



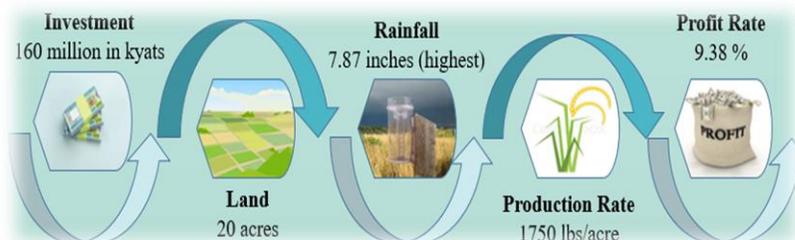
# Sustainable Water Resource Management & Soil Impact Monitoring System for Lower Toe and Thakhut River Basins

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- We are Interested in agriculture field which is one of the fields of cooperation defined by e-ESIA JRP for discovering synergies in Asian region. In order to improve the rice production rate of farming sectors in Myanmar, we technology and some prior knowledge from the researchers of e-ASIA member countries. So, we would like to collaborate with e-ASIA joint research program. After accomplishing this project, we expect to achieve the standard novel dataset upon soil and water resource of paddy fields in delta areas of lower Myanmar.



# Proposal of WRM & SIM system for Delta Areas of Myanmar

- Most of the residents in delta areas of lower Myanmar depend on arable and crops on this land for their business. The paddy fields in delta area are infected by the tide from the sea which can destroy soil and water resource on this fields and so, the crop yields cannot be obtained as expected in every year.
- In order to detect this problem, we want to implement IOT based data collection for water resource management and soil impact monitoring system by collaborating with the researchers in e-Asia 13<sup>th</sup> Joint Research Program.
- After completing this program, the standard novel data set for arable areas of lower Toe and Thakhut river basins and the various useful monitoring and recommendation systems upon which dataset will be arisen. Consequently, the loss of capital for farming will be decreased and the farmers will not abandon their farms.



- When grasping these advantages, the crop yield in delta area of lower Myanmar are sustainably increasing and the farmers' lives will be able to enhance. On the other hand, the country's income will also improve.