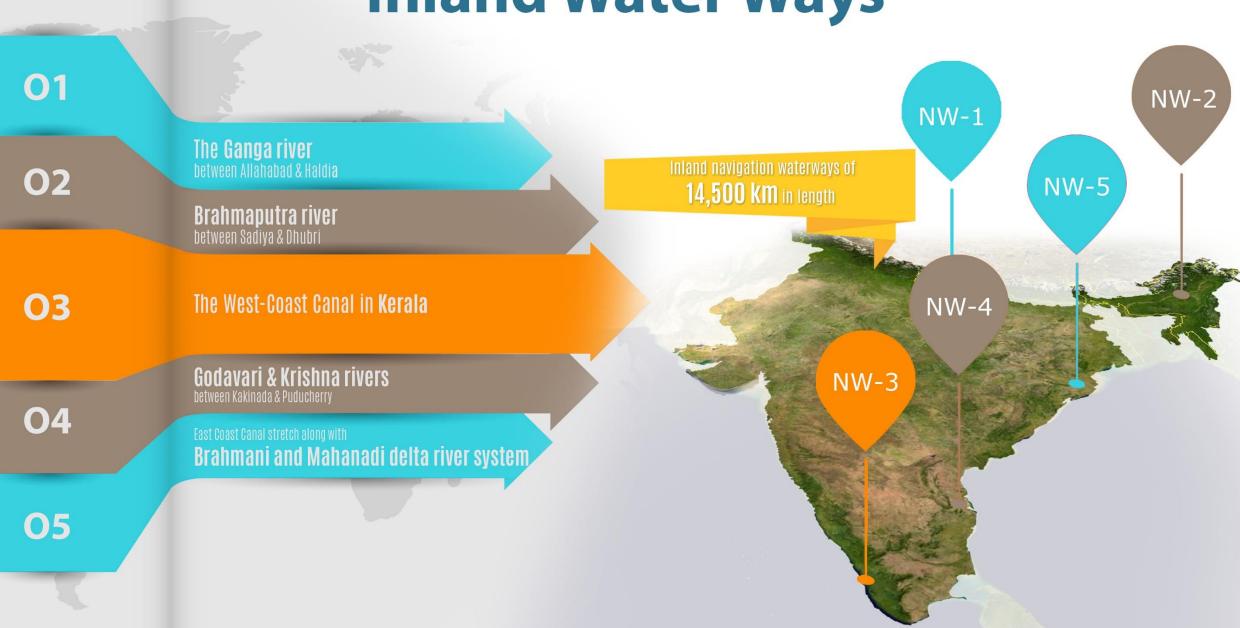
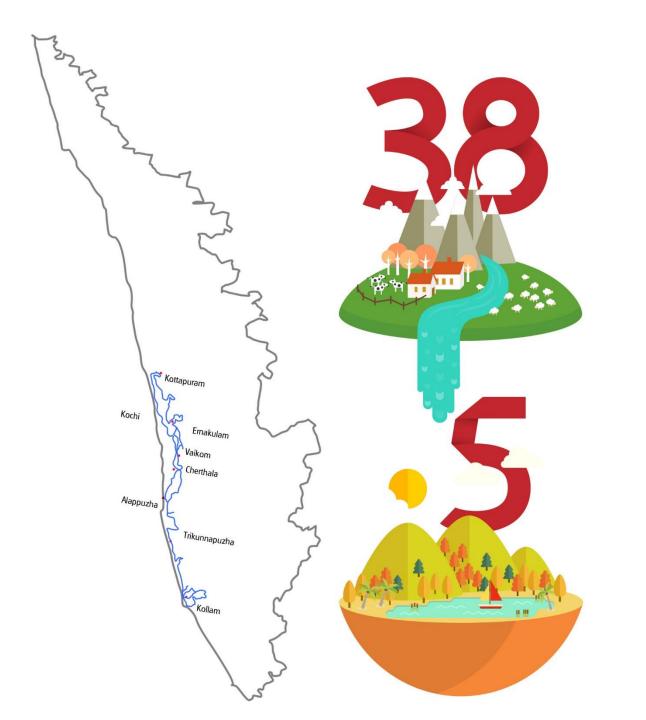
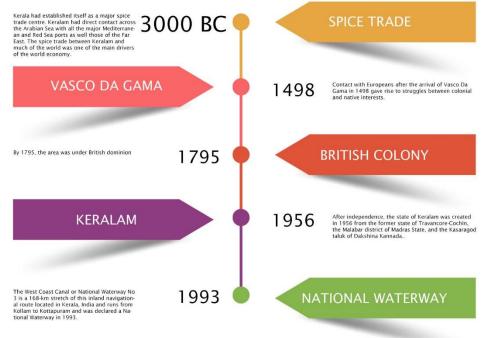
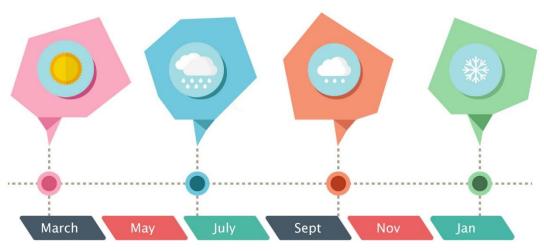


Inland Water Ways









WHY TOURISM MATTERS?



8.60/0 CONTRIBUTION OF TOURISM IN GDP

12 Lakhs NEW JOBS IN INDIA

180 Lakhs Domestic Tourist BY 2021

30 Lakhs FOREIGN TOURIST ARRIVAL BY 2021

BACKWATER TOURISM & AYURVEDA
EMERGED AS THE INNOVATION OF TOURISM





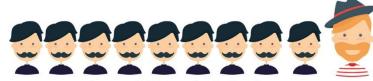
Spendings ₹15000/person



Spendings ₹70000/person







1 out of 10 tourist is foreigner



25% foreign exchange earning come from tourism

EXPLORE











OBSERVATIONAL RESEARCH •

CANOE HAS SMALL FREEBOARD DISTANCE

VERY FEW CANOES OBSERVED WITH WEATHER PROTECTION ACCESSORIES





























MAJORITY OF THE CANOES ARE **PEDAL POWERED**

MOSTLY OPERATED IN NARROW CHANNELS

















Human Powered Sports



















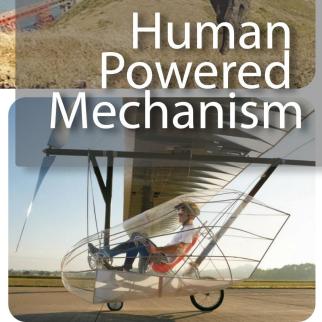


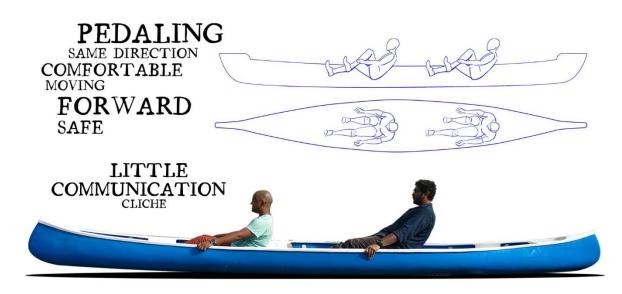


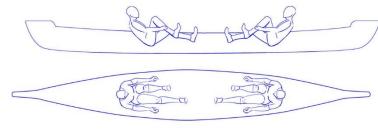






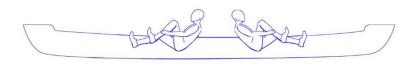






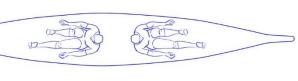
INTERACTIVE DIRECTIONLESS SYMMETRY



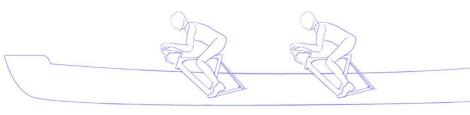


ANTISOCIAL
DIRECTIONLESS
BORING
AUDIO

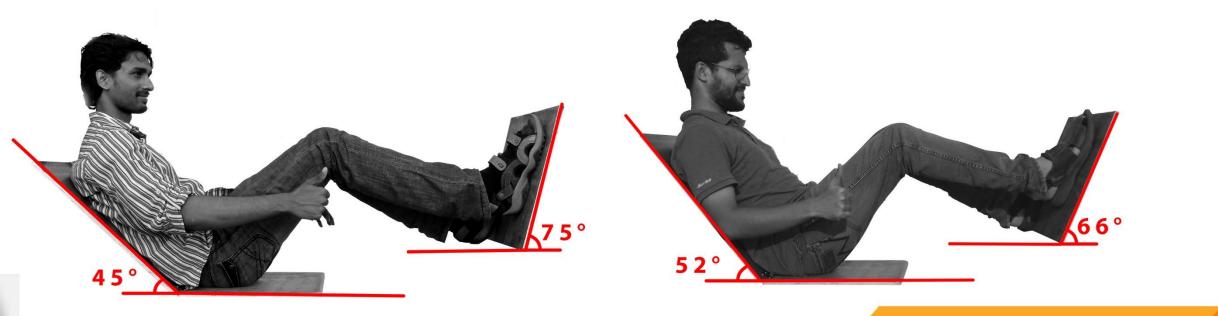
COMMUNICATION



EXERCISE UNSTABLE CONSCIOUS TOPPLE















BEING PHYSICALLY ACTIVE REDUCES CHANCES OF CHRONIC DISEASES BY

50%





























BACKWATER FEATURES

WATER HYACINTH

This plant grows under water and cover water surface

Water hyacinth is seasonal plant, found in rainy season

SALINE WATER

Kerala backwater is connected with sea. So that water is more saline. Saline water cause more corrosion of metal components.

TIDAL VARIATION

Due to connection with sea water level often changes with tidal variation.

6 MONTHS OF RAIN

Boat operation in rainy season is critical.

SHALLOW WATER

Average backwater depth is approximately 2 meter.



DESIGNBRIEF

To convert engine driven 21ft canoe to 2 seater human powered canoe



Product study







EGRESS



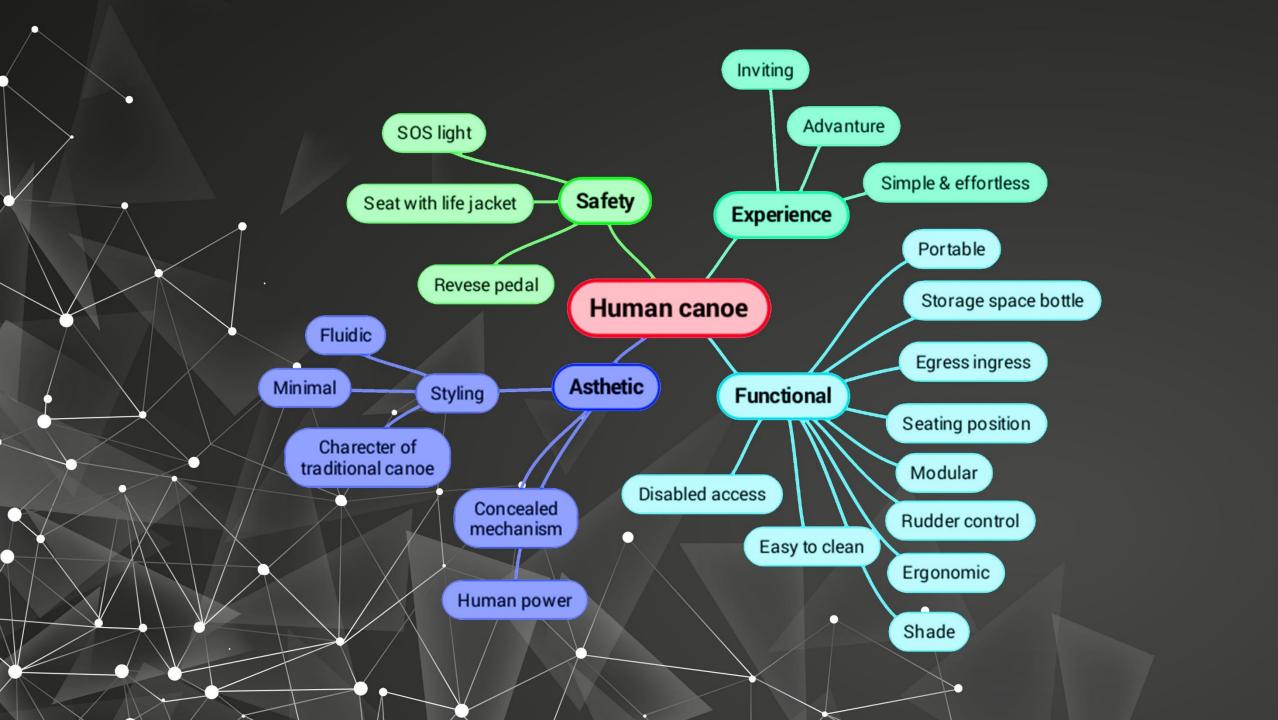


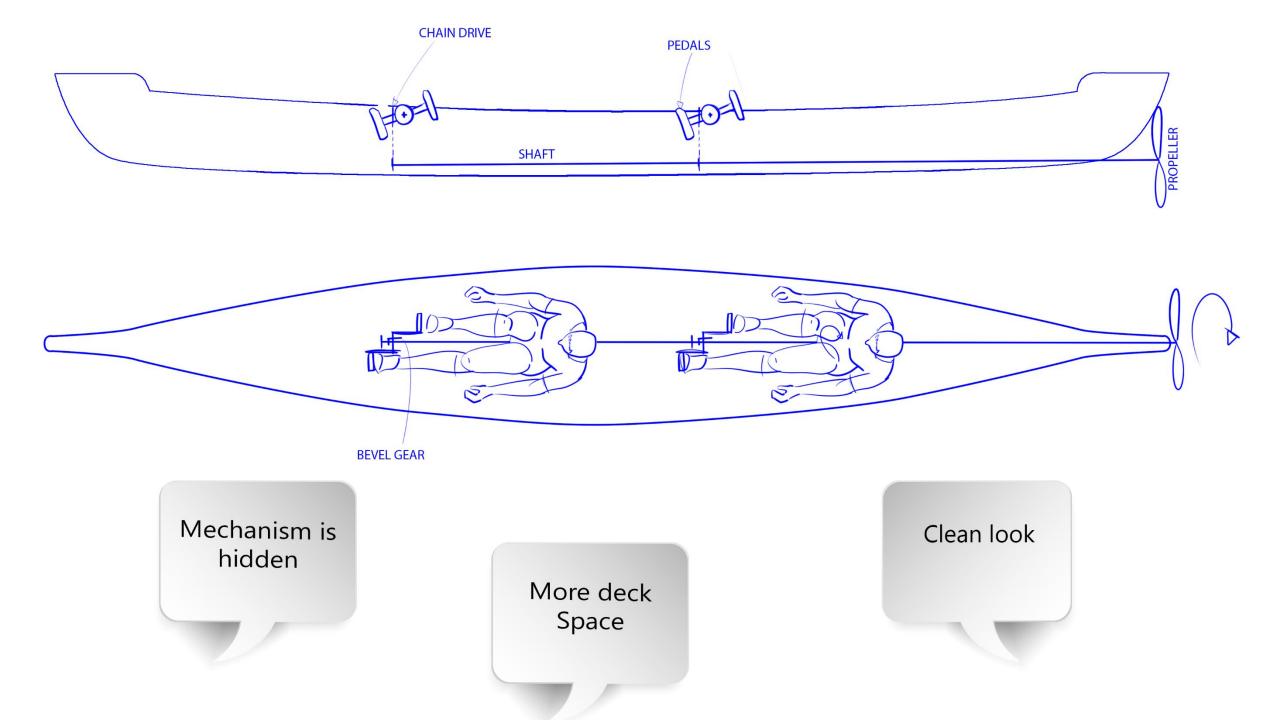






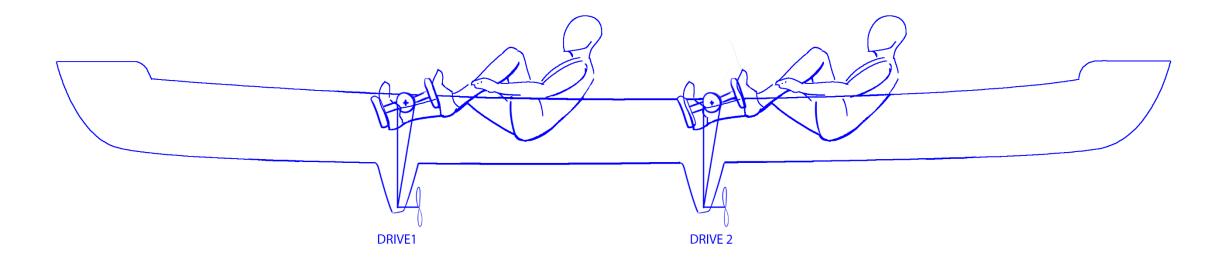


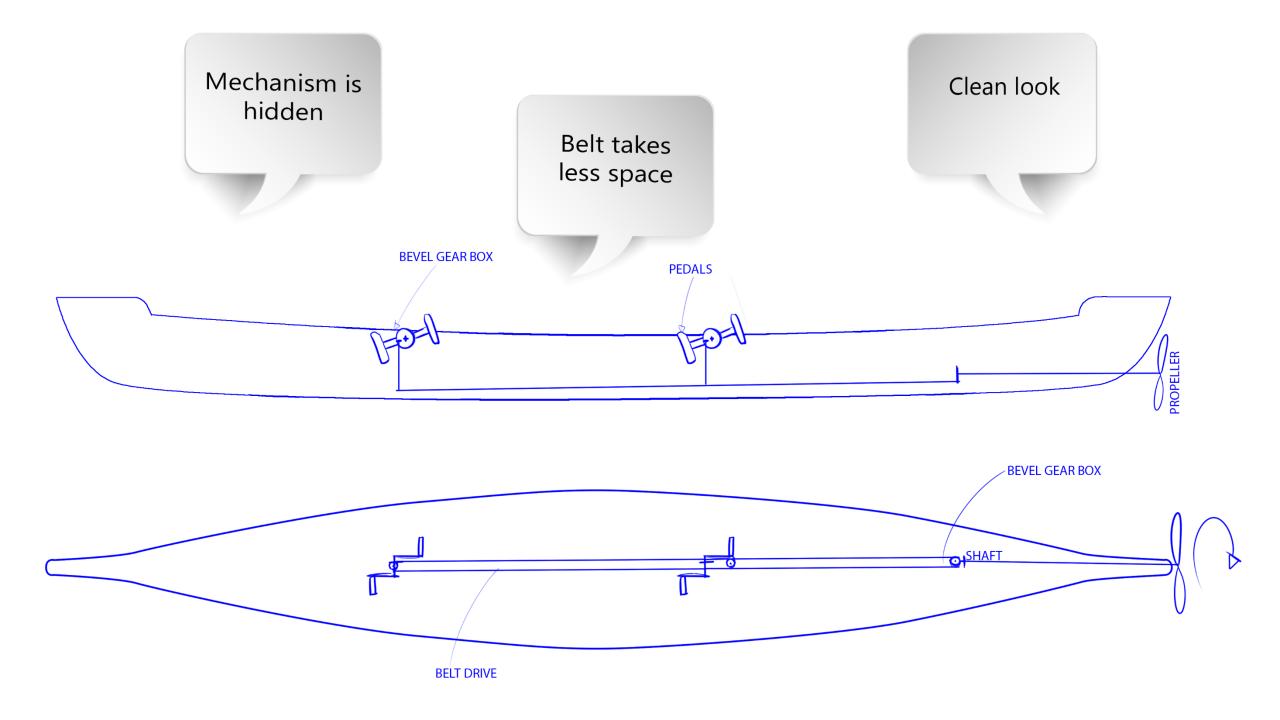


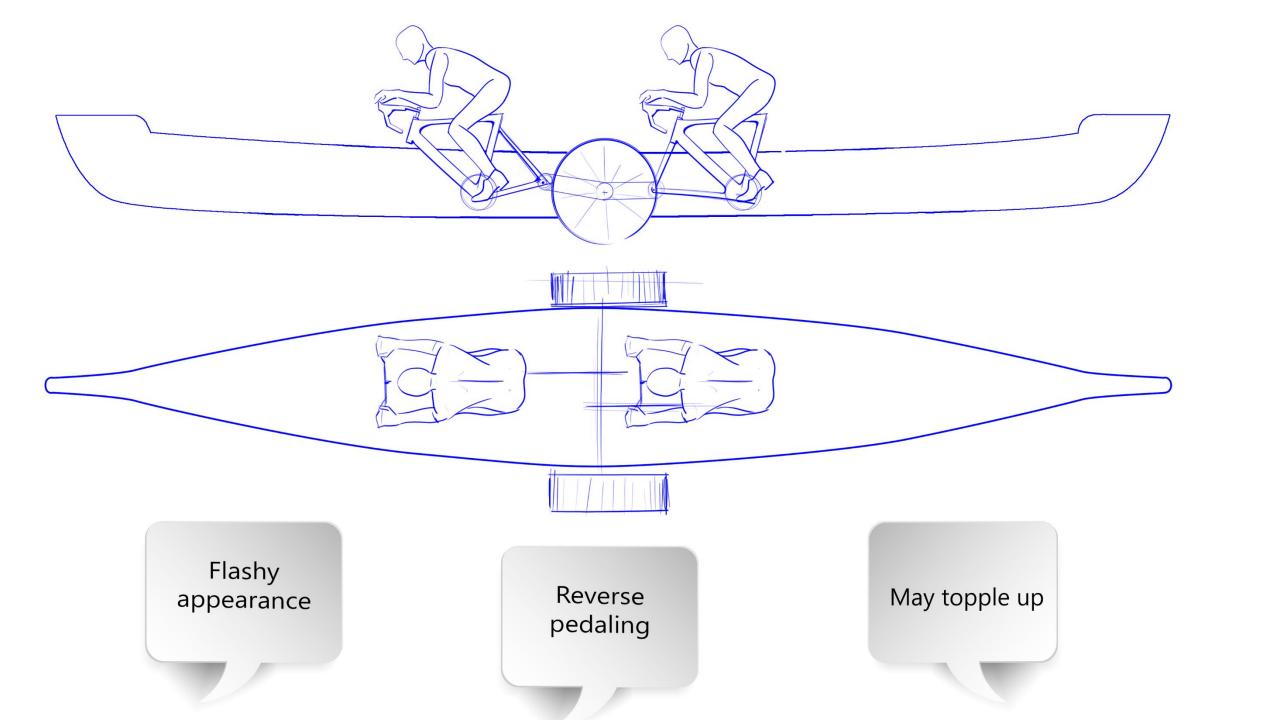


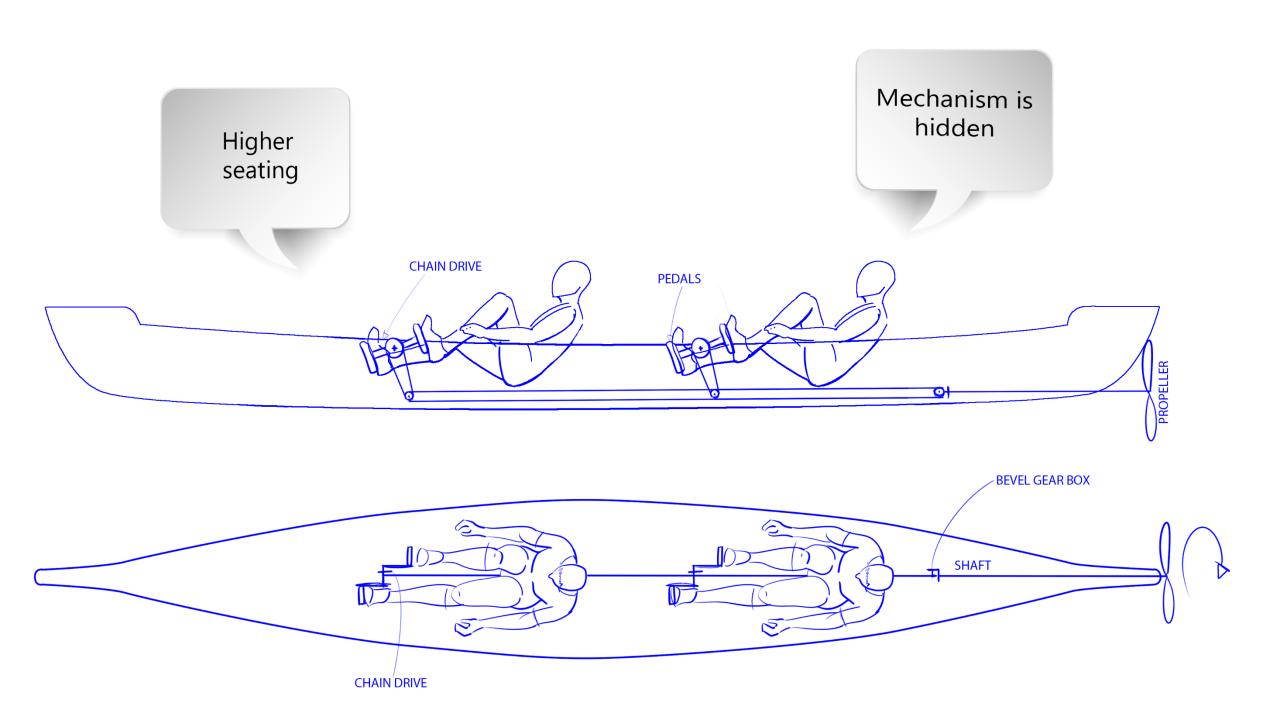
Simple Mechanism Reverse pedaling

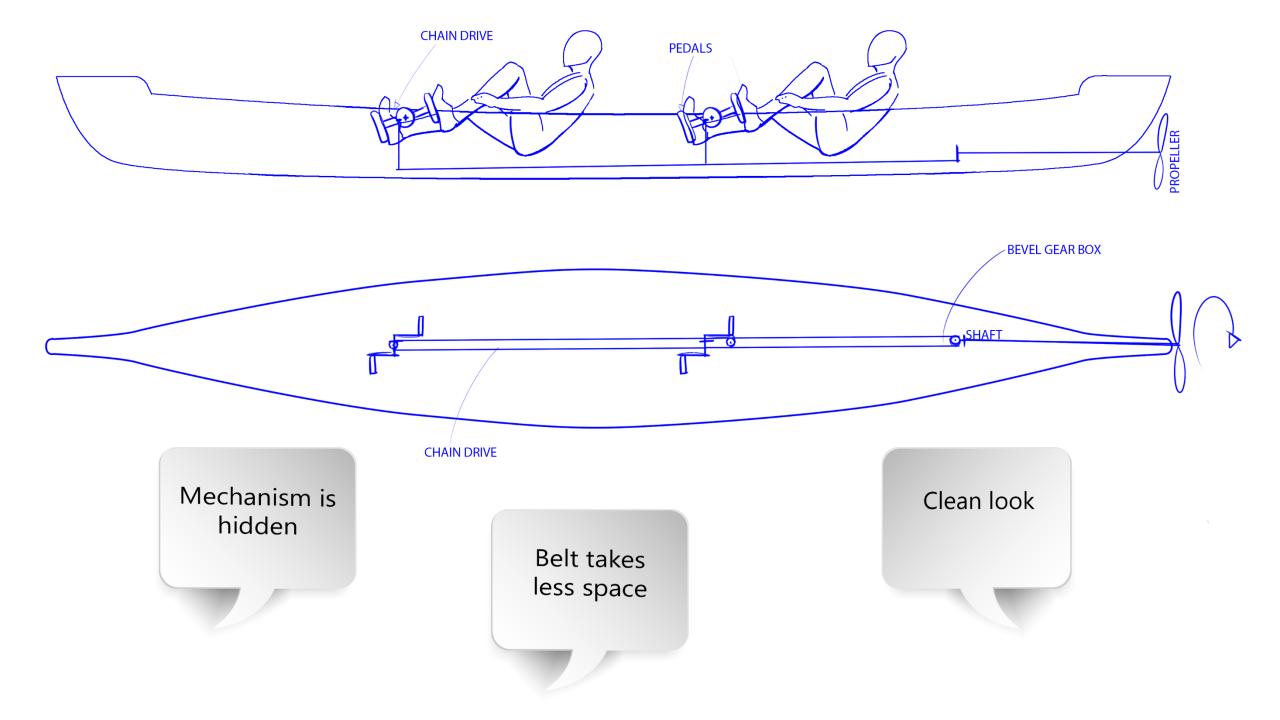
May catch Water hyacinth

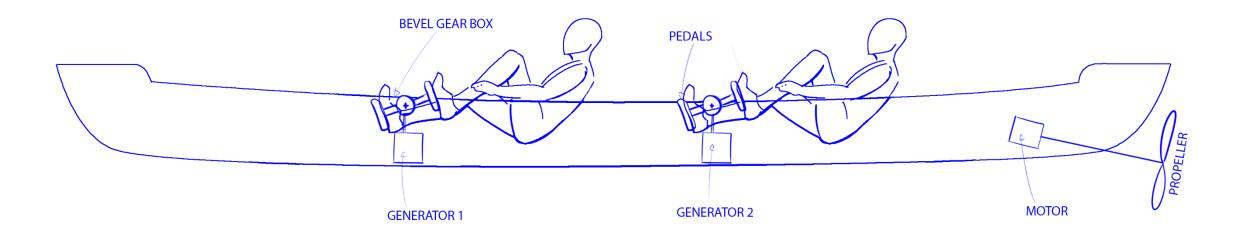








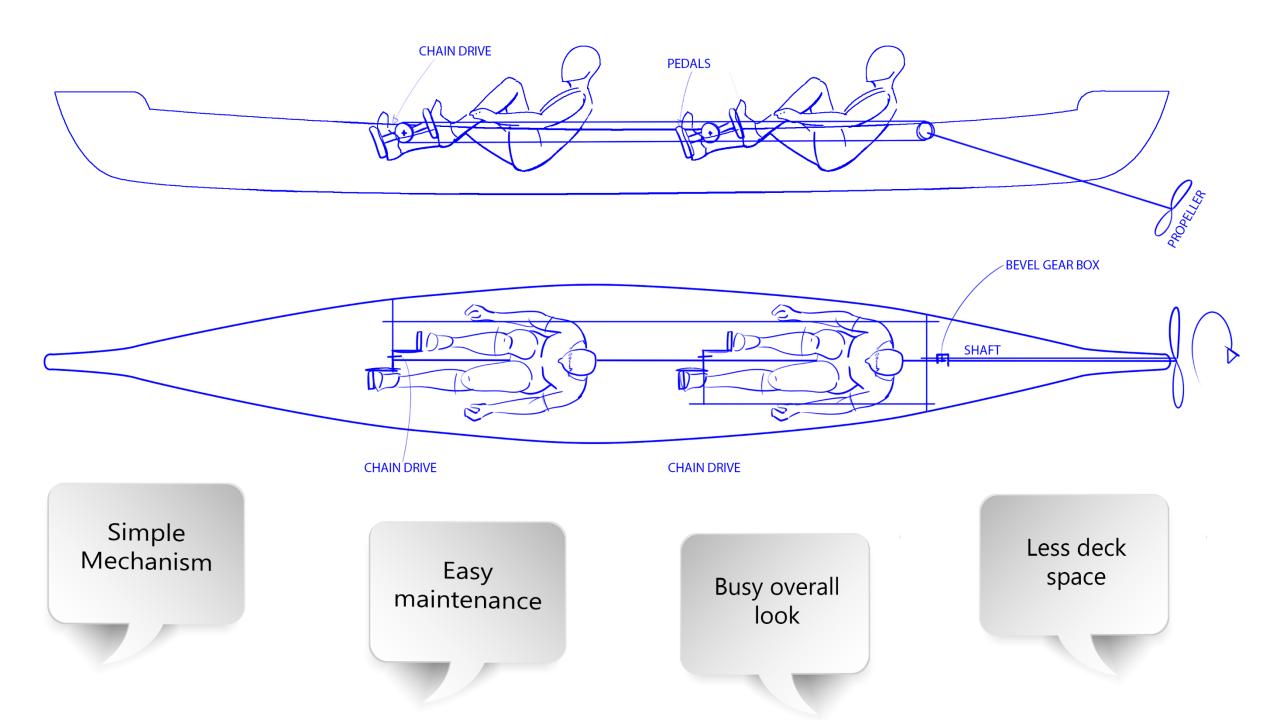




Takes minimum space

Individual Contribution

65% efficiency



CONCEPTS

