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# Sustainability Recipe for Instruction and Curriculum

- Sustainability principles and green buildings at De Anza and Foothill Colleges
- Sustainability integrated into curriculum
- Sustainability and student enrollment and retention







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# What is Sustainability?





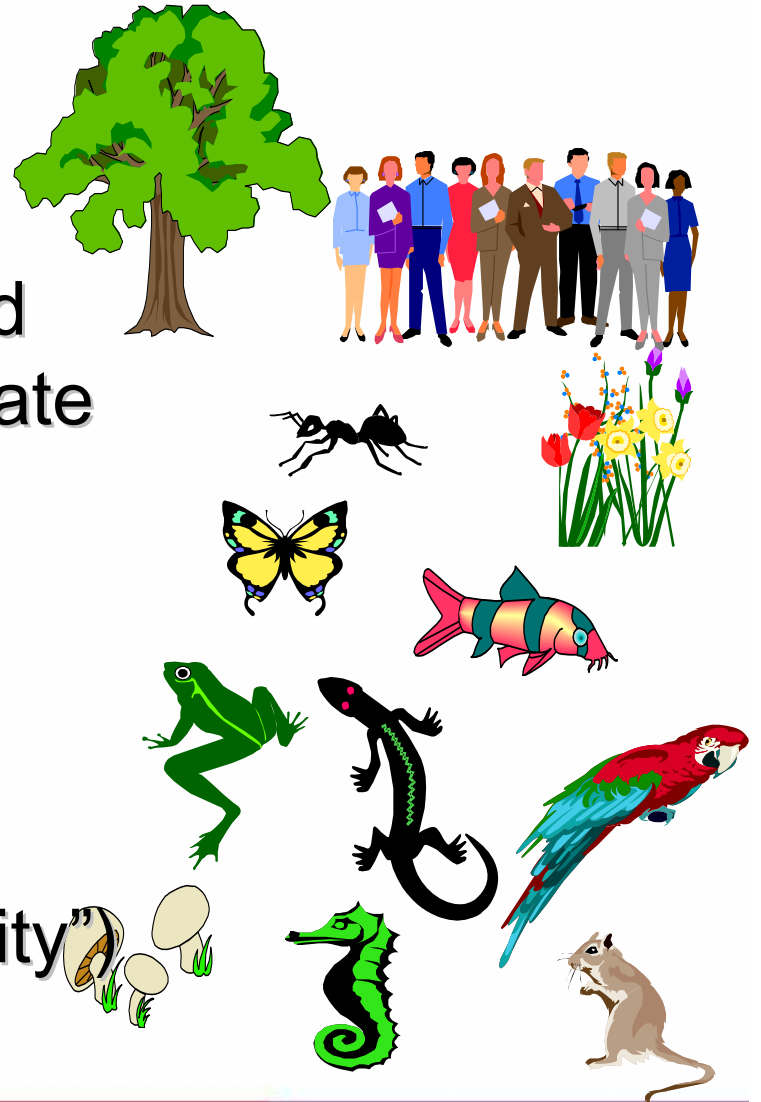
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# Sustainability

◆ Sustainability – To utilize components of social, cultural and biological diversity in a way and rate that does not lead to long-term decline, thereby maintaining the potential to meet the needs and aspirations of present and future generations. (Adapted from the “Conventions of Biological Diversity”





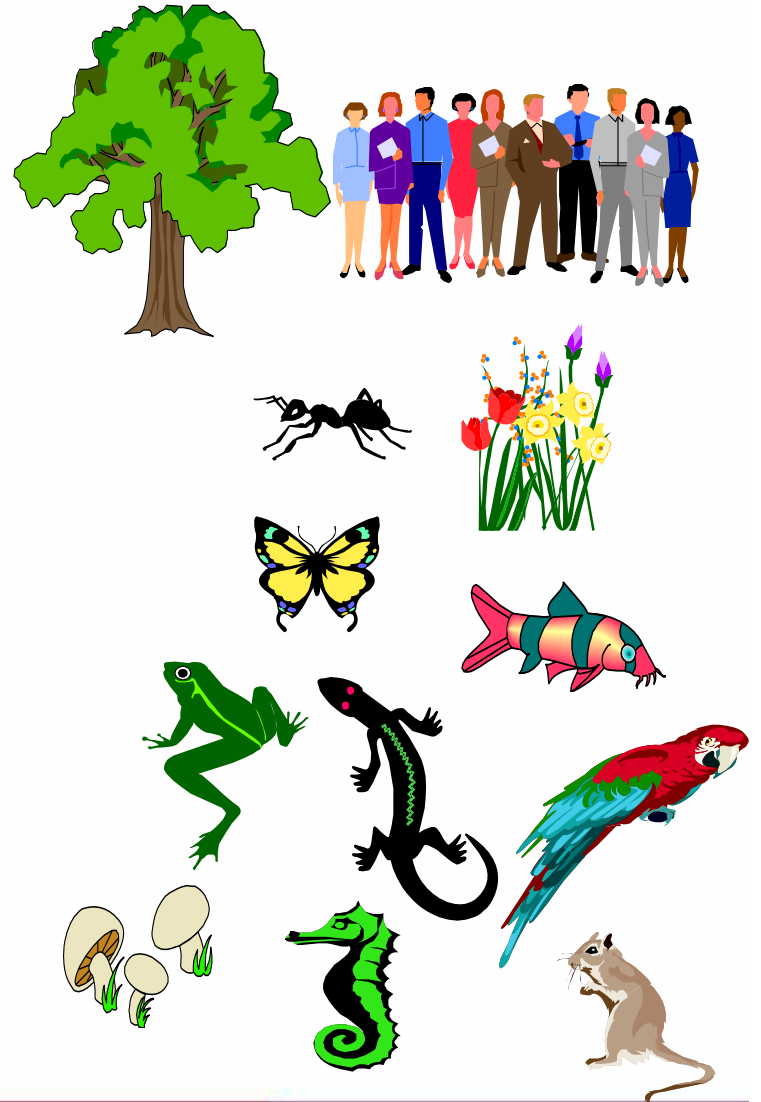
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# Sustainability

◆ Sustainability – In other words, it is our financial, social, and environmental responsibility to ensure that present and future generations have a decent way of life without destroying what ultimately sustains all life on earth...natural ecosystems (the environment).







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How does a sustainable college look?  
Why is it important? What has already  
been done at FHDA?





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## FOOTHILL-DEANZA DISTRICT

FOOTHILL COLLEGE--Los Altos Hills CA, 18,000 students--  
50 Year Anniversary this year. (Rob Johnstone, CIO)

DE ANZA COLLEGE--Cupertino CA, 25,000 students--  
40 Year Anniversary this year. (John Swensson, CIO; Pat Cornely,  
Kirsch Environmental Center Executive Director; Kristin Sullivan,  
Instructor, Environmental Studies)



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## HISTORY OF DE ANZA ENVIRONMENTAL INITIATIVES

- 1967-Doug Cheesman, 1 person Bio Dept
- 1970-Federal Grant for the ESA created by staff & students, federal grant, Now 70 plant families, 370 native species
- 1975-Recycling starts on campus/community wide in 1988
- 1976-Environmental Biology: an Ecology class



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## HISTORY OF DE ANZA ENVIRONMENTAL INITIATIVES

PRE-1992: Community Recycling and the Cheeseman Outdoor Environmental Studies Area (ESA)

1992: College Environmental Advisory Group (CEAG) formed; chaired by Julie Phillips

1994: Board adopts Environmentally Sound practices: Energy, Materials & Resources, Water Conservation, Indoor Environmental Quality, Sustainability



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## SUSTAINABILITY EFFORTS/ACCOMPLISHMENTS:

Kirsch Environmental Studies Center

Five other LEED Buildings with a sixth under construction

Active Student involvement from the initial \$180K grant to the design of Kirsch to the latest Food initiatives in the Campus

Center. In addition students run the Kirsch Center and the

Cheeseman ESA

Statewide Energy Management grants (SEMP-1993-

98). Legislation , unfunded mandate, in 2001--See CA Ed Code

CEAG continues environmentally sound practices

Non-smoking policy on campus

Recycling Effort expands

Green Building Materials in all building renovations



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## CURRENT SUSTAINABILITY ACTIVITIES:

New Photovoltaic Farm

Curriculum!!!!

400% enrollment increase in Environmental Studies

Coyote Valley Transit Plan for wildlife

Talloires Declaration

Campus Center: Organic Food, etc

Visual & Performing Arts Center

Al Gore Visit--when u come to DE ANZA. . .



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# Talloires Declaration

- We, the presidents, rectors, and vice chancellors of universities from all regions of the world are deeply concerned about the unprecedented scale and speed of environmental pollution and degradation, and the depletion of natural resources.
- University leaders must initiate and support mobilization of internal and external resources so that their institutions respond to this urgent challenge.
- We, therefore, agree to take the following actions:



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- 1. Increase Awareness of Environmentally Sustainable Development**
- 2. Create an Institutional Culture of Sustainability**
- 3. Educate for Environmentally Responsible Citizenship**
- 4. Foster Environmental Literacy For All**
- 5. Practice Institutional Ecology**
- 6. Involve All Stakeholders**
- 7. Collaborate for Interdisciplinary Approaches**
- 8. Enhance Capacity of Primary and Secondary Schools**
- 9. Broaden Service and Outreach Nationally and Internationally**
- 10. Maintain the Movement**



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Kirsch Center for Environmental Studies  
De Anza College  
Cupertino, California

CBE Livable Buildings Award 2007 Submission





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# General History:

- Dr. Martha Kanter and DA have signed the **Presidents Climate Commitment**.
- We are members of **Sustainable Silicon Valley** that has a CO<sub>2</sub> reduction commitment.
- We are members of **Silicon Valley Leadership Group**
- District participation in the **Association for the Advancement of Sustainability in Higher Education (AASHE)**



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# History of EMS Discussion:

- From compliance issues to: leaders and being proactive and ethical in environmental sustainability
- FHDA's environmental policy
- Sustainability speakers and opportunities for CEAG and Academic Senate
- CEAG; E.S. 62 courses on EMS
- Academic Senate decided to make environmental sustainability a priority in the last academic year





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## History Since Spring 2005

- **DA college president and two vice presidents stated on opening day 2005-2006, efforts are underway to bring and EMP and sustainability onto DA campus**
- **KCES allows DA to teach even more across disciplines and involve the campus community (sustainability is a great way to get there)**







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**Work at De Anza College, the Kirsch Center for Environmental Studies (KCES), and the Sustainability Management Plan (SMP) all help to broaden sustainability**





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# Sustainability Work at De Anza College





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DA has discussed the following (these can be broadened to include FH):

- **The educational ideas of sustainability ought to (ethically) permeate throughout campus**
- **De Anza should embrace biological diversity as integral to cultural diversity**
- **Suggestions: Sustainability as core (brand); Be distinguished ...curriculum development; Environmental sustainability as part of the freshmen experience**



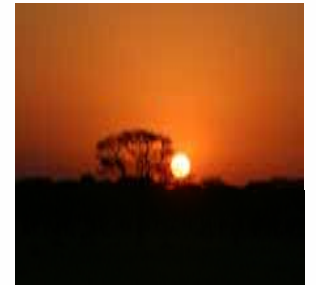


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## **Reasons for De Anza College's sustainability involvement**

- **Obligation of faculty, staff, administrators and students in the decision-making process**
- **We are leaders**
- **Responsibility to our students to teach about sustainability (and hopefully in “greener” spaces)**
- **P.G.E. studies**
- **Health, productivity of students, faculty, staff, administrators**







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# Sustainability Work: The SMP





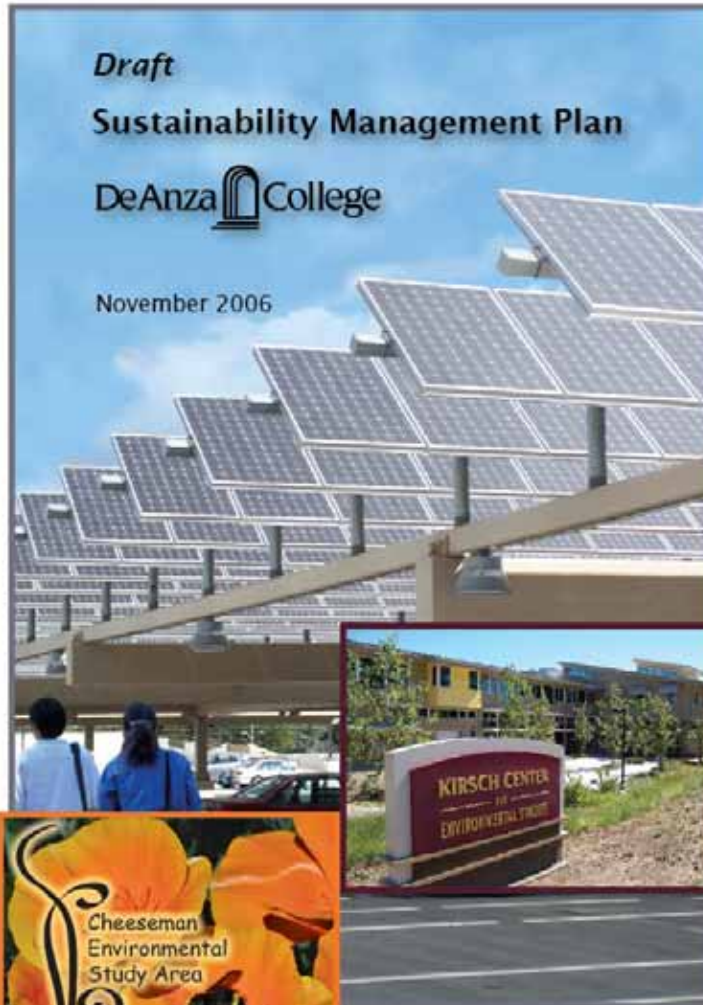
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*Draft*  
**Sustainability Management Plan**

DeAnza  College

November 2006



21250 Stevens Creek Boulevard  
Cupertino, California 95014  
[www.deanza.edu/ceag](http://www.deanza.edu/ceag)



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# What is the SMP and why is it important to De Anza College?





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# **SMP: An Environmental Management System and Beyond**

- **Development, implementation and management of environmental policy, impacts, and aspects**
- **Legal and other requirements—Hazmat, emergency preparedness**





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# International Organization for Standardization (ISO 14001)

- **Supports environmental protection and prevention of pollution in balance with socio-economic needs**
- **Certification/registration**
- **Going beyond compliance**
  - **Plan: objectives**
  - **Do: implement processes**
  - **Check: monitor, measure and report**
  - **Act: continually improve performance**





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## Policy Preceded the SMP:

- DA embraces and fosters sustainability as a core value... responsibility...every action and decision embodies environmental stewardship, social equity and citizenship, and financial responsibility:
- Environmental stewardship/literacy across the curriculum, culture of responsibility
- Understand social, cultural, and biological relationships
- Design and construct green building materials
- All are community leaders through environmental, social and financial decision-making
- Engage community in dialogue, sharing insights/models of responsibility
- Achieve legal compliance through best practices
- Use vendors that demonstrate their commitment to sustainability.
- Develop administrative and training procedures
- Regularly measure/assess performance as stewards



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## SMP: Six areas of concentration

- Green Building Construction and Renovation
- Community and Civic Engagement
- Hazardous and Solid Waste Reduction and Control
- Energy Conservation, Efficiency and CO2 Reduction
- Water Use Reduction and Control
- Green Purchasing and Procurement Controls in the College Supply Chain
- Ecologically Responsible Landscaping, Installation and Maintenance





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## Text from SMP:

- Sustainability considers our impact not just on air, land and water, but includes our impact on community vibrancy, environmental stewardship, social equity and financial responsibility.





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## Text from SMP:

- Throughout the country and globally, institutions of higher education, municipalities and companies are designing environmental/sustainability management plans to improve their environmental compliance/stewardship, enhance social equity and responsible business practices, and enhance long-term financial planning. **However, no community college in the nation has yet grasped the opportunity to use either type of plan to achieve these kinds of collegiate and community benefits.**



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## Text from SMP:

- Policy and SMP processes and procedures will involve all members of the college community in activities intended to drive better decision-making in support of improvements in environmental stewardship, social equity, and financial responsibility.





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## Text from SMP:

- The application of the policy and plan is fully supported, and will be implemented through the De Anza College Strategic and Facilities Master plans.
- The SMP is being incorporated in appropriate ways into the community engagement initiative and elements of the Strategic Plan.





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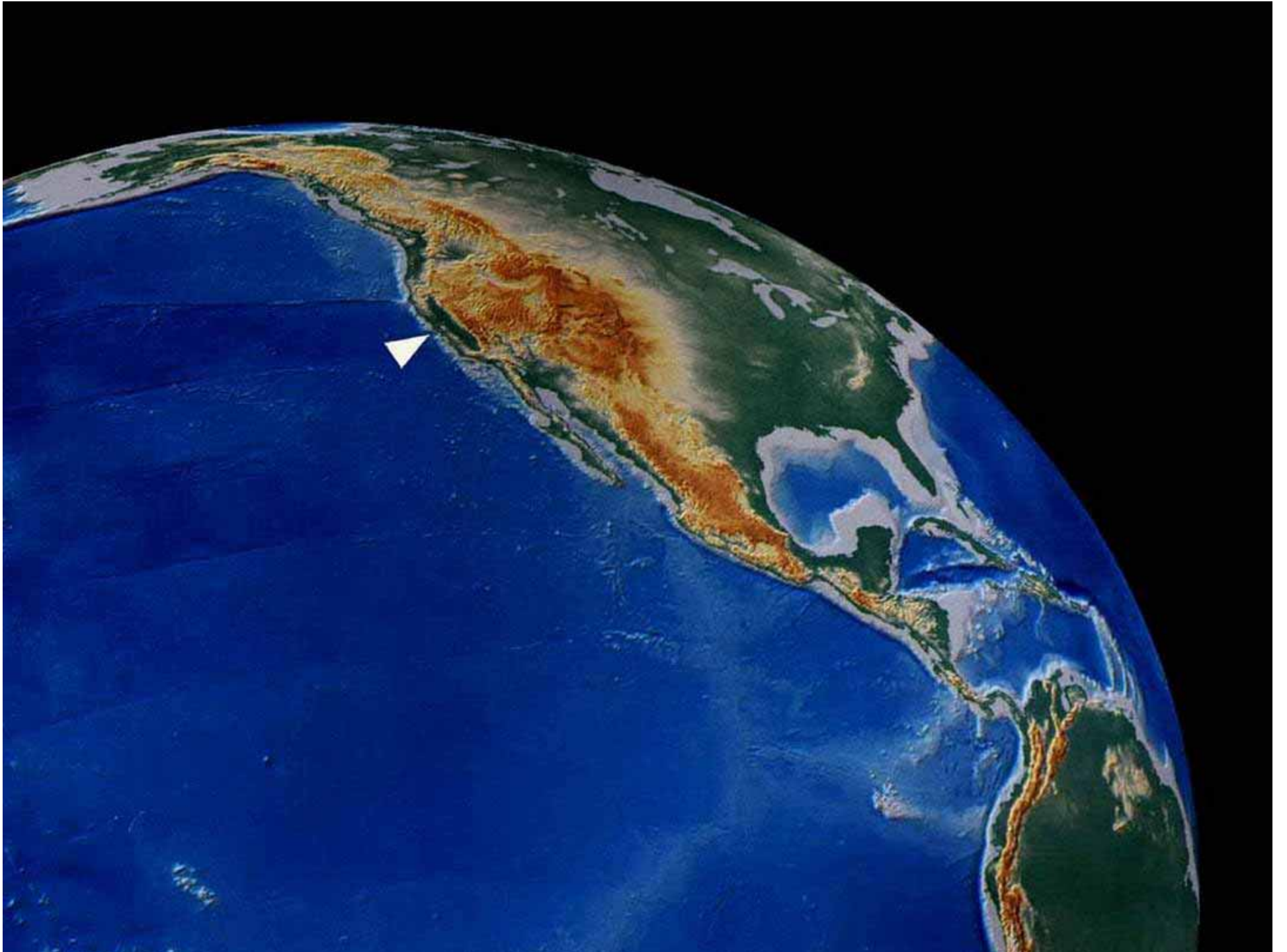
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# Sustainability Work at the KCES









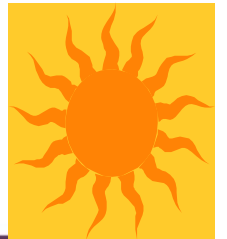


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## E. O. WILSON QUOTE:

- **“Earth, unlike the other solar planets, is not in physical equilibrium. It depends on its living shell to create the special conditions on which life is sustainable. The soil, water, and atmosphere of its surface have evolved over hundreds of millions of years to their present condition...a stupendously complex layer of living creatures...”**





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**Thank you for your interest!**

