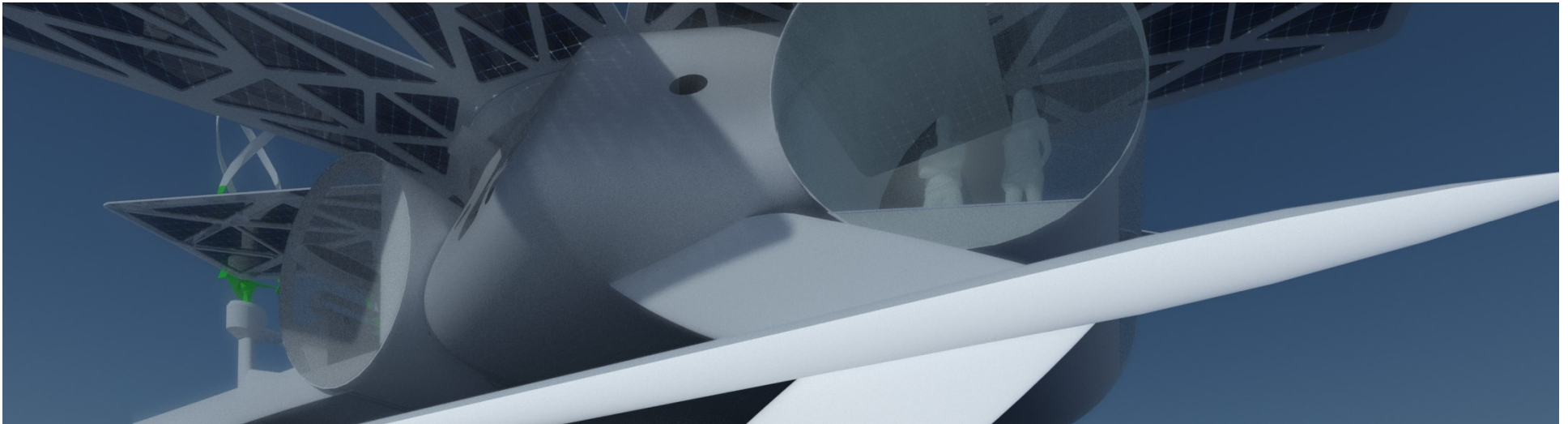


barge



We design the future of coastal and maritime mobility and tourism

coastal and maritime mobility and tourism - the problem



involve personnel onboard



using chemicals for
production and use



expensive



needs infrastructure



very polluting. non
environmentally
friendly



old technology



high costs for fuel
and maintenance



low efficiency

coastal and maritime mobility and tourism - the solution



autonomous self driving watercrafts. no personnel onboard



controlled by application



affordable



GPS and internet satellite direct connection



sustainable – just renewable energy. environmentally friendly



efficiency by low resistance of air and low water contact (SWATH)



no fuel or maintenance costs



high efficiency electric motors and components



off grid. no need chargers or infrastructure



managed and self driving by AI



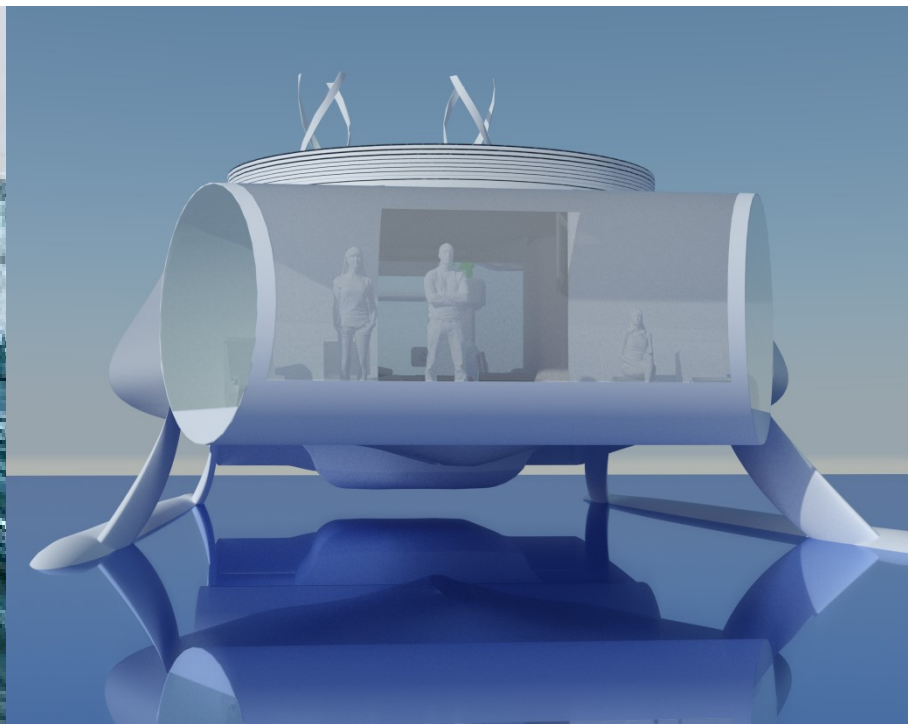
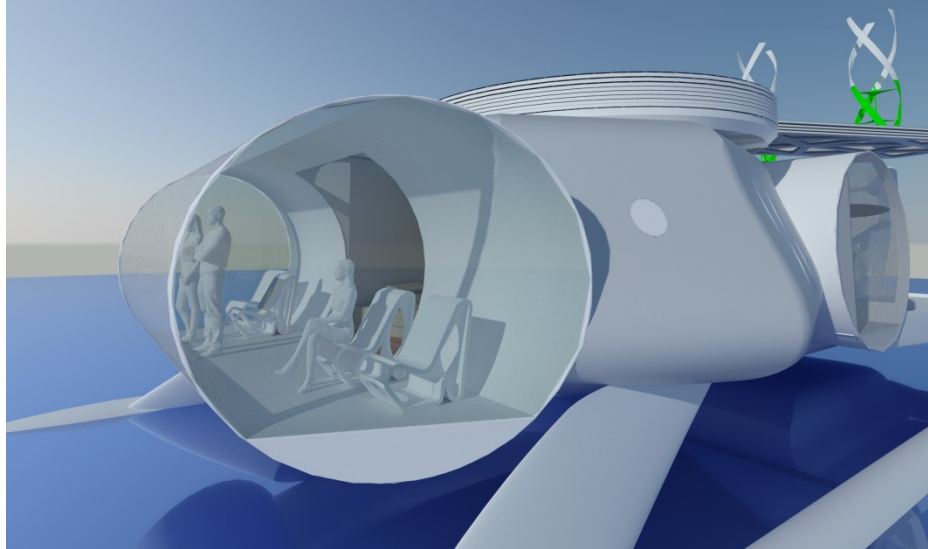
biodegradable and non toxic materials



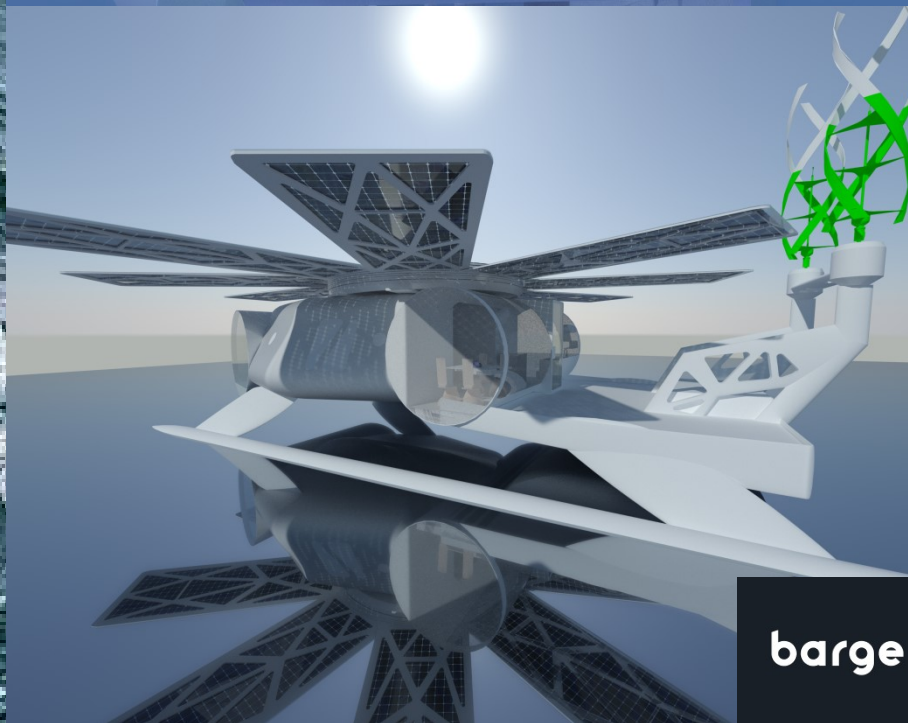
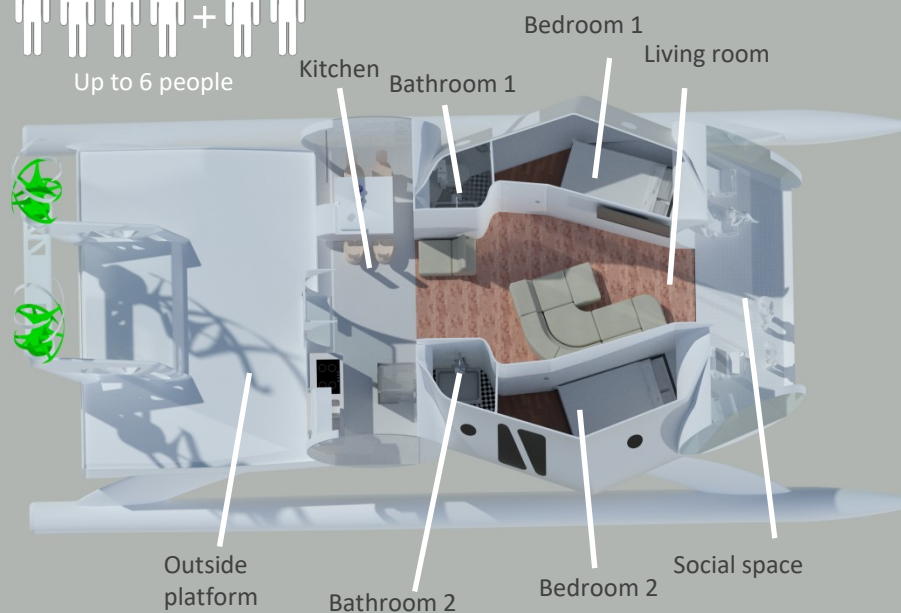
bonus – autonomous drones for pictures & video

Imagine a technology which can make possible the travel with unlimited range without fuel or maintenance costs, which offers full comfort and safety, quiet and perfectly integrated in environment, with a futuristic autonomous AI managed and self driving watercrafts.

barge solution - Explorator

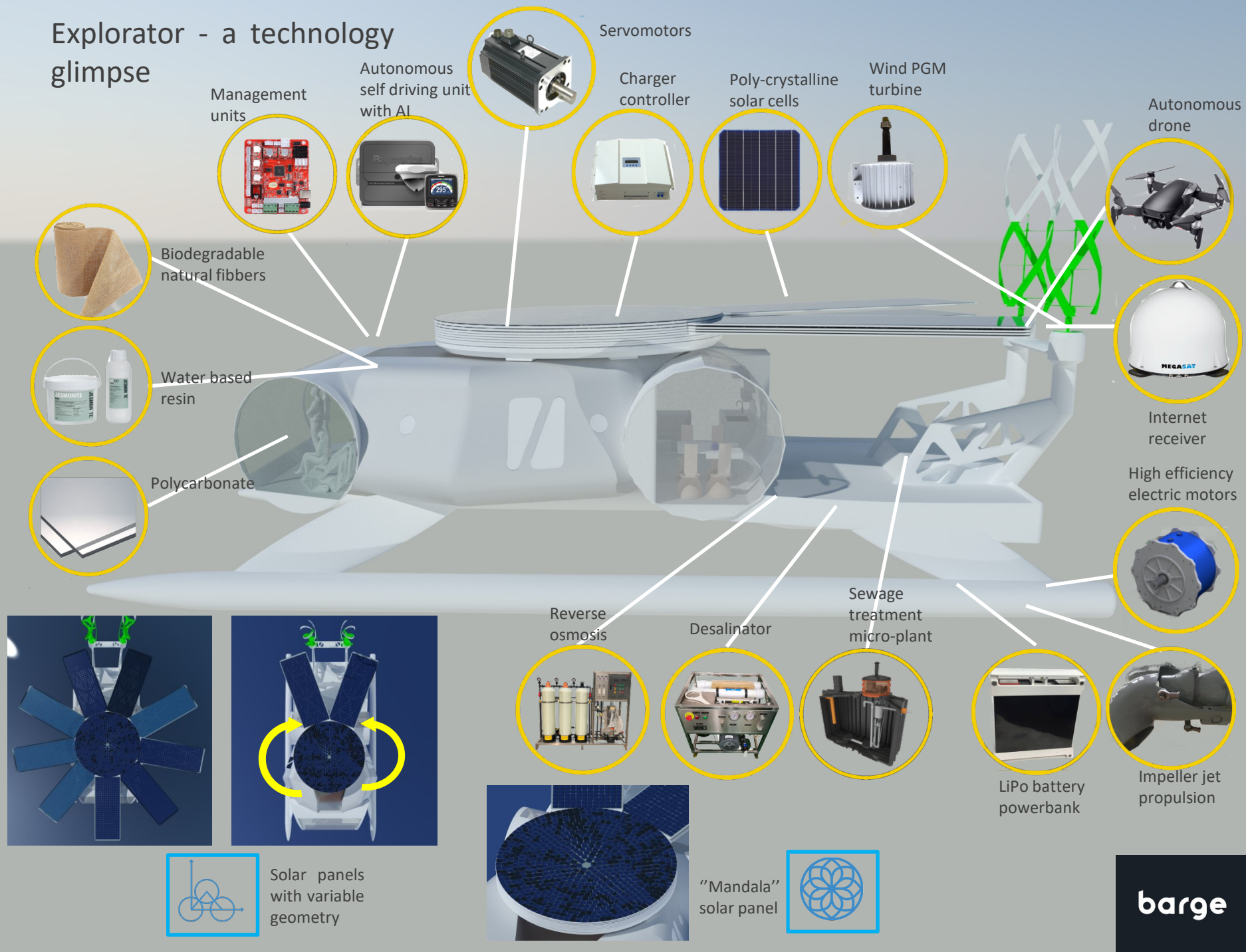


Up to 6 people

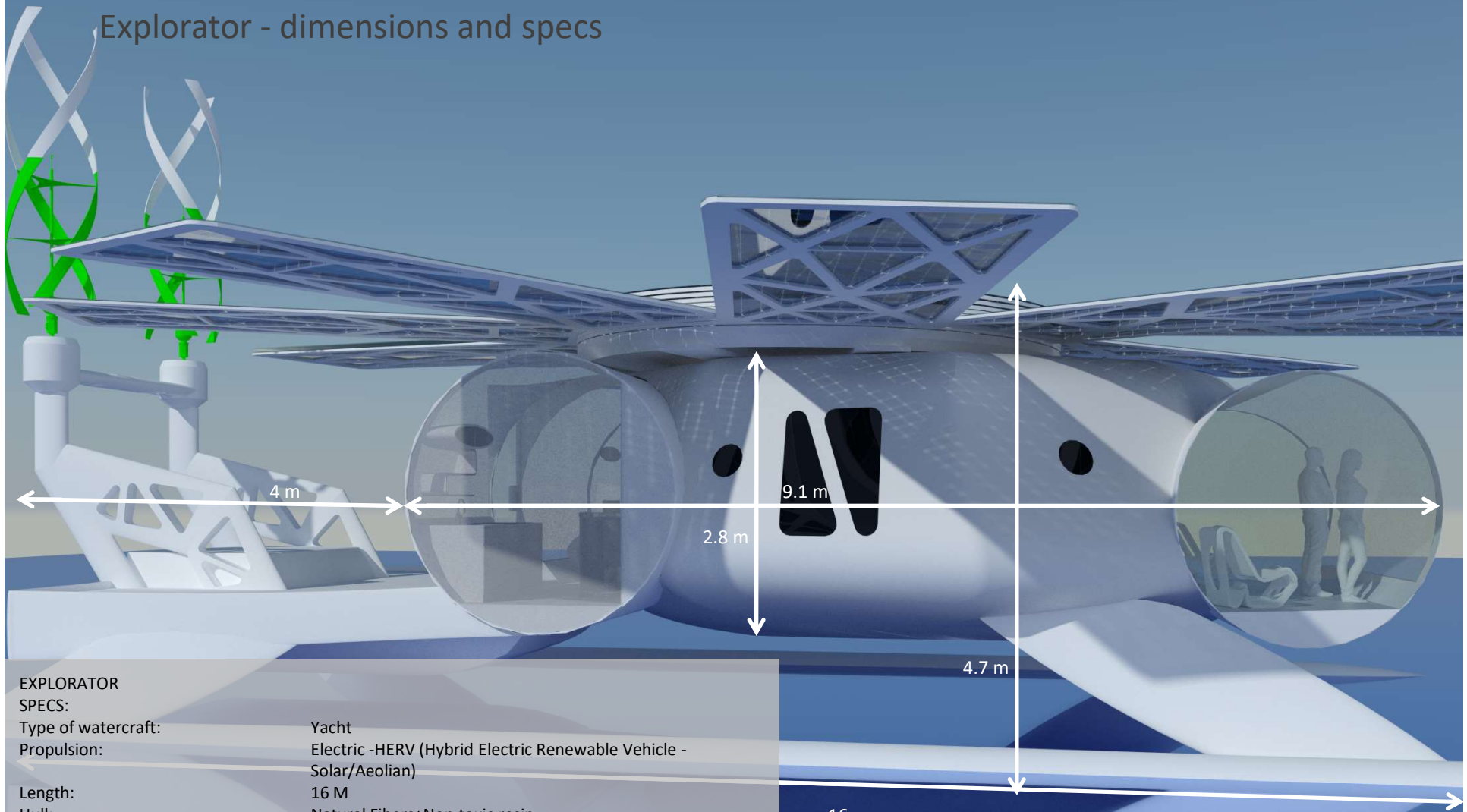


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Explorator - a technology glimpse



Explorator - dimensions and specs



EXPLORATOR

SPECS:

Type of watercraft:

Yacht

Propulsion:

Electric -HERV (Hybrid Electric Renewable Vehicle - Solar/Aeolian)

Length:

16 M

Hull:

Natural Fibers+Non toxic resin

Battery:

Li-Po, 200 kW

Motors:

2x5 kW - 24 vdc (compared with combustion engine = 55 hp)

Pollution cleaned:

15 l/CO2 per hour

Type of motor:

BLDC

Traction:

1000 lbs

Solar panels:

3950 cells x 5.1 W

Wind turbines:

2x3500 W

Energy from renewable:

max 27 kWh

Accommodation:

4-6 people

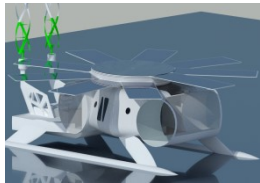
Range:

Unlimited

16 m

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competitors – solar boats and yachts



Explorator

Length: 16 m
Power: 2x5 kW
Renewable energy:
solar panels+wind
turbines: 27 kWh
Battery: 200 kW
Accommodation: 6
people
Price est.: 200.000 \$



Aquawatt 550
(Austria)

Length: 5,5 m
Power: 800/1600 W
Solar panels: 400 Wh
Payload: 4 people



SunCat 23
(Taiwan/Germany)

Length: 7 m
Power: 2.8 kW
Solar panels: 760 Wh
Payload: 12 people



Soelcat 12
(Netherlands)

Power 2x30 kW
Solar panels: 8.6
kWh
Battery 120 kW
Price: 560.000 \$



Navalt - Solar ferry
(India)

Length: 24 m
Power 2x25 kW
Solar panels: 24 kWh
Battery: 2x40 kW
Payload: 100 people



Solarwave 55/62
(Switzerland)

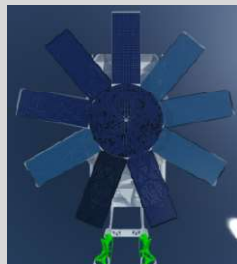
Length: 16.7/18.9
Power 2x30 kW
Solar panels: 15
kWh
Battery 100 kW
Price: 2.5 M Euros
Will be will be
released in October
2019 in Asia for
touristic charters in
Myanmar



SunCat 46
(Taiwan/Germany)

Length 14 m
Power: 2x8 kW
Solar Panels: 3.2 kWh

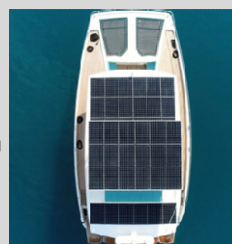
renewable energy capacity vs competitors



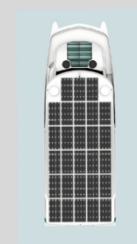
Explorator



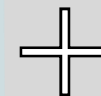
Soelcat 12



Solarwave 55



Suncat 46

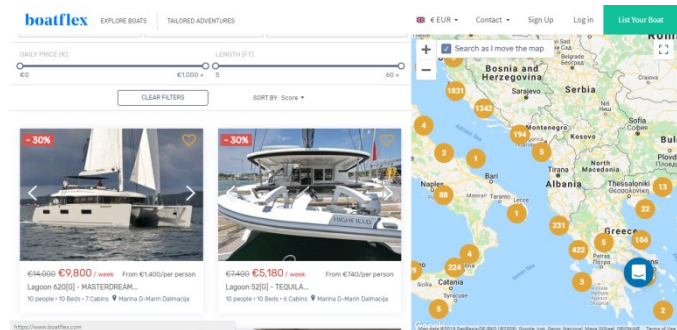


Aquawatt 550

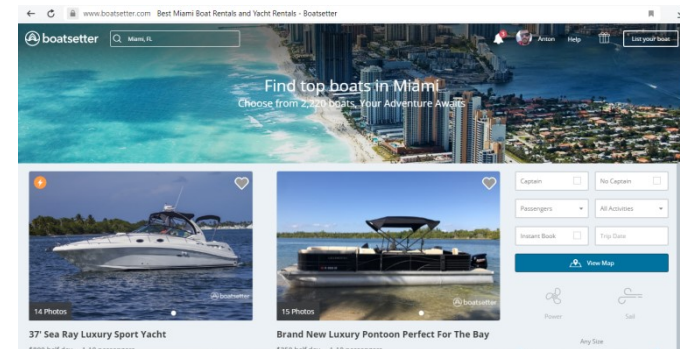
We use a larger solar panel surface with the help of variable geometry system, to get more energy and also vertical wind turbines, helped by an organic design. Competitors use diesel engines to ensure propulsion when needed, we prefer Aeolian solution as efficient and sustainable. We have increased the capacity of batteries that can supply the energy for dozens of hours of operation, day or night, with all the comforts for the passengers. Also we can use the 97% efficiency electric motors (build in the house) but the most electric boats motor from the market have maximum of efficiency around 93%. Another thing that improves performance, lowers the weight of the watercrafts and makes less energy consumption and helps us to produce a low price compared to the competition is the use of natural materials, among which we notice the hemp fiber which in contact with resin becomes more resistant than steel at a fraction of the weight and price of the steel. Our watercraft are also fireproof, we using for that a water non toxic resin. The result should be: zero carbon emissions and 100% sustainable technology. Without any compromise.

barge

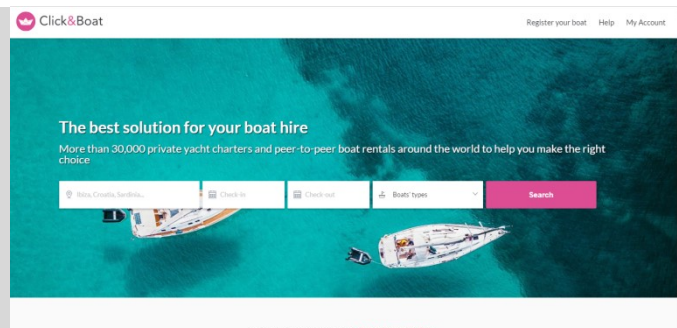
sharing boat services (apps)



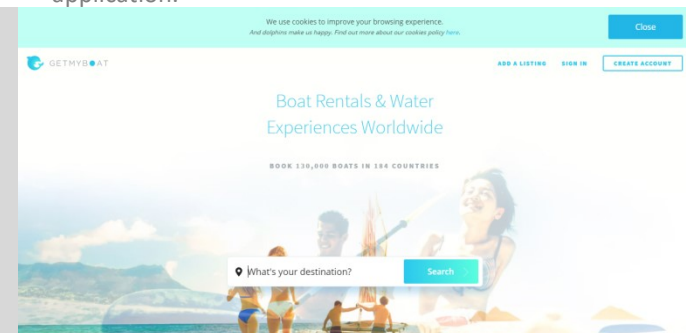
Boatflex, is a Denmark start-up what use a peer to peer application for boat sharing, Have many offers in Europe Mediterranean area, and limited in US, Africa and Asia.



Boatsetter is a growing company founded in 2013 that bought the competitors Cruzin and Boatbound, have offers for US started in Europe and they have global ambitions. They use also a peer to peer application.



Click&Boat, also peer to peer application have many offers in Europe, especially in Mediterranean area and in US, but just few offer for Asia.

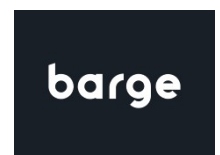
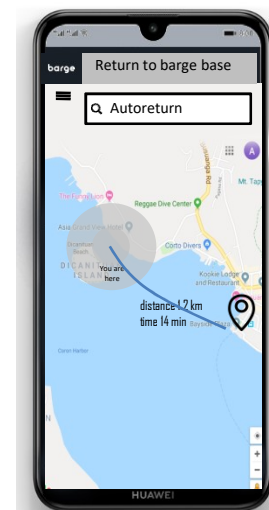
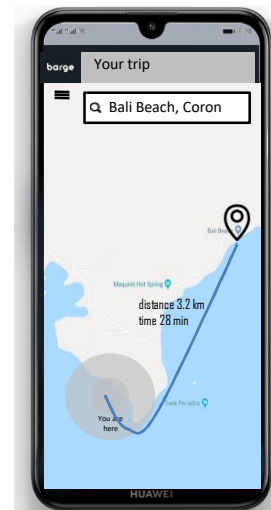
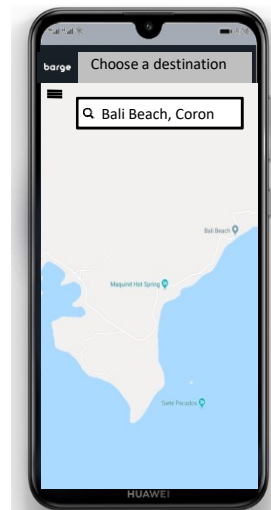
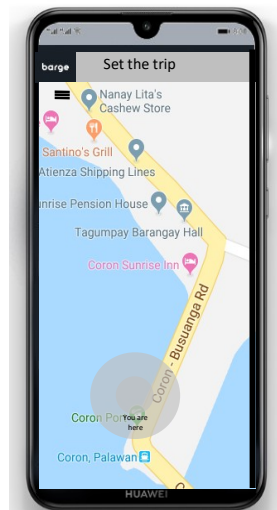
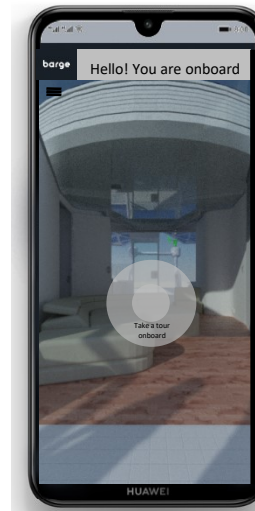
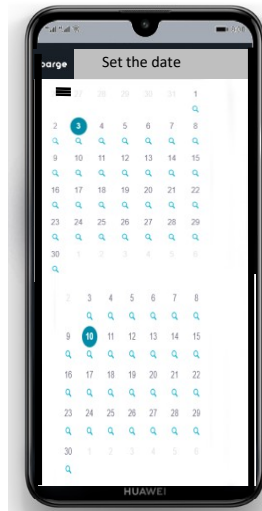


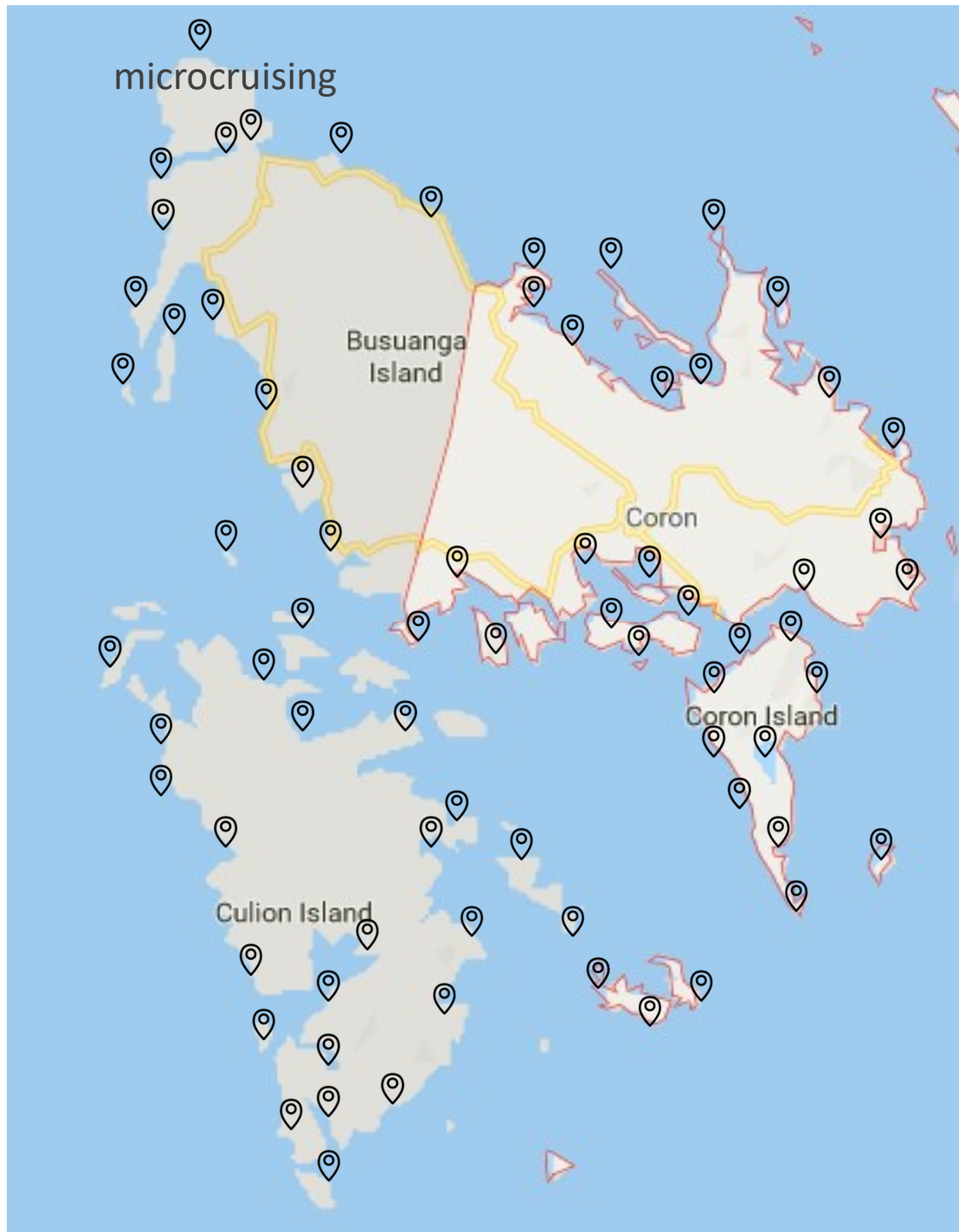
Getmyboat, also peer to peer application, covers 184 countries.

Just one players on boat sharing markets of Asia, Getmyboat. On electric watercrafts are just some isolated cases using electric solar or electric hybrid yachts for expensive charters. **Also the boat sharing is very expensive.**

barge

how works barge (the app)





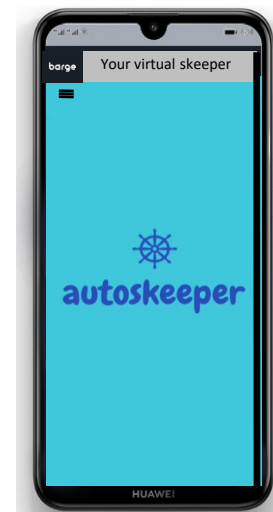
microcruising service

example: 7 days trip on Coron, Busuanga and Culian islands (Philippines).

trip: 350 km: 7 days = 50 km/day

- can visit: the best swimming zones, isolated beaches, cities, restaurants, resorts, museums, local markets, natural reservations, etc

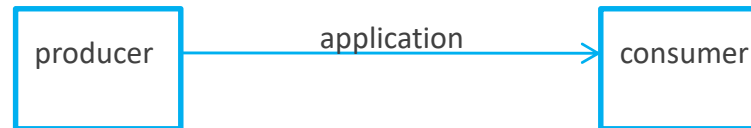
- maximum flexibility to set a trip
- the watercraft can follow the shores of islands on autonomous self driving Autoskeeper from barge application



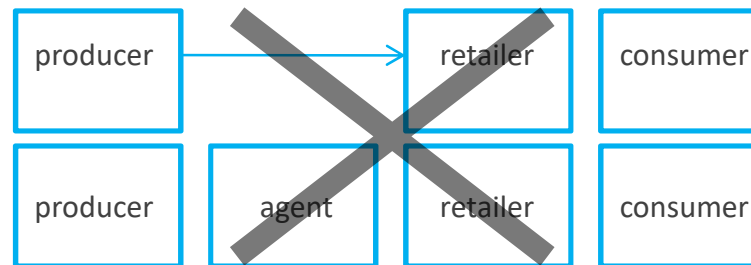
barge

the distribution channel

The best distribution channel is sharing the watercrafts as a service B2C provided by application.



Avoid the classic channels that imposes intermediaries:



Also, the best way to revalue production is to rent, not to sell.

Production cost per item (Explorator):

\$ 70.000

Selling price:

\$ 200.000 (once)

Net price (VAT exc.) :

\$ 160.000

Sharing price:

\$ 400/day x 300 days/year = \$ 120.000

using period of a watercraft is minimum 10 years:

120.000 x 10 years = \$ 1.200.000

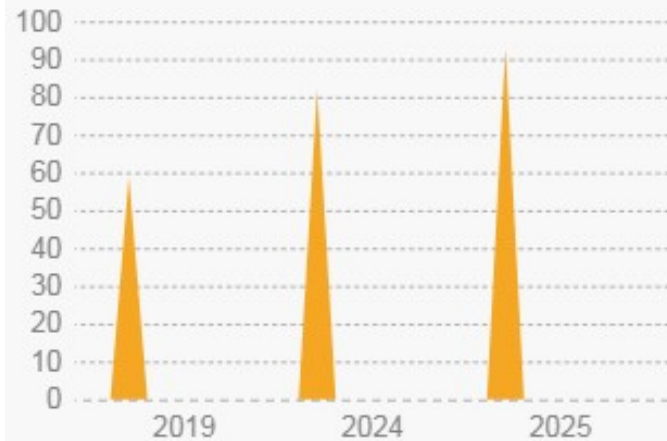
VAT exc.:
\$ 800.000



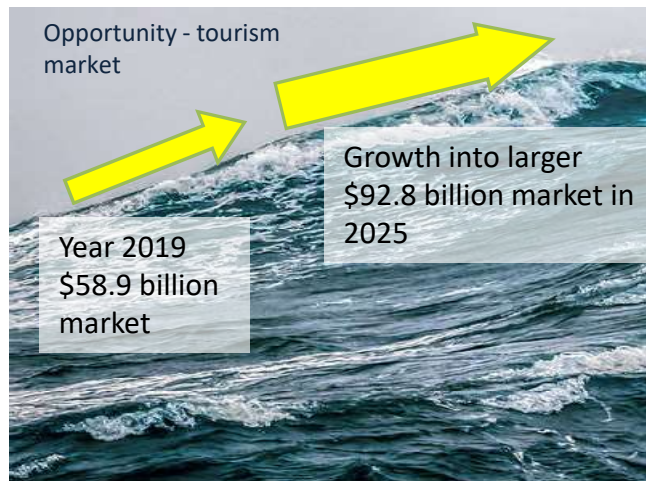
Result: affordable –
\$400:4/6 people = \$100-67 cost per person/day

barge

coastal and maritime tourism market size (billion \$)

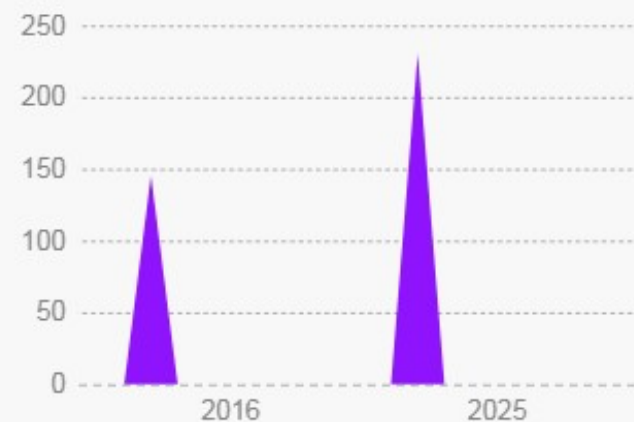


CAGR: 6.7 % between 2019-2025
(Source: Global Marine Tourism Market Report, 2019)



Barge is a project developed on two big markets: 1. tourism market (directly) and 2. recreational boating market (indirect). These markets will cumulate 322.8 billion in 2025.

recreational boating market size (billion \$)

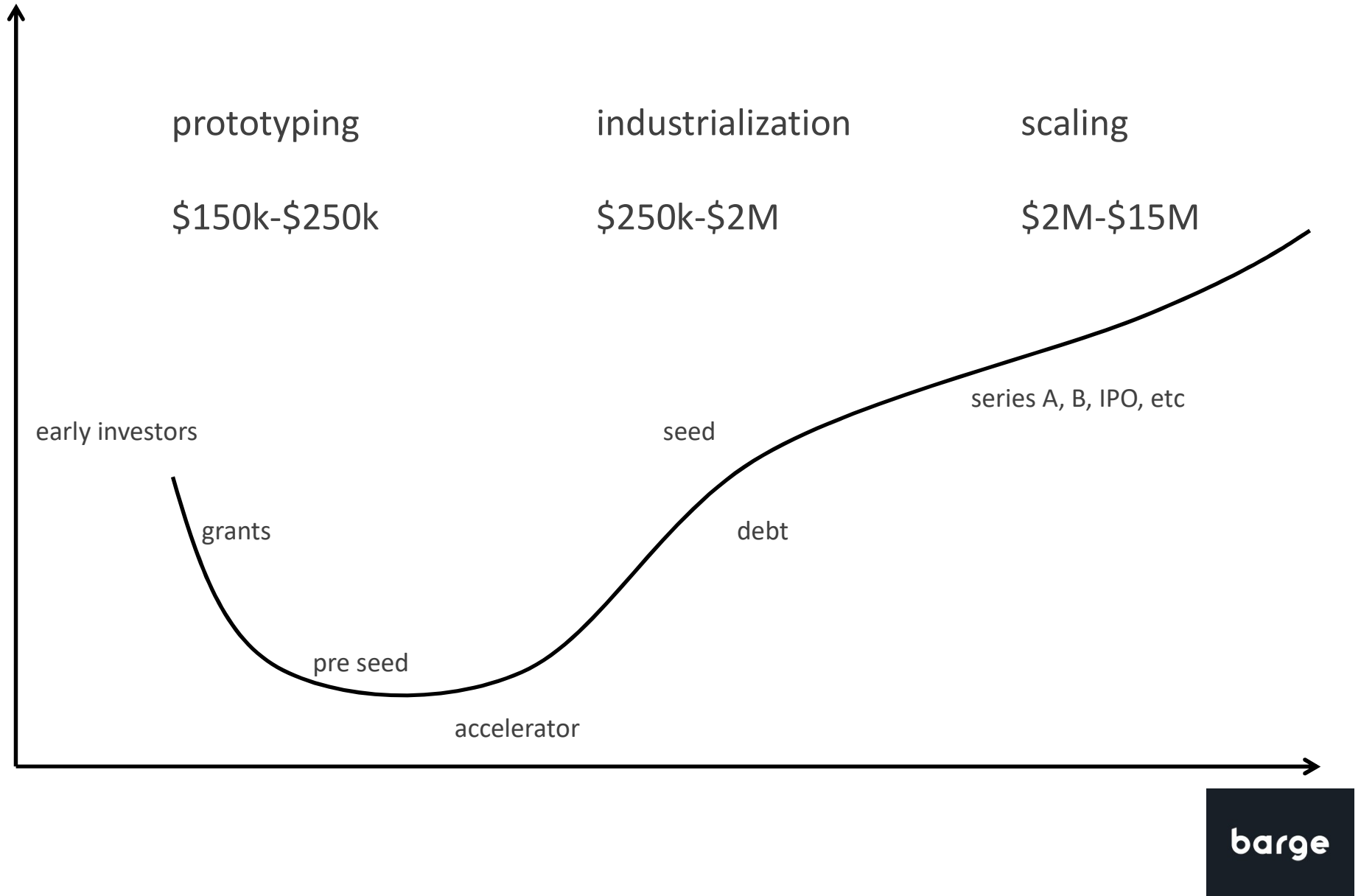


CAGR: 4 % between 2017-2024
(Source: Global Market Insight, 2018)

why the funding is important?

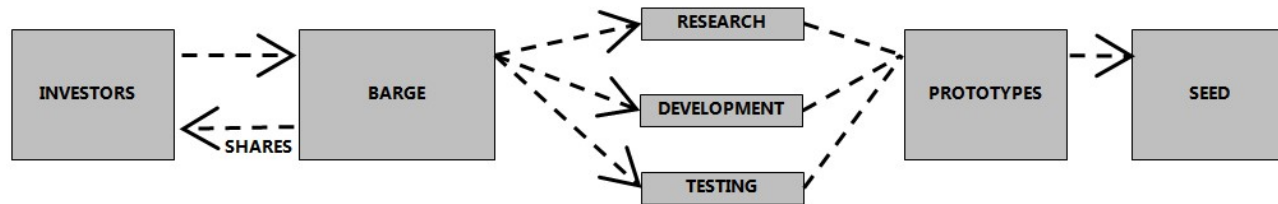
	prototyping	industrialization	scaling
funding need	\$150k-\$250k	\$250k-\$2M	\$2M-\$15M
funding use	components structure first design testing company creation	additive manufacturing moulds custom tools custom hardware test benches design&research hiring staff application build a small fleet pilot sharing centers	working capital hiring staff marketing production building a fleet sharing centers

steps

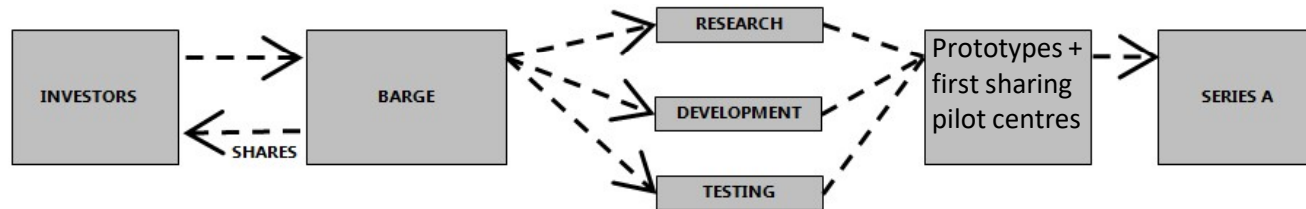


36 months plan

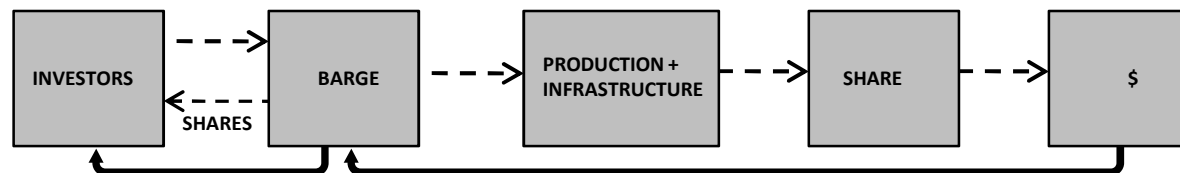
year 1. pre seed



year 2. seed



year 3. series A



team

Anton Toth, PhD, CEO, Founder.
Designer, CAD/CAM.



Iulian Berca, CTO, Co-Founder.
Hardware/Electrical Engineer&Inventor

