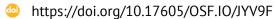


CEnTR*IMPACT

Community Engaged and Transformative Research Inclusive Measurement of Projects and Community Transformation

Final Report for the 2024 CUMU-Collaboratory Research Fellowship











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Supported in part by the Collaborative-Coalition of Urban and Metropolitan Universities (CUMU) Research Fellowship and the Indiana University Faculty Assistance in Data Science program.

Indiana University Indianapolis is located on the traditional and ancestral territory of the Miami, Potawatomi and Shawnee people and, more recently, that of a vibrant Black community, also displaced. This project was conceived and conducted to honor their traditions, power, agency, and voice.

CEnTR*IMPACT: Metrics for Community Engaged Research

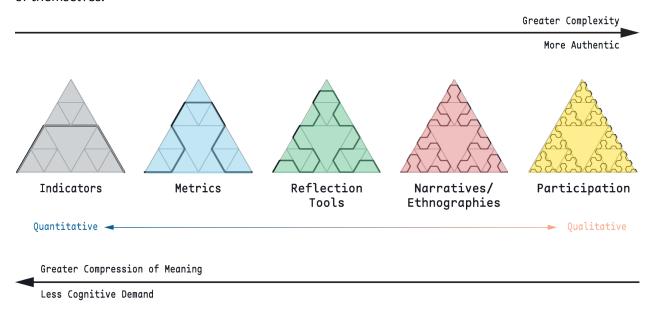
The Goal of CENTR*IMPACT

To create heuristics that help community engaged researchers understand and evaluate their work and to help them share their stories of their work with colleagues, funders, partners, etc.

Existing Work in Reflecting, Reporting, and Evaluating Community Engaged Scholarship

Situating Metrics

Iceberg or something: metrics are the very top, shortcuts or heuristics for lots of meaning. Can/should be combined with other tools such as TRES (https://servicelearning.indianapolis.iu.edu/teaching-research/tools-instruments/tres/index.html), as these other tools provide deeper insights and more robust information. Metrics should be used to **help** tell the story, they should not be the story in and of themselves.



⚠ Metrics as Single-Value Indicators for Consequential Decision Making

Don't do it.

Development Process

Here's what we did

Current Design and Status of CEnTR*IMPACT

Project Impacts

$$S_{ci} = (\prod_{i=1}^n s_i)^{\frac{1}{n}}$$

Ripple Effects

$$\eta_i = \lambda_i (N_i + (\phi C_i))$$

$$\eta_O = \frac{\sum_{i=1}^n \eta_i}{n}$$

CEnTR*IMPACT in Use

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see https://quarto.org.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
node_frame ← network_frame |>
select(-from) %>%
distinct(to, .keep_all = TRUE) %>%
rename(node = to) %>%
arrange(node) %>%
mutate(dd = diffusion.degree(network_graph)) %>%
mutate(pr = page_rank(network_graph, directed = TRUE)$vector) %>%
mutate(node_mu = dd * pr)
```

Continued Trajectories

You can add options to executable code like this

[1] 4

The echo: false option disables the printing of code (only output is displayed).

Contributors and Roles

Contributor	Role	
Jeremy F Price, PhD	Conceptualization	Lead
	Methodology	Lead
	Project Administration	Lead
	Funding Acquisition	Lead
	Data Analysis	Lead
	Software	Equal
	Supervision	Lead
	Visualization	Lead
	Writing-Original Draft	Lead
	Writing-Editing and	Lead
	Revising	
Kristin Norris, PhD	Methodology	Supporting
	Project Administration	Supporting
	Data Analysis	Supporting
	Writing-Editing and	Supporting
	Revising	
Mary Price, PhD	Methodology	Supporting
	Data Analysis	Supporting
	Writing-Editing and	Supporting
	Revising	7,7
Neha Anil Cheda	Software	Equal
	Visualization	Supporting
Kirthivasan Pandurangan Neelavathi	Software	Equal
	Visualization	Supporting
Vivek Tiwari	Software	Equal
	Visualization	Supporting