Innovation: Campus Infrastructure, Sustainability, and the Built Environment

University System of Georgia: Staff Council

2021 Annual Conference Reboot: Evolution, Innovation, and Resilience

Friday, October 8, 2021

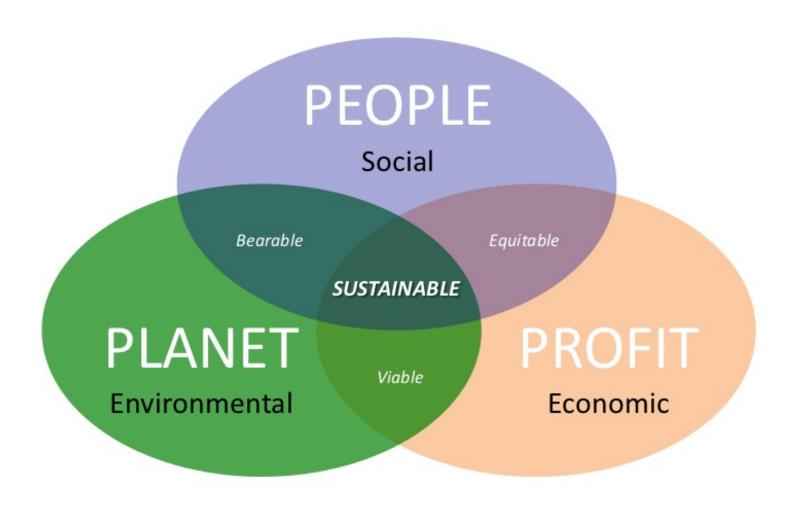


Welcome

- Kelly Fox, Executive Vice President for Administration and Finance
- About Administration and Finance
 - Infrastructure and Sustainability
 - Information Technology
 - Finance and Planning
 - Human Resources
 - Real Estate Development



Sustainability: The Bigger Picture





Testing Sustainable Solutions

Carbon Neutral Energy Solutions Laboratory











Creating Sustainable Interdisciplinary Spaces

Roger A. and Helen B. Krone Engineered Biosystems Building









Designing and Building Regenerative Spaces

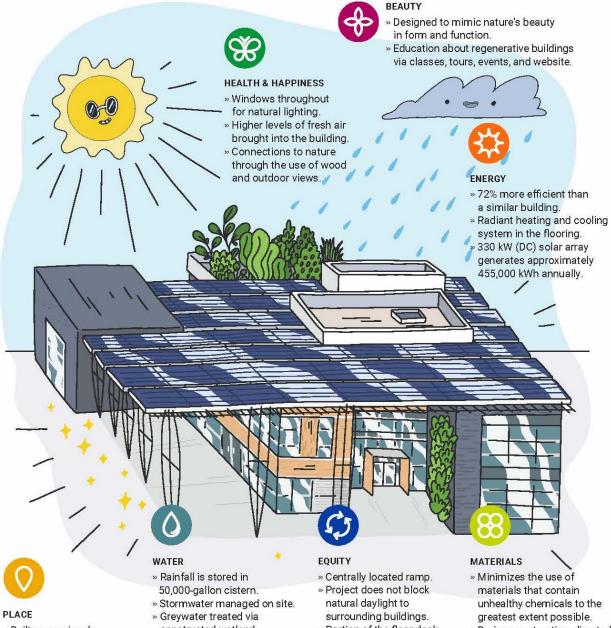
The Kendeda Building for Innovative Sustainable Design











Holistic view of sustainability

- 7 performance "Petals"
- 20 imperatives
- Extends beyond the "traditional" performance indicators
 - Equity
 - Health and happiness
 - Beauty
- sustain.gatech.edu/sustainability -tours

- » Built on previously developed land.
- » Roof garden has bee hives, fruit, and vegetable plants.
- » Pedestrian-friendly features and bus stop.
- constructed wetland.
- » Condensate water used for irrigation.
- » Composting toilets dramatically reduce water usage.
- » Portion of the floor deck constructed by participants of a workforce development program for economically disadvantaged Atlanta residents.
- unhealthy chemicals to the
- » During construction, diverted more waste from landfill than sent to landfill.
- » At least 50% of products and services were sourced from within 1,000 km of the site.



Weaving Sustainability into the Campus Culture

- Care for the 400-plus acres on campus and our people
 - Protecting our pollinators
 - Managing invasive species
 - Reducing stormwater run-off
 - Green cleaning practices
 - Recycling and composting
 - Creating spaces for reflection and well-being



Weaving Sustainability into the Campus Culture

















Weaving Sustainability into the Campus Culture





STARS Silver Rating

- Academics
- Engagement
- Operations
- Planning and Administration
- Innovation and Leadership





Institute Strategic Plan: Lead by Example





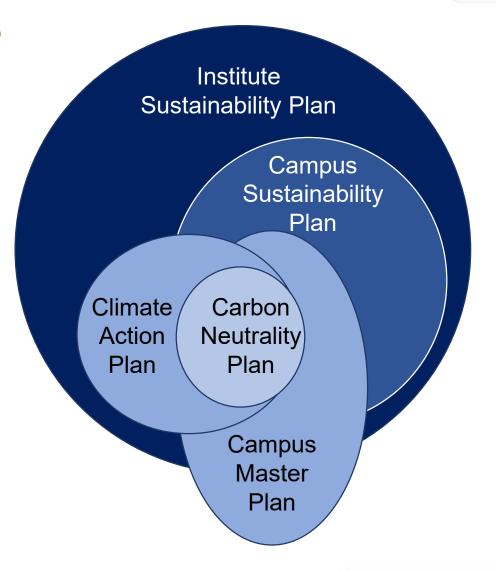
Institute Strategic Plan: Lead by Example

- Lead and inspire by example by creating a culture of deliberate innovation in all our practices and be an example of efficiency, sustainability, ethics, equity, and inclusion, we will:
 - Be a model of excellence through continuous improvement, deliberate innovation, and best practices in all services, systems, and practices.
 - Be a leader in leveraging data analytic tools and processes to inform decisionmaking and be an example in the protection, management, and governance of data.
 - Develop a world-class workforce committed to enhancing employee skills and providing a diverse, equitable, and inclusive environment.
 - Demonstrate our commitment to sustainability in the development and management of our campus.



Sustainability Planning and Goals

- Achieve zero waste (90% diversion)
- Implement Sustainable Procurement Policy
- Carbon neutrality by 2050, 50% emissions reduction by 2030
- Reduce energy useper square foot by 40%.
- 30% of staff and faculty take sustainable commute mode as primary mode
- Reduce potable water use by 25%
- 100% of buildings meet sustainability standards and protocols for building construction, maintenance and operation





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Build upon Lessons Learned for a Successful Future

- Measurable goals with metrics
- Access to accurate and timely data
- Collaboration with others on campus
- Invite the doer's to the table early in the conversation
- If a process, design, system, etc. was successful, do it again!

