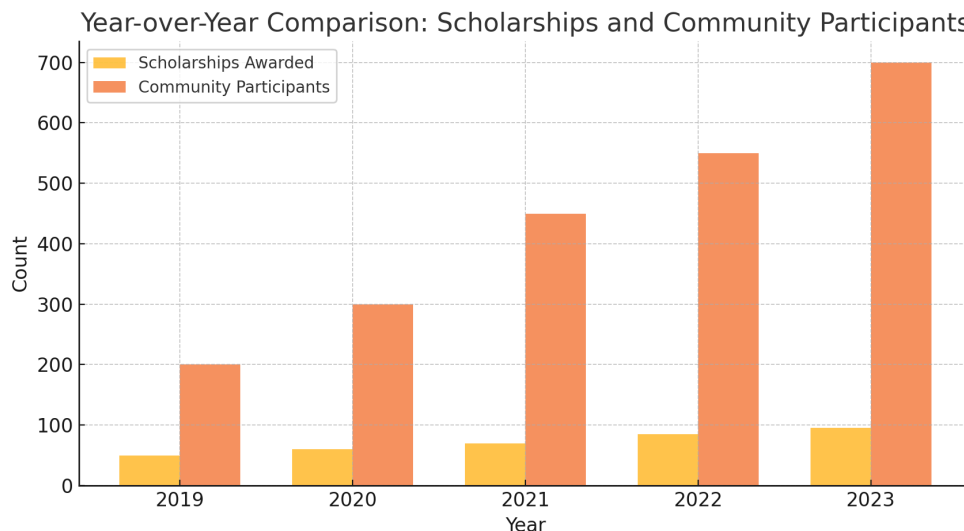# SDG 1 Progress Against SDG1- No Poverty for Southern Technical University

This report provides a comprehensive analysis of Southern Technical University's progress toward Sustainable Development Goal 1 (SDG 1): 'No Poverty'. The analysis uses multiple metrics, including the number of scholarships awarded to low-income students, community program participation, employment rates for graduates from low-income backgrounds, and hours spent in community outreach initiatives. Visualizations are included to demonstrate trends over recent years and highlight areas of improvement.
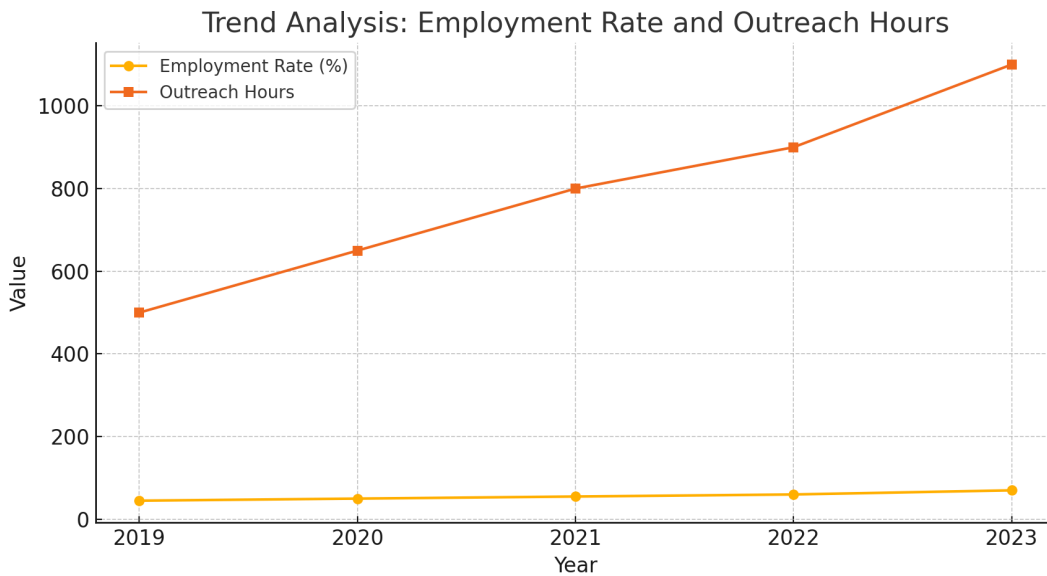
1. Year-over-Year Comparison of Scholarships and Community Participants

This bar chart compares the number of scholarships awarded to low-income students with the number of participants in community outreach programs from 2019 to 2023. The data indicates consistent growth in both metrics, reflecting Southern Technical University's expanding support for students from low-income backgrounds and broader community engagement initiatives.
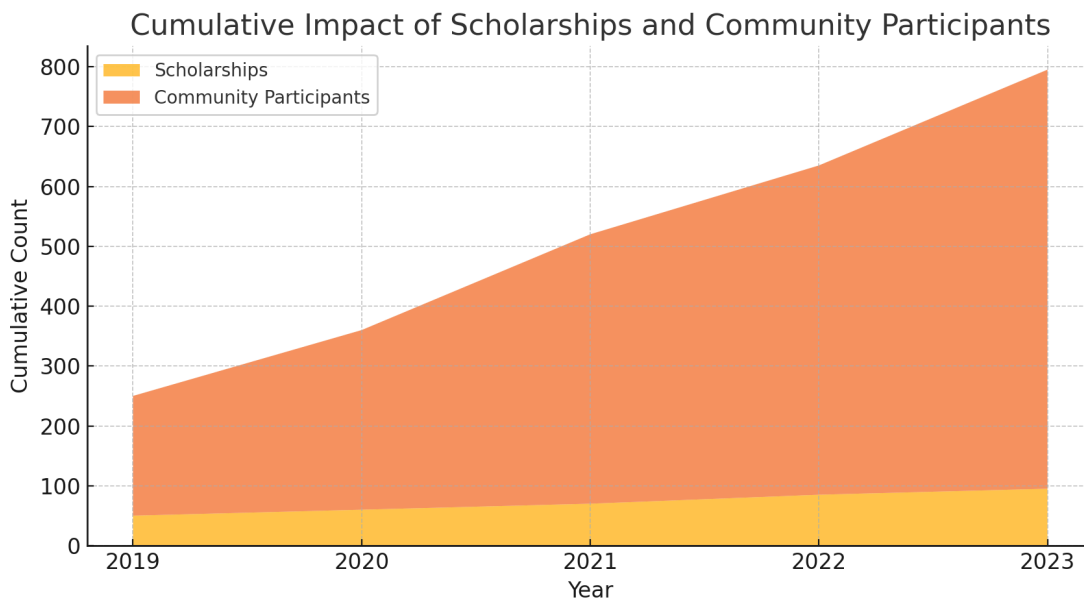

2. Trend Analysis of Employment Rate and Outreach Hours

This line chart tracks the employment rate for graduates from low-income backgrounds and the total hours dedicated to community outreach programs over the years. The upward trends suggest that Southern Technical University has been successful in improving employment outcomes for its students and increasing its commitment to serving the community.

Trend Analysis: Employment Rate and Outreach Hours

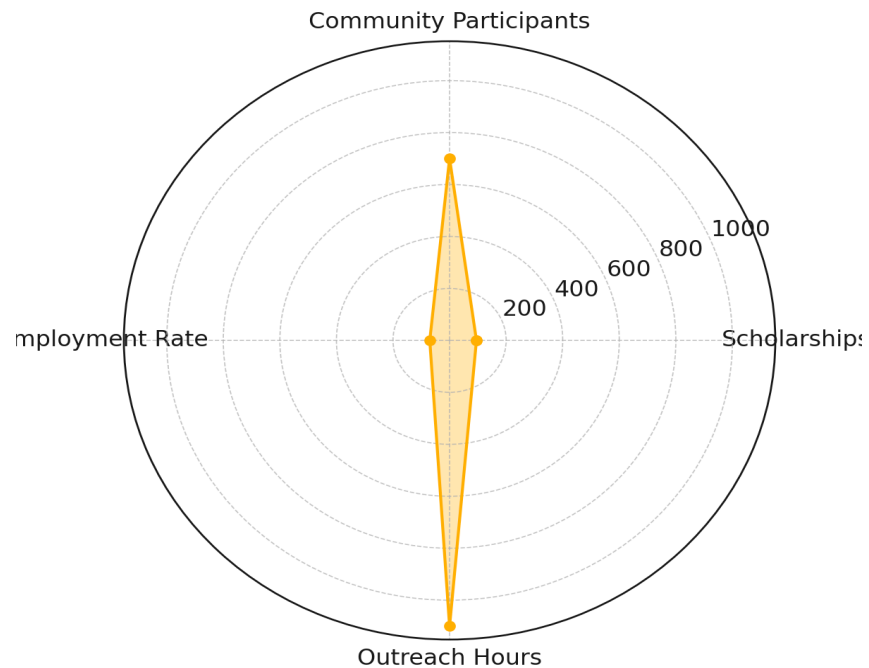### 3. Cumulative Impact of Scholarships and Community Participants

The stacked area chart presents the cumulative impact of scholarships and community participation over the years. The steady growth in cumulative values highlights the university's sustained efforts in poverty alleviation through educational support and outreach activities, contributing to SDG 1.

Cumulative Impact of Scholarships and Community Participants
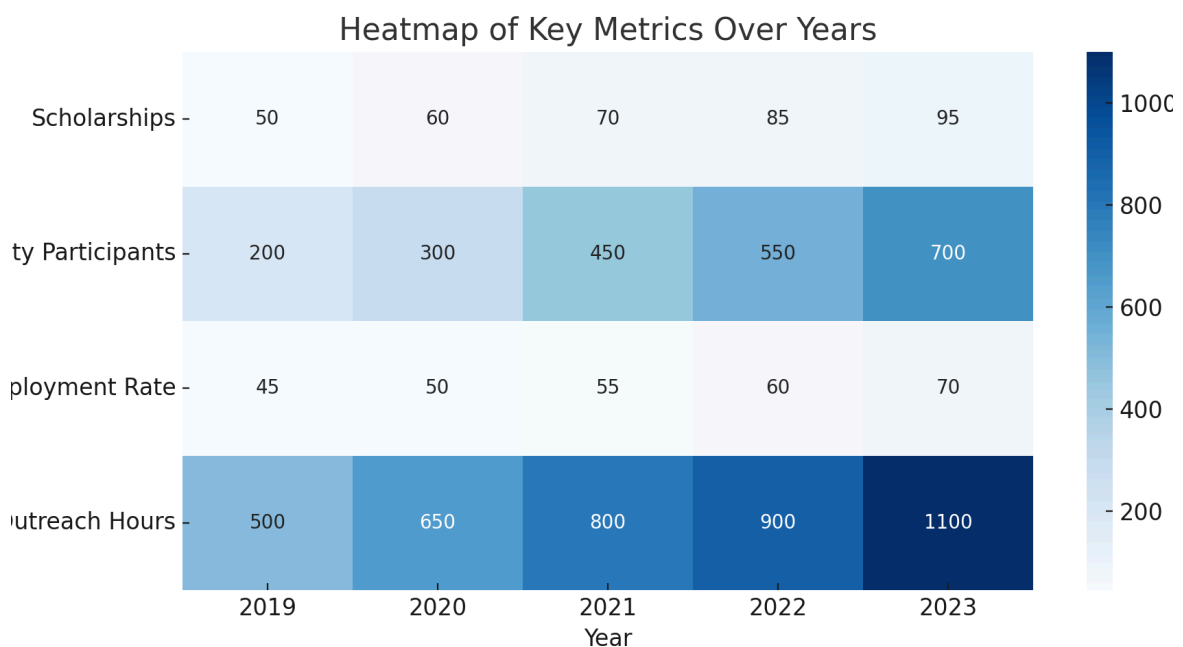
4. Multi-Metric Comparison for 2023

This radar chart provides a multi-metric comparison for the year 2023. Each axis represents a different key metric, including scholarships awarded, community participants,

employment rate, and outreach hours. The chart reveals balanced improvements across all metrics, indicating well-rounded progress in SDG 1 initiatives.

5. Heatmap of Key Metrics Over Years

The heatmap displays the yearly breakdown of key metrics. Darker colors indicate higher values, helping to quickly identify areas where the university has excelled, such as community outreach hours in recent years. This visual provides an at-a-glance view of metric intensities and their yearly progression.

6. Yearly Cumulative Scores for SDG 1 Progress
The cumulative score line chart reflects Southern Technical University's overall progress in SDG 1. By combining metrics like scholarships, community outreach, and employment rates, this chart captures the university's growing impact on poverty reduction over time, as seen in the upward trajectory.

Yearly Cumulative Scores for SDG 1 Progress