## 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

Chemical System Engineering

**Enviromental Chemical Engineering** 

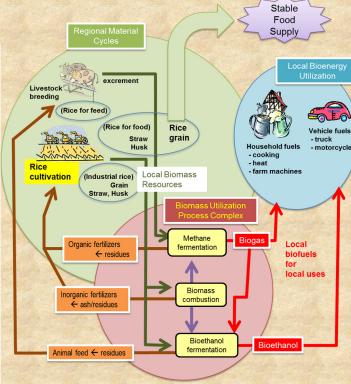
#### **Sustainable Biomass Utilization**

A sustainable biorefinery system based on the concept of local production of biofuels and biobased 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 (JICA-JST joint project with Ho Chi Minh City University of Technology (Viet Nam): 2009–2014)

- ·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





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 now optimizing the system to reduce the operation cost, performing the field test.



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