

作品編號
Project Number

000222

共創單位
Co-creation 和碩聯合科技 PEGATRON

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 微生物溝通系統
Microbial Communication System



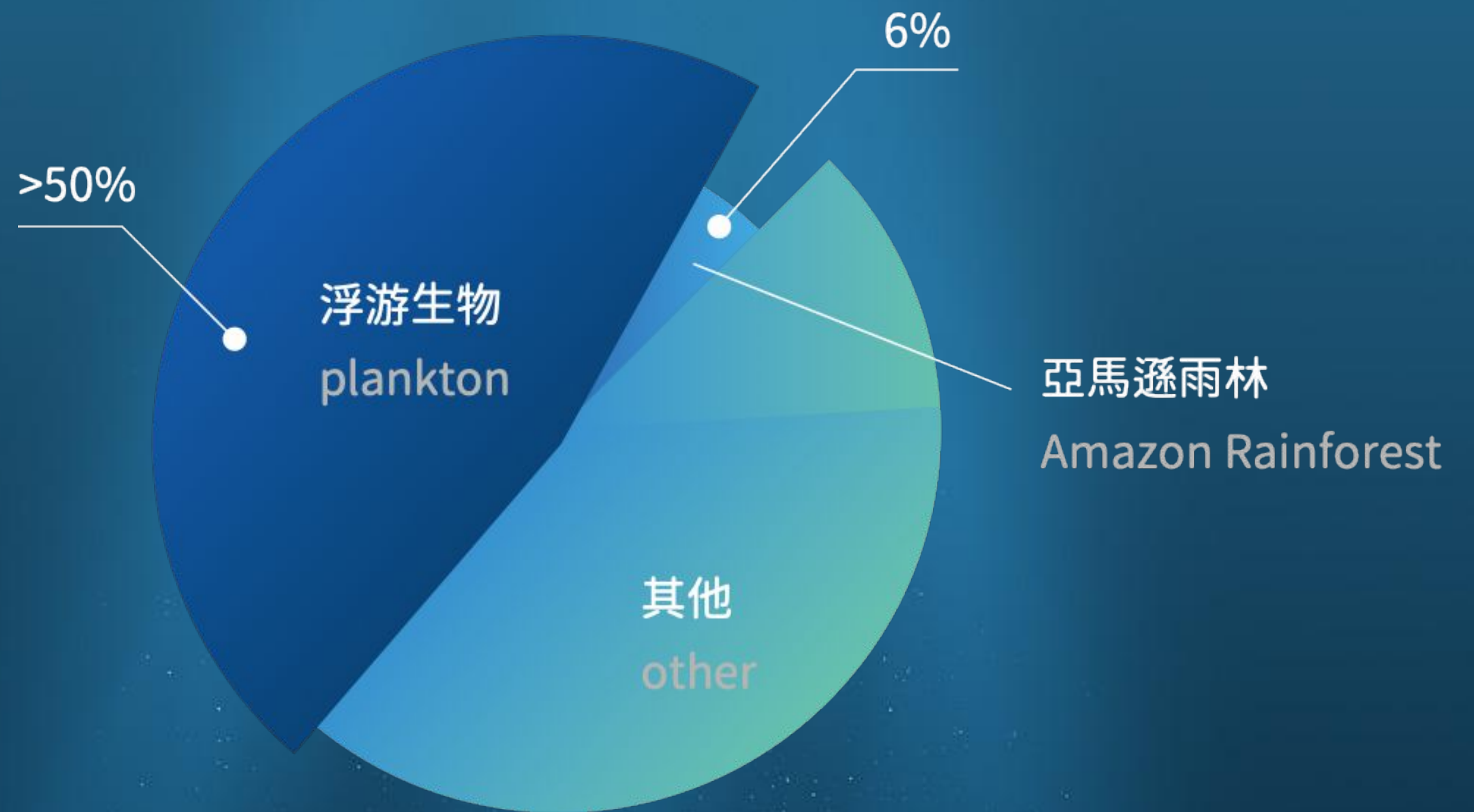
MICROBIAL
IDENTIFICATION
RESEARCH



Microbial Communication System

浮游生物:

佔據地球百分之五十以上的供氧量, 對環境有巨大的影響力。



有害藻華:

因微生物大量孳生導致河川水質中會產生神經毒素，造成生物大量死亡，對生態跟沿海經濟影像劇烈。

HARMFUL ALGAL
BLOOMS



Microbial Communication System



Human



Mammal



Bird



Amphibian



Reptile



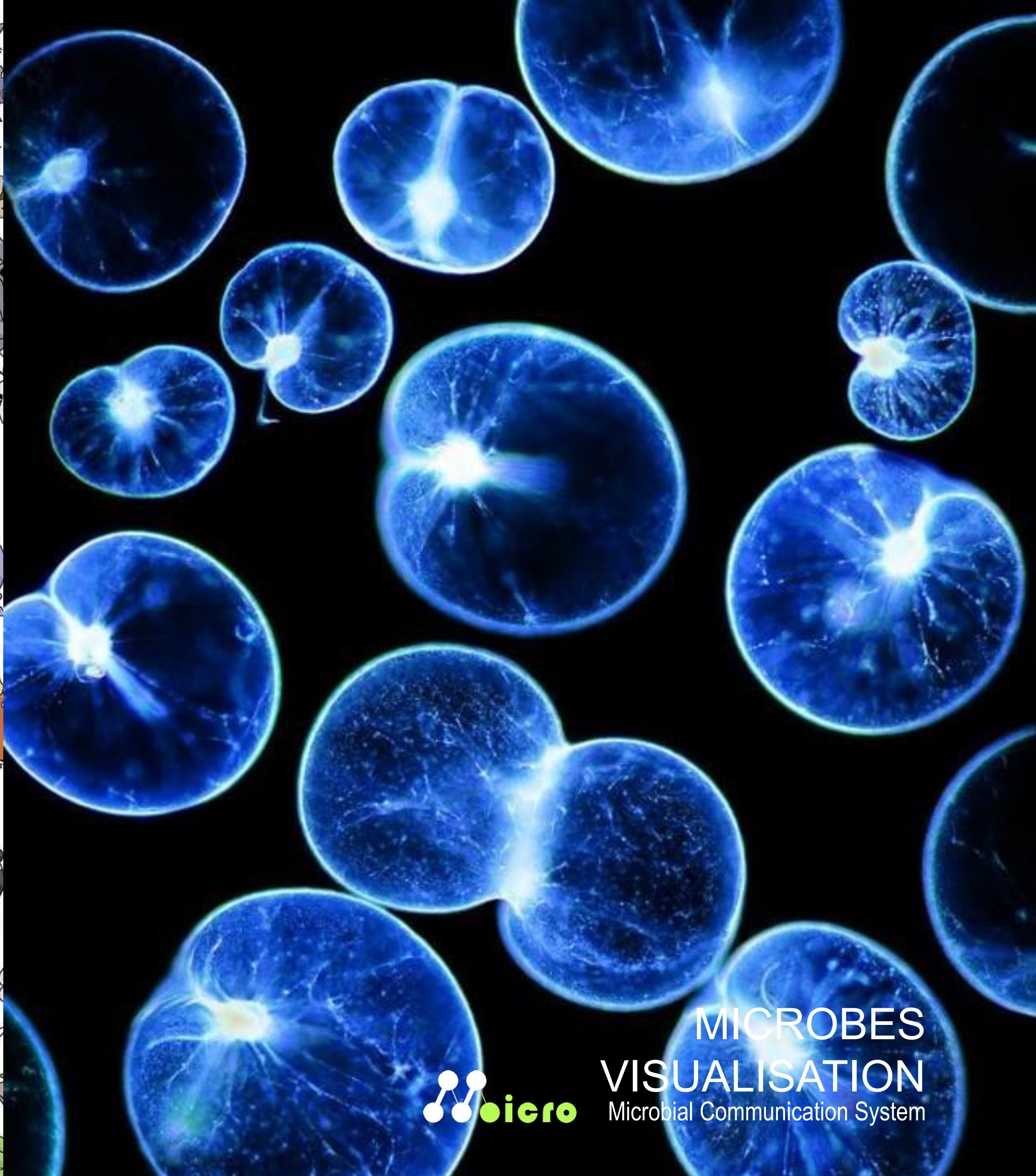
Bug



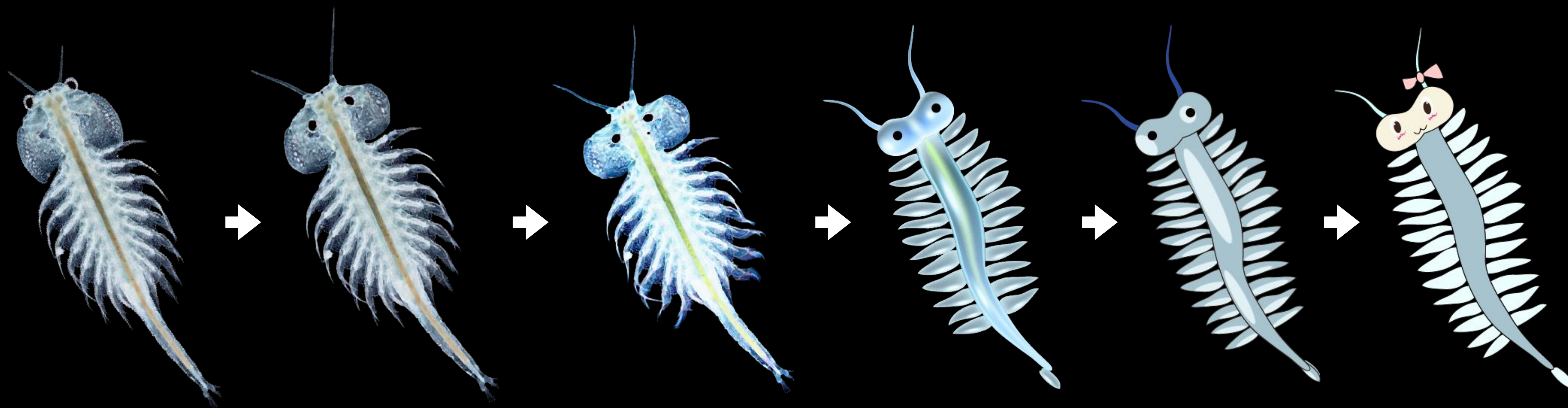
Bacteriophage



人類傾向於喜愛與我們基因相似的較高的生物。



MICROBES
VISUALISATION
Microbial Communication System



透過科技裝置將其可愛化，並提升其互動性，
藉此提升我們和微生物的連結。



MICROBES
VISUALISATION
Microbial Communication System



Microbial Communication System 微生物溝通系統



該計畫試圖透過奈米機器人技術，組建一個與環境微生物的即時溝通系統，透過對環境微生物的週期、種類、數量等觀測，得知未來河川、湖泊等環境變化的趨勢與走向，並對於可能產生的污染與災害進行即時的預警。奈米機器人對環境物種進行探測之後，也能通過手機APP即時顯示物種、讓民眾到大自然中休憩時，也能得到搜集微生物的趣味，縮短我們與微生物相互理解上的限制，以此提升群眾對環境、微觀物種的關注與意識，在遊戲中一起觀察環境的變化，並期望在雙向的對話中拉近人類與非人物種的距離。

This project aims to establish a real-time communication system with environmental microorganisms through nanorobot technology. By observing the cycles, types, and quantities of environmental microorganisms, it aims to predict trends and developments in future changes in environments such as rivers and lakes. Additionally, it provides real-time warnings for potential pollution and disasters. After detecting environmental species, nanorobots can also display species information instantly through a mobile app. This allows the public to engage in the fascinating task of collecting microorganisms while enjoying nature, thereby reducing the limitations in our mutual understanding with microorganisms. The goal is to enhance public awareness and interest in the environment and microscopic species, collectively observing environmental changes in a game-like context, and fostering closer interaction between humans and non-human species through two-way dialogue.

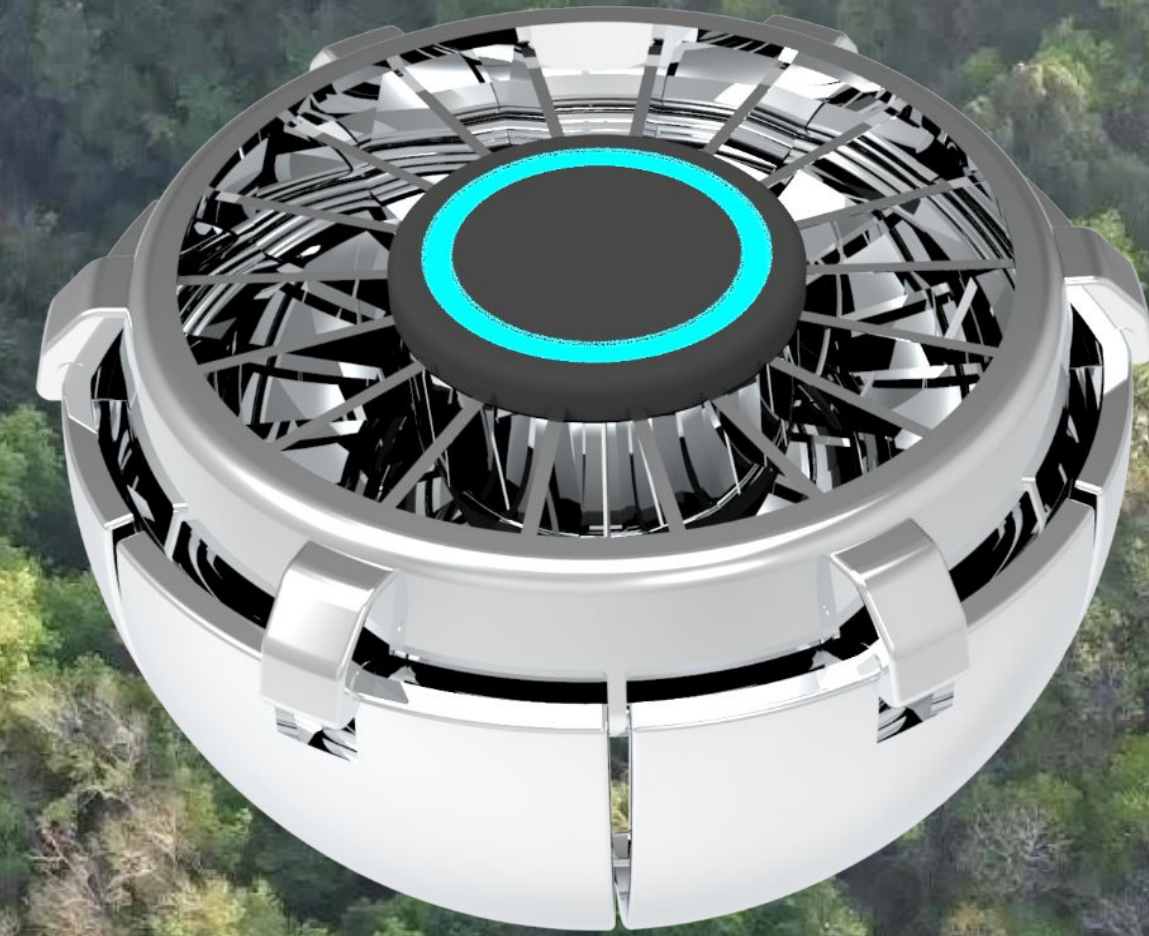


PROJECT DESCRIPTION

Microbial Communication System



AQUA



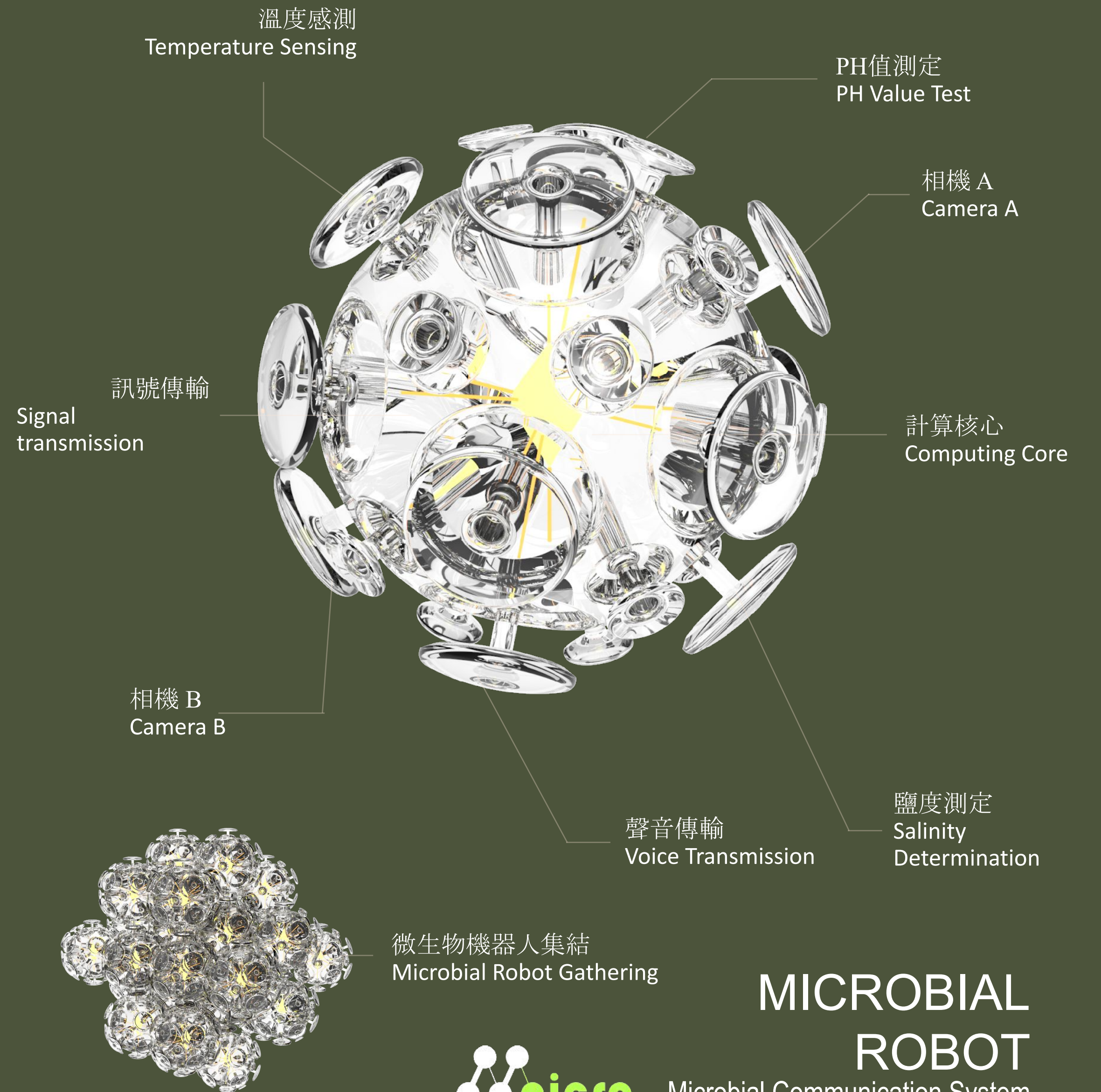
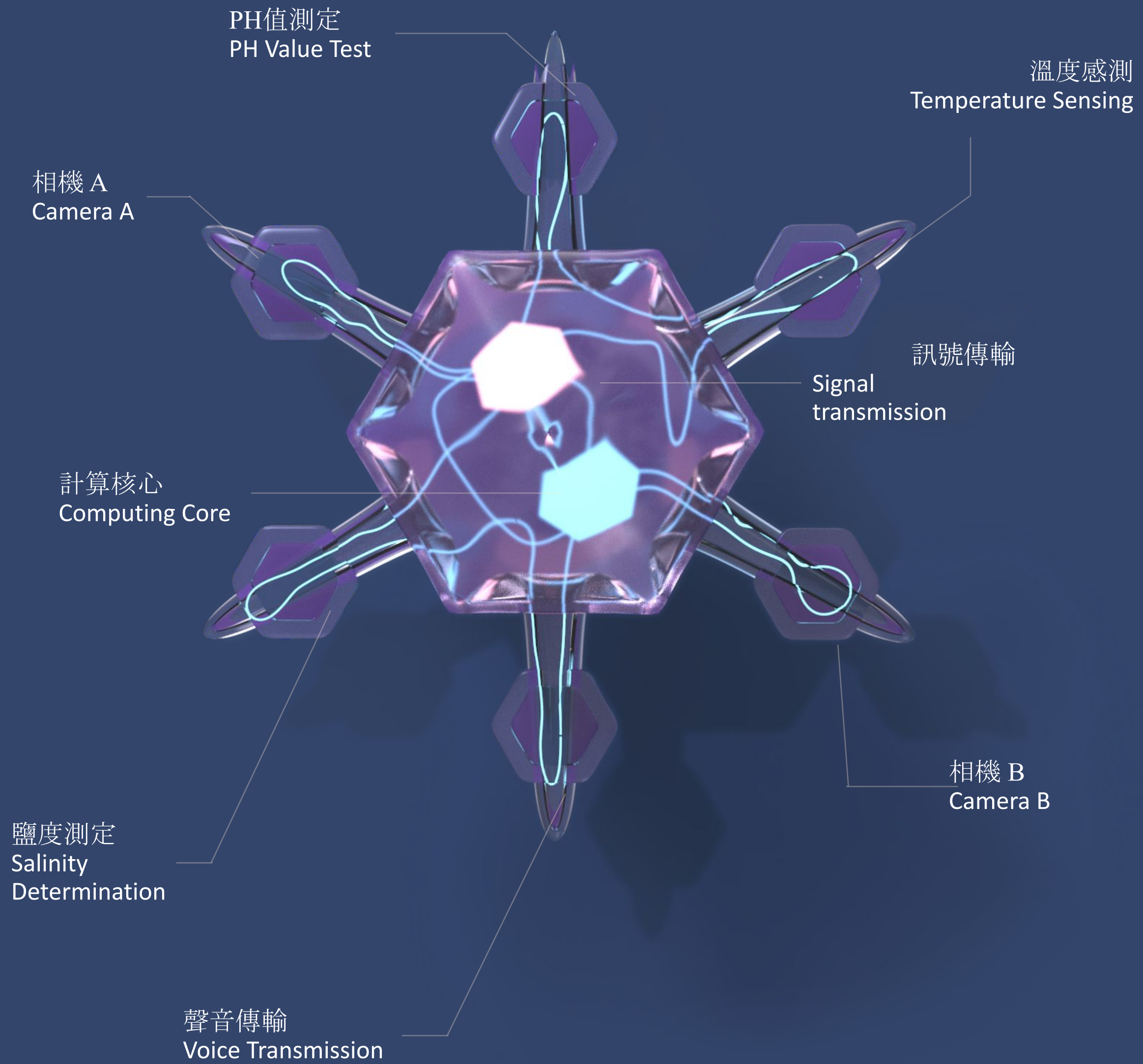
SKY & TERRACE

TRANSPORT SYSTEM
EXPLORATION
 Microbial Communication System

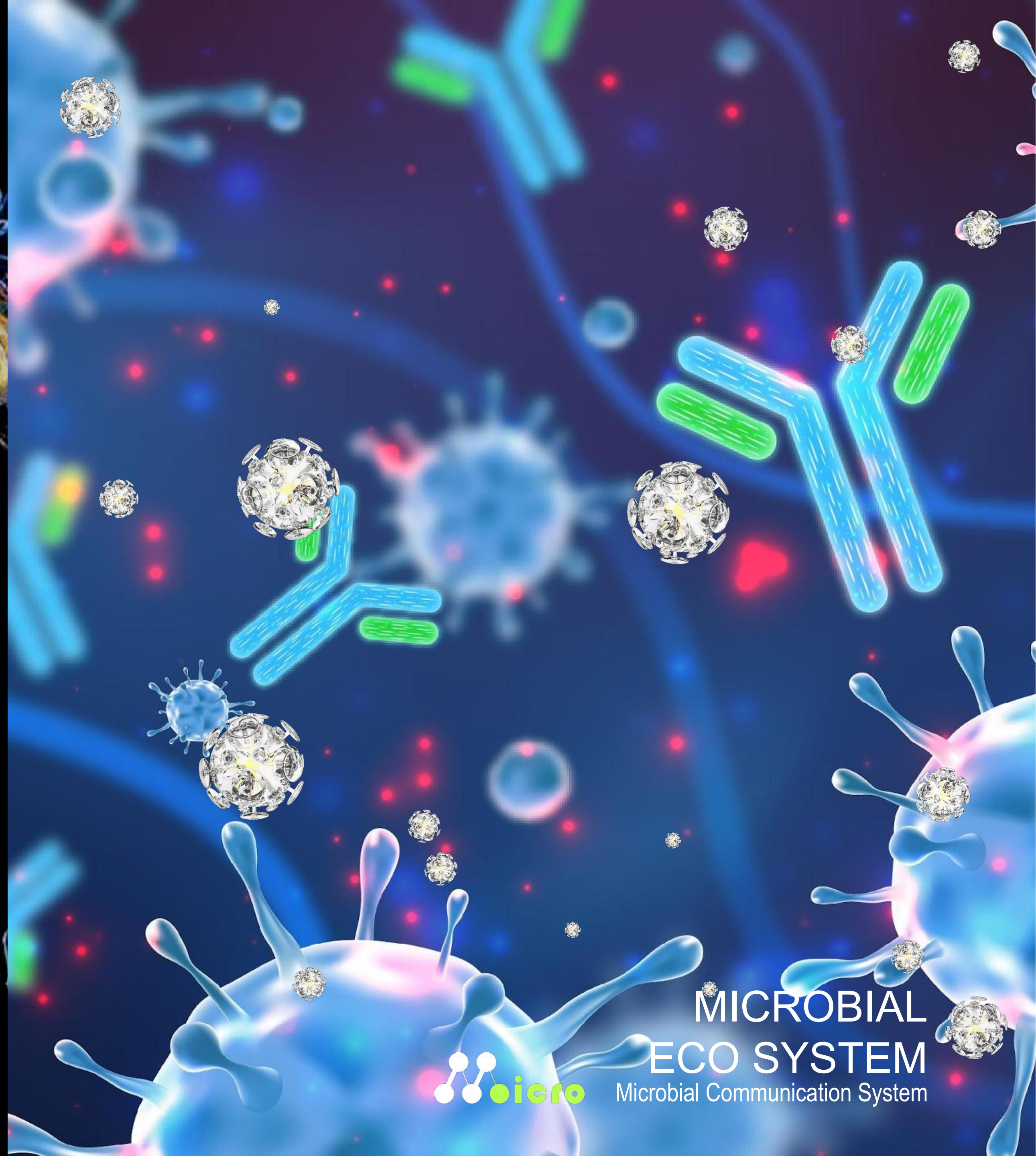


TRANSPORT SYSTEM
DELIVERY

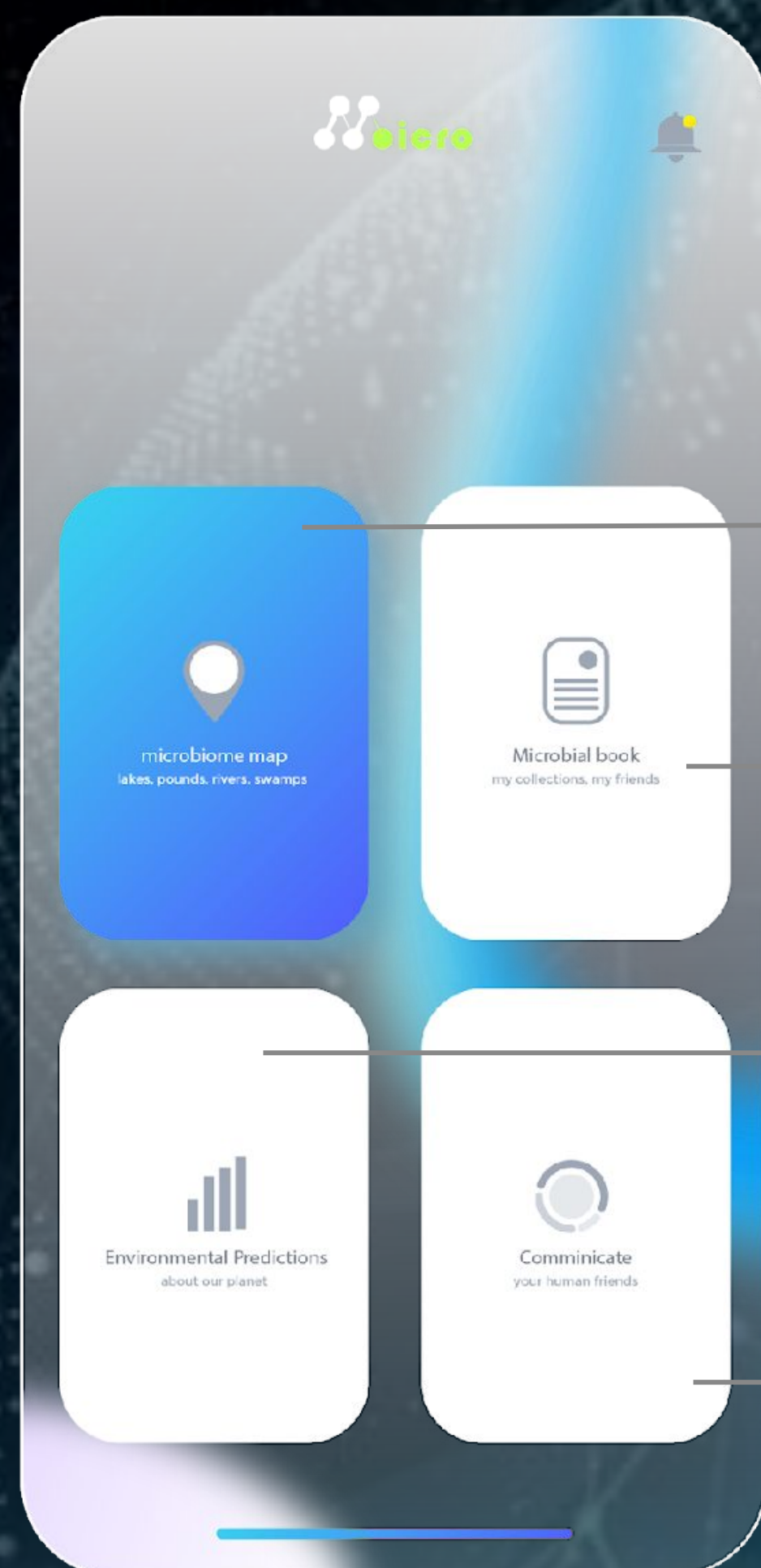
 Microbial Communication System



**MICROBIAL
ROBOT**
Microbial Communication System



MICROBIAL
ECO SYSTEM
Microbial Communication System



微生物地圖
Microbial Map

微生物搜集冊
Microbial Book

環境預測
Environmental predictions









社群交流
Social Media
Communication

COMMUNICATION
APP



Microbial Communication System

STEP 1

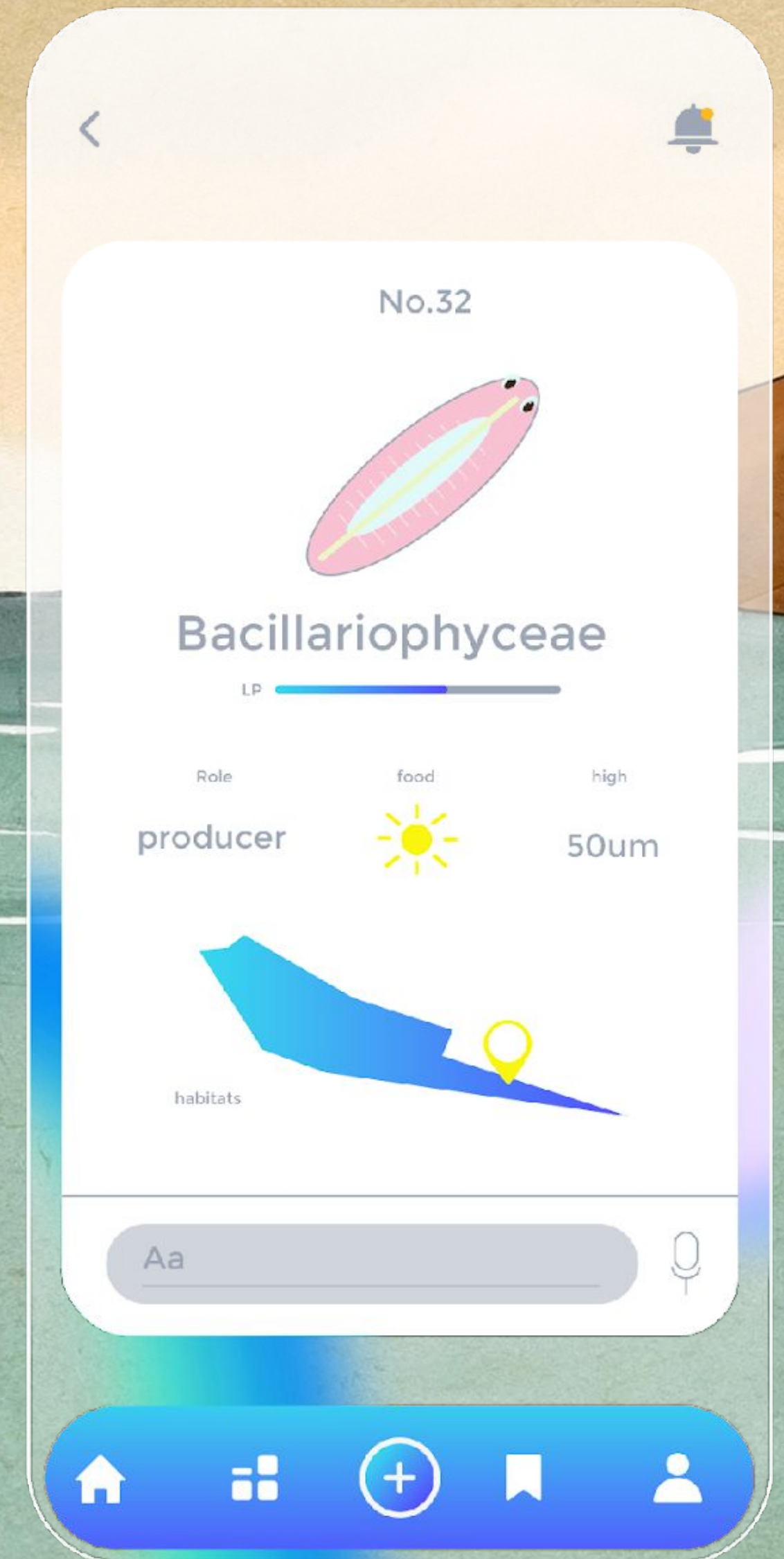
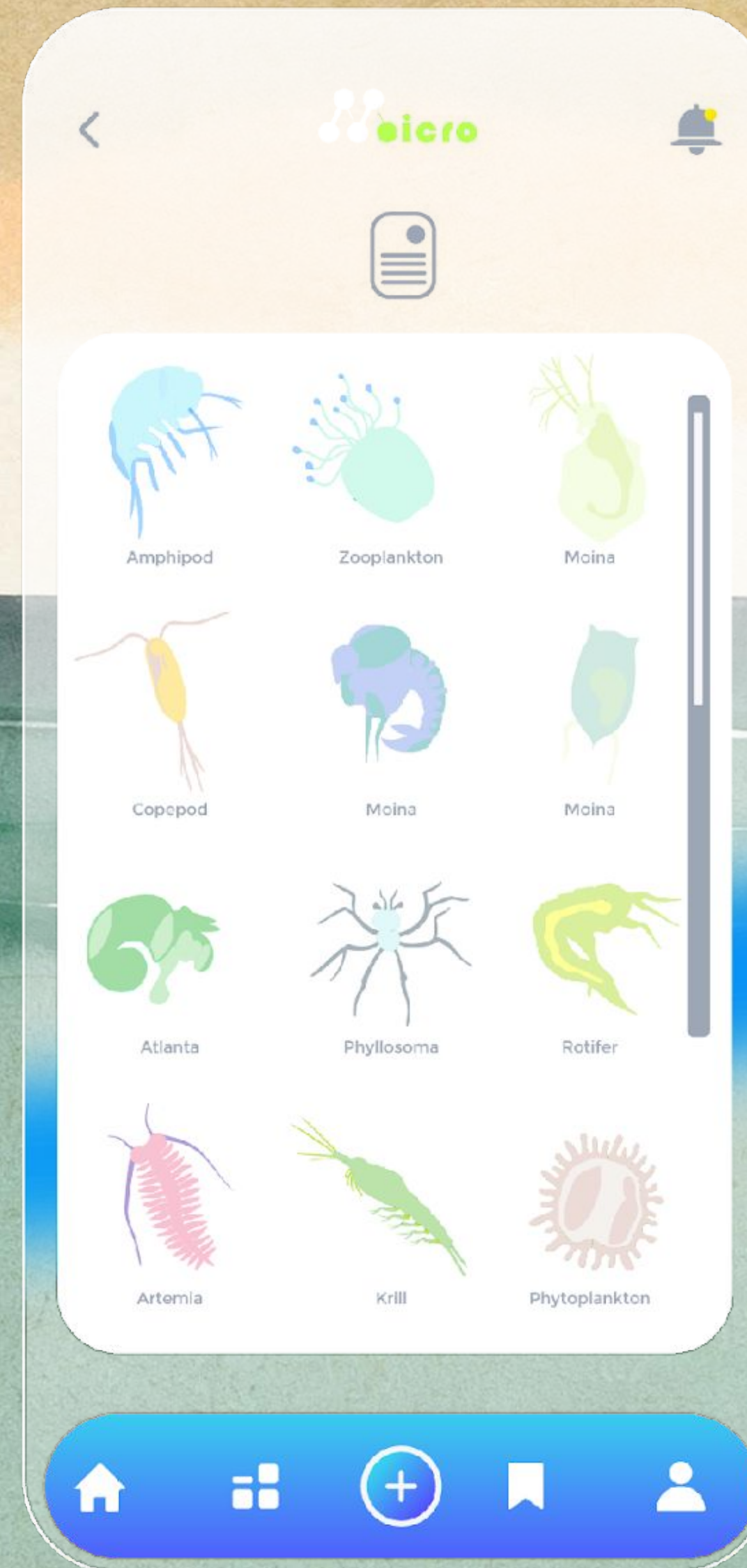
-  **micro**
-  My Locations
-  Lastest Locations
-  Settings
-  Help
-  Support
-  Share Location
-  Signout



MICROBIAL
MAP

Microbial Communication System

STEP 2

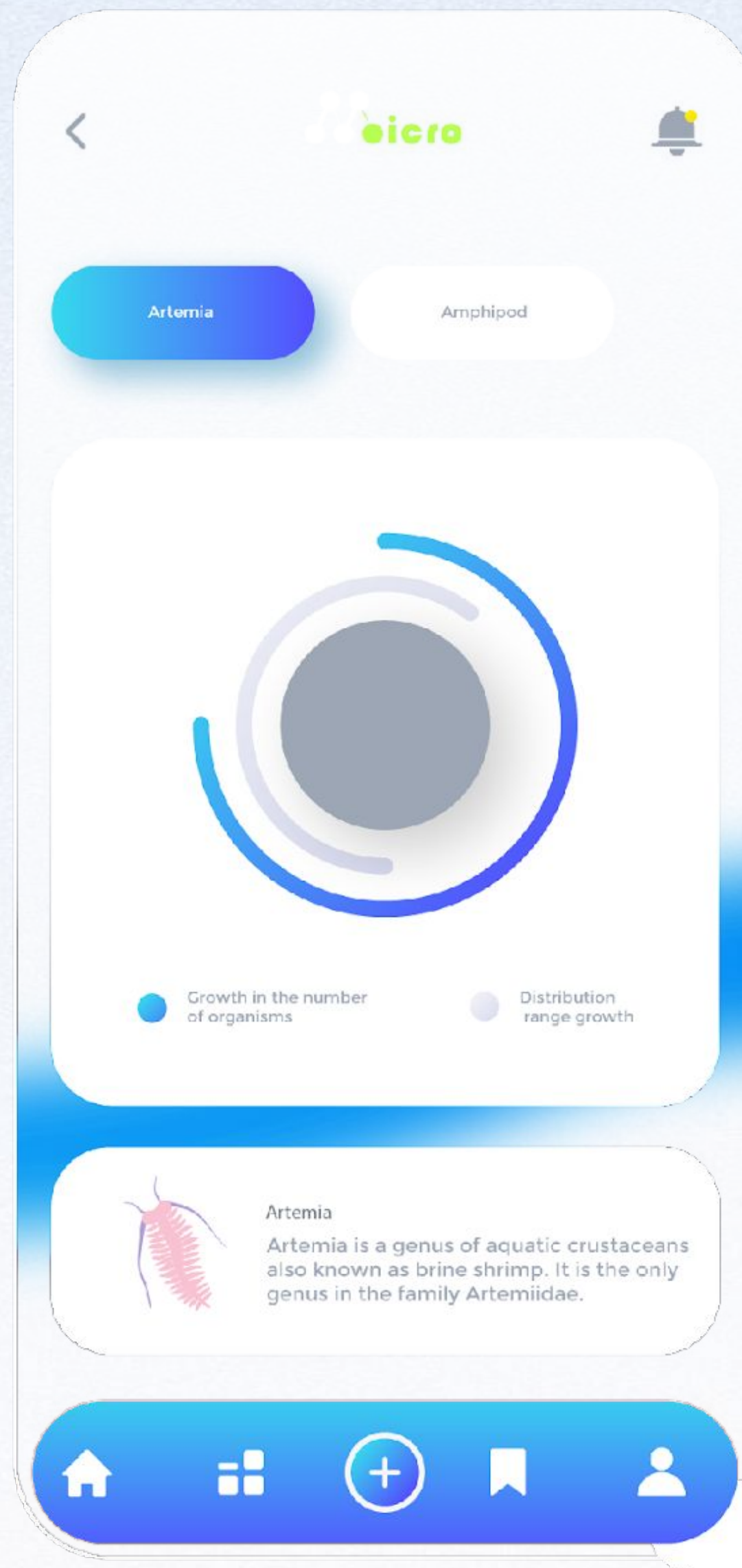


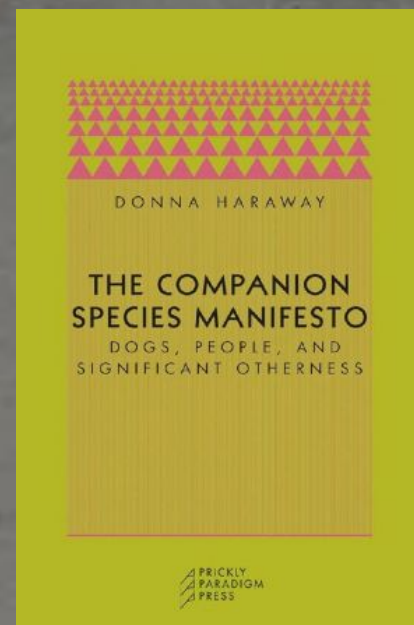
MICROBIAL
BOOK



Microbial Communication System

STEP 3





唐娜·哈洛威《伴侶物種宣言》

我們與動物的關係總先於牠們的存在，亦即牠們之所以是什麼，在於我們和牠們維持的關係，哈洛維將「關係」(relation)作為一個分析的最小單位，尋求重新磨塑 (remolding/remodeling) 的機會，重新看待我們身邊的物種，也使我们必須隨時調整自己，尋求與他者的適當的關係與距離。

Our relationship with animals precedes their existence, meaning what they are is determined by the relationships we maintain with them. Harlowe considers "relation" as the smallest unit of analysis and seeks opportunities for remolding and remodeling the species around us. This also requires us to constantly adjust ourselves, seeking appropriate relationships and distances with others.