

Higher Education and the Environment: Becoming Global Leaders for Sustainable Change

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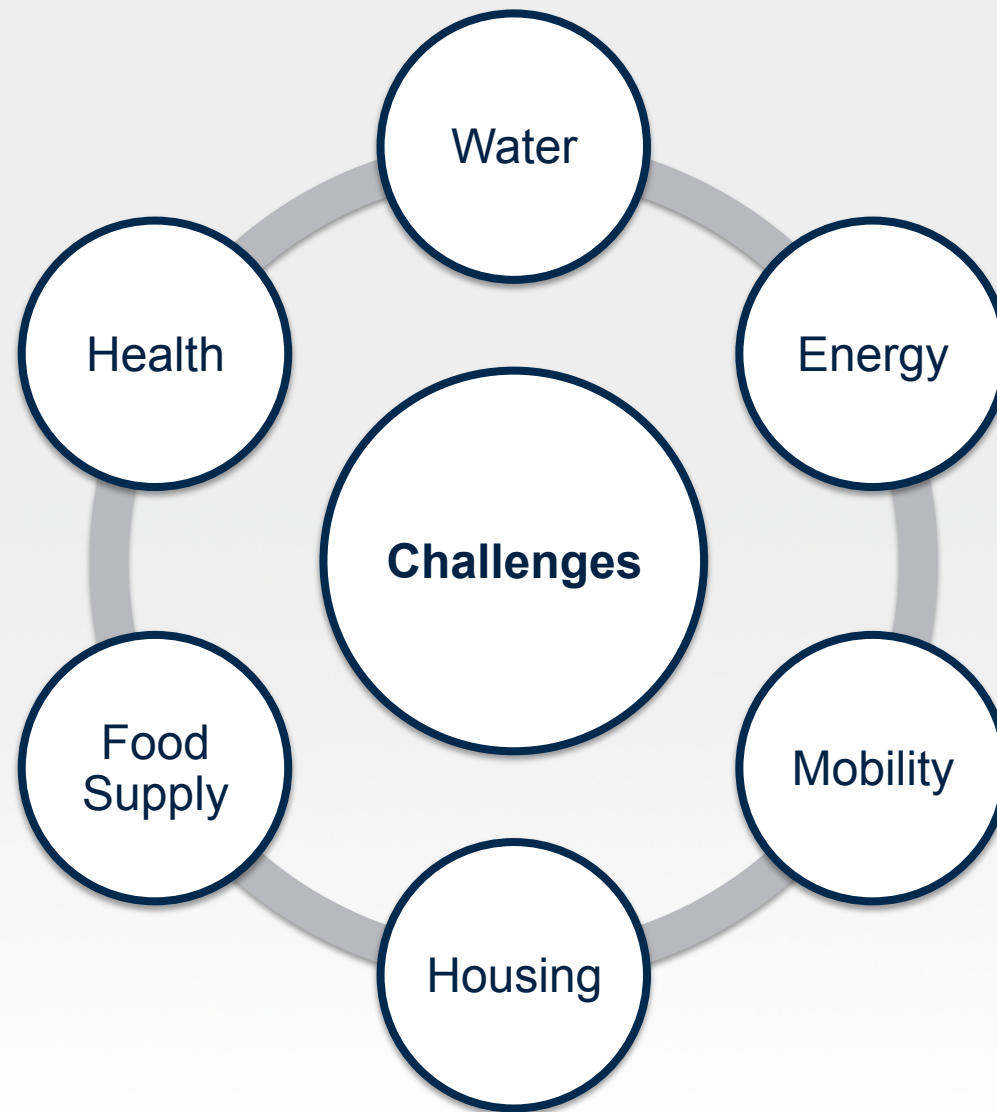
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The Role of Universities in Addressing Global Environmental Issues

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Role of Universities:

- Serve as Agents of Change
- Develop Talented Professionals
- Generate Ideas and Solutions
- Balance Fundamental and Applied Research
- Lead by Example
- Serve as Living Laboratories
- Create a Culture of Collaboration and Support Informed Decision-Making

Research at UTSA Addressing Specific Environmental Challenges

UTSA

Health
Cyber Security
Energy & Environment
Human / Social
Development
Sustainability

COE

Energy
Regenerative Medicine
Cloud Computer
Cyber Security
Materials

TSERI

Energy &
Sustainability
Analytics
Cyber Security
Future Utility

Alignment for Success!

Current Research:

- Biomedical
- Cyber Security
- Data Analytics & Cloud Computing
- Renewable Energy Technology (PV, Storage)
- Sustainability Education
- Energy Consumption and Behaviors
- Adoption of EVs and Impact on the Grid
- Habitat Conservation

Practical Impact of Current Research Work – Making a better World

Impact of Current Research:

- It is about the **STUDENTS!!!**
- Part of SA Tomorrow – Comprehensive Plan for CoSA
- Partnerships with CPS Energy and SAWS
- Development of programs around energy consumption, efficiency, renewables, and forecasting
- Recognized as a Source of Innovation
- Improved Quality of Life

How and Why should Universities Work with Local Communities to Address Critical Issues?

Why?

- Responsibility of being Part of the Community
- We can Provide Objective / Independent Views
- Provide Opportunities to Students
- Demonstrate a Clear Value Proposition
- Catalyst for Innovation
- We have the Talent and Capacity
- Our Mission and Vision should Align

How?

- Leading by Example
- Serving as a Living Laboratory
- Delivering 21st Century Education & Training
- Equip Students with the “Right” Resources and Skills to be Successful
- Partnerships
 - Conventional
 - Unconventional

Questions?

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