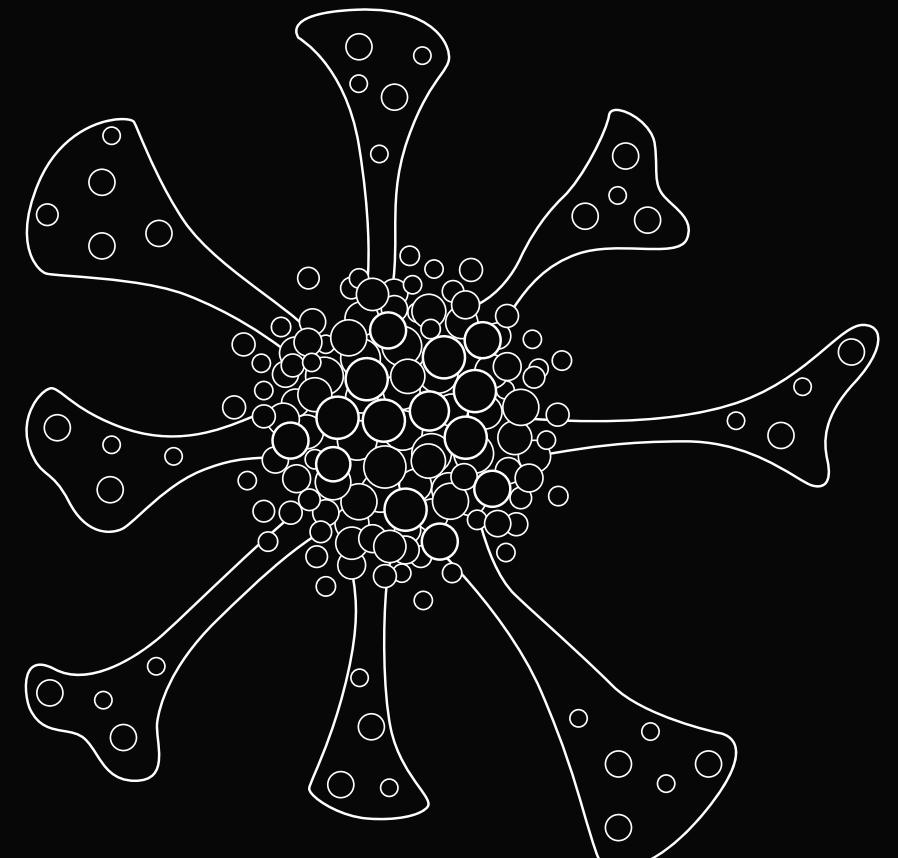


# AICO For Carbon Sequestration in Pounds and Rivers

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# What is CARBON sequestration?

**Carbon sequestration** is a natural process that captures and stores carbon dioxide from the atmosphere.

# Current Challenges

Traditional carbon sequestration methods involve high initial investment and operational cost, posing a financial challenge.

The current methods face limitations in scaling up to meet the increasing demand for carbon sequestration.

Existing method are hindered by technological limitations, impacting their effectiveness and efficiency.

Some traditional methods may have negative environmental impacts, undermining their sustainability goals.

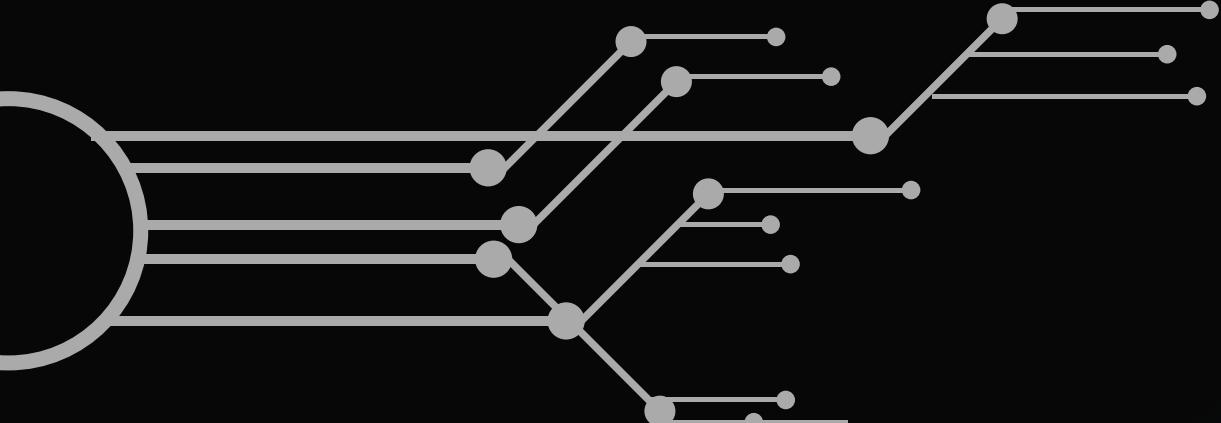
# The Importance of Carbon sequestration in Rivers

Scientists from WHOI revealed that the world's rivers annually transport 200 megatons (200 million tons) of carbon to the ocean.



Leveraging AI, we can implement effective strategies to reduce CO<sub>2</sub> levels in rivers, contributing to environmental sustainability.





# What is AICO?

We will build Sensor Network and Deploying sensor networks equipped with AI capabilities which can provide real-time data on environmental conditions, helping to understand and respond to changes that affect phytoplankton.

# positive impacts of AICO



## Climate Mitigation

By capturing and storing carbon, we can help reduce greenhouse gas concentrations and limit global warming.



## Help grow Phytoplanktons

To grow phytoplanktons, we'll need to monitor environmental factors like light, temperature, and nutrient levels.



Phytoplankton create about 50% of our earth's oxygen.

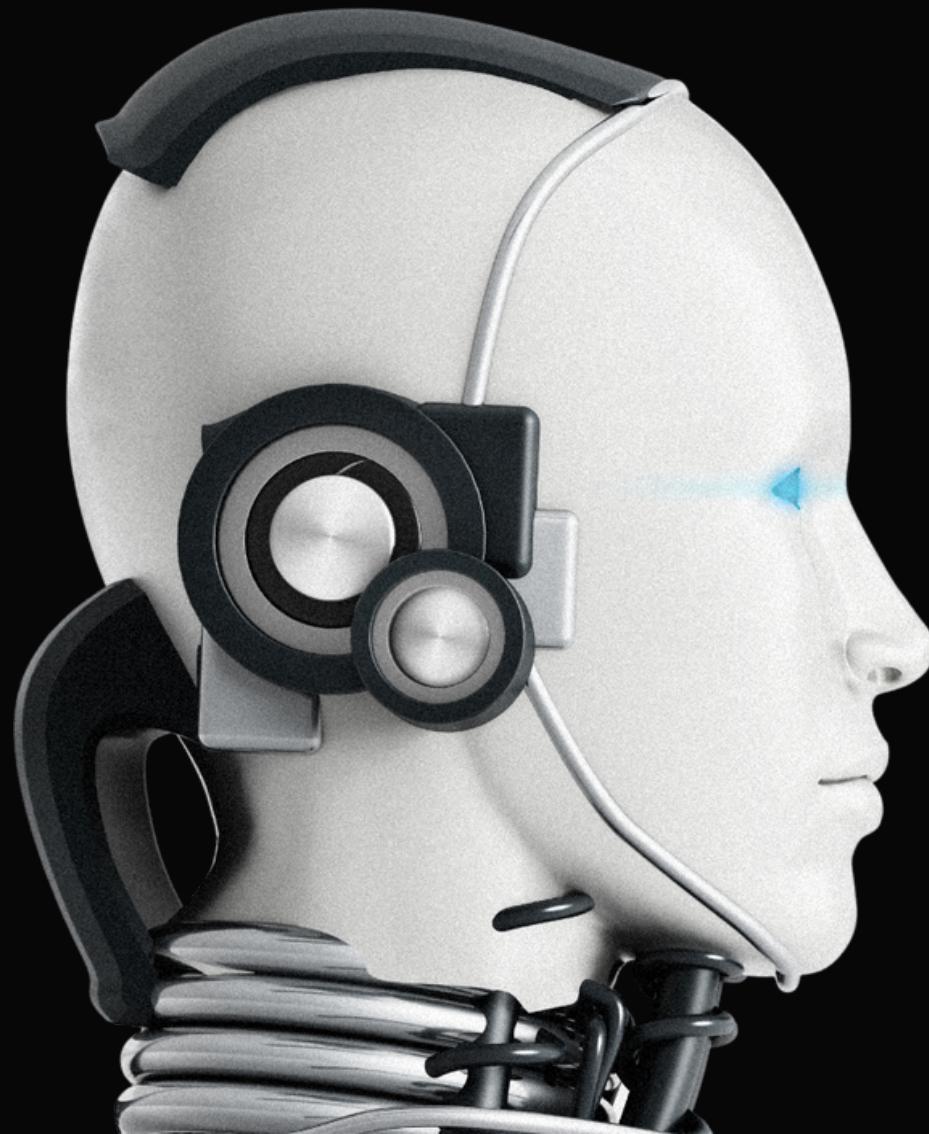


## Habitat regeneration

Supports diverse plant and animal species. Healthy ecosystems contribute to overall biodiversity and ecological balance.

# Benefits of AI

Dicussing the potential benefit of utilizing AI for carbon sequestration.



## Increased Accuracy

AI can enhance the accuracy of carbon sequestration processes, leading to more effective outcomes.

## Cost Reduction

Utilizing AI in carbon sequestration can lead to reduced costs through optimized processes and resources allocation.

## Enhanced Environmental impact

AI can contribute to a positive environmental impact by improving the efficiency of carbon sequestration methods.