HOLISTIC REVIEW OF SUSTAINABILITY WITHIN THE SCHOOL OF ARTS AND ARCHITECTURE

Sustainability Action Research: *Arts and Architecture Team*

TEAM INTRODUCTION

CO-LEADS

- Sam Trezona
- Madeline Zhang

MEMBERS

- Gabrielle Biederman
- Grace Choe
- Samantha Low
- AJ Rosean

STAKEHOLDER

Linda Holmes - *Director of IT & Operations*

CONTEXT

- No previous project or teams
- UCLA Sustainability Plan

04-23: Leverage UCLA's buying power to increase environmentally, economically, and socially responsible supply chains.

% Green Spend per product category within 3 FY of addition to the Guidelines
25%

% Economically and Socially Responsible Spend per product category within 5 FY of addition to the Guidelines
25%

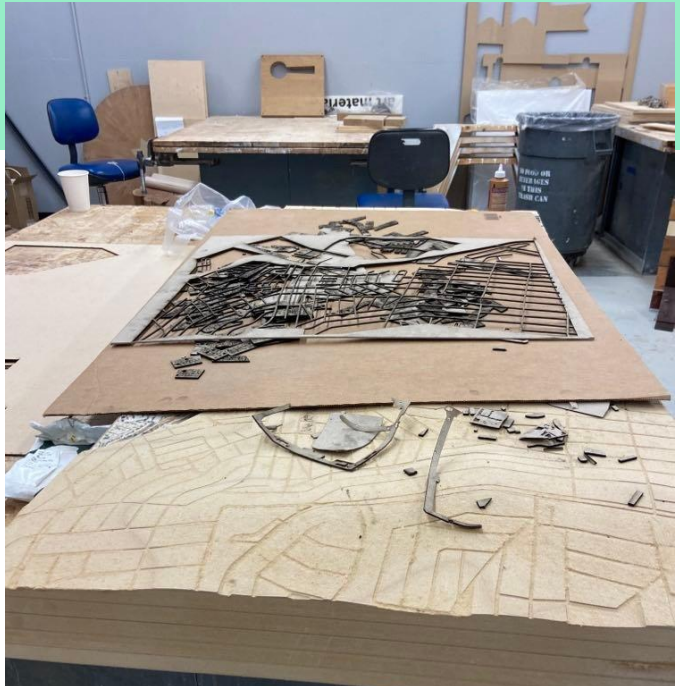
PRELIMINARY RESEARCH

Baseline Cultural Analysis

- Tours of facilities
- Informational interviews with staff + faculty

Findings

- Lack of information
- Trial & error learning process & accreditation limitations



RESEARCH QUESTIONS

QUESTION 1

What is the School of Arts and Architecture buying in all levels?

QUESTION 2

How is the School of Arts and Architecture disposing of materials and projects?

STUDENT COMPONENT

- Student Survey
  - **Anonymous Google form** w/ portable charger incentive
    - Out-of-pocket expense
    - Purchase & waste culture

- Focus Groups
  - 30 minute Zoom session
    - Life cycle of projects
    - Student reuse solutions

GENERAL STUDENT SURVEY BREAKDOWN

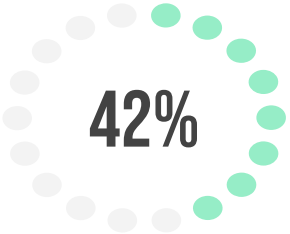
Cost
Priority Average: 1.73

Delivery Date / Material Quality
Priority Average: 2.5/2.46 respectively

Sustainability
Priority Average: 3.3

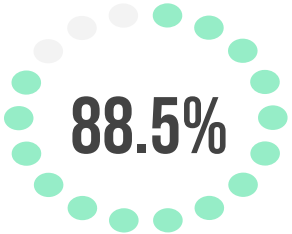
- 26 survey respondents
- Quarterly mean cost: **$294.23**

WHAT ARE STUDENTS SAYING?



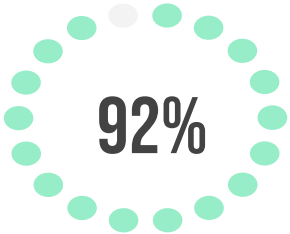
Reuse materials

Easier reuse strategies needed



Use paper

Reduce print



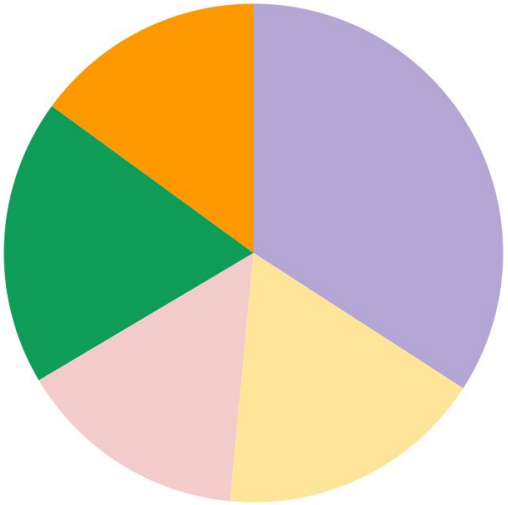
Dispose of projects

Need standardized protocol

MATERIAL WASTE

Biweekly Average Waste Disposed of Per Person

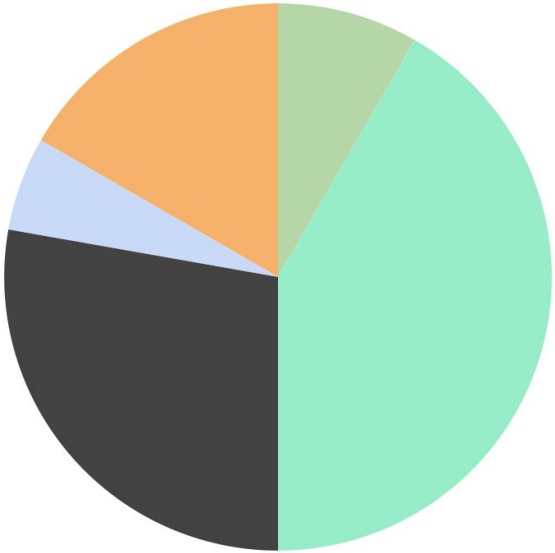
ARCHITECTURE: 14.9 LBS



ART: 13.0 LBS

- Paper/Cardboard
- Wood Scrap
- Clay
- 3D Filament
- Plastic
- Foam Core
- Metal Scrap
- Oil Paint

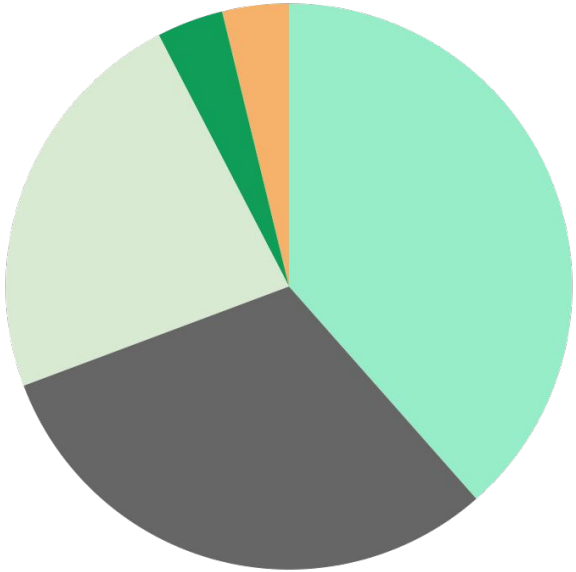
FOCUS GROUPS: DESMA 22 - FORM



TOTAL EXPENSE : $190

- Laser cutting ($75)
- Paint ($50)
- Paint Primer ($10)
- Paint Brush ($30)
- Wood ($15)

SURPLUS STOP SUPPORT



IF THIS "SURPLUS STOP" WAS IMPLEMENTED, HOW OFTEN WOULD YOU FREQUENT IT?

- Once a week (38.5%)
- Once every other week (30.8%)
- Once a month (23.1%)
- Once every quarter (3.8%)
- would not use the Surplus Stop (3.8%)

VENDOR ANALYSIS BASICS

Rubric Quantifying Sustainability

- Digestible and reusable ratings of vendors

Vendor Types

- UCLA Official - *invoices*
- Student Source - *surveys*
- Alternative Source - *A&A*

Departmental Vendor Sustainability Rubric		
Holistic Analysis	**Score:**	**Vendor**
Environmental Analysis	***0-12***	
Ethicality Analysis	***0-12***	
Economic Analysis	***0-12***	
Procurement Sustainability	***0-4***	
Results:	**0-40**	

a simplified example

THE A&A RUBRIC: RESEARCH METHODOLOGY

Sample Analysis Methodology		
Environmental Analysis	**Score:**	**Laguna Clay**
Does product deplete natural resources? (0-3)	***2 - somewhat***	**Clay requires the extraction of raw clay - but it is not an endangered resource.**
Does vendor prevent product waste? (0-3)	***2 - mostly***	**Clay is a relatively biodegradable material and this clay can be reused for extended periods of time.**
Results:	**4**	***Laguna Clay is relatively sustainable***

Research

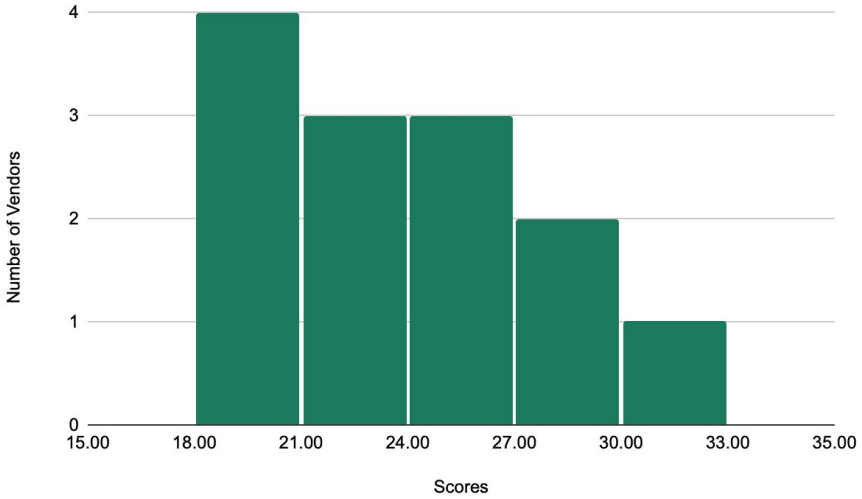
- Culmination of each team's efforts
- Information sourced via interviews, internet, etc.
- Examination based on research as to score

Vendor purchasing lists include single-use plastic violations

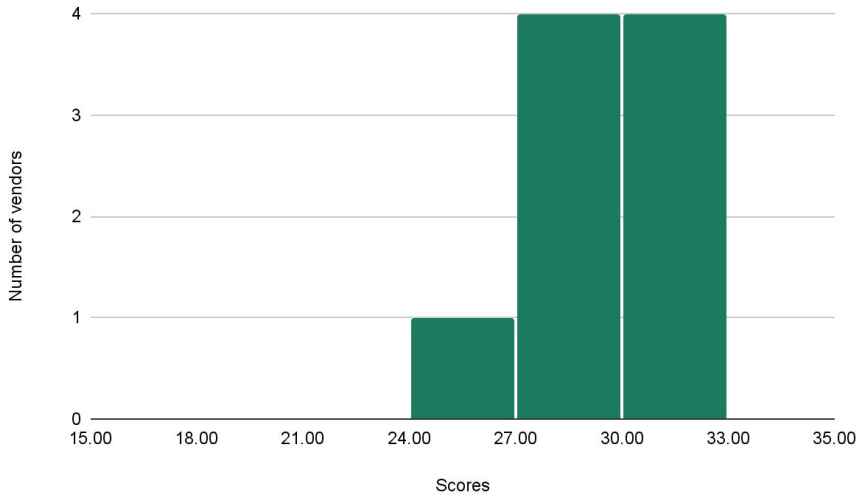
- Main Product Violations
  - Foam Core
  - 3D Filament
  - Art Supplies

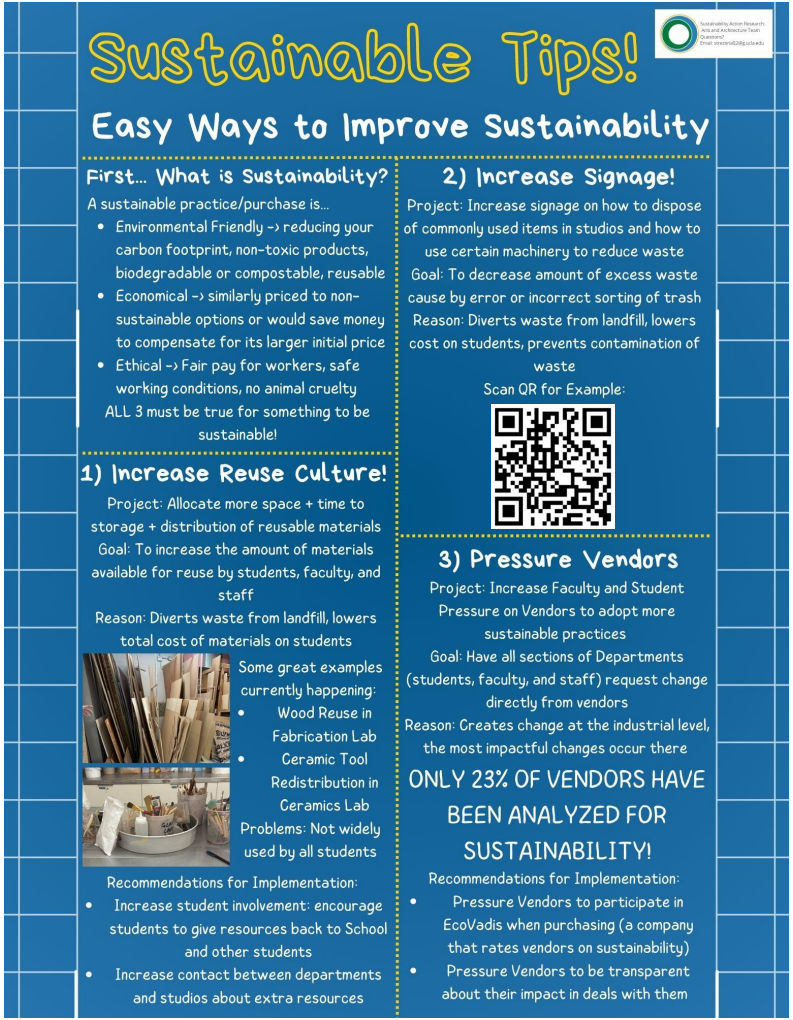
GENERAL SCORING BREAKDOWN

Overall Scores of Current Vendors



Team Vendor Suggestions





DELIVERABLES

- Infographics of Results
  - General Tips
  - Student Survey
  - Rubric
  - Summary of Findings
- Distributed via Print + Email

SUMMARY OF TEAM'S IMPACT

A

Standardized Method of Evaluating Vendors

B

Broadened and Interconnected Conversation on Sustainability

C

Total Student Cost and How to Reduce

LOOKING FORWARD: FUTURE PROJECTS

A

Creating Reuse Culture

Surplus stop implementation

B

Elimination of Single-Use Plastic Violations

C

Evaluation of E-waste

THANK YOU! QUESTIONS?

To our stakeholder: Linda Holmes
Our Advisors: Alberto Alquicira, Bonny Bentzin, Sofia Ratcovich, Liz Kennedy
All Supporting Staff + Faculty in Arts and Architecture: Valerie Green, Ed Beller, Soshi Watanabe, Eric Vrymoed, Philip Soderlind, Rayne Laborde, Else Henry, Rebeca Méndez

All students within the School who filled out our survey or gave advice!
SAR Directors and Faculty Advisors: Raquel Fox, Julia Wu, Jeff Van, Cully Nordby, Carl Maida
TGIF for funding our Survey + Focus Groups