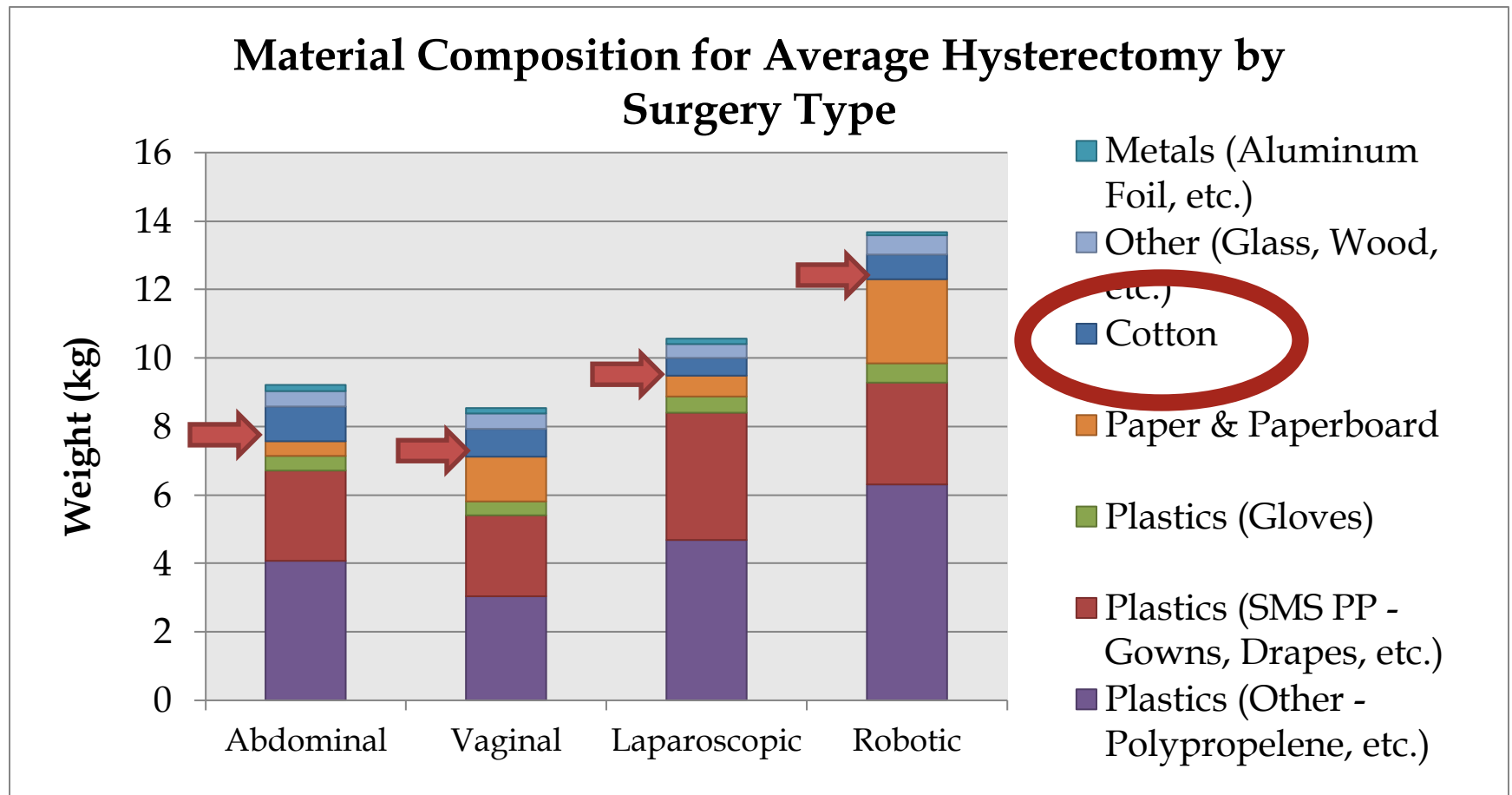


LCA of Hysterectomies at Magee-Womens Hospital of UPMC

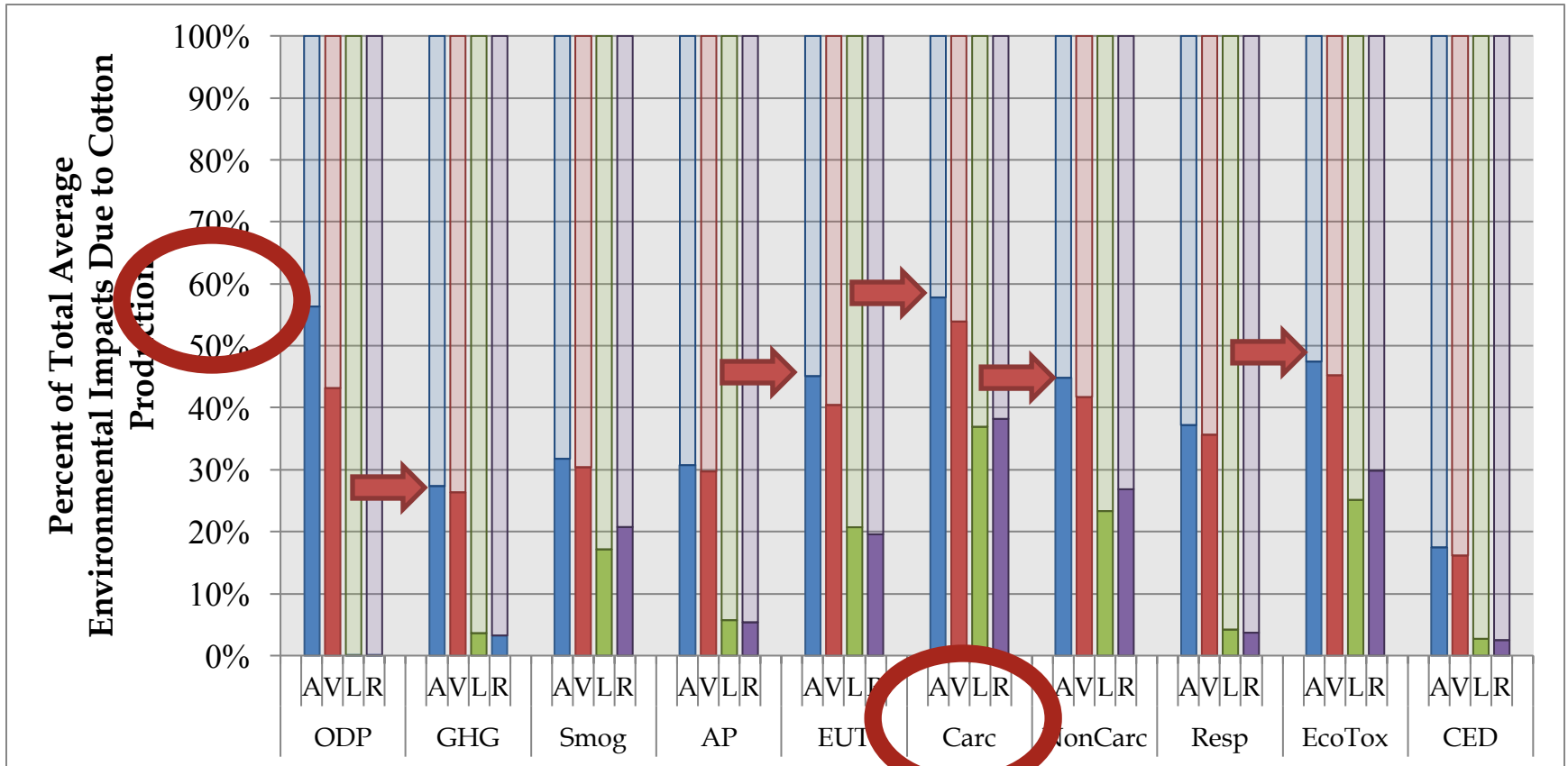


Study conducted by Thiel, Bilec, Landis, Woods, Eckelman, Sherman

Composition of Municipal Solid Waste from Hysterectomies



Environmental Impacts of Hysterectomies



Traditional Cotton Growing

- Organophosphates (bad for human central nervous system) used to kill all organisms
 - takes 5 years for earthworms to return to soil afterward
- Artificial fertilizers applied (to maintain soil stability)
- Cotton = **2.5%** of cultivated land
15% of chemical insecticides in agriculture
10% of pesticides



Target: Cotton



- Make sure they are laundered
- Work with suppliers to find alternatives
 - Organic cotton
 - Other fibers
 - Etc.

To learn how to conduct a Life Cycle Assessment, sign up for:

**CEE 1209/2209: INTRODUCTION TO LIFE
CYCLE ASSESSMENT
(FALL SEMESTERS)**



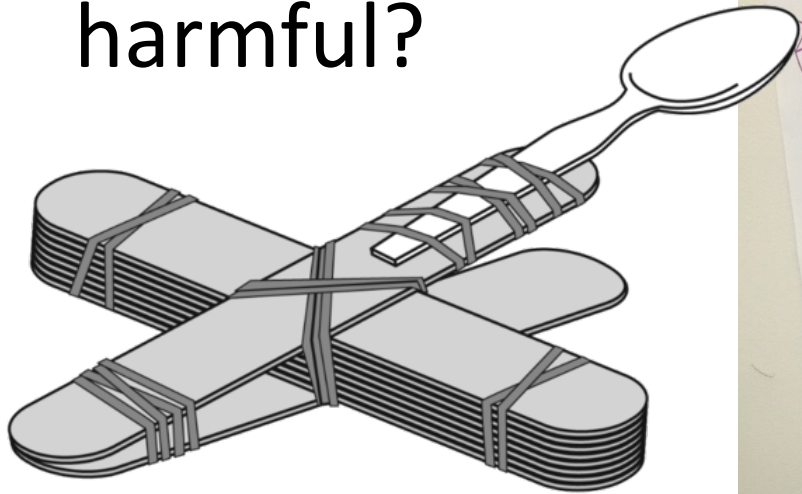
Back to

WHAT WE DID!

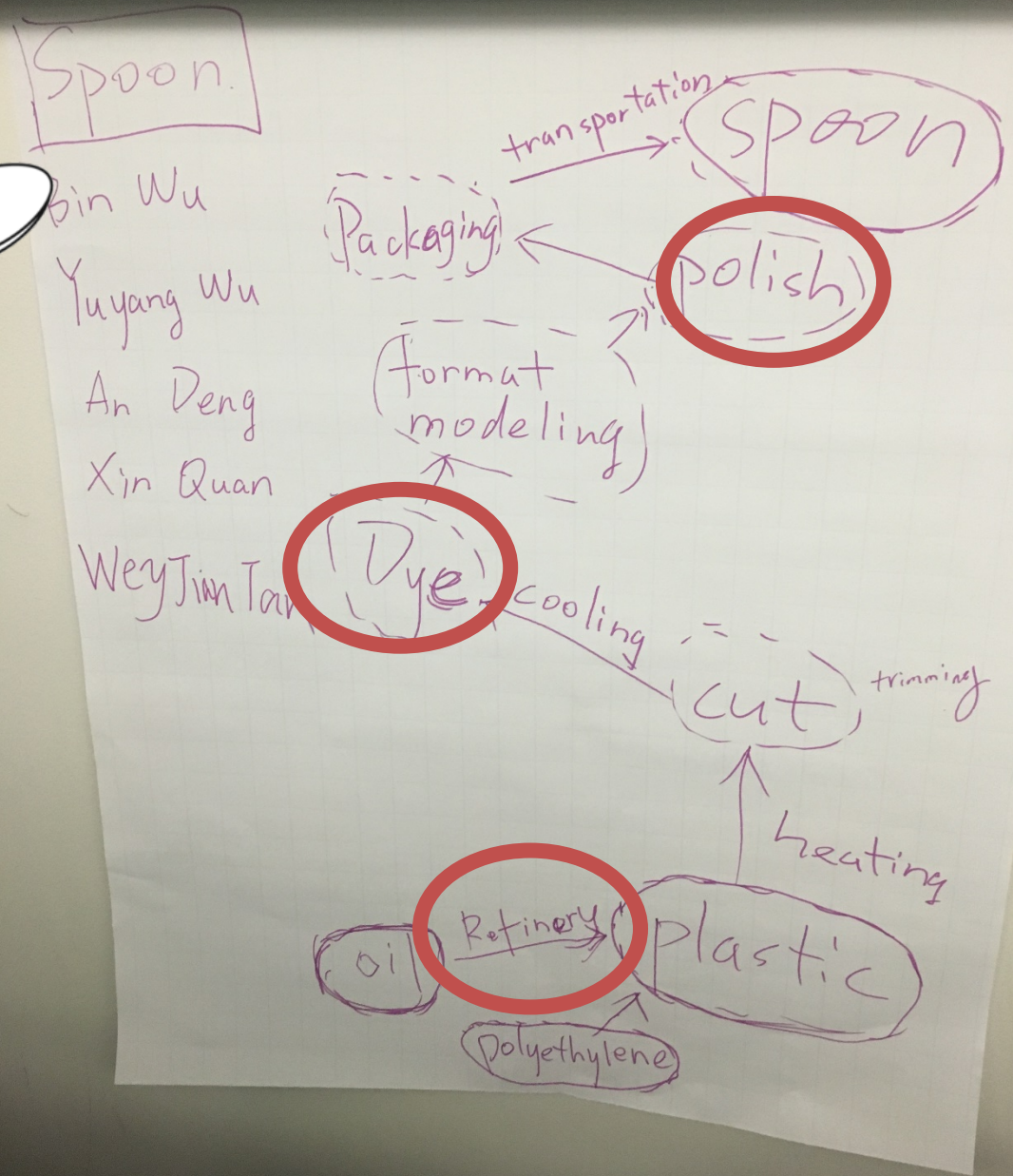
Material Selection affects

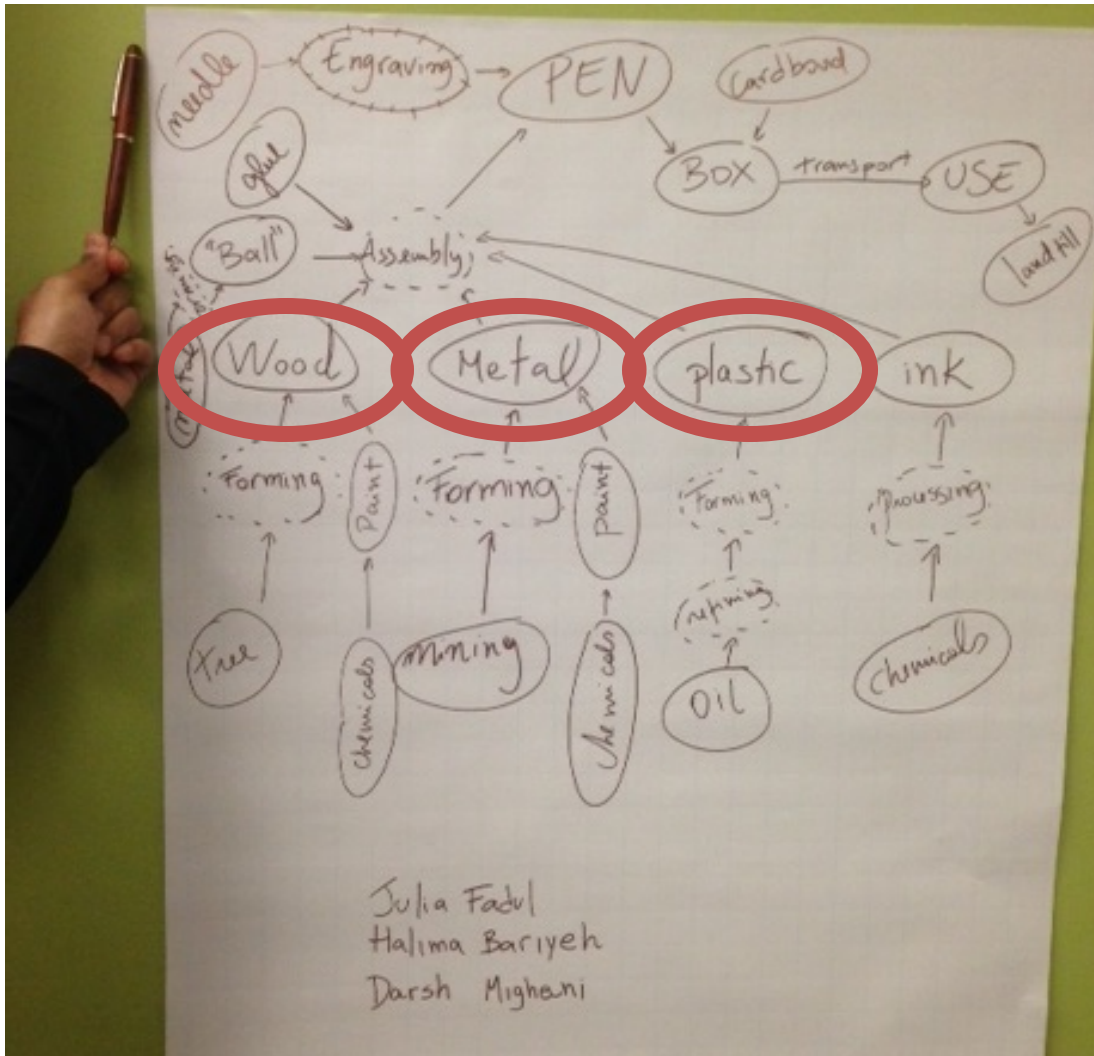
PRODUCTION OF THE PRODUCT

Are the materials toxic/harmful?



Are processes needed to form the materials toxic?





Does the product utilize wasted resources?

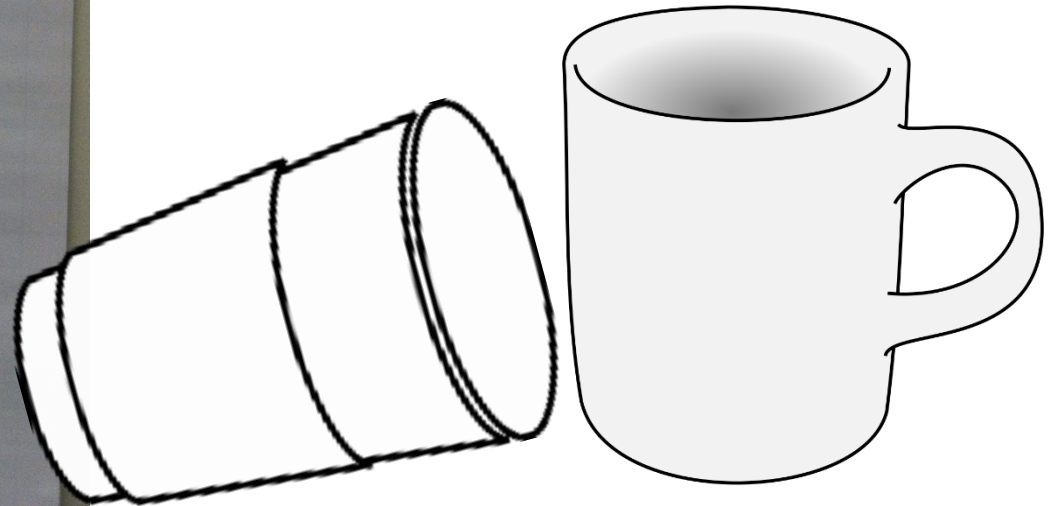
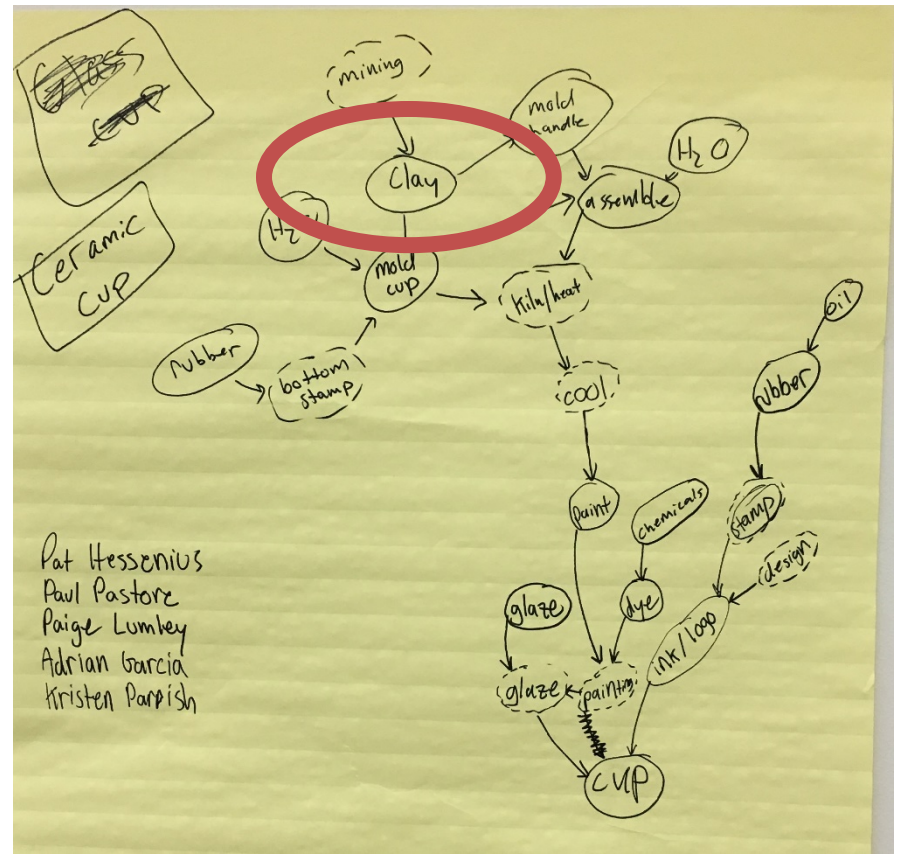
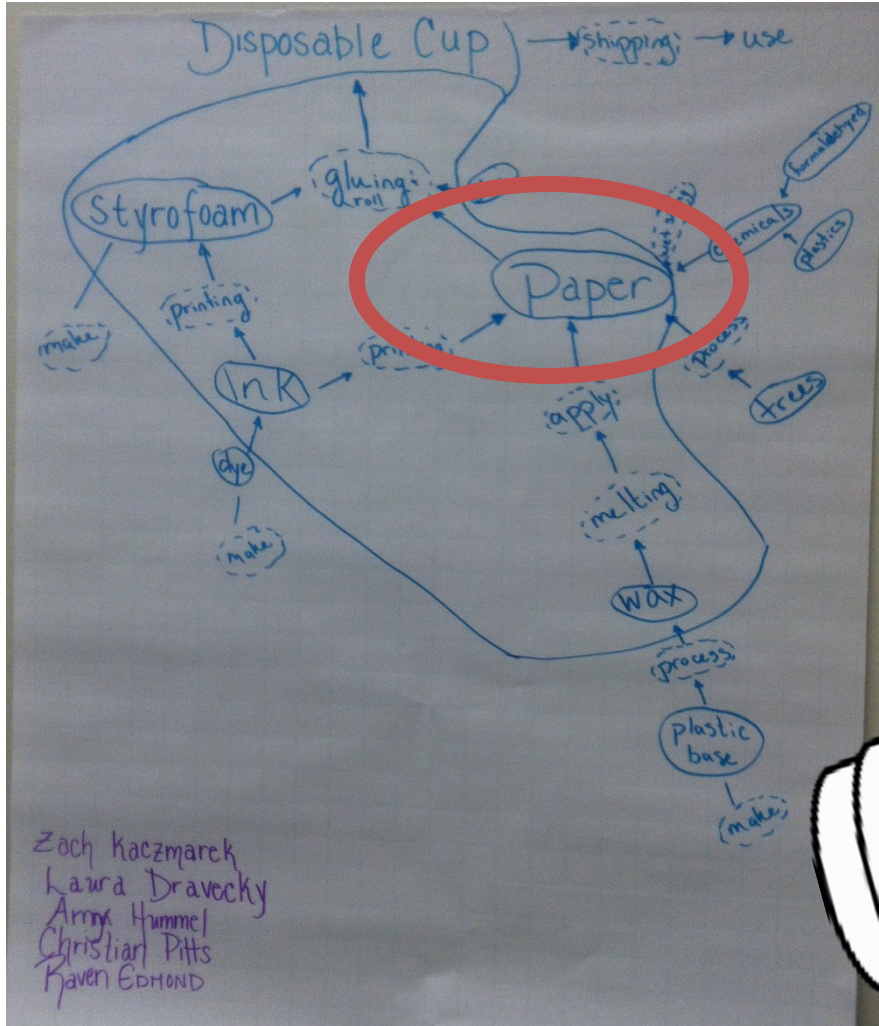
Does the product utilize renewable resources?



Material Selection affects

USE OF THE PRODUCT

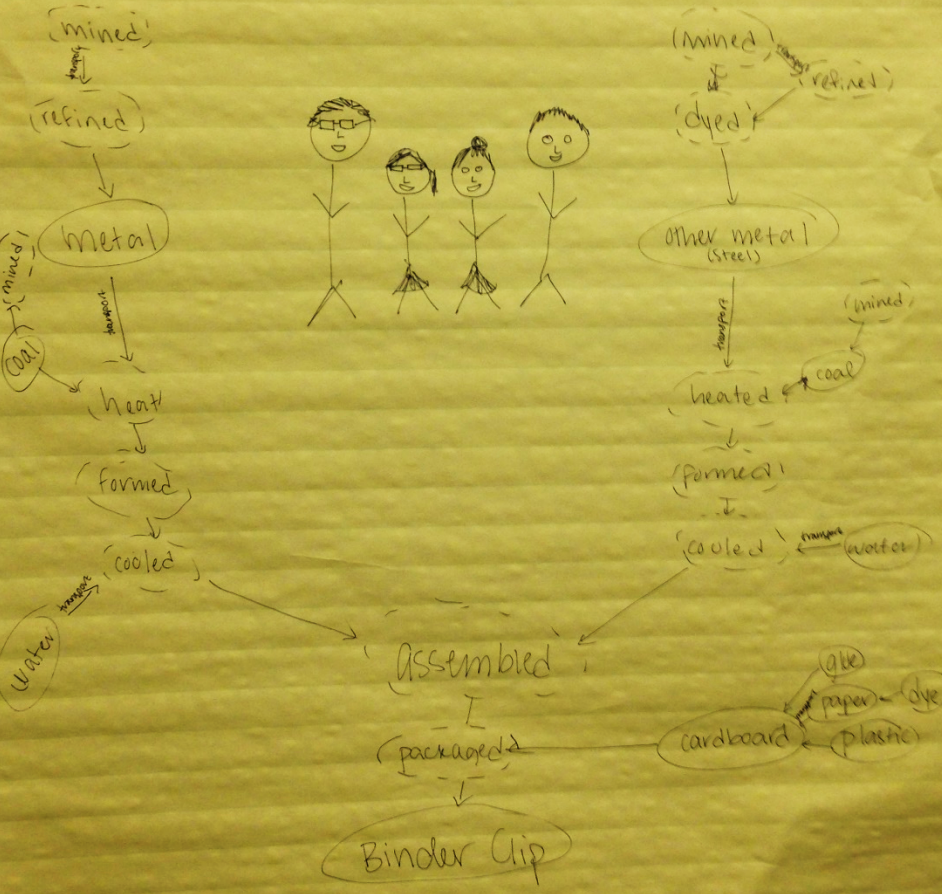
How durable is the product? Can people reuse it?



Material Selection affects

DISPOSAL (EOL) OF THE PRODUCT

Jayne Veronica James Tom



Is the product easy to recycle or reuse at the end of its life?





How will people dispose of it?

What can we do differently?
(as engineers)



Material
Selection

Function

Focus on Function First

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LC Thinking Exercise: Critical Viewing

