



*Inspiring young people to think about the world,
their relationship to it, and their ability to
influence it in an entirely new way.*

Jaimie P. Cloud, President
www.cloudinstitute.org



What if...

we design schools
around how students learn
for
the future we want?



What kind of future do we want?

What does education
have to do with it?



Education for Sustainability (EfS)





The Impact of EfS

Duffin, 2006; AED, 2007; Becker-Klein et al, 2008 Sobel, 2008; Department for Children, Schools and Families, 2010; Ofsted, 2009; Gayford, 2009; Barrat-Hacking et al, 2010; PEER Associates, 2010

Education for Sustainability has multiple, positive effects on student achievement, school culture, community vitality, and ecological integrity.

Dear Mom, Dad, Ethan and Dylan,

I am writing to you about something we are learning in school. It is called Sustainability and it means when people get what they want without trashing the world so animals and other people can get what they want and need.



© 2011



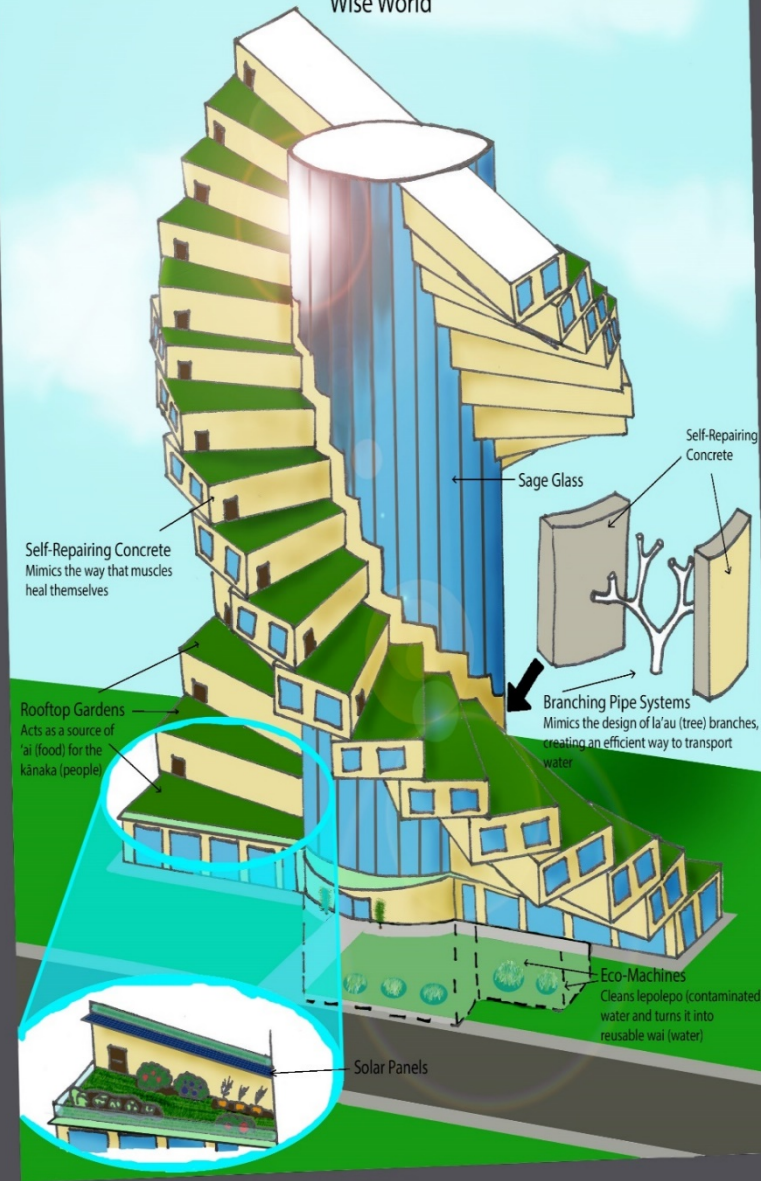
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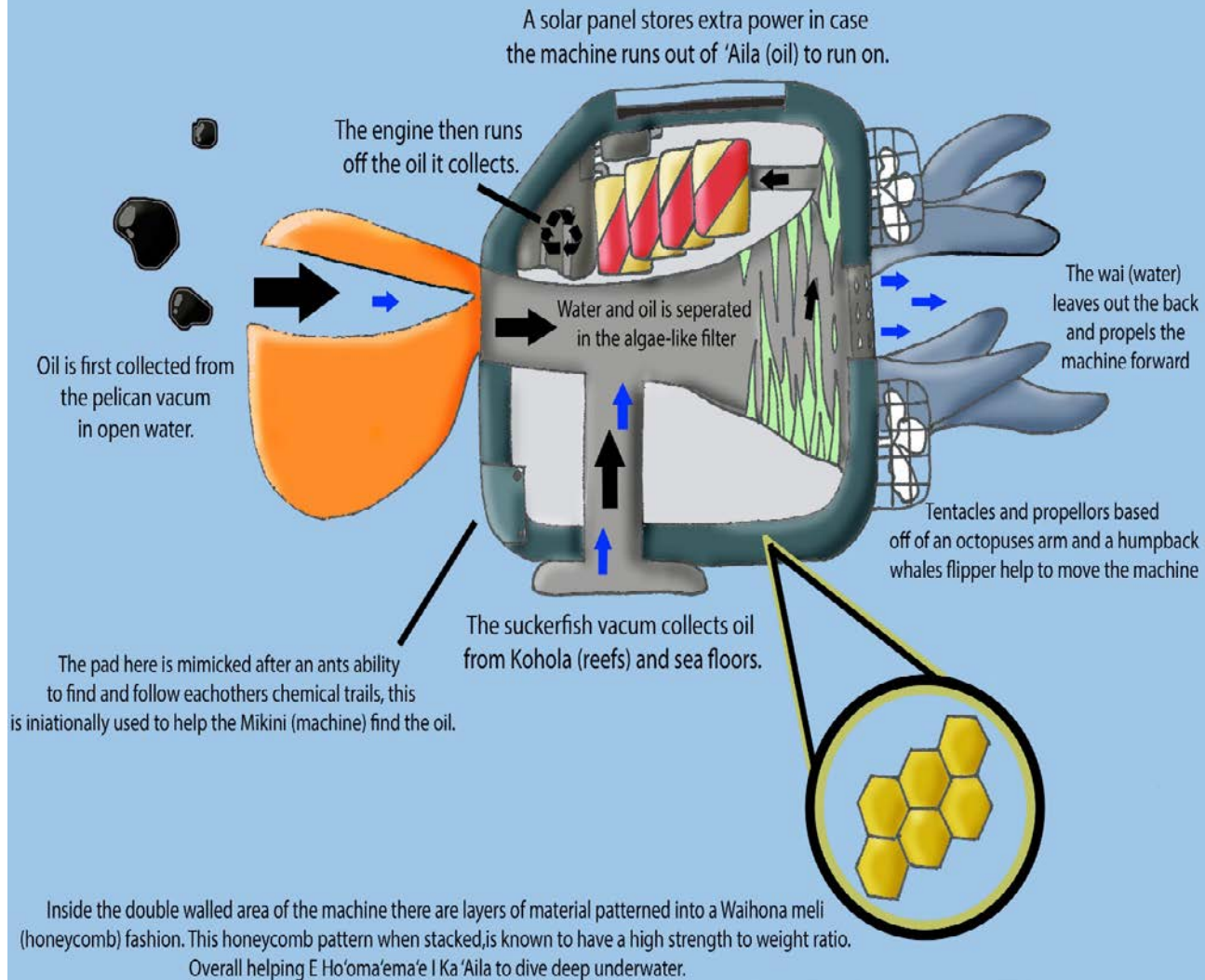


Honua 'Ike Loa

Wise World



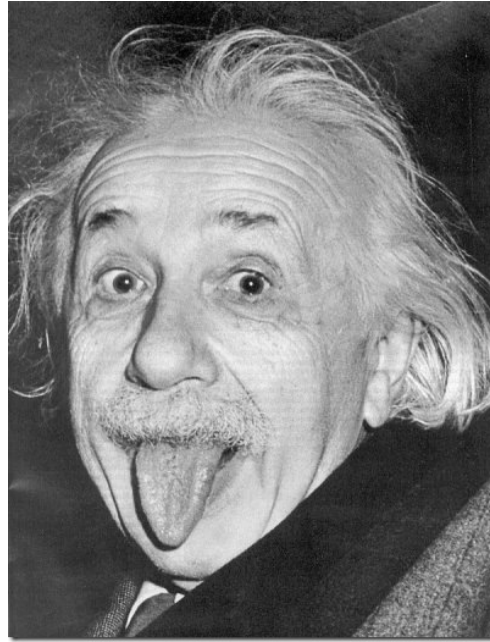
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**“All systems
are perfectly designed
to get the results they get.”**

(Richmond)





**It all begins
with a change in thinking**

**“Creativity
(the generation of new forms)
is a key property of all living systems
and contributes to
nature’s inherent ability
to sustain life.”**

Fritjof Capra 2009



What is going on Nationally? Globally?

Benchmarks

2040 Plan

State Initiatives

Green Jobs

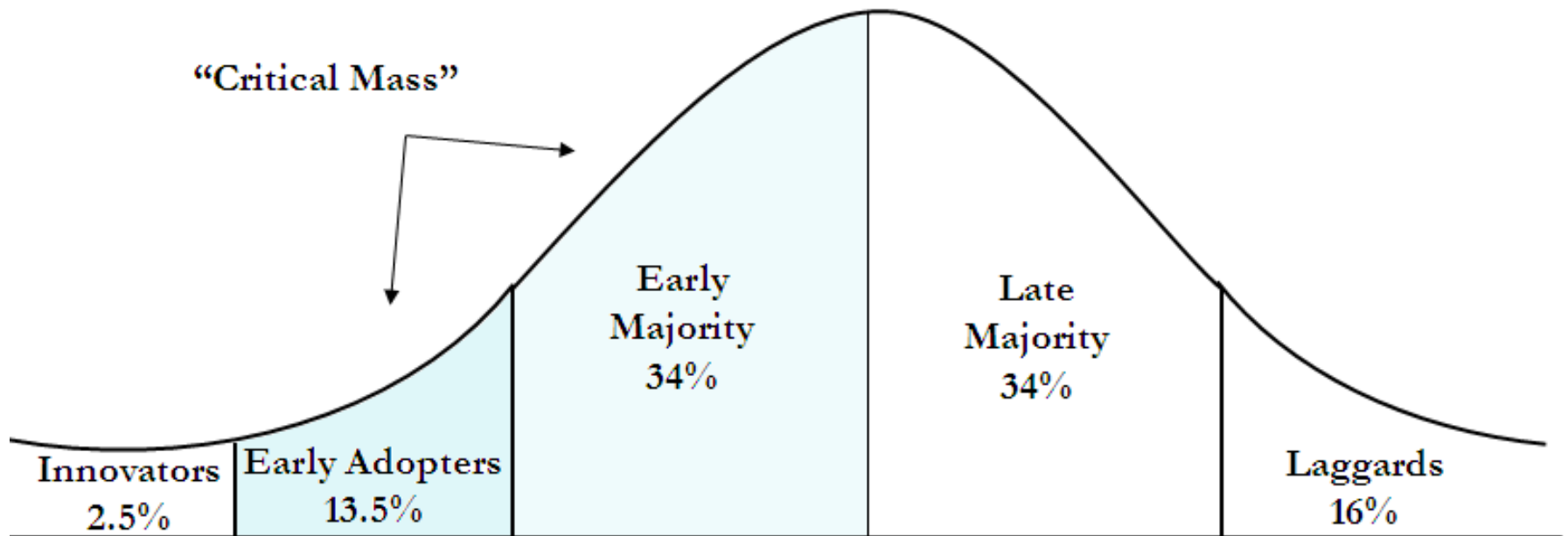
Schools of Education

Ministries of Education

Sustainable Business Development



Innovation Adoption Curve



©2006 The Natural Step

Where is your school on the *Stages of Change* continuum?

- Pre-Contemplation/Disinterest
- Contemplation/Deliberation
- Preparation/Planning and Design
- Actions are being taken/changes are happening (curriculum, bldg, food...)
- Changes are maintained over time and EfS feels like the new normal

The Cloud Institute at Work

Awareness Skill Development Design Leadership

- **Consulting and Coaching Services**
 - Curriculum Design & Mapping
 - Gap/Strength Assessment & Analysis
 - Organizational Learning & Change
 - Leadership Development
- **Curriculum Materials**
 - Units of Study
 - Full Courses of Study
 - Assessment Tools
- **Professional Development**
- **Research and Development**



Sustainability in the School of Education



TCNJ is a state college with 6600 undergrads and 1000 grad students. Approximately 1/4 of students are in education related programs.



What We Knew

- Few undergraduate teacher prep programs directly geared toward Environmental Sustainability Education
 - Environmental Science
 - Environmental Studies
 - Environmental Policy
- Efforts at the state and national levels to support environmental education
- TCNJ has an “Environmental Studies” minor, but no education majors participate

In NJ

Sustainable Jersey is a certification program for municipalities in New Jersey that want to go green, save money and take steps to sustain their quality of life over the long term.

Launched in 2009, it **provides tools, training and financial incentives to support and reward communities as they pursue sustainability programs.**






A BRIGHTER
FUTURE



- Voluntary certification program for schools and to include curricular and non-curricular actions to teach for sustainability
- Includes guidance, support, and financial incentives for participating schools
- This creates a need for teachers prepared to teach for sustainability



THE
CLOUD
INSTITUTE FOR
SUSTAINABILITY
EDUCATION

- NJ School Boards is working with the Cloud Institute
- Jaimie Cloud provided PD for our ad hoc advisory committee

Option in Sustainability

TCNJ education majors can choose dedicated sections of certain required courses to prepare for a “specialty” in Educating for Sustainability.

- Field experiences and student-teaching are conducted with ‘green teachers’ at “green schools.”



Development of the Minor

- Pre-service and practicing teachers urged us to ground our minor in teaching and learning
- 3 “core” courses
- 2 enrichment courses
 - 1 in the natural or physical sciences
 - 1 in the social sciences, arts, or humanities
- Culminating project

Environmental Sustainability in Education: An Introduction

- Offered for the first time in Spring 2015
- Provides a broad scope of what environmental sustainability looks like in schools
- Included field trips, guest lectures, online and face-to-face discussions



Environmental Science for Educators

- Aligned tightly with the NGSS
- Offered for the first time Summer 2014
 - Initial data suggests students are developing pro-environmental teaching orientations
 - Blended format: online activities, face-to-face labs and lectures, field trips



Sustainability & Society

- Blended format (online and face-to-face)
- Addresses environmental sustainability in arts, humanities, and social sciences instruction





Education: Sustainability, Skills and Enrichment

Jaimie Cloud, Cloud Institute for Sustainability Education

Larry Feinsod, EdD, Executive Director, NJ School boards Association

Jeff Passe, Dean, School of Education, The College of NJ

Donna Drewes, PP/AICP, Co-Director, Sustainable Jersey and
Sustainability Institute at TCNJ



2015 NEW JERSEY SUSTAINABILITY SUMMIT



Sustainable Jersey for Schools

- Program Launch: October 2014



- As of April 16, 2015
 - 81 School Districts Registered
 - 208 Individual Schools Registered
 - 70 Schools and Districts Applied for Certification



Where are we at Now?

Schools program

- Program Enrollment
- Outreach and Training
 - Webinars on Getting Started, Creating your Green Team,
- Grants program- 3 grants cycles already announced
 - PSEG \$100,000
 - NJ Department of Health \$120,000 (due June 27)
 - New Jersey Education Association \$180,000 (due Sept.)
- Task Forces continue to work on existing and new program actions

Schools Program Partners





Your thoughts?

- Are we focusing on the right things?
- Are there new initiatives, programs or best practices we need to be integrating into the program?
- Have we focused on the right goals and indicators for “Education”

Feedback welcome-

Follow up survey & opportunity to participate in Webex call on June 17 from 11-12 am