

# SAKODA LAB.

## Sustainable Biomass Utilization Development of Removal Technique of Radioactive Cesium from Contaminated Soil

Department of Materials and Environmental Science

[http://www.sakoda-lab.iis.u-tokyo.ac.jp/sakoda\\_english/sakodalab\\_top.htm](http://www.sakoda-lab.iis.u-tokyo.ac.jp/sakoda_english/sakodalab_top.htm)

Chemical  
System  
Engineering

### Enviromental Chemical Engineering

## Sustainable Biomass Utilization

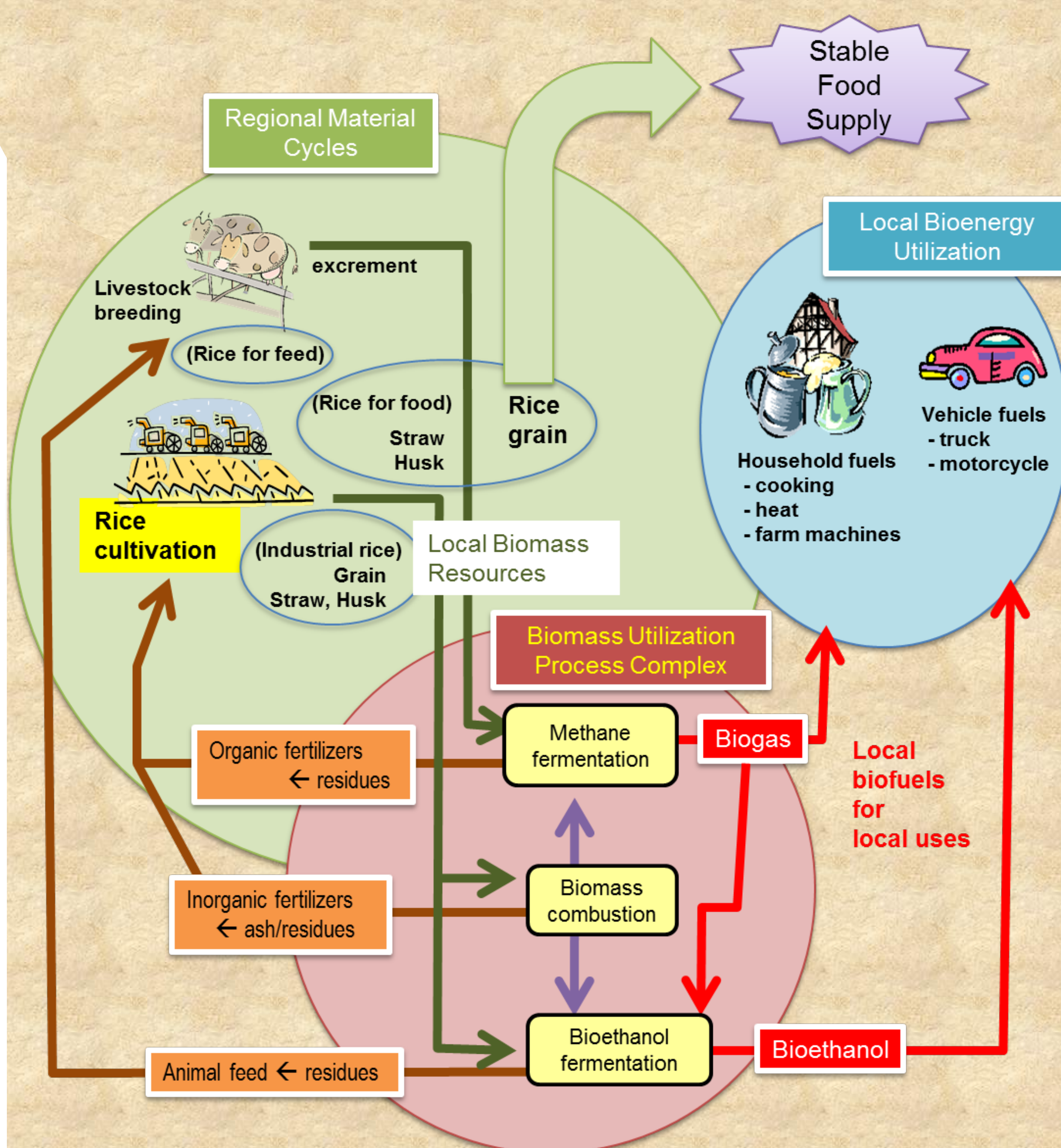
A sustainable biorefinery system based on the concept of local production of biofuels and bio-based materials for local consumption are designed, developed and demonstrated. Also, the key technologies for the biorefinery system are studied and developed.

### Integration of Local Agriculture and Biomass Industries In an Area of Southern Viet Nam

- Material and energy flow analysis of traditional farming VAC
- Design of biomass town based on bioethanol production from rice straw and biogas production from livestock excrement
- Investigation of environmental load and sustainability of the system



Biomass Facility and Plant in HCMUT



An Example of Sustainable Biomass Towns in Asia

## Development of removal technique of radioactive cesium from contaminated soil

We developed high-efficiency soil decontamination system using wet extraction process and adsorption process. We are also developing a novel adsorbent for effective removal of radioactive cesium.



Demonstration of decontamination using a Prototype equipment (Throughput: 2ton-soil/batch)