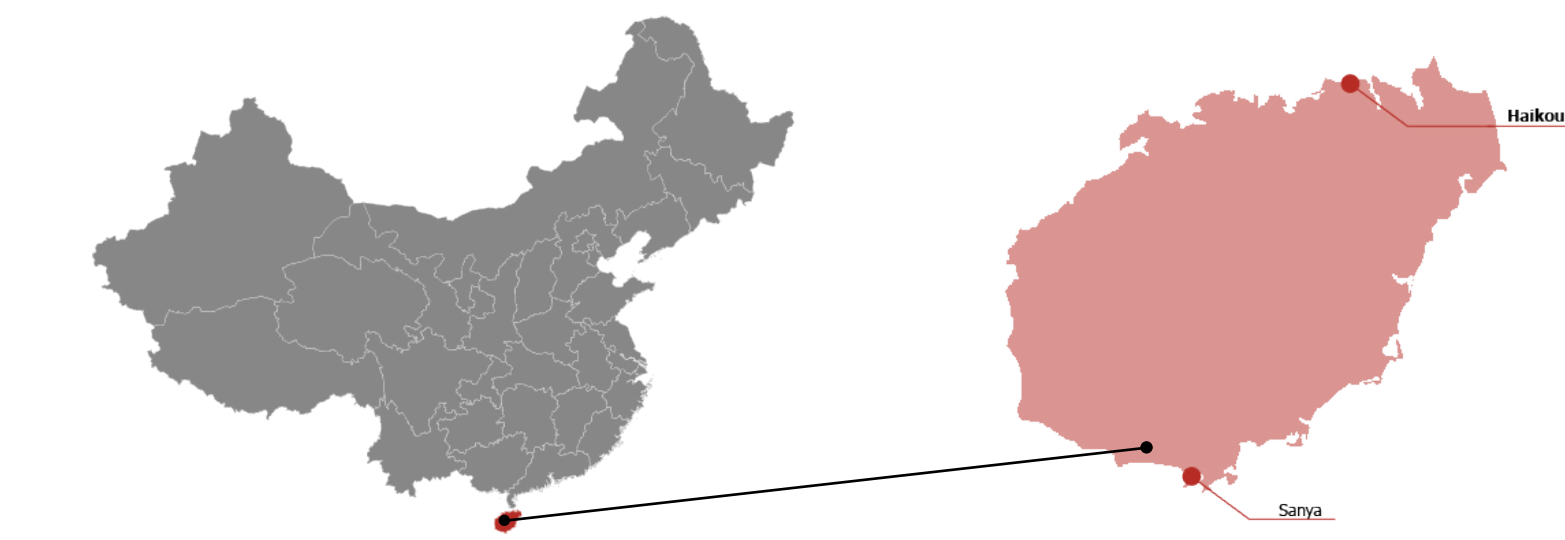


NAME: Mai Chen ID: 8877642

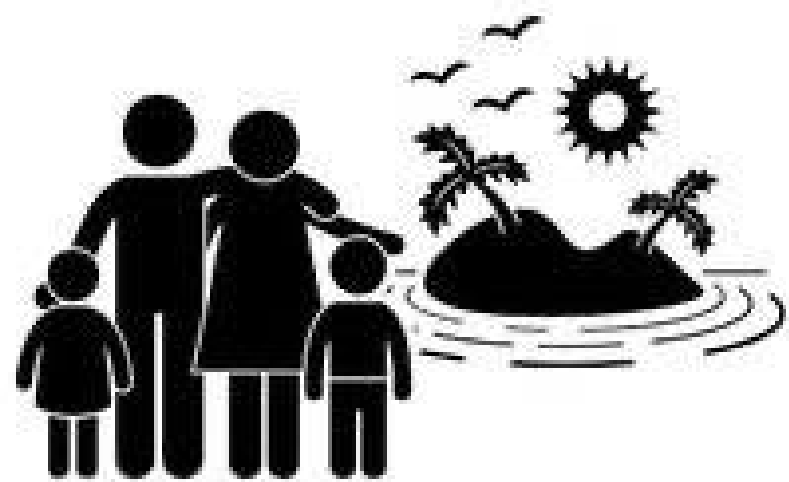
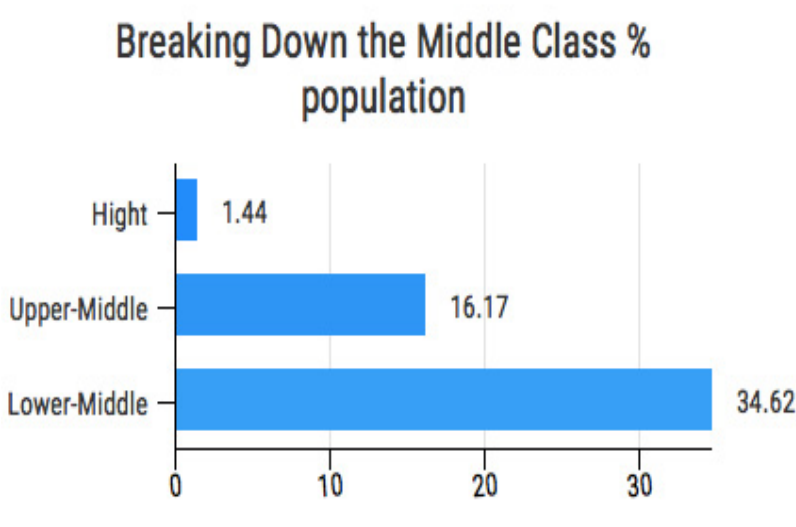


WHERE

This kind of yacht is used in Sanya, China's pilot low-carbon city, supported by tourism, with tropical marine monsoon climate

WHY

- As there are many hotels in Sanya, there is a serious oversupply market
- Due to the characteristics of the climate, the number of guests received by the hotel is related to the season and the income is uncertain.
- Provide new ways of vacation to attract tourists



WHO

- Tourists target middle and high income groups
- Lifestyle is a high-quality and tasteful life. Family partners or a group of friends take vacations. They like places with fresh and comfortable environment or places with rich activities
- The purpose of this study is to provide the tourists with the purpose of vacation and enjoy tourism, and those who want to experience yacht life

PERSONAL



- Father**
- Age 45-60 Living in the south of China Guangdong he is business man, an Engineer designer.
 - Personality credible, calm person, really care for healthy, nature.
 - Interest like to self drive traveling, like collect jade tea Chinese artwork reading.
 - Want fishing
 - Close contact with the ocean
 - Safety first, easy landing
- Mother**
- Age 40-60 living in the Guangdong is a housewife.
 - Personality like adventure, new thing
 - Interesting like backpack travel, have fun with friends, shopping
 - Want Leisure
 - The environment is clean, bright and comfortable
- Son**
- Age 20-30 living in the Shanghai, second big city, the manager of chateau and do alcohol business.
 - Personality outgoing, and contacts new things
 - interesting new technology product, big fans of crossing-bike racing PSP game table game
 - Want water entertainment
 - Rich video games, board games
 - There are party places and facilities

JOURNEY

From Mon-Sun, travel around the island, from Haitanwan to Yazhouwan is about 80 knts.



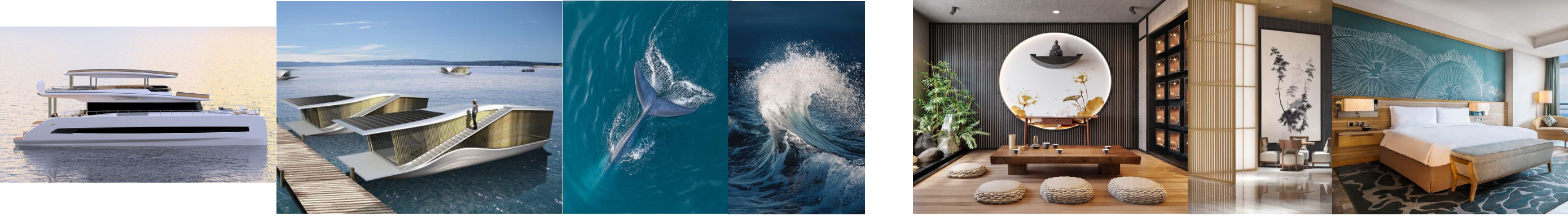
Villa Catamaran 2050

It is a Villa yacht combining Villa and catamaran. It provides a new way of island tourism and vacation for human beings in the future, and also provides a new business model for the hotel, so as to increase the economic benefits for the region with tourism economic industry as the pillar.

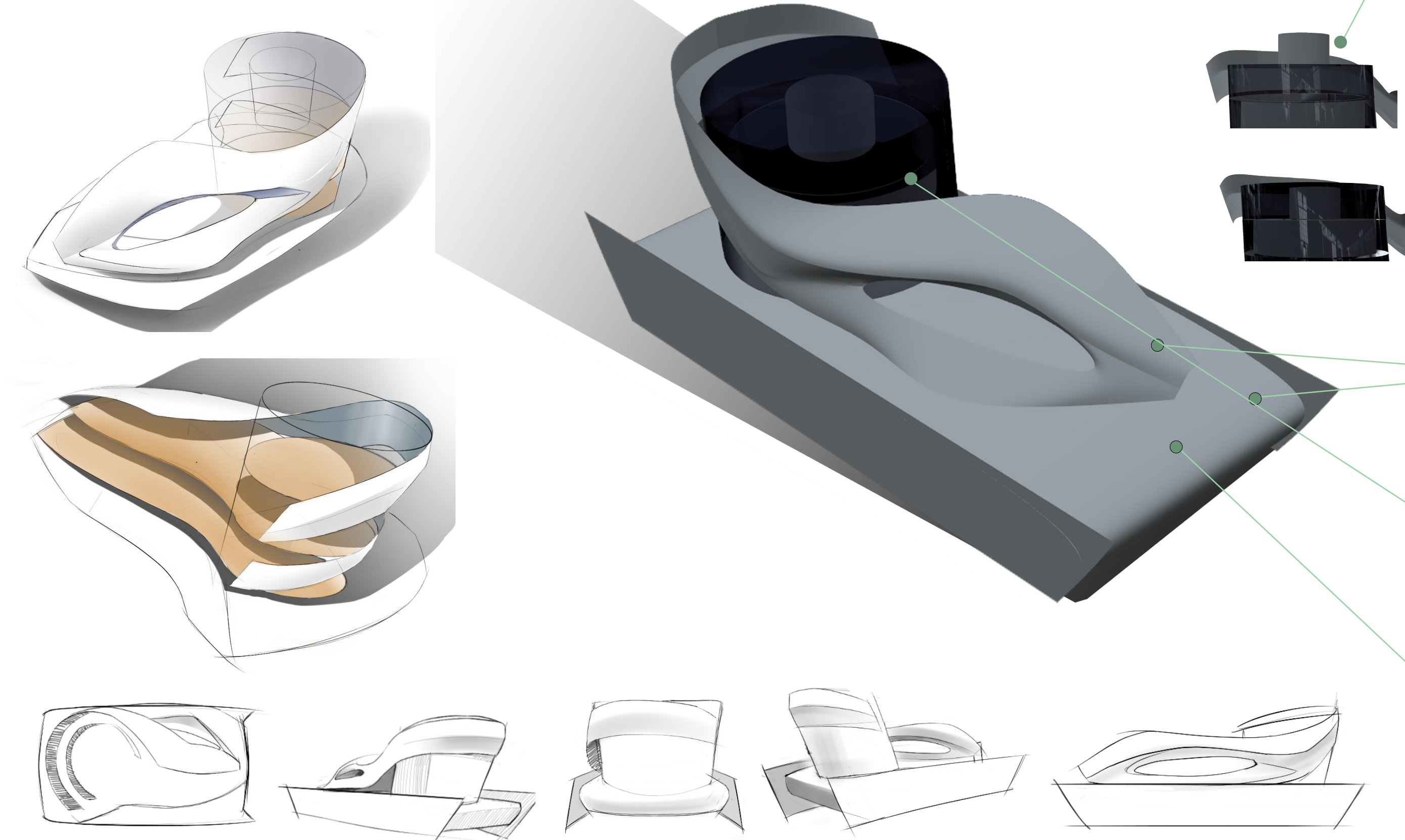
What

- is a combination of hotel, villa, suite and yacht
- The yacht has a raised space and a room on the sea floor, creating a sense of private villa
- 5-star hotel can buy maintenance operation

INSPIRATION OF EXTERIOR AND INTERIOR

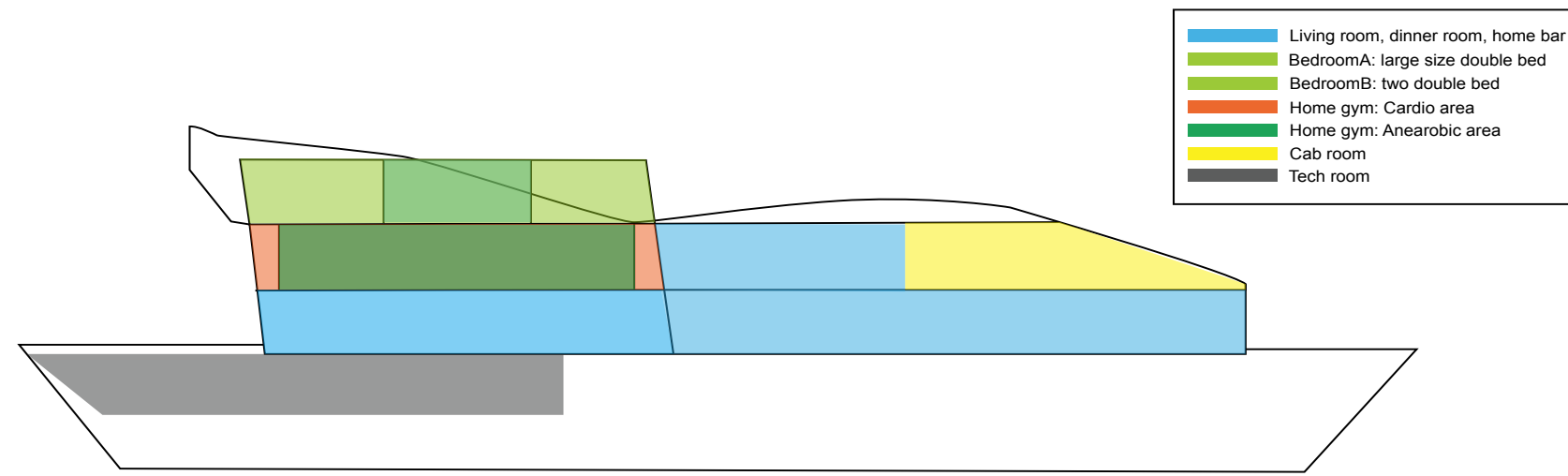


INITIAL SKETCHES



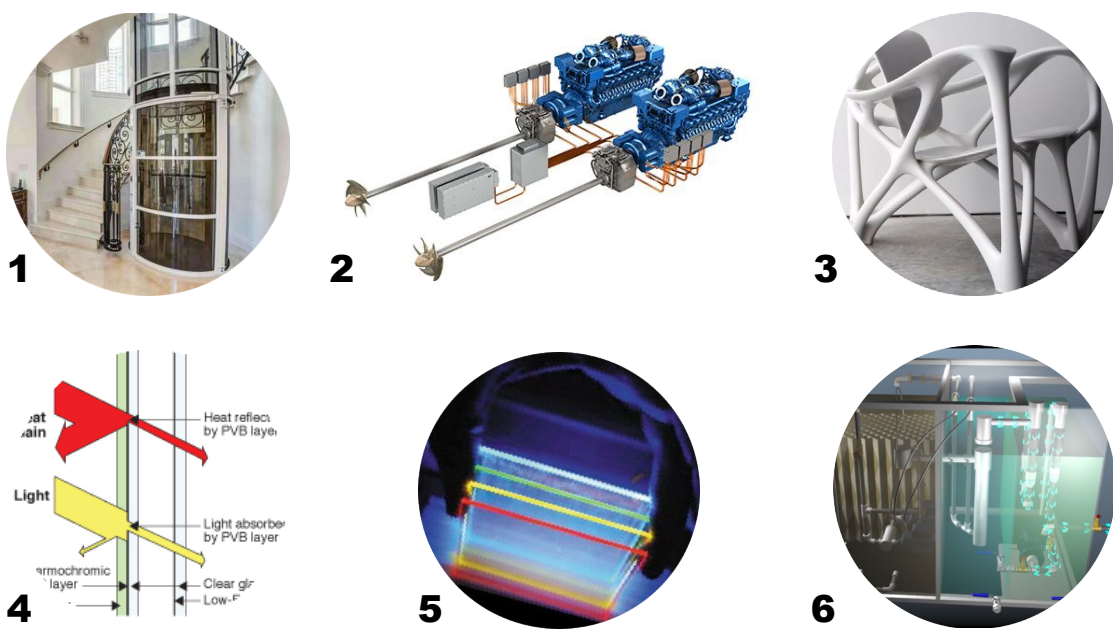
PACKAGE LAYOUT

Length overall 17m, Beam overall 8m, allow 4 adult, 2 children and two crew living for a wake. 2*50 Full electric engine with cv Cruising speed 4-6 knots, Top speed 12-13 knots. use solar glass and plug in to charge the battery. Rent for a day approximant 1500-2500 RMB, in popular time living it need approximant 18000 for a week. normal day is about 10500 RMB.



Conclusion

Generally, it is an investment tourism project designed for the middle class, which is then rented by the middle class as consumers to promote the sustainable development of the local tourism industry. It is a new way for vocation and



Dumbwaiters (figure 1.)

This elvetor didn't need to Arrange the cables, This elvetor system is basically tube in a sealed vacuum, and then the air forcing the elevator go and down. so it is easy to install and saving space. It is popular in house

POWERTRAIN-2*50kw Full electric engine (figure 2.)

The villy yacht is not for long distance travel, didnt need too much power. It more use on tourist. the comfort and the stability of yacht is my choice . Full electric engine have smaller size that can allow more interior space. It has remarkable slow speed control can helping yacht stability and is more suitable for sightseeing. other because Sanya is one of one of the Low carbon city pilot project in China, full eletric engine is Zero emissions.The low maintenance cost allow hotel afford it.(All Electric and Hybrid Electric Drive - Electric Yacht, 2020)

PROPULSION SYSTEM-electrical propulsion system

It can through regeneration , solar power or a battery charger used when dockside.(Sale et al., 2020) Electrical propulsion system is not just benefit the local environment sustainable. Also when the yacht travel around the island it can produce the power and it can store in the battery.

CONSTRUCTION-GRP yacht construction (figure 3.)

this GRP is weight light, easy to form and is durable material.(4 Materials Used In Yacht Construction - Cobra Yacht, 2020) The material is weight lighter then steel so that can save the power. This material can form easy, allow save the manpower so that can indirect

MATERIAL-heat-reflecting glass (figure 4.)

The Heat-reflecting glass can reduce the damage from solar radiation, Make the glass into double-glazed glass can reduce the load of air-conditioner, so that can achieve the purpose of energy conservation and emission reduction.

-Solar glass (figure 5.)

This glass has a polymer coating on the surface. so that glass can work like the solar panels, and it can work better than solar panels. the polymer coating increases efficiency by 50% and the coating can be used on a variety of plastics surface.

-Marine Sewage Treatment (figure 6.)

The grey water produced by a 4-8 person a day is about 1020 Litre, which should be filled with at least 1.02 cubic meters. After four times of filtration, the water is even cleaner than drinking water. Finally, it is used as domestic water to plug in the tank. It needs at least 7.14 cubic meters of tank to maintain the yacht's life for a week. In addition, they also produce about 240-400 liters of black water a day, which requires about 1.68-2.8 cubic meters to maintain the yacht for a week.

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BRANDMARKET

I chose three catamarans for vacation and residence. Use them to compare my yacht.



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