## PROCESS JOURNAL FOR PRODUCT DESIGN II

PROJECT: DESIGN AN ACCESSORY PRODUCT

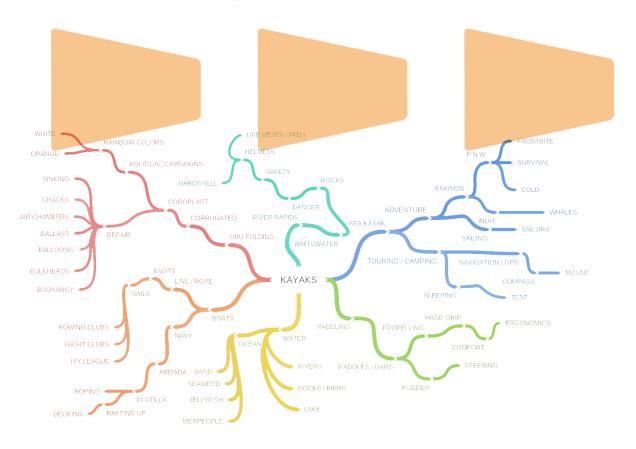
**CLIENT: ORU KAYAK** 

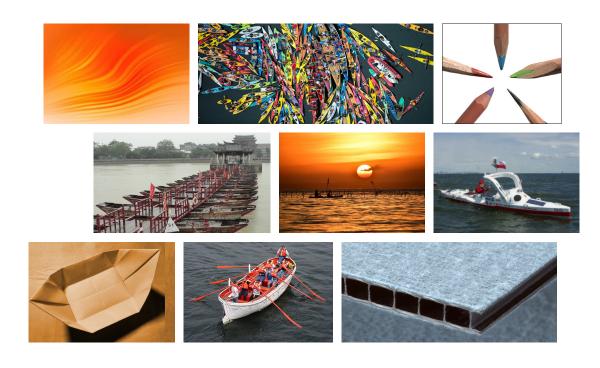
**MANAGER: TED RENTERIA** 

**DESIGNER: MICHAEL WEBBER** 

TIME FRAME: FEBRUARY. 6<sup>TH</sup> - MAY 21<sup>ST</sup>, 2020







### IDEATION BRAINSTORMING

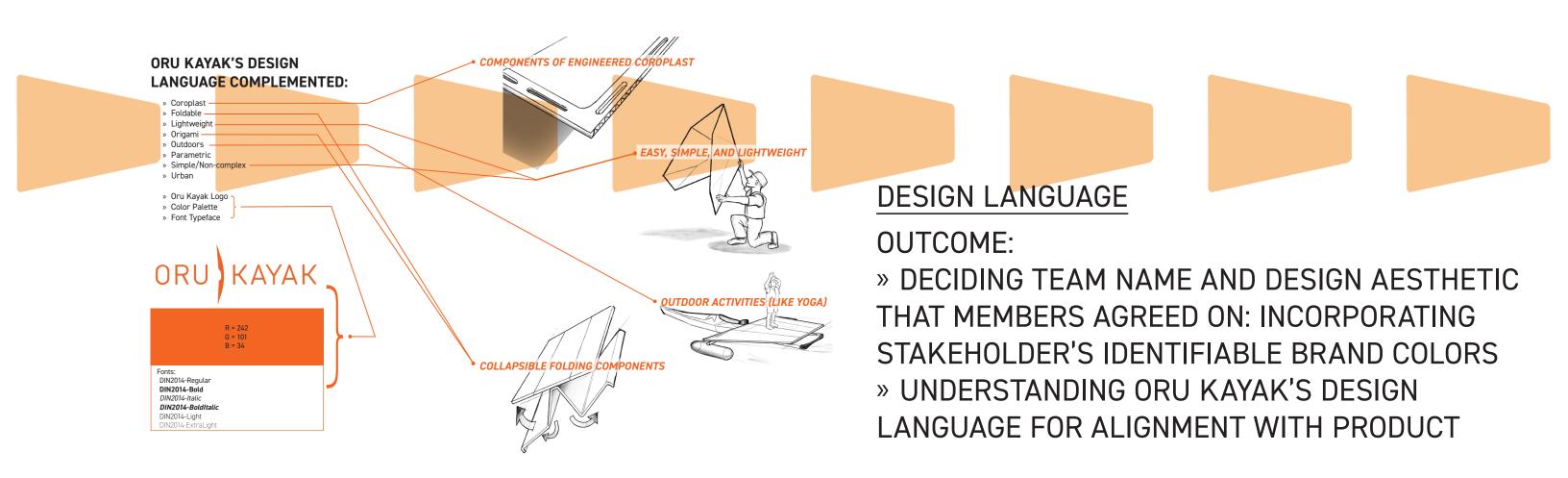
- » TEAM WHALEBONE GENERATED COPIOUS IDEAS THROUGH GROUP BRAINSTORMING
- » INDEPENDENTLY, THE MIND MAPPING EXERCISE PRODUCED A NARROWING OF CONCEPTS
- » WHILE THE MOOD BOARD AIDED IN VISUAL AND EMOTIONAL ALIGNMENT







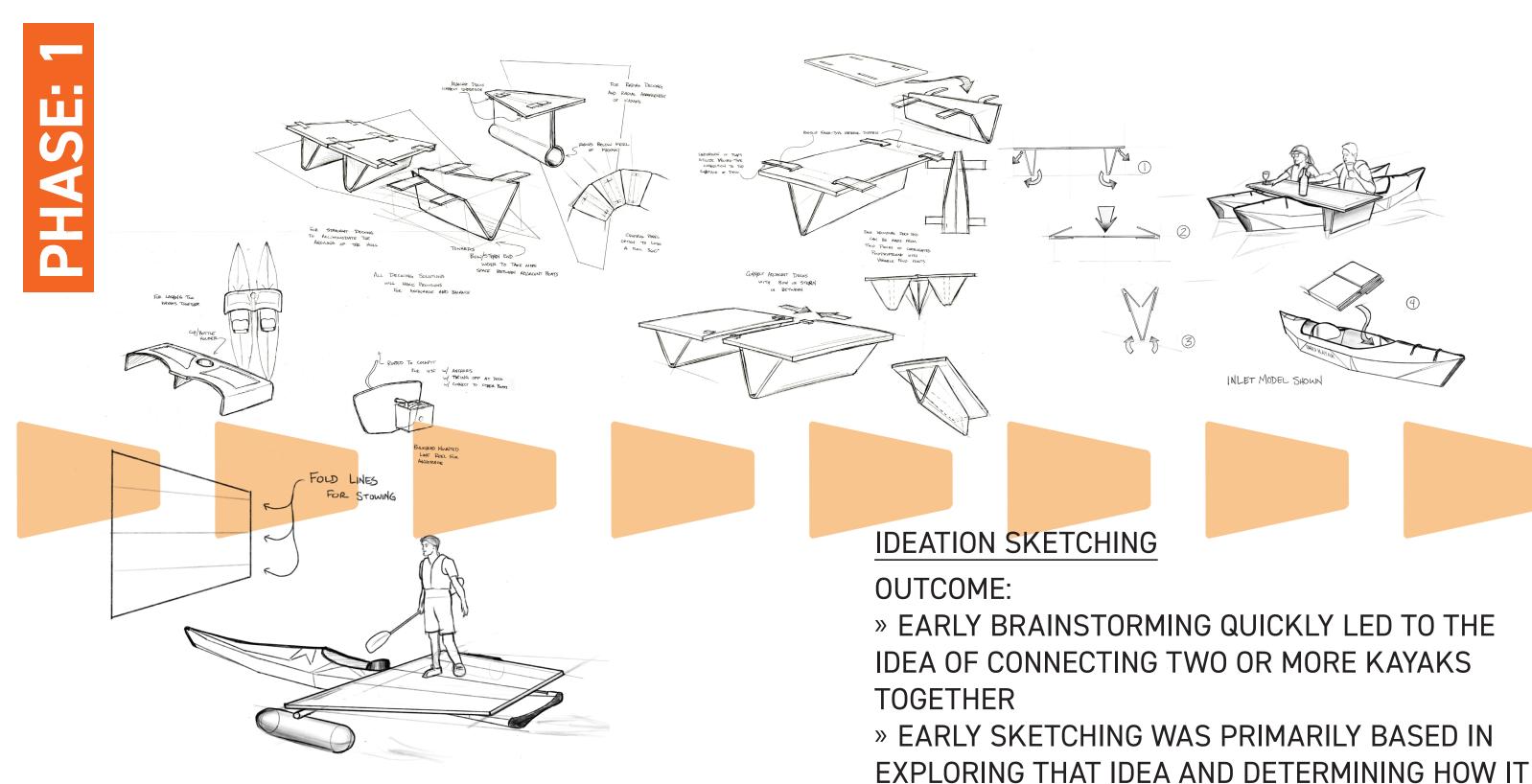










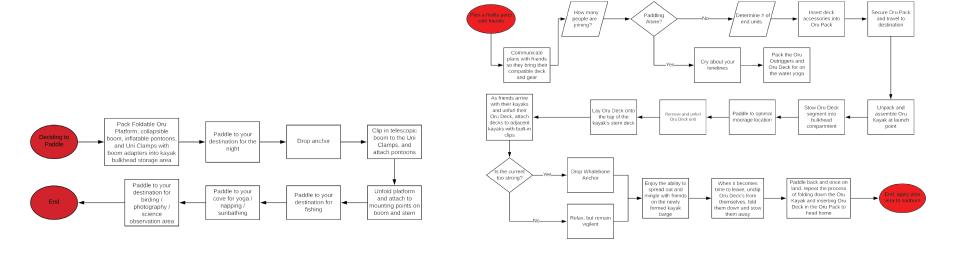


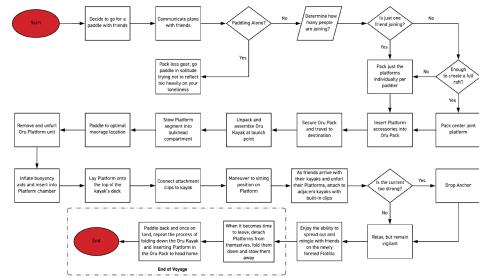
# **SKETCHES**

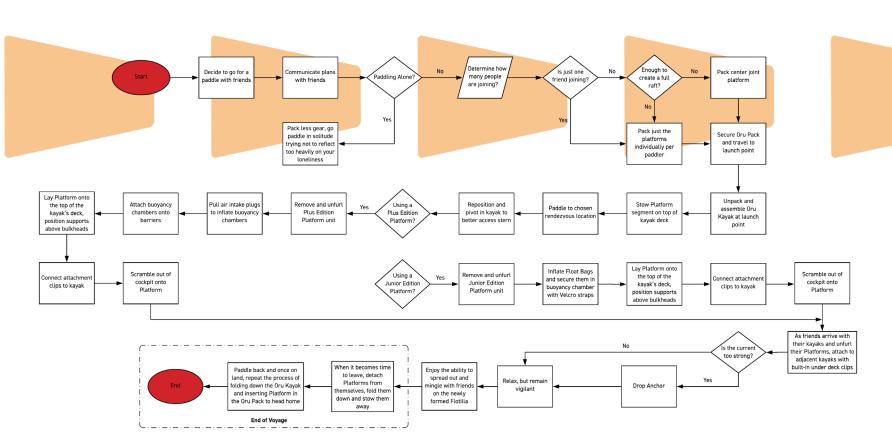


MIGHT WORK









FOCUSED INVESTIGATION

- » DEVELOPING TASK ANALYSIS FLOW CHARTS RESULTED IN A REFINEMENT OF IDEAS
- » THE FURTHER THE TASK WAS ANALYZED
  THE FURTHER REFINED IT BECAME WHICH
  CONTRIBUTED TO DESIGN DETAILS EXPANDING





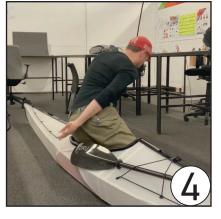












### CONFIRMING INVESTIGATION

### **OUTCOME:**

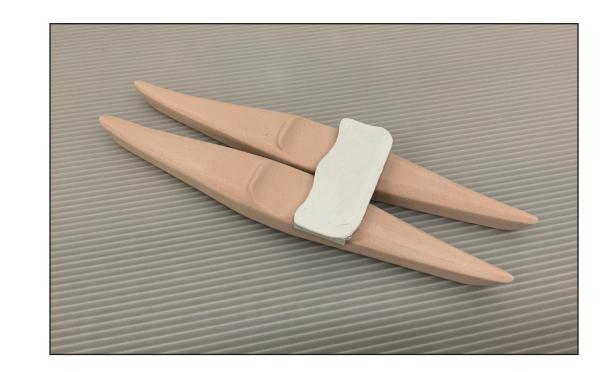
- » PRIMARILY BASED ONLINE, DETERMINING USAGE OF BASE PRODUCT (THE KAYAK) AND INTEREST OF CONSUMERS IN GROUP ACTIVITIES
- » SIMULATING PHYSICALLY REPOSITIONING IN KAYAK PROVED OPTIMISTIC
- » INABILITY TO TEST ON THE WATER WAS DISCOURAGING

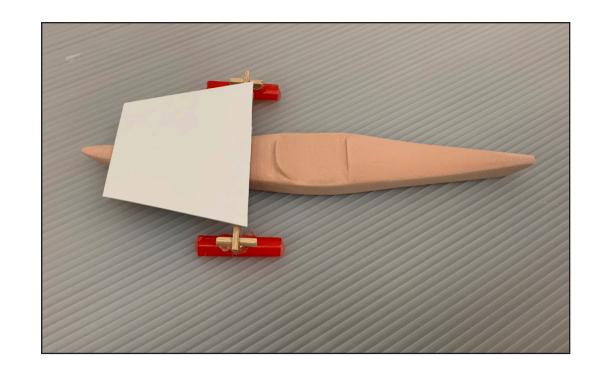


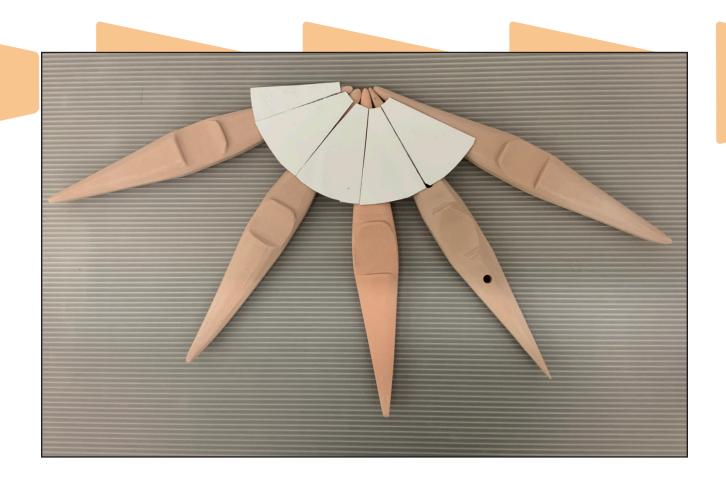




7 Muscles You Didn't Know Are Used in Kayaking - Whale Nation







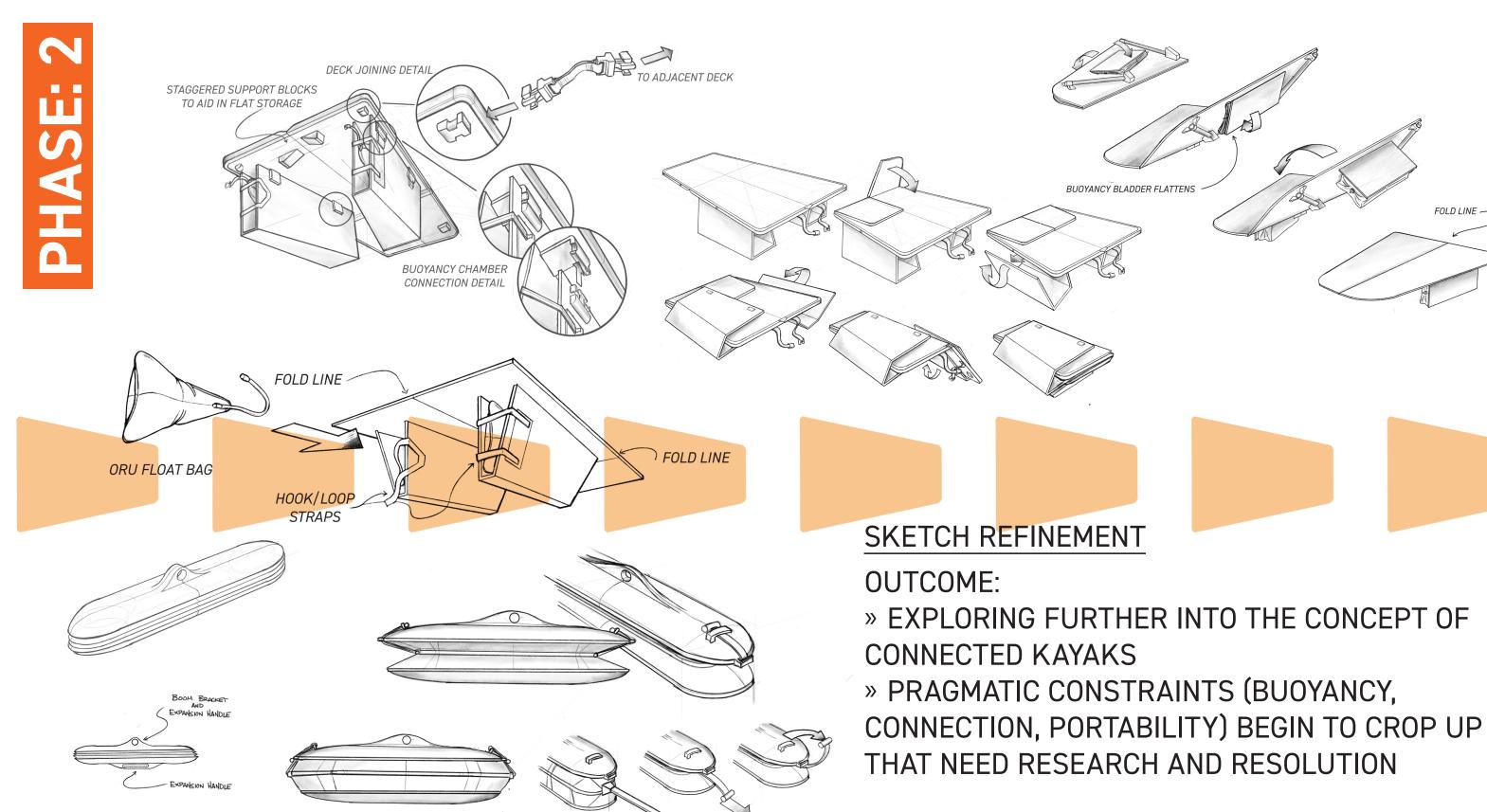
### PHYSICAL MODELING

- » EARLY MODELS WERE ROUGH CONCEPTS FOR THREE-DIMENSIONAL VISUALIZATION
- » LARGER SCALED REPRESENTATIONS EVENTUALLY PROVED HELPFUL BUT WERE SUPPLANTED BY DIGITAL VERSIONS



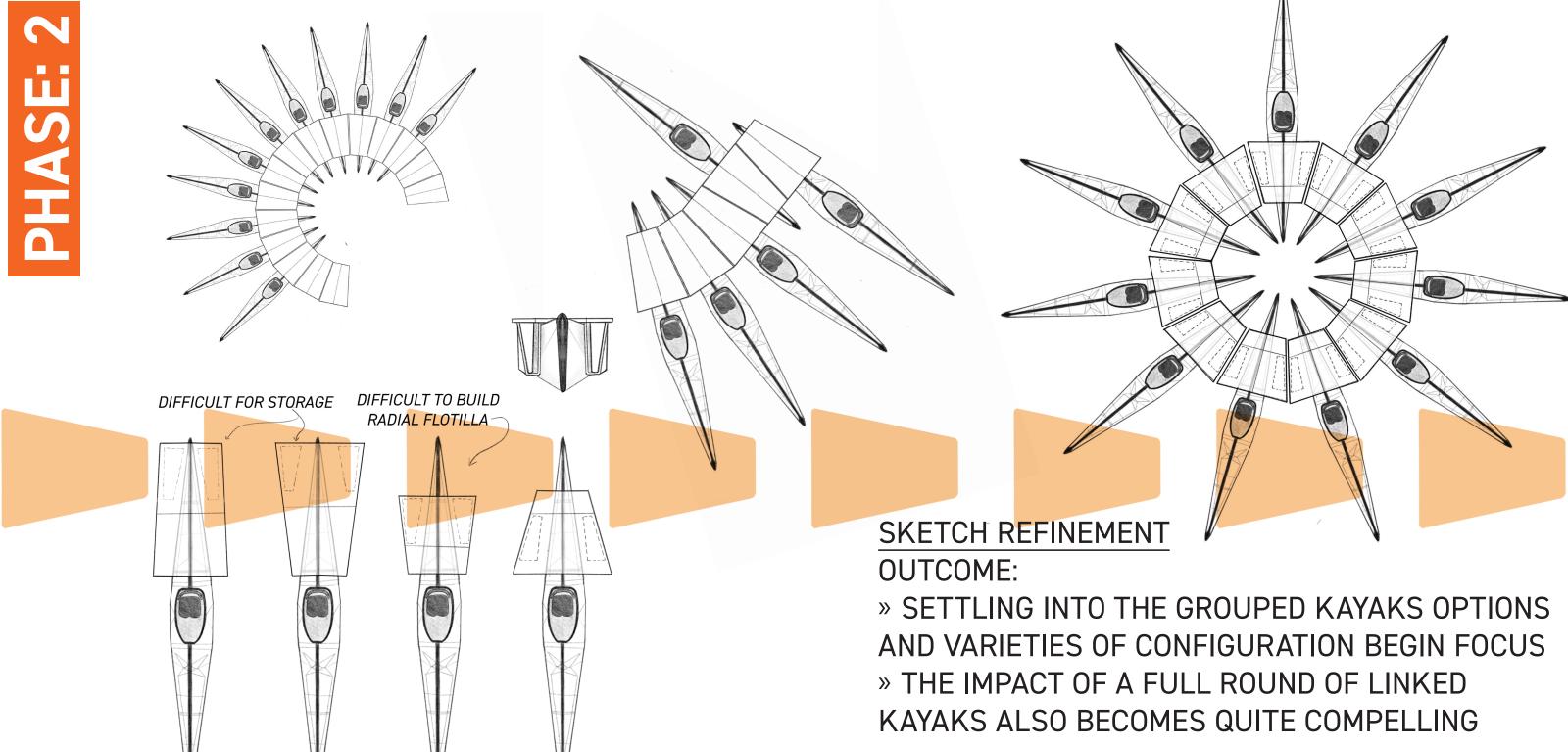






SKETCHES

**FOLD LINE** 

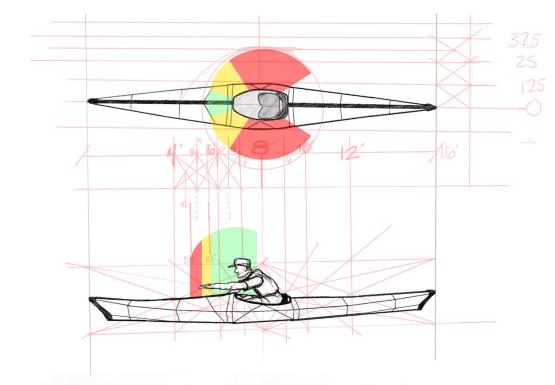


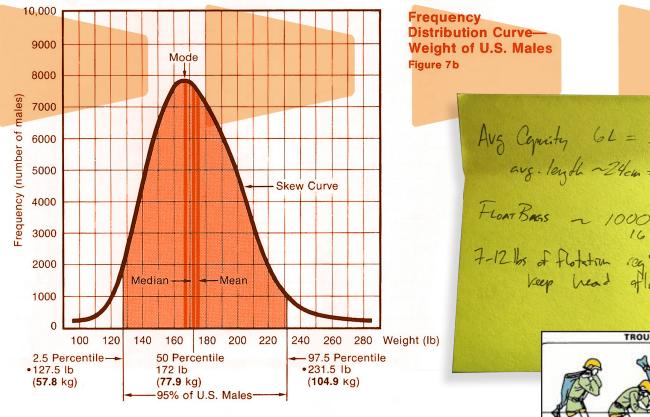


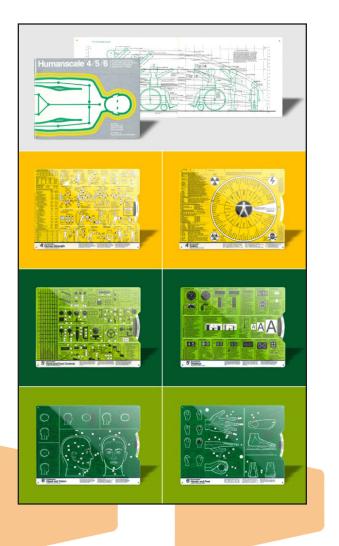


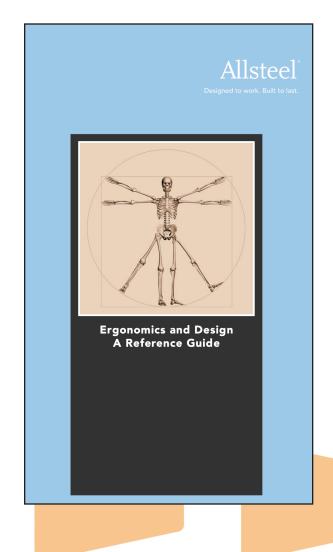


# PHASE: 2









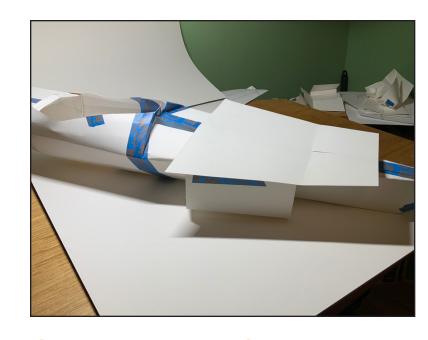
### **HUMAN FACTORS**

- » DELVED INTO VARIOUS RESOURCES AND DIRECTIONS ON HOW THE HUMAN ELEMENT WILL INFLUENCE THE PRODUCT
- » WITH REAL-WORLD TESTING THESE FACTORS CAN BE MORE RELIABLY RESEARCHED

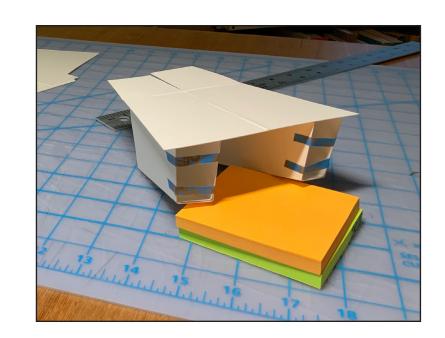


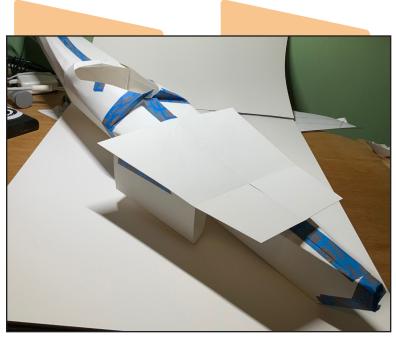












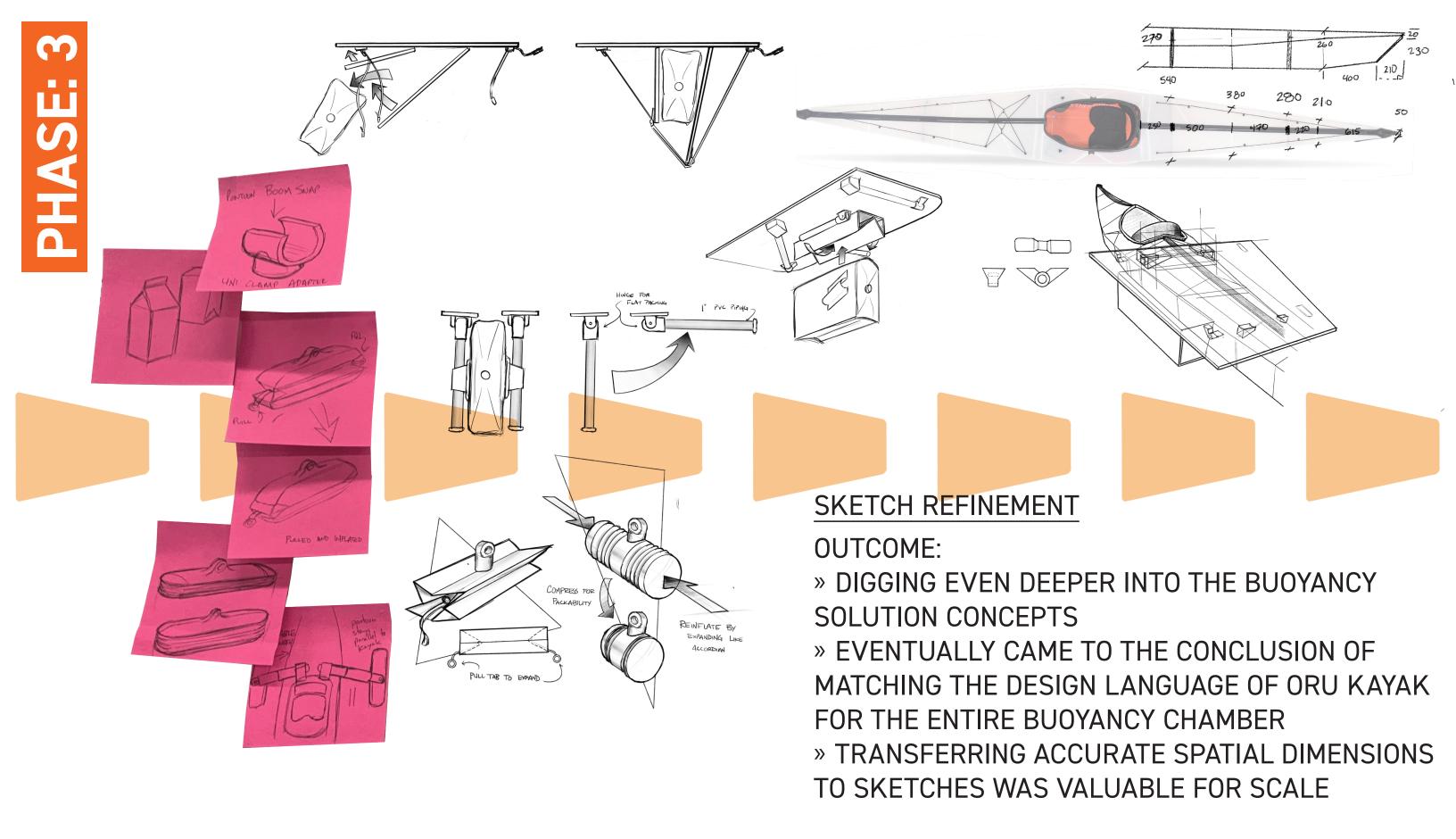
### FOCUSED MODELING

- » WITH DIRECTION NARROWING FURTHER CREATING PHYSICAL MODELS BEGAN SOLIDIFYING CONCEPT OF A PLATFORM SUPPORTED FROM BENEATH
- » EXPLORING OTHER BUOYANCY DEVICES INSPIRED FROM TETRA-PAKS AND OTHER PEDESTRIAN OBJECTS





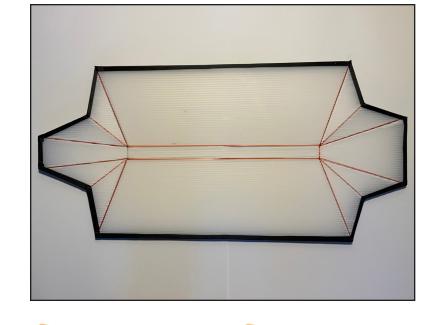






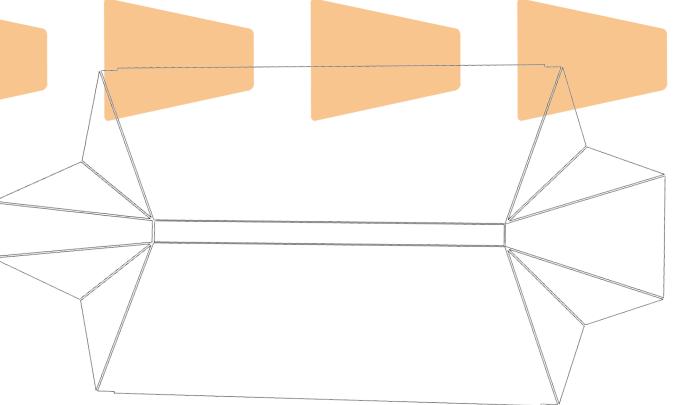












### FURTHER FOCUSED MODELING

- » DETERMINING A MORE SIMPLE BUOYANCY CHAMBER ELIMINATES THE NEED FOR ADVANCED ENGINEERING
- » [PROBABLY] FEASIBLE FOLDING PATTERN DESIGNED DIGITALLY NEEDED TO BE PHYSICALLY PROVEN





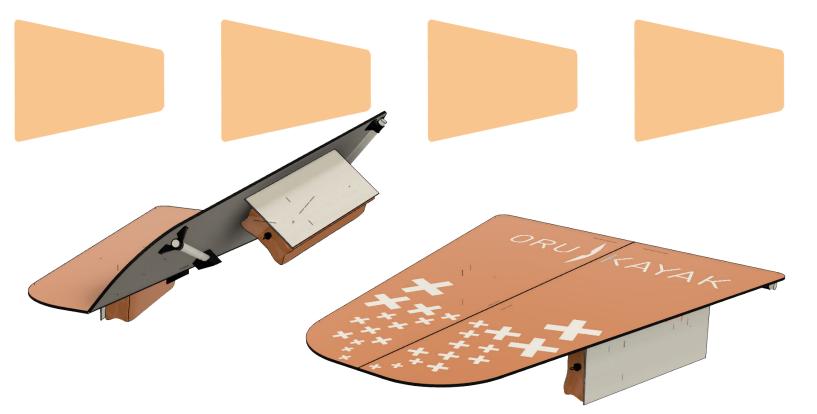












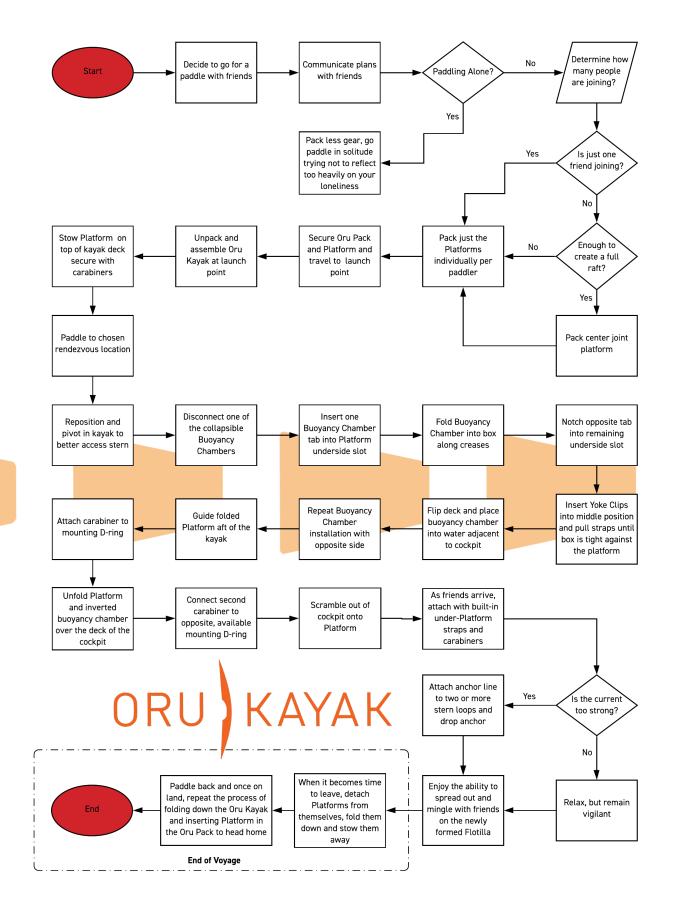


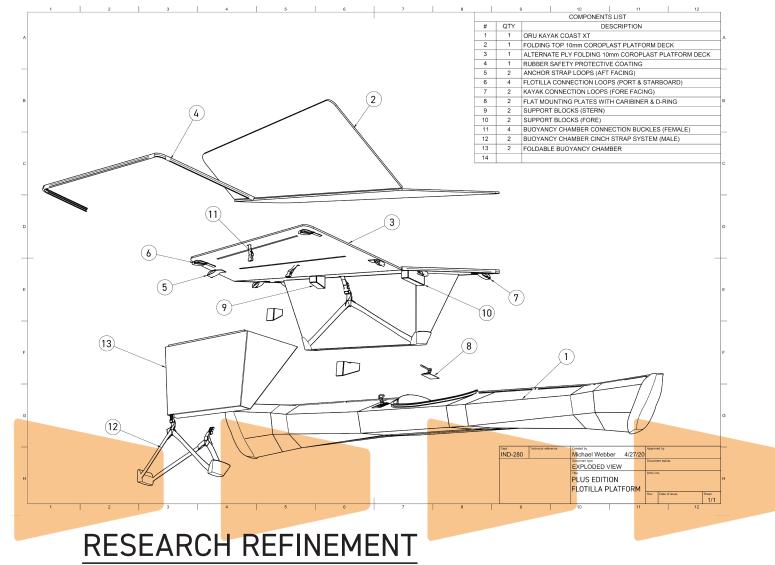
- » FURTHER FEASIBILITY STUDIES AND CONCEPT REFINEMENT IN FUSION 360
- » BEGINNING OF DECISION-MAKING FOR GENERATIVE DESIGNED COMPONENT, CHOSE A SUPPORT STRUCTURE AS THE REMAINDER OF THE DESIGN IS COROPLAST











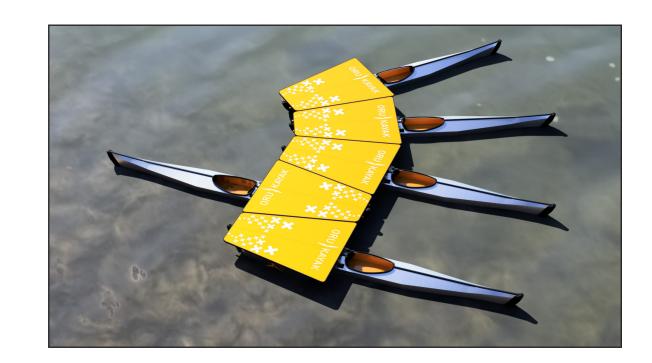
- » EVEN DEEPER REFINEMENT OF TASK ANALYSIS DOCUMENT
- » DISCOVERED A STREAMLINING OF THE PROCESS THAT ALSO INTRODUCED MORE LOGICAL STEPS
- » ONCE CAD MODELING STARTED, FURTHER DETAILS ALSO BEGAN TO REVEAL THEMSELVES













# CURRENT FINAL DELIVERABLE

### OUTCOME:

- » SUCCESSFUL DEPICTION OF EXCITEMENT AND COMMUNITY EXPERIENCE AS WELL AS INTENTION OF CONNECTED KAYAKS
- » ADEQUATE UTILIZATION OF BRANDING FOR ORU KAYAK

MODELS

PRODUCT DESIGN II
IND 280-01
SPRING 2020
DESIGNER: MICHAEL WEBBER