

30 September 2021

Innovations Session N°6

Promoting sustainable
agriculture and agroecological
practices: the key role of MSMEs
and farmers organisations



INNOVATIONS^{Wi-Fi}
SERIES





SUSTAINABLE PRODUCTION OF COMPOST AND BIOFERTILIZERS

Allowing farmers and agribusinesses to participate in the global organic agriculture trend

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Our activities



Kubeko composter & biodigester



Recycling organic matter and minerals back into the soils through composting and anaerobic digestion

- Domestic size with local patent
- Payback period currently of 2 years
- 50 units in use
- Interest from palm oil, cacao and fruit farmers (Mango and citrus)



Maximizing the value created by the biofertilizers produced or applied by smallholder farmers

- Demonstration and training plots
- Increasing yields and reducing CO2 footprint per ton harvested
- Compost and liquid digestate from fermentation



Developing a bioeconomy in agricultural regions of Côte d'Ivoire using compost factories as hubs

- First factory processing OMSW and agricultural post harvest waste
- 4 factories planned over 6 years
- 25 000 T of CO₂ can be sequestered
- Over 8000 ha potentially impacted



Case Study 1



Using Kubeko composters to treat lost mangos during harvest to produce compost and prevent fruit flies

- 1.5 T of mango waste can be recycled by a single unit in a season
- Produces enough compost to fertilize fully 1 hectare
- Strong interest from all mango farmers (20) using in the Korhogo region however cost is main barrier



Case Study 2



Using Kubeko biodigesters to process cassava processing waste water to produce cooking gas for households

- 10 L effluent per day to produce 2 h of cooking
- 40 L of liquid digestate produced daily suitable for application as fertilizer
- Potential for 6000 units in Côte d'Ivoire in the cassava processing regions where it is staple and fermentation liquid is abundant



Case Study 3



Industrial compost factory using water hyacinth and agroindustrial biowaste to produce solid compost and liquid biofertilizer

- 10 000 T / year production target
- 2000 farmers potential beneficiaries
- 750 K EUR grant from the Kingdom of the Netherlands
- Production date expected August 2022



The Team



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Awarded by Total, SPARK, AfDB, OCP



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FROM WASTE TO ENERGY

Thanks



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Thank you

