Symbiobe

～Symbiosis between humans and the globe through the power of microbes～

- **Company Name** : Symbiobe Inc. (Company website: Symbiobe Inc.)
- **Representative Director**: Koji Ito **Director (CTO):** Keiji Numata
- **Year of Establishment**: January 2021
- **Business Description**: Developing technologies to capture carbon and convert it into sustainable materials like fertilizer, aquaculture feed, and synthetic silk fiber by photosynthetic organisms

Key Words

#Turning air into resources
#Industrial Bio
#Air Fertilizer, Air Feed, Air Silk
#A spin-off from Kyoto University

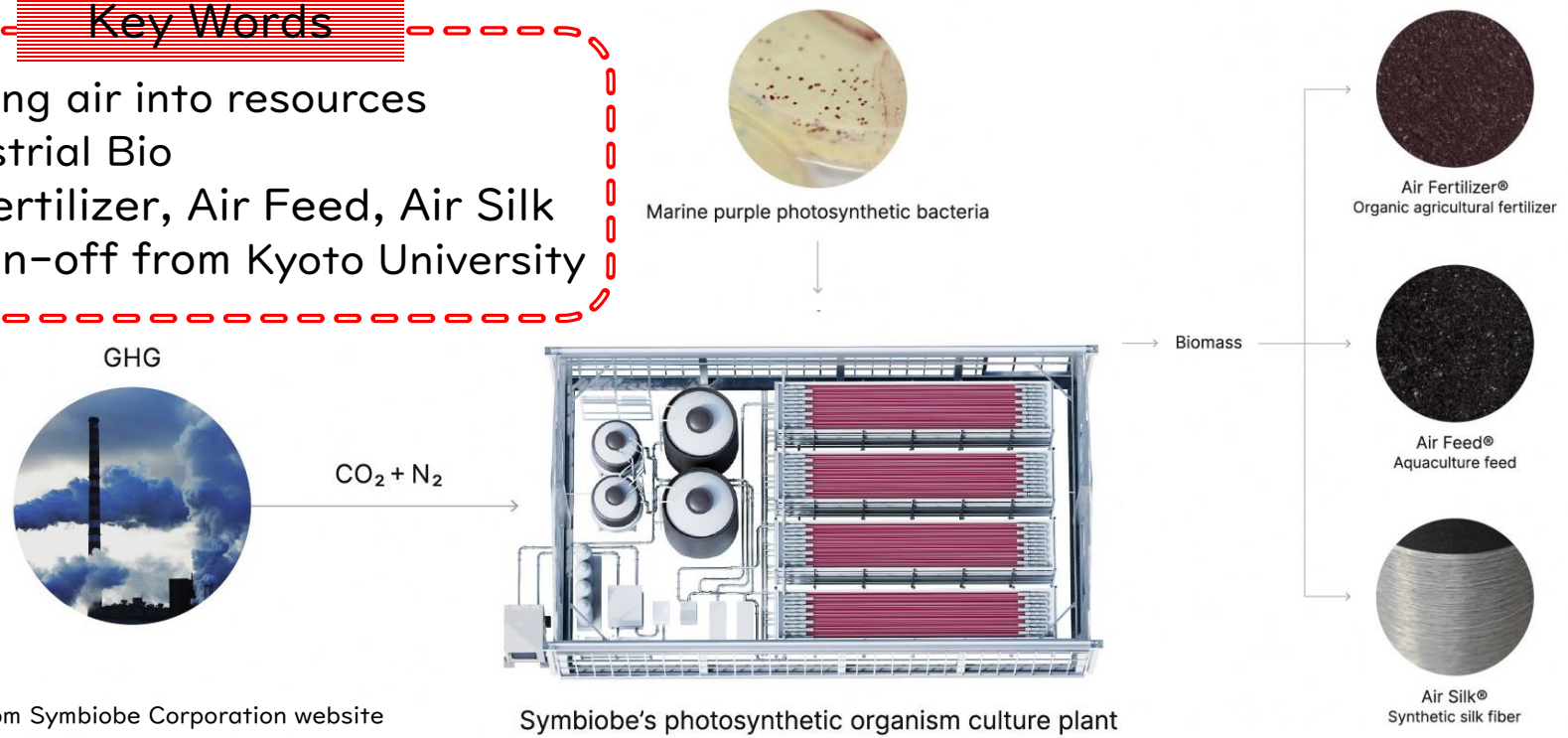


Figure: taken from Symbiobe Corporation website

Symbiobe's photosynthetic organism culture plant

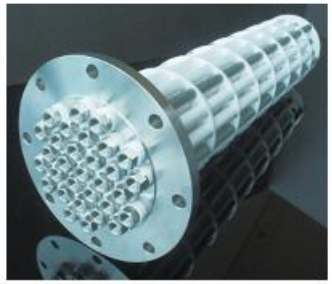
smile by
easy, eco, and efficient
separation

- **Company Name** :eSep Inc. (Company website :https://esep.kyoto/)
- **CEO** :Ken-ichi SAWAMURA
- **Year of Establishment** :October 2013
- **Business Description** :Development of nano-ceramic membrane technology and provision of related equipment and systems, etc.

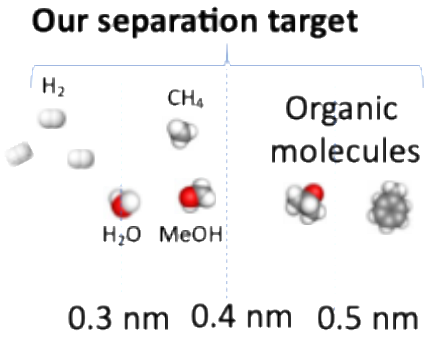
Key Words

#Carbon-Neutral
#Nano-Ceramic Membranes
#Energy Saving
#Downsizing
#Keihanna Science City
(Keihanna, Japan)

Membrane Elements



Membrane Module



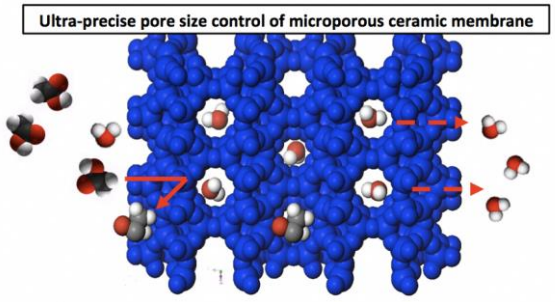


Figure: taken from eSep Inc. website

Introduction of Start-up Companies in Kyoto Prefecture

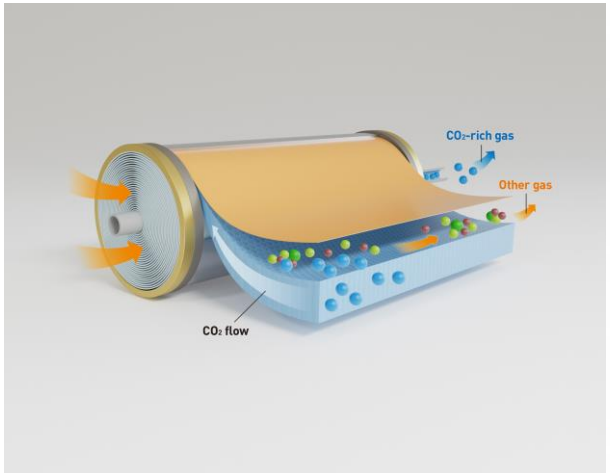
OOYOO

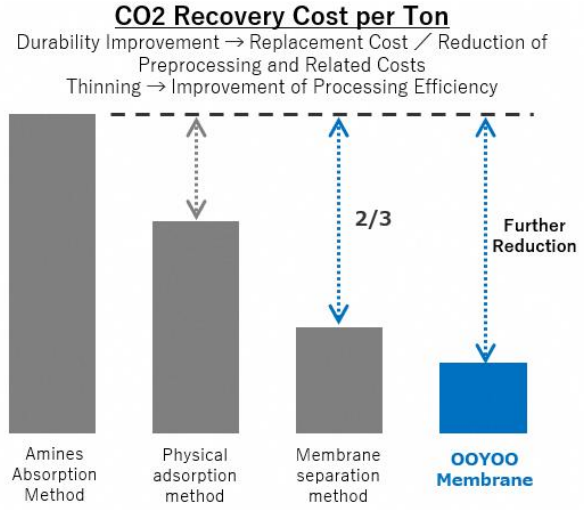
~Faster, Smaller, Smarter. Clean Air Technology for a Sustainable Future~

- **Company Name**：OOYOO Ltd. (Company website：OOYOO Ltd.)
- **Representative Director:** Shogo Otani **Director:** Easan Sivaniah
- **Year of Establishment:** January 2020
- **Business Description**：Development of air and other gas separation technologies and sales of related products

Key Words

#Gas Separation Membrane
#CCUS
#Low-cost and Compact
#Kyoto University-based Start-up





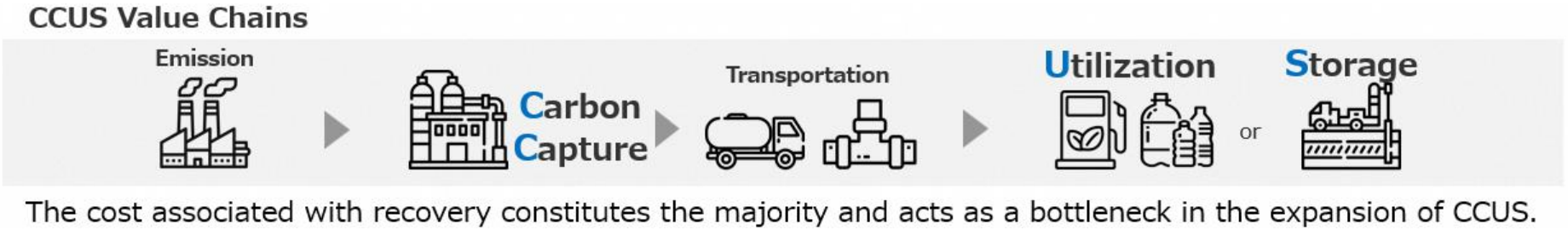


Figure: taken from OOYOO Ltd. website

Future Food R&D Center

～ Safe and Secure Food, Made by Our Own Hands ～

- **Company Name**：Future Food R&D Center Corporation
  (Company website：Future Food R＆D Center)
- **Representative Director**:Takehiro Masumura　**Director**：Seiji Takeda
- **Year of Establishment**: June 2022
- **Business Description**：Development and production of “dwarf rice” and insect-based foods to enable zero-carbon rice cultivation through short harvest cycles and greenhouse cultivation

Key Words

Sustainable Food
Dwarf Rice
Insect-Based Food
Kyoto Prefectural University Initiative

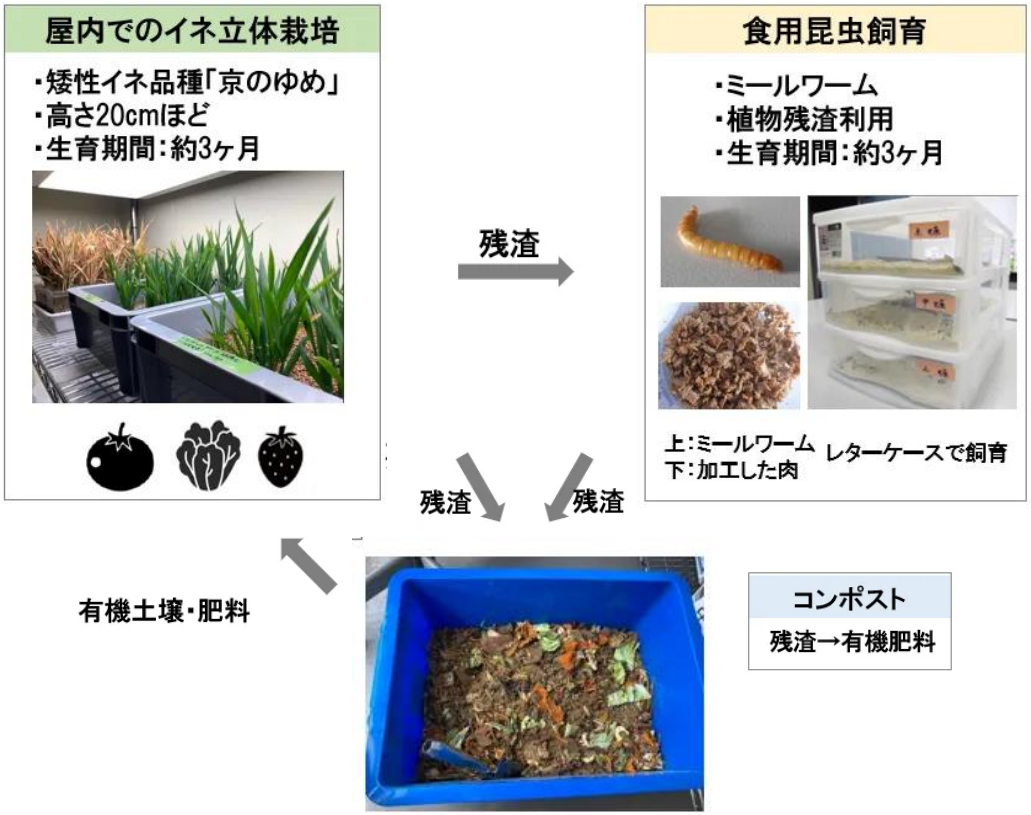


Figure: taken from Future Food R&D Center Corporation website

DeepForest

～Meeting Forest Challenges with Technology～

- **Company Name**：DeepForest Technologies Co., Ltd.
  (Company website：DeepForest Technologies (deepforest-tech.co.jp))
- **Representative Director**：Masanori Onishi
- **Year of Establishment**：March 2022
- **Business Description**：Providing forest analysis software and measuring carbon dioxide absorption, mainly using drones and AI.

Key Words

#Forest Analysis Software
#Drones and AI
#carbon credit
#Kyoto University-based startup

Figure: taken from DeepForest Technologies Co., Ltd. website

Bioworks

Sowing the seeds of a new “prosperity”
～Creating a new circular society and environment from “material”～

- **Company Name**：Bioworks Corporation（Company website：Bioworks Corporation）
- **Representative Director**：Koji Sakamoto
- **Year of Establishment**：October 2015
- **Business Description**：Development, manufacturing and sales of modified polylactic acid compounds（PlaX™）and products

Key Words

#Next-generation materials derived from plants
#apparel business
#Sustainability
#Keihanna Science City (Keihanna, Japan)

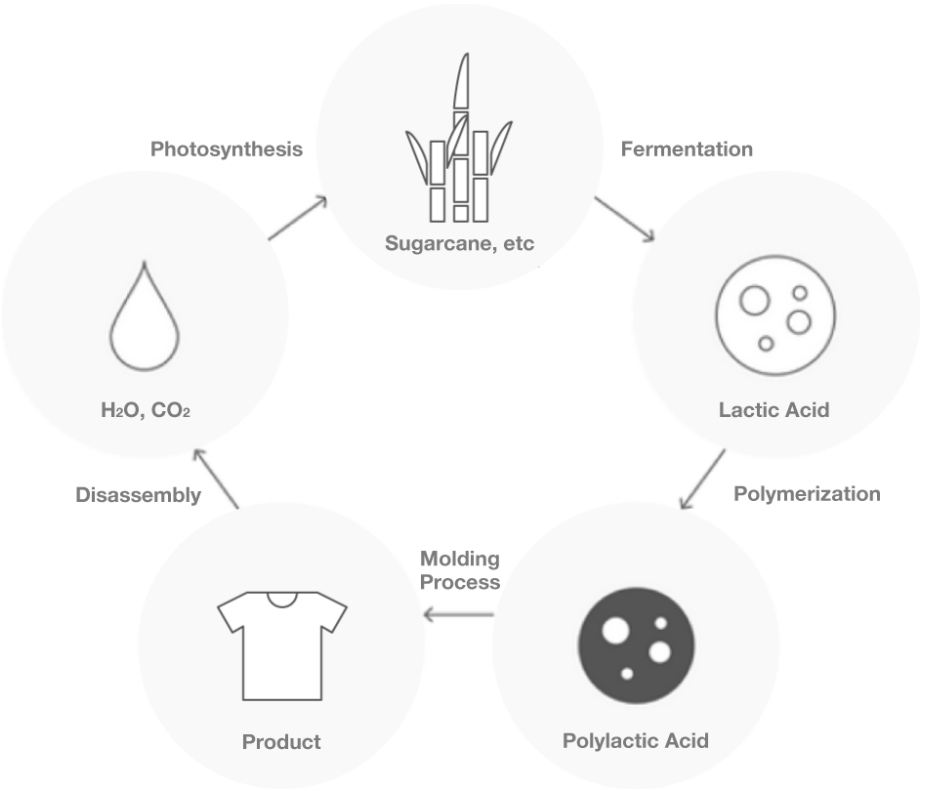


Figure: taken from Bioworks Corporation website

Introduction of Start-up Companies in Kyoto Prefecture

Curelabo

～Upcycling of Unused Resources～

- **Company Name**： Curelabo Corporation(Company website ： Curelabo Corporation)
- **Representative Director:** Naoto Yamamoto
- **Year of Establishment:** March 2021
- **Business Description** ：Development, production, and sales of materials utilizing unused resources such as sugarcane

Key Words

#Upcycling
#Sugarcane Bagasse
#Bagasse
#Circular Economy
#Industry-Academia Collaboration

Figure: taken from Curelabo Corporation website

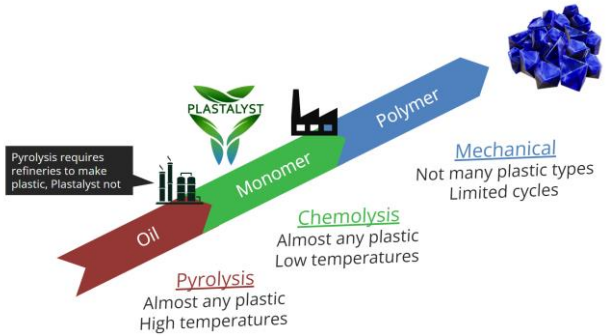
Introduction of Start-up Companies in Kyoto Prefecture

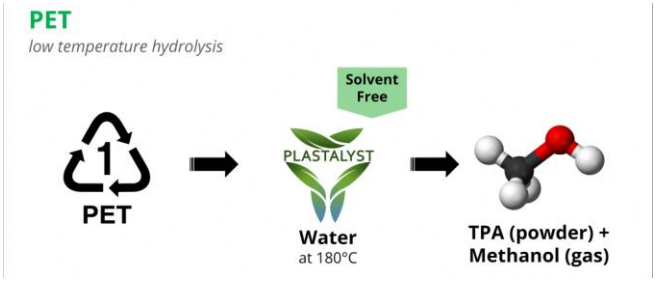
～chemical technology that enables the green revolution～

- **Company Name**：AC Biode
  (Company website：AC Biode – CHEMICAL TECHNOLOGY FROM LUXEMBOURG & JAPAN)
- **Representative Director**：Tadashi Kubo
- **Year of Establishment**：April 2019
- **Business Description**：Development and manufacture of chemical catalysts that break down plastic waste, lignin, and other organic waste at approximately 200°C. Development of the world's first stand-alone AC battery and special circuit for renewable energy storage.

Key Words

#plastic waste
#Low-temperature, low-pressure catalysts
#Realization of a Recycling-Oriented Society
#Luxembourg





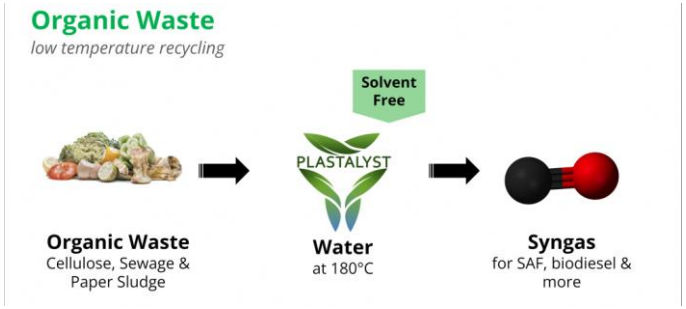


Figure: taken from AC Biode website