graduated	258		
Post-docs Involved	167	14	Ave.

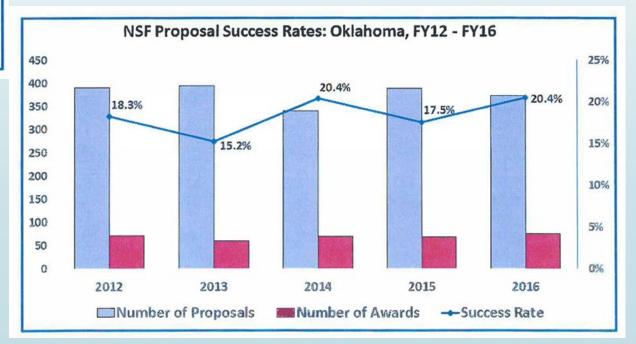
#### **Co-funding**

- Proposals awarded: 12
- Project Totals: \$4,488,618
- Project Leverage: 2.27

Note: You can look up individual co-funded projects using the program element code 9150 in the NSF awards search database.

#### Spend-out Data as of 05/08/17

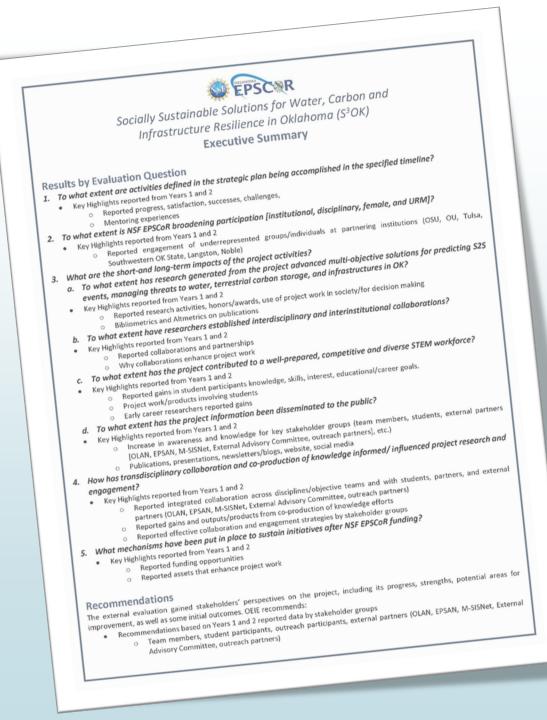
Award: 1301789, Year 4 Amount Obligated: \$16M Amount Expended: \$13,447,486 Jnliquidated Balance: \$2,552,514 (15.95%) Ave. Year 4 unliquidated balance is 18.73% What <u>YOU</u> report in DAISy is used by NSF EPSCoR to demonstrate Key Outcomes for your project and the EPSCoR program overall

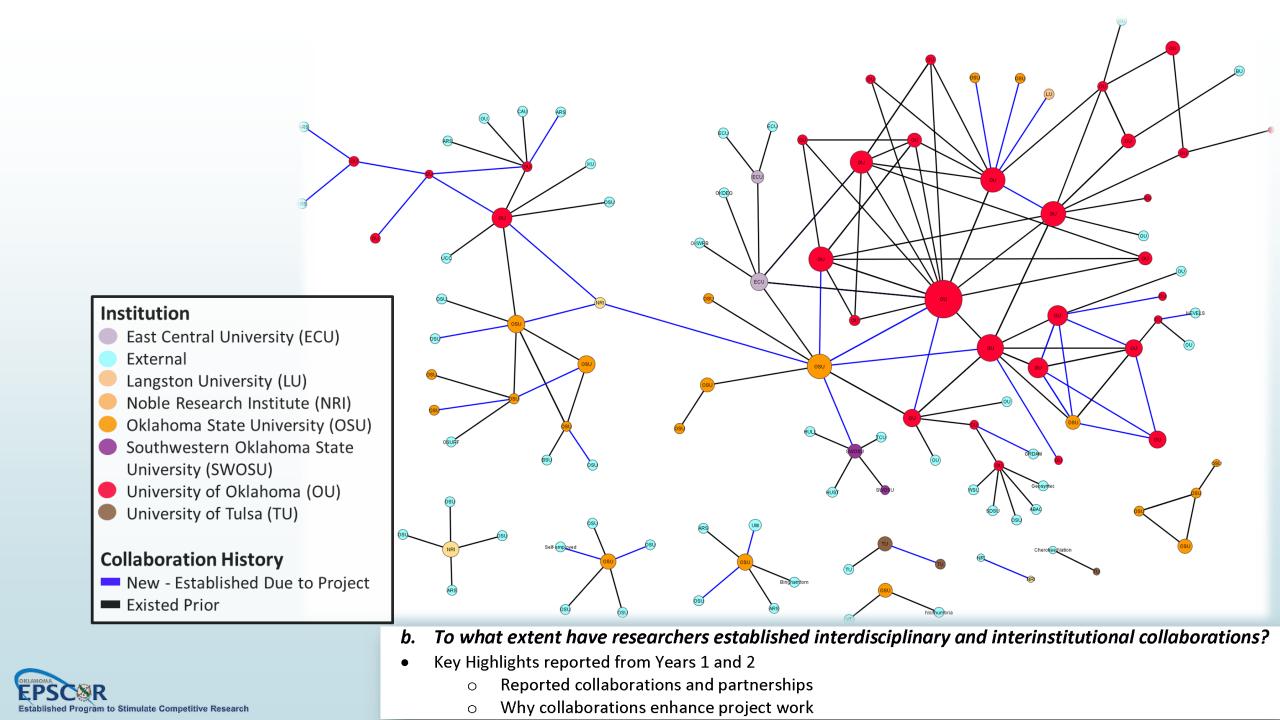




What <u>YOU</u> report to OEIE is used by NSF EPSCoR to help ensure the project engages in continuous improvement (Recommendations) and to gain evidence that support Key Outcomes







## **Intentionally** working across <u>disciplinary boundaries</u>

• We're doing to really neat things together, working across disciplinary boundaries. The collaboration part of these projects is fantastic! You have to have people who are willing to be transdisciplinary, and willing to work across those boundaries.

## Providing opportunities for students to present research

• The opportunities provided to the students in Oklahoma is incredibly in portant. a Weindow doe: Our best to make sure they present at Oklahoma Research Day.

## Embedding project research into outreach events

• We are re-imagining the next couple of Women in Science Conferences at O chighlight project research, and make STEM a little more real and accessible.

vell-prepared, competitive and diverse STEM workforce?

- 4. How has transdisciplinary collaboration and co-production of knowledge informed/influenced project research and engagement?
  - Key Highlights reported from Years 1 and 2
    - Reported integrated collaboration across disciplines/objective teams and with students, partners, and external partners (OLAN, EPSAN, M-SISNet, External Advisory Committee, outreach partners)
    - Reported gains and outputs/products from co-production of knowledge efforts
    - Reported effective collaboration and engagement strategies by stakeholder groups

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## **S3OK REPORTING FLOW CHART**

#### DAISy

S3OK project team reports milestones, outputs, and outcomes into DAISy

#### OEIE

DAISY and OEIE data collection results used as evidence for metrics, outcomes, and evaluation questions to compete external evaluation report

S3OK Project Team

Progress on S3OK milestones, outputs, and outcomes

#### Oklahoma EPSCoR Office

Reported milestones, outputs, and outcomes from DAISy used as evidence for metrics to complete S3OK report to NSF EPSCoR

## NSF EPSCoR

Results from reports used to demonstrate value and impact of S3OK project and NSF EPSCoR to program stakeholders

## **Questions?**

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