FINAL PRESENTATION

International Summer Course Program Practical Agricultural Sciences toward Regional Sustainability











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Our current farming condition has resulted in numerous negative side-affects:

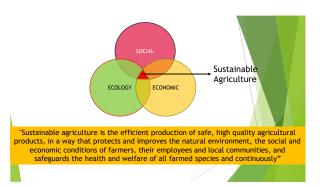
Environmental damages

- Reduced biodiversity
- · Habitat destruction
- Deforestation
- Water, air and soil pollution Salinization, desertification
- · Damage the soil fertility

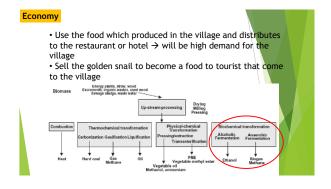
Human impacts

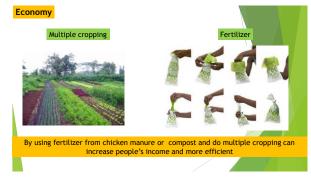
- Farm land destruction
- Reduced nutritional value of food Decreased economic, social and
- cultural values

For the past several years research has looked at sustainable agriculture as a potential solution to correct and prevent these problems

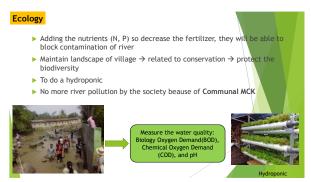


Kampung Wisata Cinangneng Kampung Wisata Cinangneng has better management because it's managed by company. Different with Kampung wisata Cinangneng, people kampung that separated by Pulang Kampung bridge managed by the society that live there. People kampung have positive and negative side. Positive: 1. People kampung got the benefit from Kampung Wisata Cinangneng because help to promote the home industry home industry 2. Decrease the population of golden snail because nowadays golden snail become edible by peopl 3. By using multiple cropping, it can be a pest management 4. The waste thing (example: coconut shell) not only become a waste but utilised as something the benefit. Negative: 1. Still doing something in traditional way 2. Low sanitation 3. Small area of farming activity caused lo 4. Organic waste dumned to loading Low sanitation Small area of farming activity caused low income Organic waste dumped to landfill

















CIKASUNGKA OIL PALM PLANTATION

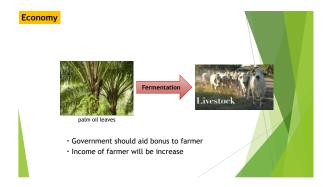
Oil palm is one of the plantation commodities which have an important role in generating foreign exchange through the production of palm oil and palm kernel oil. Development of oil palm plantation in Indonesia is supported by the large areal potency, tropical climate and suitable soil. Cikasunska oil palm plantation is a part of PT. Perkebunan Nusantara VIII, has 3520 ha total area. Cikasungka oil palm plantation start to produce from 2013.

Positive:

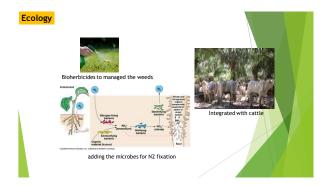
Zero waste because all part of oil palm biomass back to the field and factory

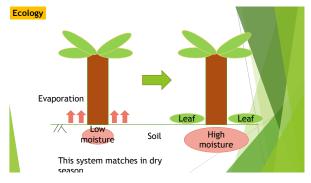
- Oil palm fiber difficult to decomposed, need a long time
 Using herbicide to managed the weeds arround oil palm plantation, it can damaged the soil fertility















PT. REJO SARI BUMI DAIRY FARM, TAPOS

PT. Rejo Sari Bumi dairy farm is located in Tapos, Ciawi sub-district, Bogor, West Java, located at an altitude of 700 to 1.150 meters above sea level. The company was established in 1974, has 751 ha total area. Land condition based on the science of soil has been significantly degraded soil fertility.

- Physically, barren and dry in the dry season and erosion (landslide) in the rainy season.
- Chemically, poor soil nutrients due to the physical condition above.
 Biologycally, organic materials and organic activity in the soil solum already small

Economy

- Planting sorghum near the cattle for feed ex: Japanese dairy farmers import animal feed from USA, Australia and Canada → expensive, decrease income
- and Canada → expensive, decrease income
 Made silage to the cattle's food (become a probiotic) so they can have healthy body and prevent from disease.
- Process the milk become cheese, yoghurt, kefir with microbes
- Reject cattle utilization by recreational cow riding track.
 Economically value for reject cattle, since reject cattle did not produce milk so the stress level of cattle did not matter very m
- · More Recreational area for society
- If cattle be sick, use some medicine (no killing)



