

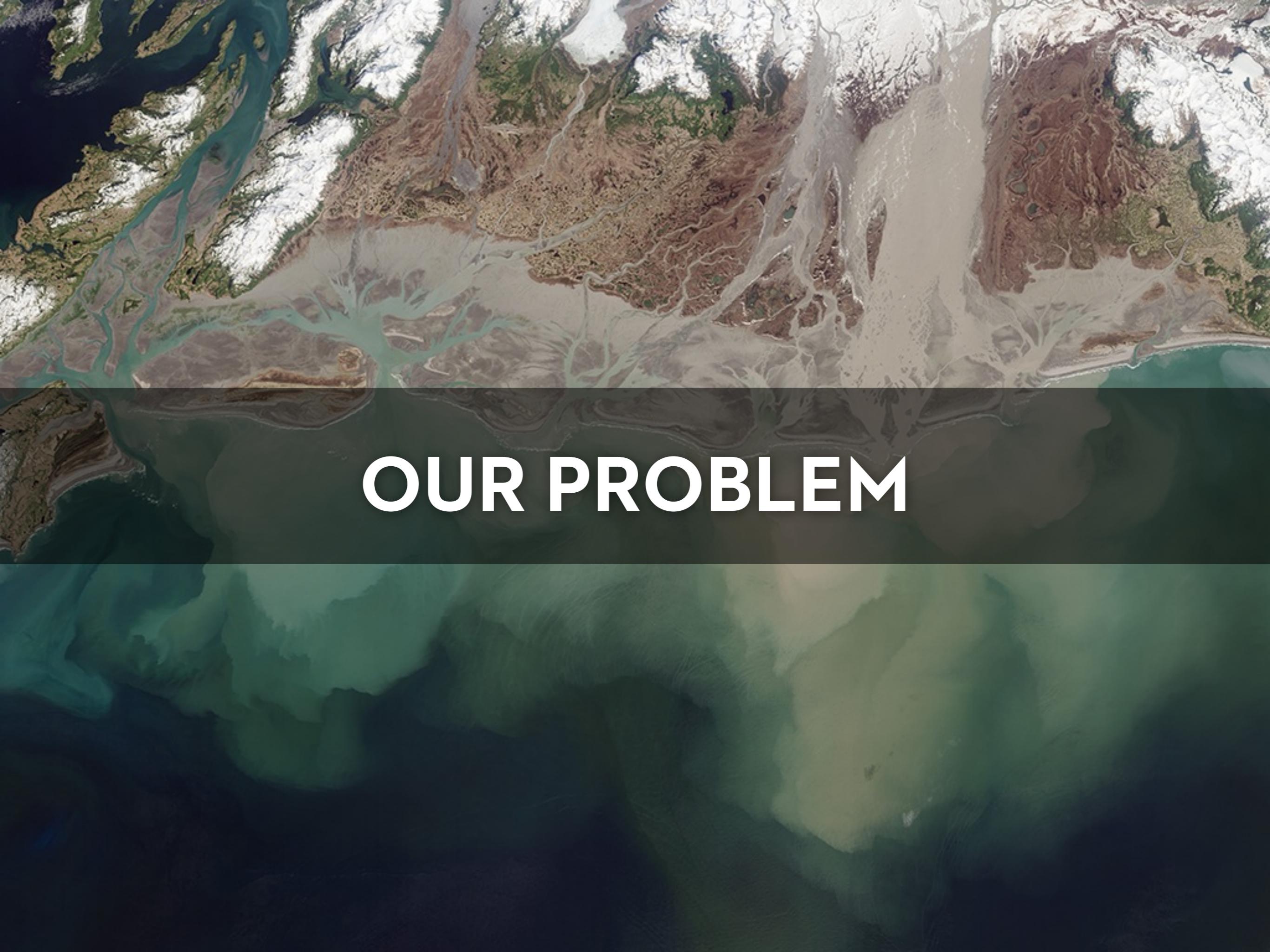


THE GLOBAL
CO₂ SCIENCE INITIATIVE



Transforming CO₂ from a liability to an asset

A plan to build a transdiscipline and an industry

A high-angle aerial photograph of a coastal region. In the upper portion of the image, a large river system flows from the interior land towards the ocean, creating a complex delta. The surrounding terrain is a mix of brown, tan, and green colors, indicating different types of vegetation and soil. In the background, there are snow-capped mountain peaks. The lower half of the image is dominated by a dark, greenish-blue color, likely representing the ocean or a very dense forest.

OUR PROBLEM

OUR PROBLEM

According to the IPCC, global greenhouse gas emissions must be reduced by 50 to 80 percent by 2050 to avoid dramatic consequences of global climate change.

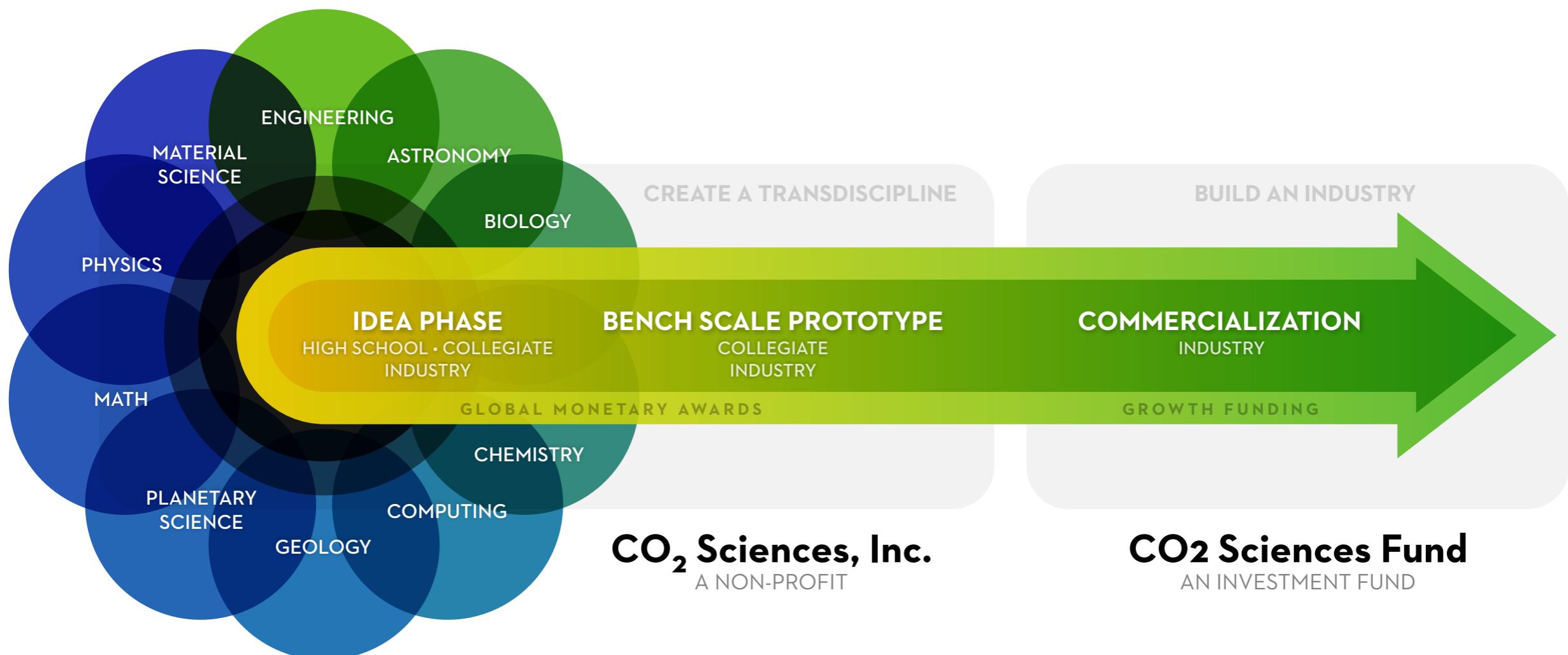
- Despite near-consensus on the need to cut CO₂, there is little or no certainty as to how and when **governments** will act
- **Business**, meanwhile, is poised to act as a powerful driver of market-based solutions. However, they tend to view the cost of CO₂ as an externality
- **Non-governmental organizations** drive moral and political debates around climate change but generally have little direct leverage to affect atmospheric CO₂ via science and innovation

The background image is a high-resolution aerial photograph of a tropical island or archipelago. The islands are characterized by their white sandy beaches and dense, dark green tropical forests. The water surrounding the islands is a vibrant turquoise color, with darker blue patches indicating deeper ocean areas. The overall scene is one of natural beauty and tranquility.

THE SOLUTION

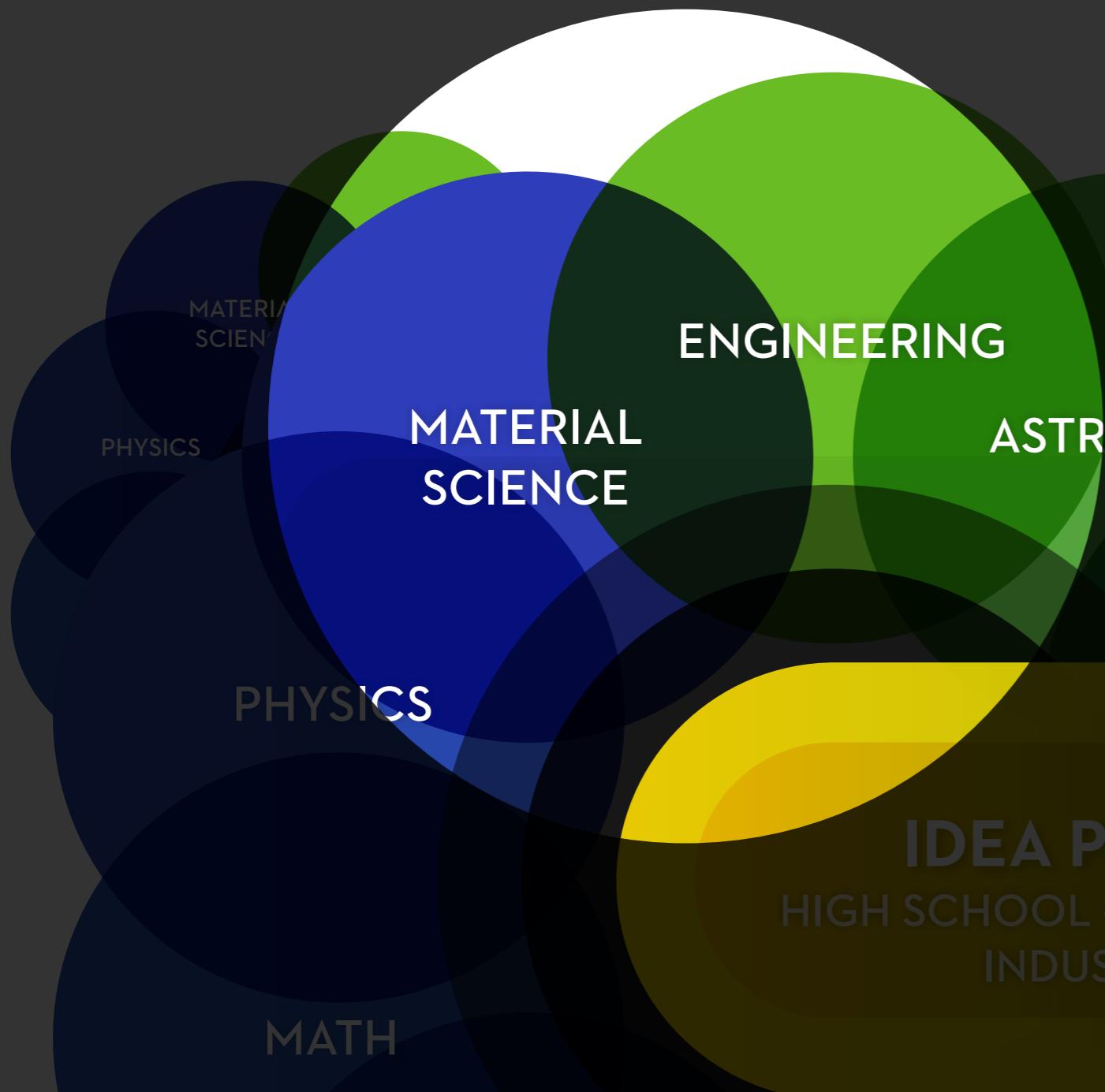
THE SOLUTION

Create a Transdiscipline and Build An Industry



THE SOLUTION

Create a Transdiscipline



The world's scientists need to become so focused on this area that a transdiscipline is created

Call it **CO₂ Emissions Reduction**

Seed it with the best minds throughout the planet and give them the resources to advance the field

IDEA PHASE

HIGH SCHOOL • COLLEGIATE
INDUSTRY

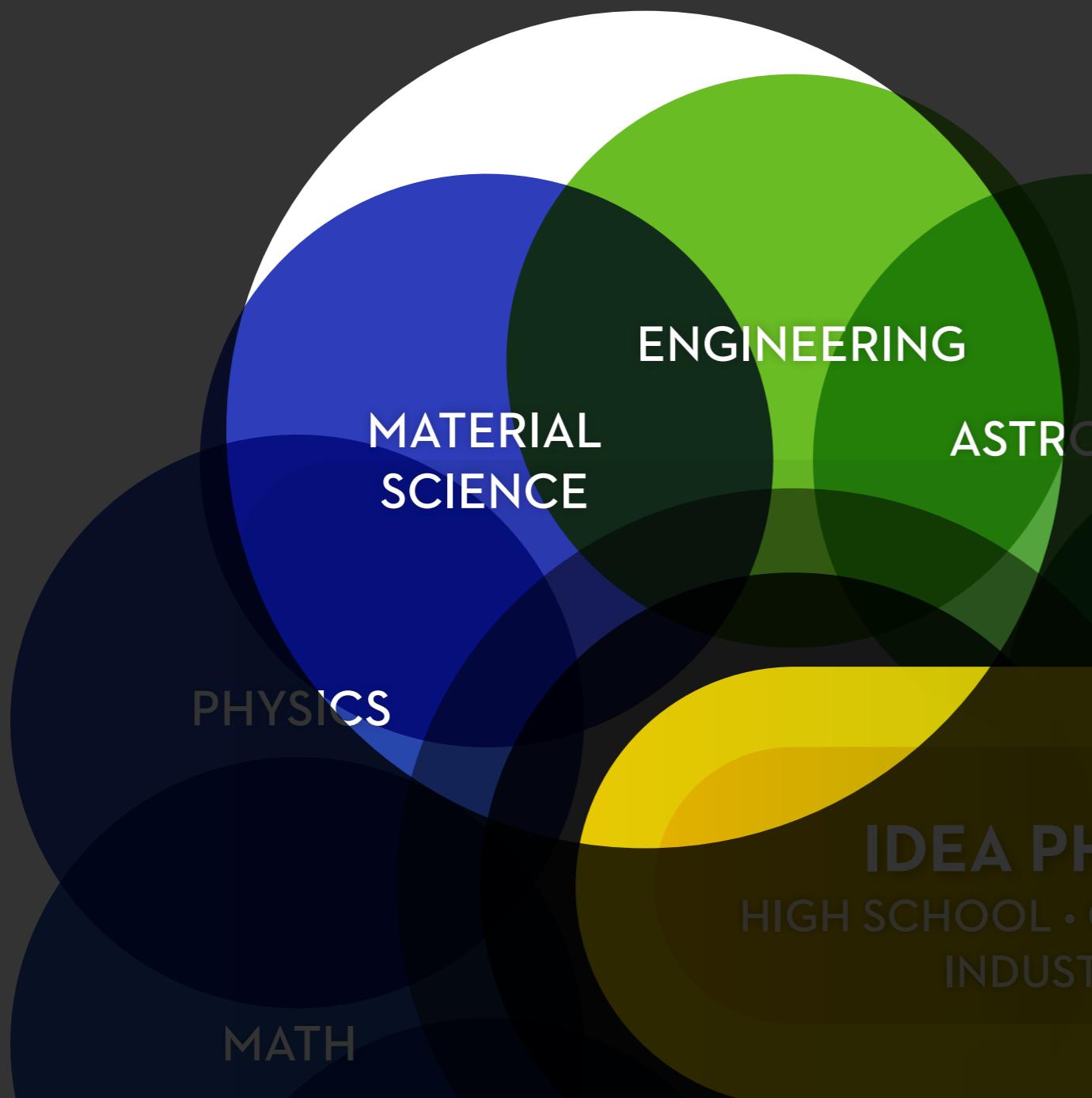
BENCH SCALE PRO

COLLEGIATE
INDUSTRY

GLOBAL MONETARY AWARDS

THE SOLUTION

Global Monetary Awards



Incentivize sustainable idea generation with annual monetary awards targeted for not less than 10 years in two general areas and a number of categories: **Best Idea** and **Best Bench Scale Working Prototype**

Join forces with global academic institutions and the most respected international bodies

The vehicle used to create this discipline is **CO₂ Sciences, Inc.**, a non-profit corporation

THE SOLUTION

Idea Phase - CO₂ Sciences, Inc.

INEERING

ASTRONOMY

BIOLOGY

IDEA PHASE

HIGH SCHOOL • COLLEGIATE
INDUSTRY

GLOBAL MONETARY AWARDS

CHEMISTRY

COMPUTING

OLOGY

CO₂ Sciences, Inc.

A NON-PROFIT

CREATE A TRANSDISCIPLINE

BENCH SCALE PROTOTYPE

COLLEGIATE
INDUSTRY

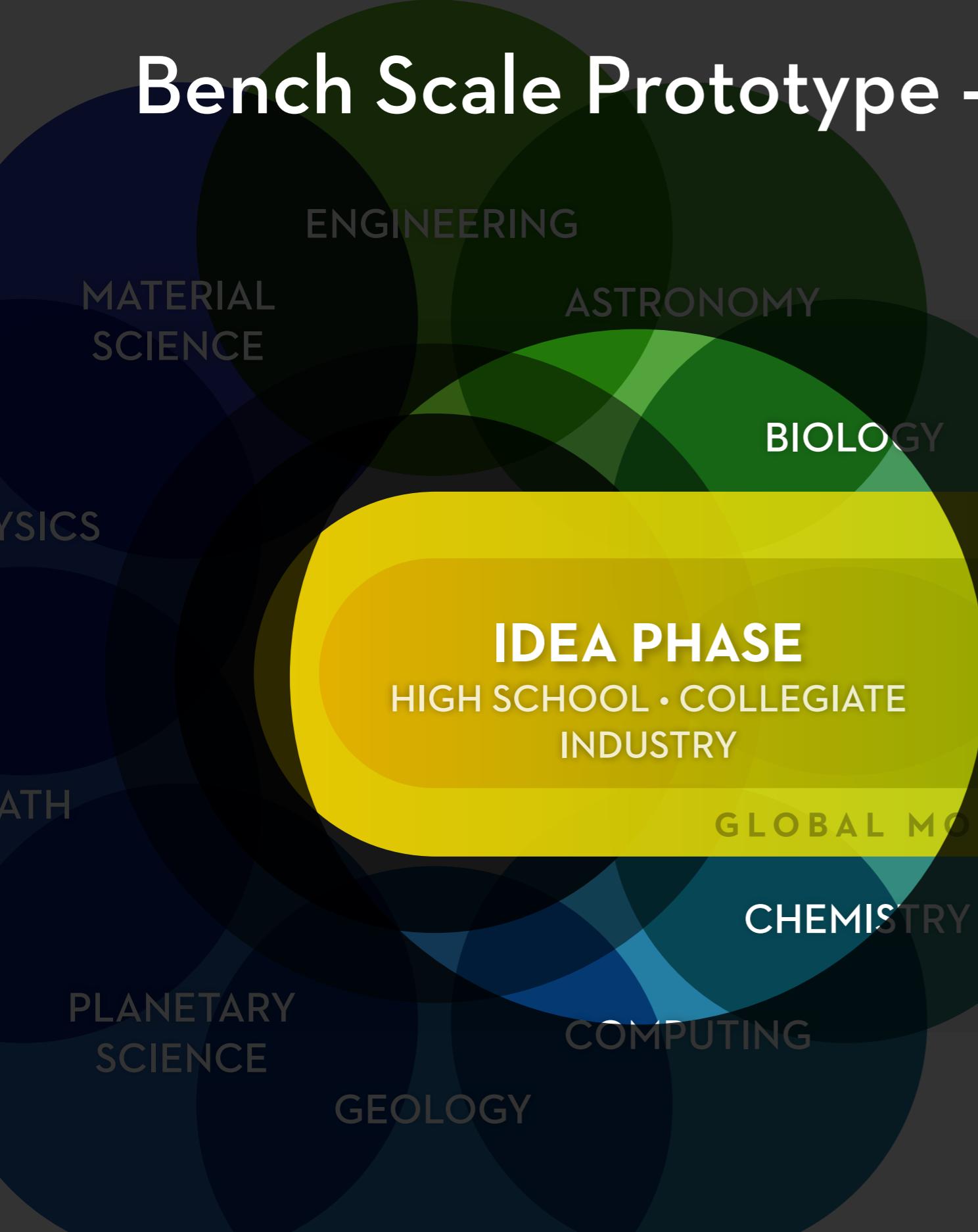
Support the generation of as many ideas as possible

Monetary awards categories:
High School, Undergraduate,
Graduate, Postdoc, Faculty and
Industry

CO

THE SOLUTION

Bench Scale Prototype - CO₂ Sciences, Inc.



Solicit, evaluate and select the best ideas from the **Idea Phase** of this program

Undergraduate, graduate, postdoc, faculty and industry

BENCH SCALE PROTOTYPE

COLLEGiate
INDUSTRY
Award **Bench Scale Prototype** grants

Oversee the implementation of these grants

CO₂ Sciences, Inc.
A NON-PROFIT

THE SOLUTION

Commercialization - CO₂ Sciences Fund

BENCH SCALE PROTOTYPE
COLLEGIATE
INDUSTRY

GLOBAL MONETARY AWARDS

Commercialize technologies that find promising new ways to capture CO₂ emissions in a cost-neutral or revenue positive way

Target fund size: \$1 billion -4 billion

ECONOMY

BIOLOGY

CHASE
COLLEGIATE
INDUSTRY

CHEMISTRY

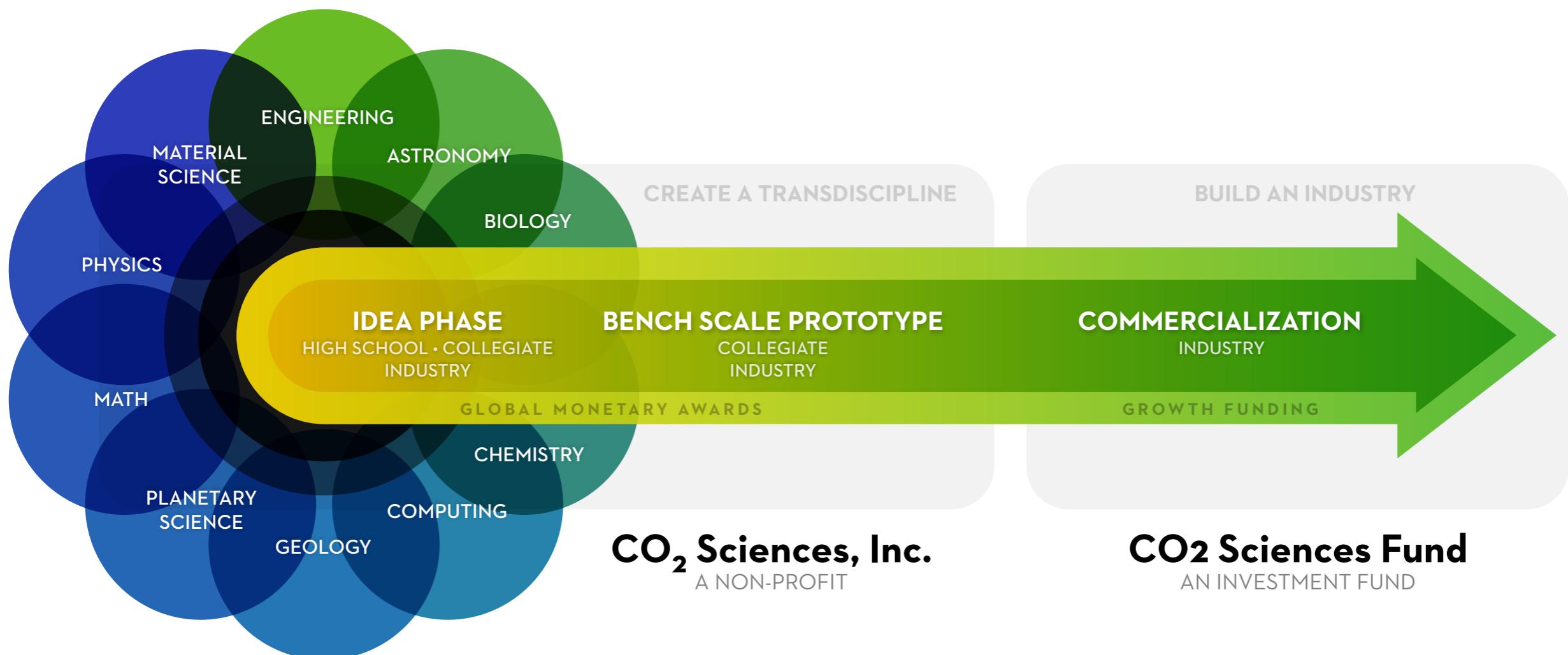
PUTING

CO₂ Sciences, Inc.
A NON-PROFIT

CO₂ Scien
AN INVESTME

THE SOLUTION

Create a Transdiscipline and Build An Industry



Goal

The Global CO₂ Science Initiative's goal is to stimulate science-driven innovations that reduce CO₂ emissions and atmospheric load in a commercially viable and meaningful way.

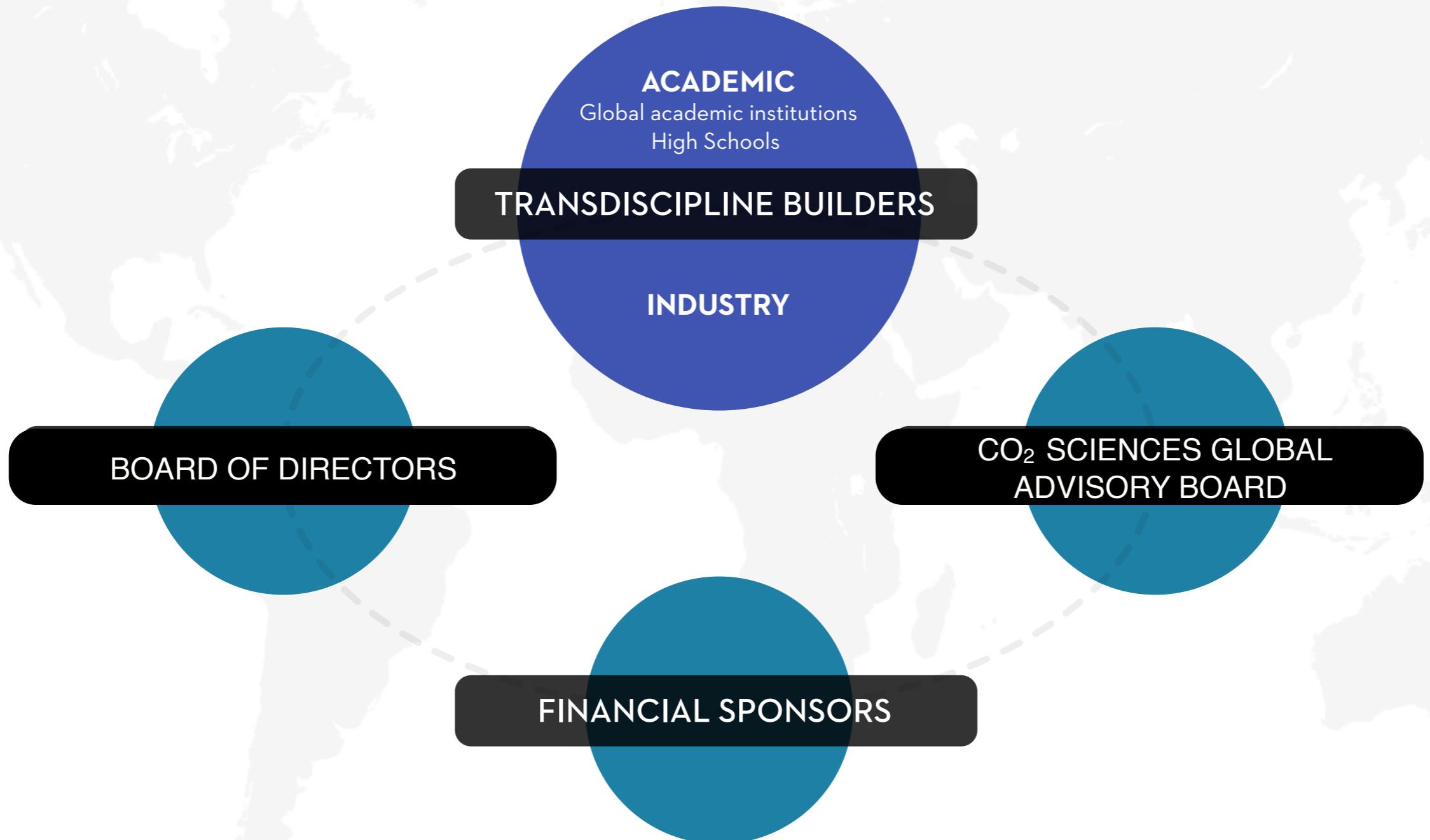
Focus Areas

- 1) Emissions capture of CO₂ at its point of production
- 2) Capture of CO₂ that has diffused into the environment

The background of the slide is a high-resolution aerial photograph of a coastal region. On the left, there are green, hilly areas with some agricultural fields and small settlements. A large, deep blue body of water occupies the right side of the frame, showing various shades of blue and white foam from waves. The overall scene is a mix of natural beauty and human-made infrastructure.

PARTICIPATION

Stakeholders





CONTACT:
Bernard David
bernard@co2sciences.org
www.co2sciences.org
+1 302 379 1717 tel