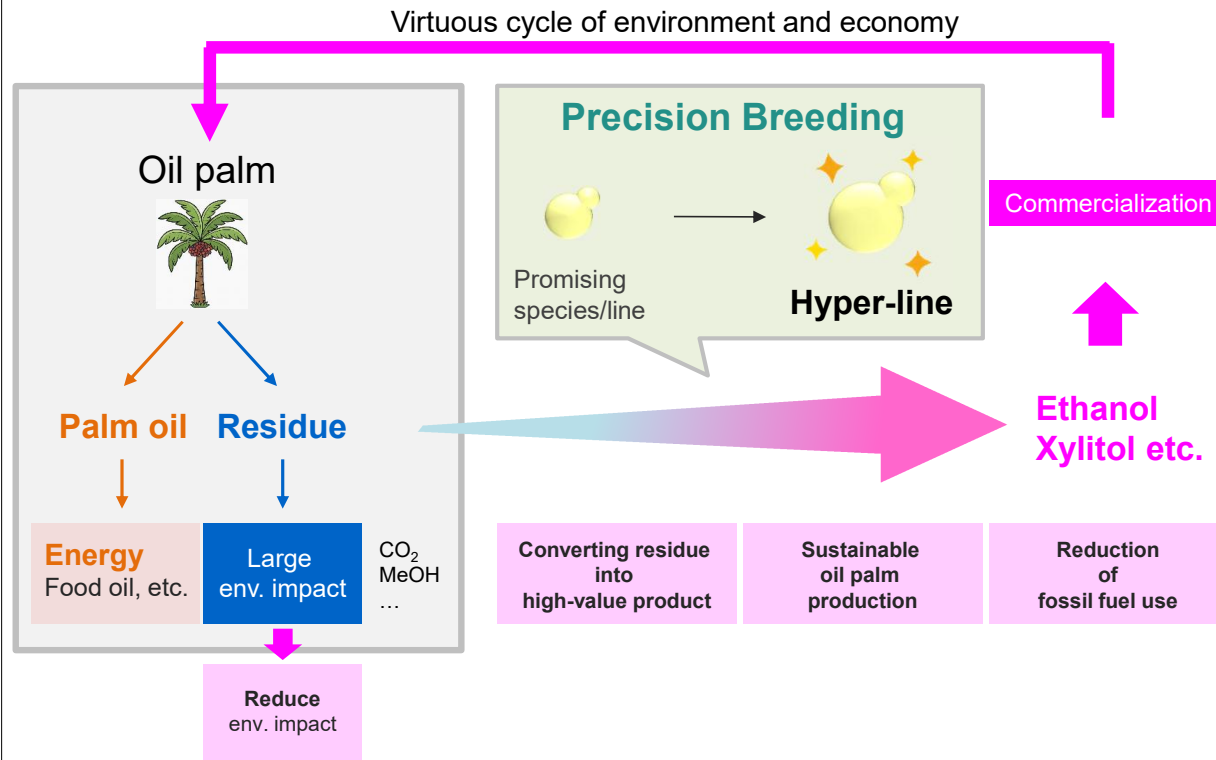


# Project Title: International Collaborative Research and Development of Microorganisms for High Ethanol Production Using Palm Oil Residue (scheduled for 2024-2028)

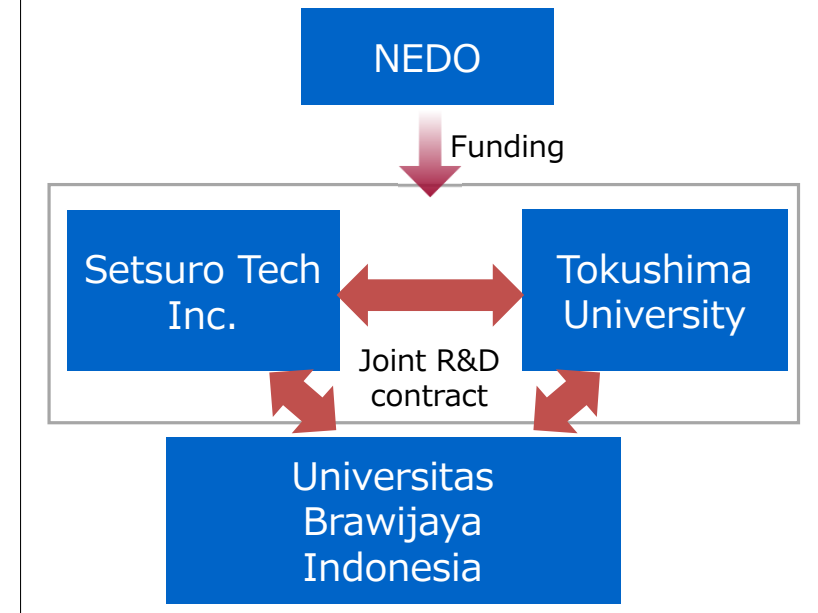
Entrusted Parties: Setsuro Tech Inc., Tokushima University



## Outline of the Project



## Project Scheme



## Significance of International R&D

- Isolation of useful microorganisms leveraging the regional characteristics of Indonesia, a tropical country and the world's largest palm oil producer
- Collaboration with Prof. Agustin K. Wardani, an expert in isolating residue-decomposing microorganisms
- Development of more useful strains through precision breeding, using isolated microorganisms

## Expected Outcomes

- Environmental & economic impact
  - CO<sub>2</sub> reduction: 500,000 t-CO<sub>2</sub>/year
- Environmental benefits:
  - Reduced deforestation
  - Prevention of peatland burning
- Alternative energy effect:
  - Equivalent to 640,000 tons of crude oil/year
- Economic benefits:
  - 500+ local jobs created
  - 5% market share achieved
  - Expansion of oil palm plantations across countries