

School of Industrial Engineering

3. Methodology

Civic Underst

Criteria

Accessibility

Visualization

Capabilities

Integration

User

Interface

Data Storage

Advanced

Capabilitie

Price

Organizational Impact Dashboard

Leadership Southern Indiana | Sellersburg, IN Client: Mark Eddy, CEO | meddy@leadershipsi.org

Team Members: Rachael Snow | Emily Horst Raghu Kumar | Ruhara Perera

Civic Understanding

50

50

Participants feel motivated to be an active civic engagement member in their communities

Relationship Building

50

rks in their communities and beyond

Participants feel that they have acquired leadership skills to form

• Strongly Disagree • Disagree • Neutral • Agree • Strongly Agree

50

Participants feel more connected to their community or region

Collaborative Leadership

Civic Readiness

75

ogether to make a community function

25

25

25

25

25

1. Client Information & Problem Statement

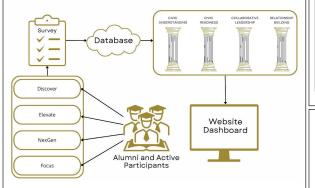
Leadership Southern Indiana (Leadership SI) is a non-profit organization that strives to "engage, develop, and mobilize regional leaders who will serve and transform the community" through their four leadership development programs, DISCOVER, FOCUS, ELEVATE, and NEXTGEN. For over 41 years, Leadership Southern Indiana has built their foundation upon four pathways: civic understanding, civic readiness, collaborative leadership, and relationship building.

Our team's task throughout the semester was to work with the IMPACT Committee at Leadership Southern Indiana to:

- Determine survey metrics to measure Leadership Southern Indiana's demographics and success, related to each of their four pathwavs
- Design and implement a digital dashboard that will update in response to survey and user data collected
- Display the numerical impact of the non-profit's leadership programs to potential participants, alumni, sponsors, and donors on the Leadership Southern Indiana website

2. System Model

Rather than system refinement, this project required elements of system definition and development. In order to adequately present our client with a viable solution, our team identified and completed the necessary steps to bridge the gap between the initial state and the desired solution.

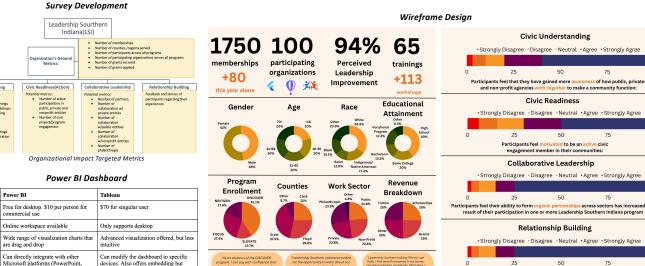


Final Products

Scan the QR codes to watch video walk-throughs of our team's maior deliverables.



Data Collection Survey Website & Impact Dashboard



A variety of steps were required to bring all angles of the project to fruition. We worked with Leadership Southern Indiana and Maria Wiltse from the Purdue Center for

design using the graphic design platform, Canva, allowing us to gain feedback from our client through iterative improvement. After benchmarking a variety of data

Regional Development to develop a survey that would capture Leadership SI's impact through targeted metrics. During this process, our team brainstormed the dashboard

visualization tools, we recommended a Power BI license to our client and helped test the survey through a pilot release to receive representative data. After cleaning and

transforming the data, we developed the dashboard in Power BI and embedded the linked report into the Leadership SI Impact webpage, along with alumni testimonials.

rms (PowerPoint, ebsite embedding	devices. Also offers embedding but through API.	As on allowing of the DSCOUR and regression. Use say with confidence that (a low by the second sec
milar to excel, drag	Advanced visuals, requires a some additional training	
e sets of data, faster store 10 gb of data	Can store and process more data than Power BI.	
n, and SQL Power Query vanced visualization.	Has additional C+, C# and Java capabilities. Can also be used with R and Python.	
Value of Power BI	vs. Tableau	

PURDUE SCHOOL OF INDUSTRIAL ENGINEERING

4. Results & Discussion

Excel). Direct w

Intuitive, very sir

Can process large

han excel. Can s

Allows R, Pythor

capabilities. Has language for adva

ffered

and drop

As a team, we accomplished several goals and overcame a variety of obstacles to arrive at the presented solution. By the end of the project, we each grew academically as students and professionally as industrial engineers. To ensure a smooth transition for Leadership SI and the overall longevity of the project, we wrote a user manual for the operation of Power BI and basic website elements in Elementor and conducted a training session for the individuals maintaining our work in the future.

IE 431 Completion & Project Outcome



Systems Thinking Problem Solvina Used our knowledge of the Developed methods of conflict engineering design process to management & learned to define our client's system & approach obstacles as a unified develop design alternatives team when they arose



Divided project tasks to leverage each team member's strengths in order to arrive at the most well-rounded solution





Networking





100

Time Management & Goal Setting Worked as a team to discuss Gained experience with a network of industry professionals & developed a positive, trusting

Final Wireframe Draft

Oral Communication Presented individual & team progress to our client on a weekly basis

relationship with our client

project objectives early in the semester & devise a plan to follow through with those goals