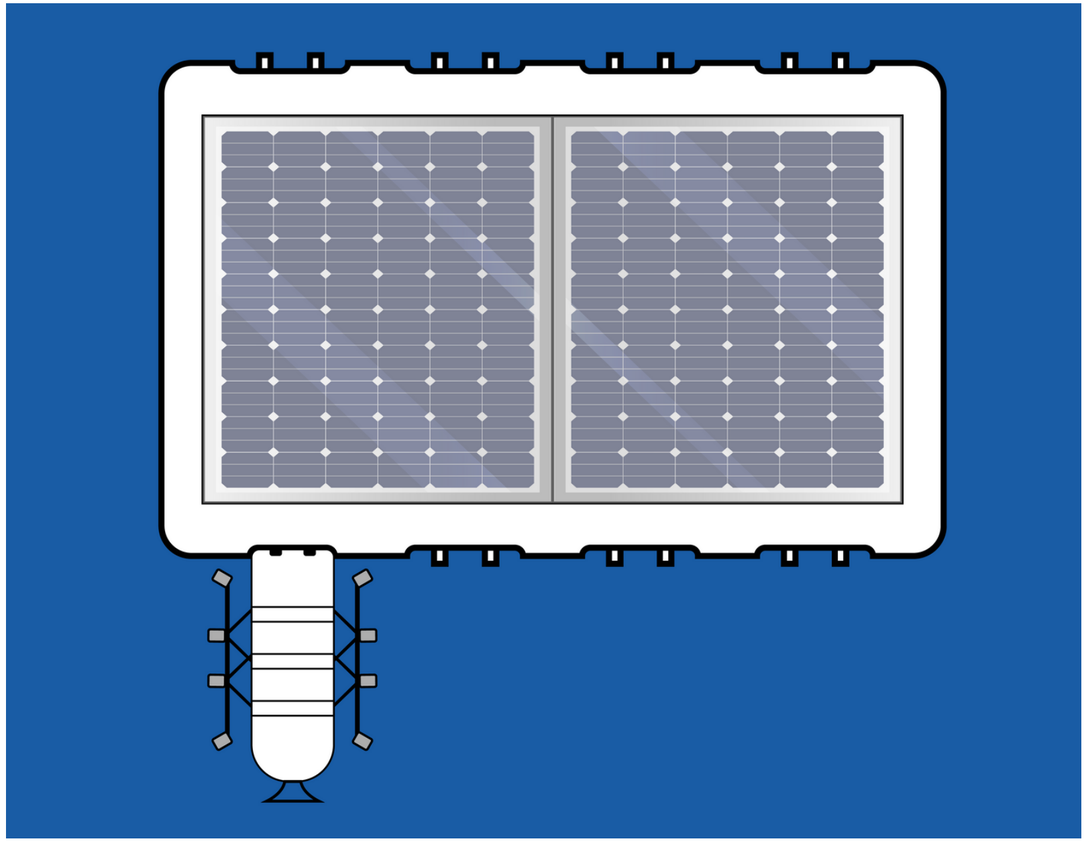
PROJECT: SIRIUS

WE ARE CHANGING THE WORLD'S DESTINY

YUSUF BORA EROĞLU - BURHAN ŞİMŞEK - MUHAMMET ŞANCI - BURCU ATMACA



WHAT'S OUR PROBLEM?

We can define marine pollution as: Particules, chemicals, worldwide waste, agricultural and industrial waste seeping into the oceans; thus, the spread of invasive species.

WHAT CAUSES IT?

AND WHAT CONTRIBUTES THO MOST TO IT?

A- Air pollution of the seas

B- Pollution of the seas from the sea

C- Pollution of seas from land

WHAT'S OUR SOLUTION?

OUR BACKGROUND

COMPUTER ENGINEERING

- Software and network engineering
- Image processing

STATISTICS

- Determining where to start cleaning based on: Locations that pollute the most & To what proportion can we decrease pollution in each location

THE SOLUTION

SOCIAL CAMPAIGN

BREAKING
NEWS
HUMAN
PROTECTION
ASSOCIATION
PEOPLE WASHED ASHORE
PEOPLE WASHED ASHORE DUE TO INCREASE SEA POLLUTION

BREAKING
NEWS
İNSANLARI
KORUMA
DERNEĞİ
İNSANLAR KARAYA VURDU
ARTAN DENİZ KİRLİLİĞİ SEBEBİYLE İNSANLAR KARAYA VURDU

BREAKING
NEWS
HUMAN
PROTECTION
ASSOCIATION
ANIMALS THREATEN HUMAN HEALTH
PEOPLE'S HEALTH IS IN DANGER DUE TO ANIMAL CAUSED POLLUTION

BREAKING
NEWS
İNSANLARI
KORUMA
DERNEĞİ
HAYVANLAR İNSAN SAĞLIĞINI TEHDİT EDİYOR
HAYVAN SEBEPLİ KİRLİLİKLER NEDENİYLE İNSANLARIN SAĞLIĞI TEHLİKEDE

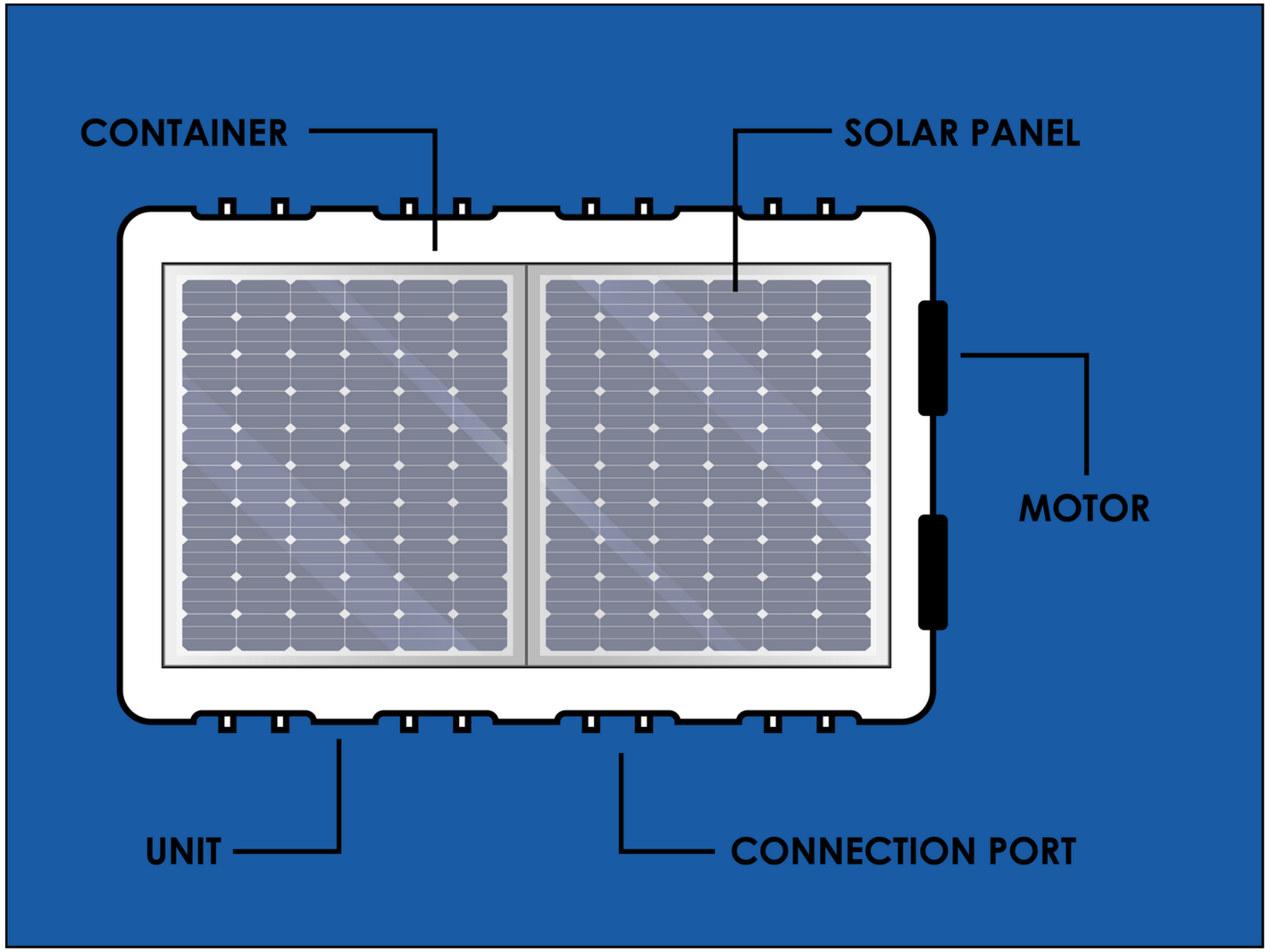
BREAKING
NEWS
HUMAN
PROTECTION
ASSOCIATION
10.000 LIVING PEOPLE LEFT
ANIMALS POLLITION CAUSED HUMAN EXTINCTION

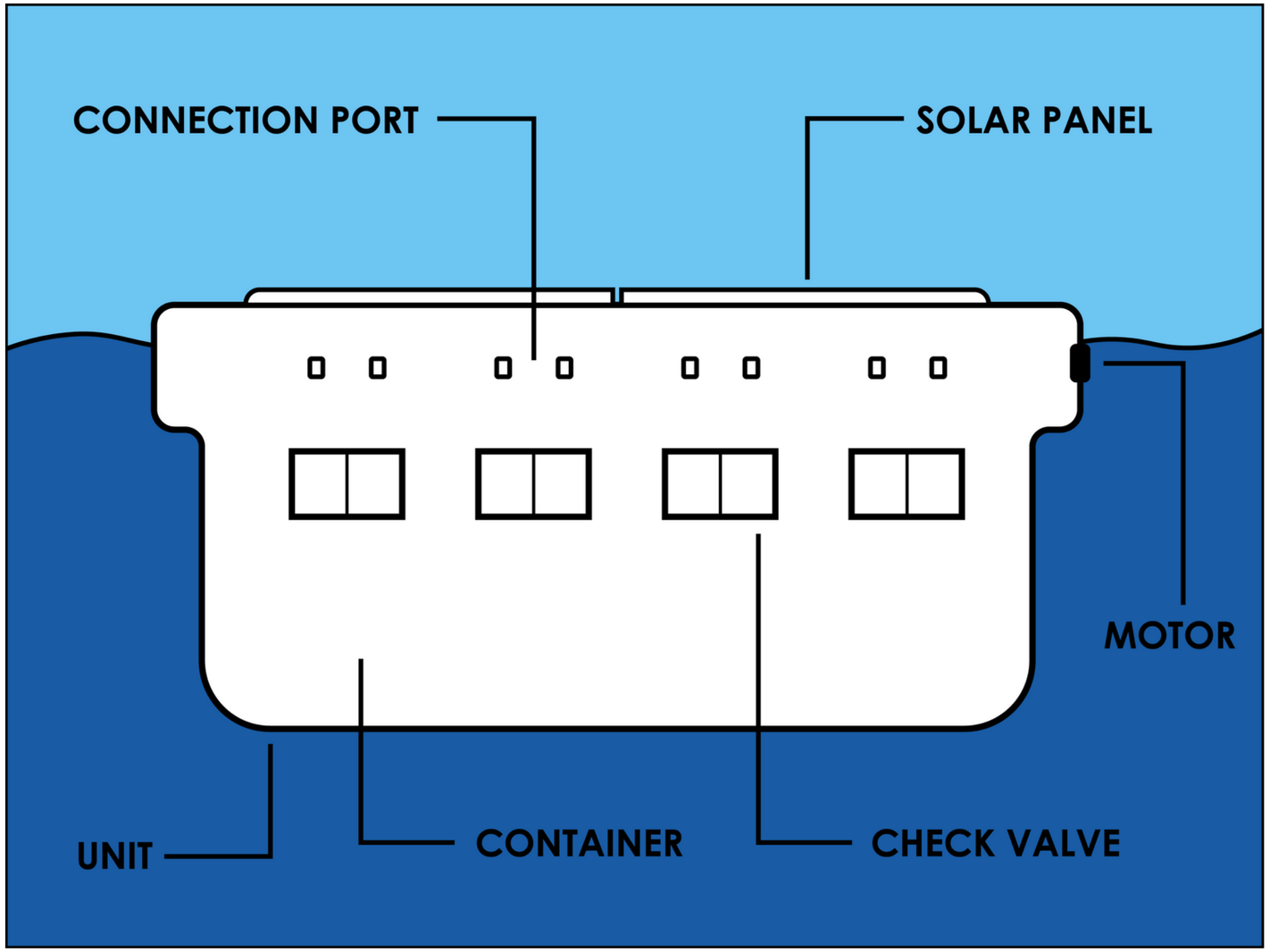
BREAKING
NEWS
YAŞAYAN 10.000 İNSAN KALDI
HAYVAN KAYNAKLI ARTAN KİRLİLİK SEBEBİYLE İNSAN SOYU TÜKENİYOR
İNSANLARI
KORUMA
DERNEĞİ

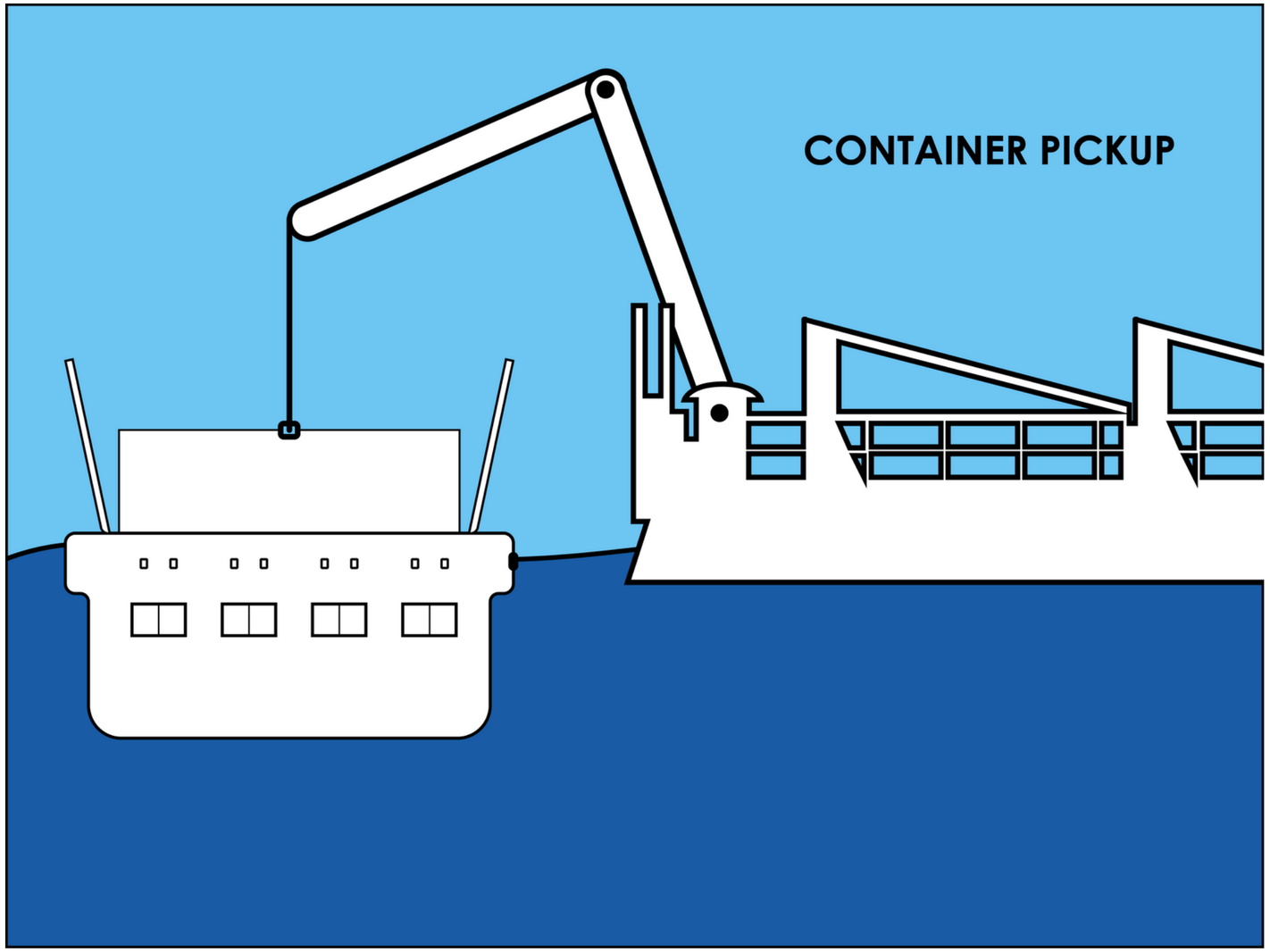
TECHNICAL SOLUTION

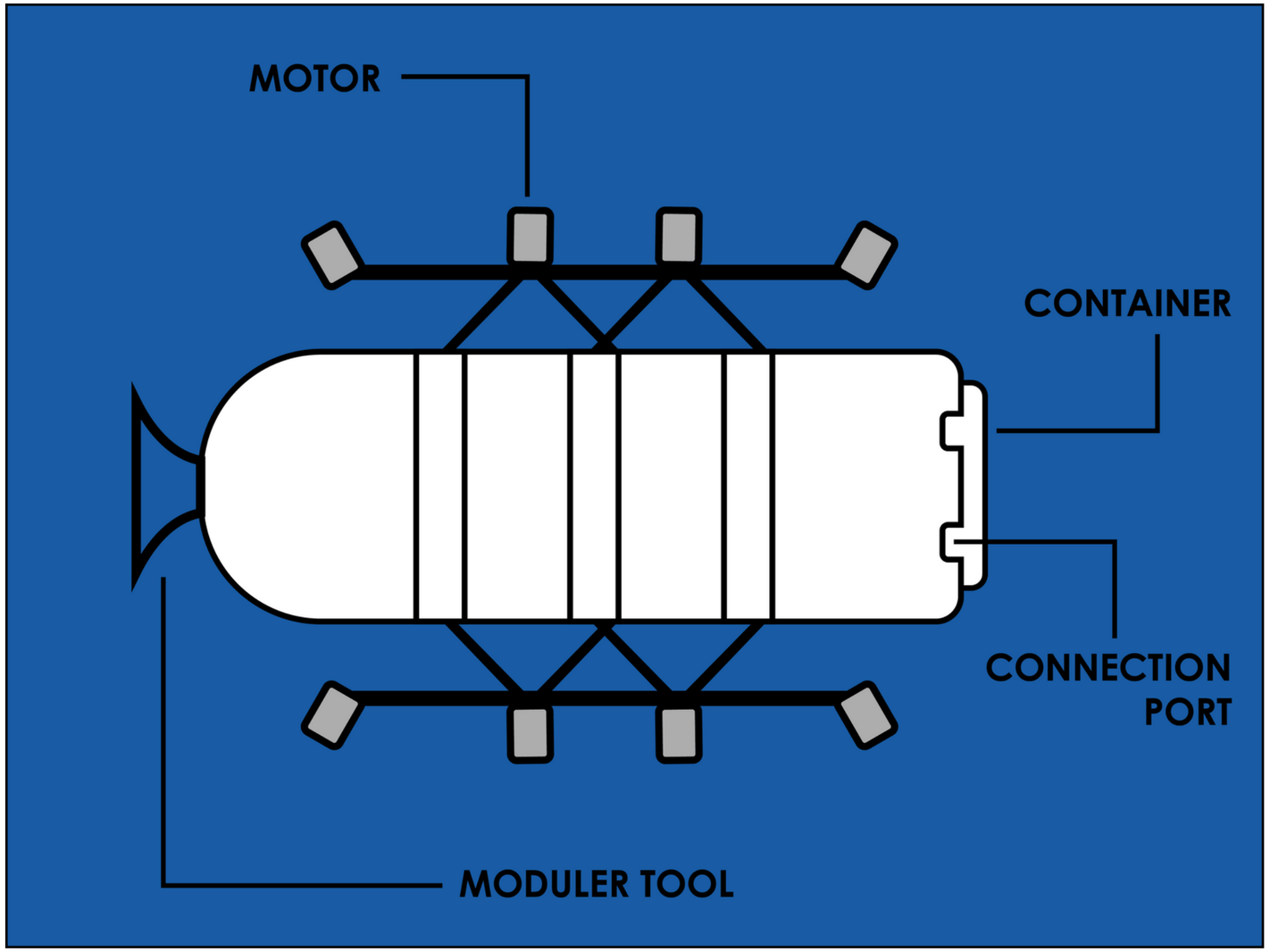
FEATURES

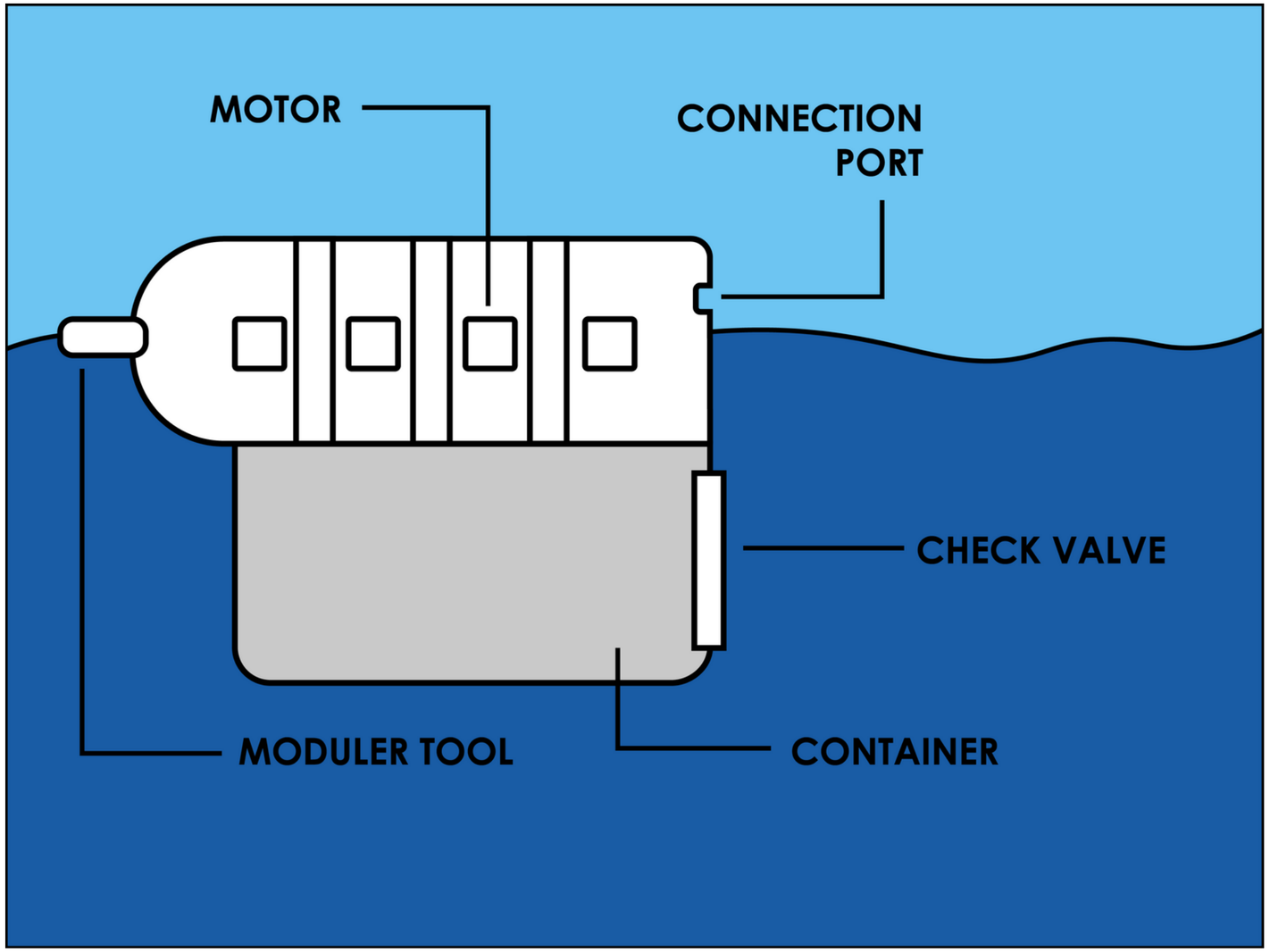
- Fully autonomous underwater vehicles
- A docking platform
- Solar panels
- Able to work 24/7
- Equipped with water analyzers
- Modular

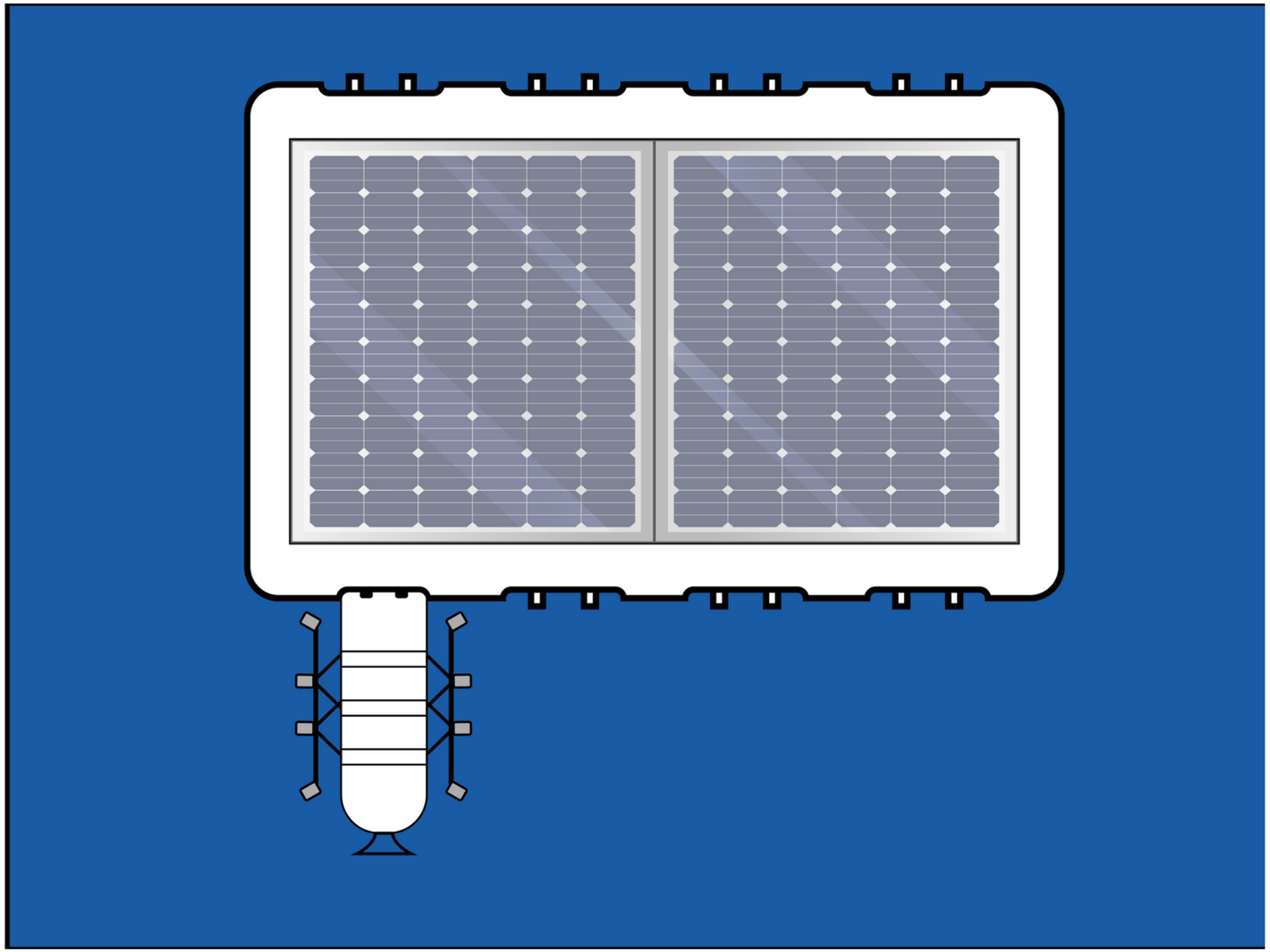

CONTAINER
SOLAR PANEL
MOTOR
UNIT
CONNECTION PORT


CONNECTION PORT
SOLAR PANEL
MOTOR
UNIT
CONTAINER
CHECK VALVE


CONTAINER PICKUP


MOTOR
CONTAINER
CONNECTION PORT
MODULER TOOL


MOTOR
CONNECTION PORT
CHECK VALVE
MODULER TOOL
CONTAINER



TWO METHODS

CARRY GARBAGE

- Software and network engineering
- Image processing

COLLECT INFO AND STATISTICS

- Determining where to start cleaning based on: Locations that pollute the most & To what proportion can we decrease pollution in each location

OUR WORK PLAN

COLLECT INFO

CHOOSE OPTIMAL DEPLOYMENT LOCATION

BUDGET

- 2.500 dollars per AUV
- 30.000 dollars per fleet (8 AUVs - 1 PLATFORM UNIT)

FEASIBILTY

- Based on our previous experience, we have seen that this kind of vehicle can be produced in our previously specified budget. Software can be developed with our team which has three programmers, one of them very experienced in deep learning.

THE END