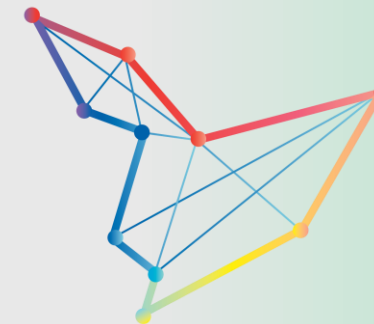


Modern Young Farmer Technology in ASEAN for Food Security

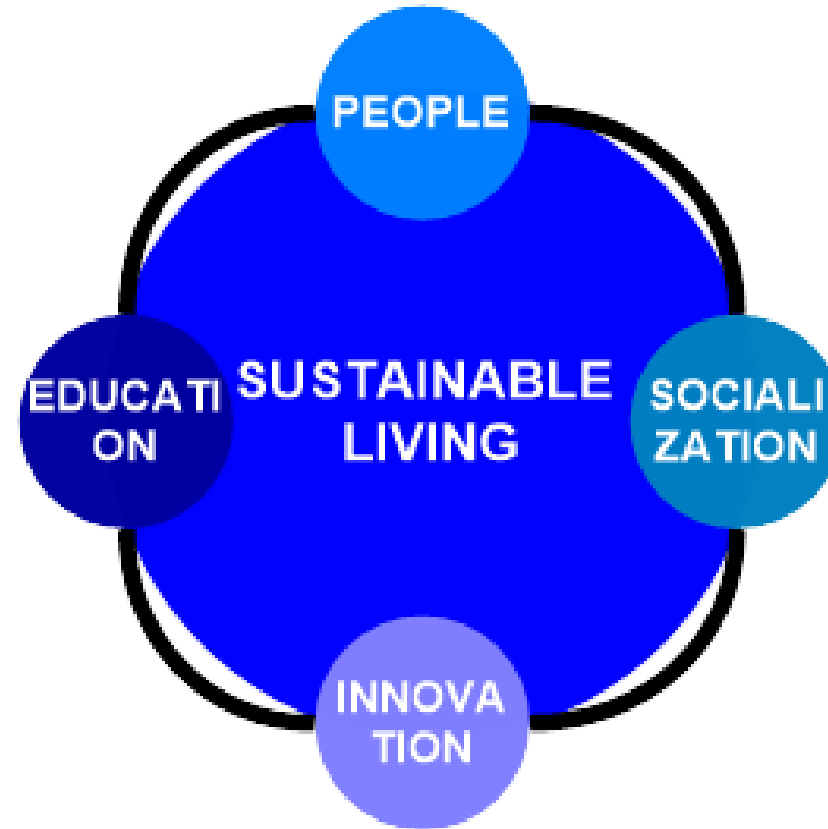
**Business Strategy to Achieve the Goal of Creating Modern Farmers
and Promoting Sustainable Living**

Dukun Jr. Team

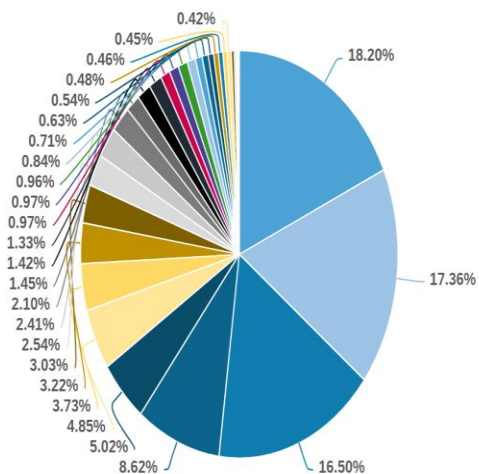
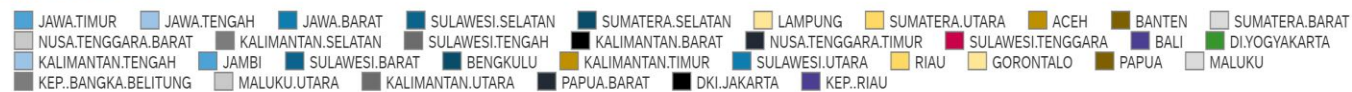
**Annur Hangga Prihadi
Harfansa Nasrullah Rabbasa**



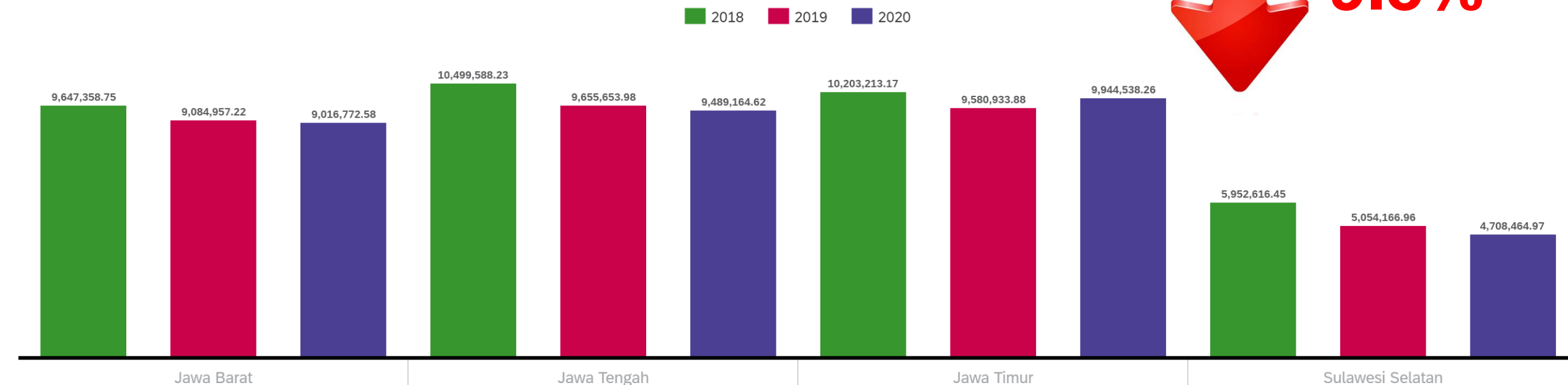
ASEAN 
**DATA SCIENCE
EXPLORERS**



The most crucial aspect of food security is sustainable living. How can we sustain ourselves if we lack sufficient resources to manage agricultural technology in the future?



Top 4 Paddy production in Indonesia (Ton)



Object 2: Patterns of Rice Production in Indonesia

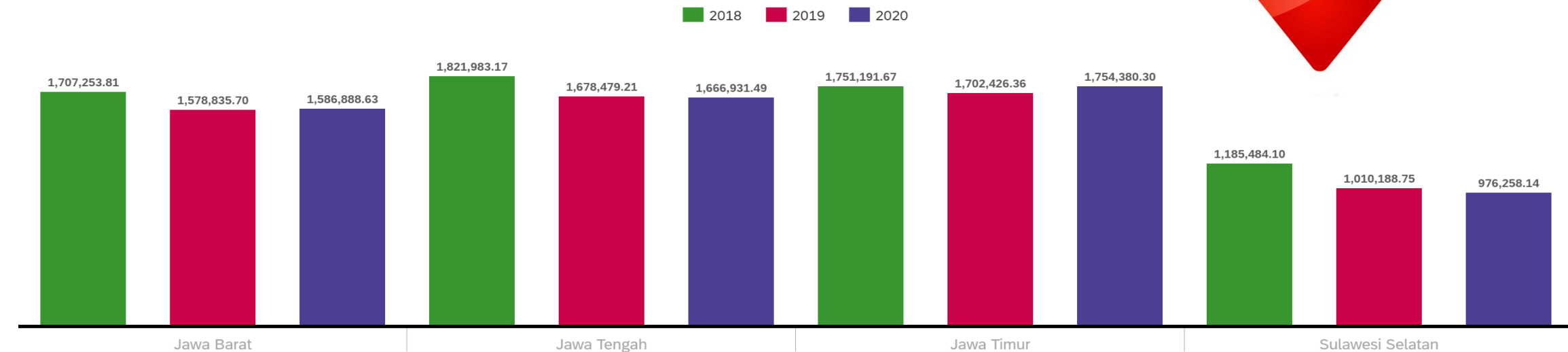
We can see from the graph that rice production has decreased over the last three years. Based on this, I have selected the top four largest rice producers in Indonesia.

Object 2.1: Paddy Planting Area in Indonesia

The availability of land for planting has decreased. How can we address the reduction in planting area?

The paddy planting area in Indonesia has decreased

Top 4 Planted Area Paddy production in Indonesia (Hectares)



Object 2.2: Pattern of Rice Prices in Indonesia

What if future production continues to decrease while rice prices increase?
How can citizens survive in such a worst-case scenario?

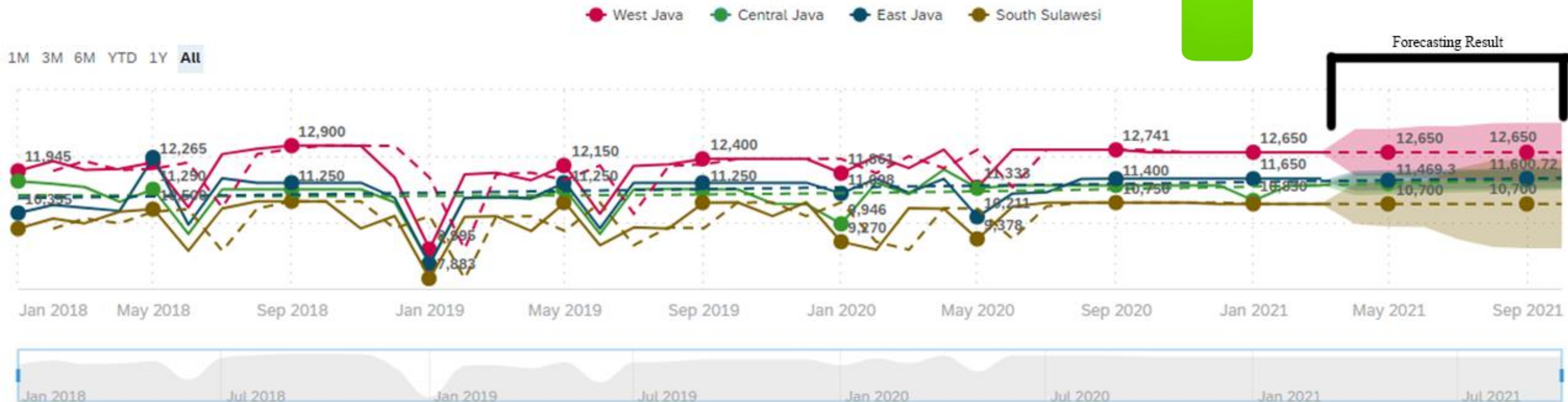
The prices of rice in Indonesia have increased



1.075%

Top 4 Price base on Production in Indonesia

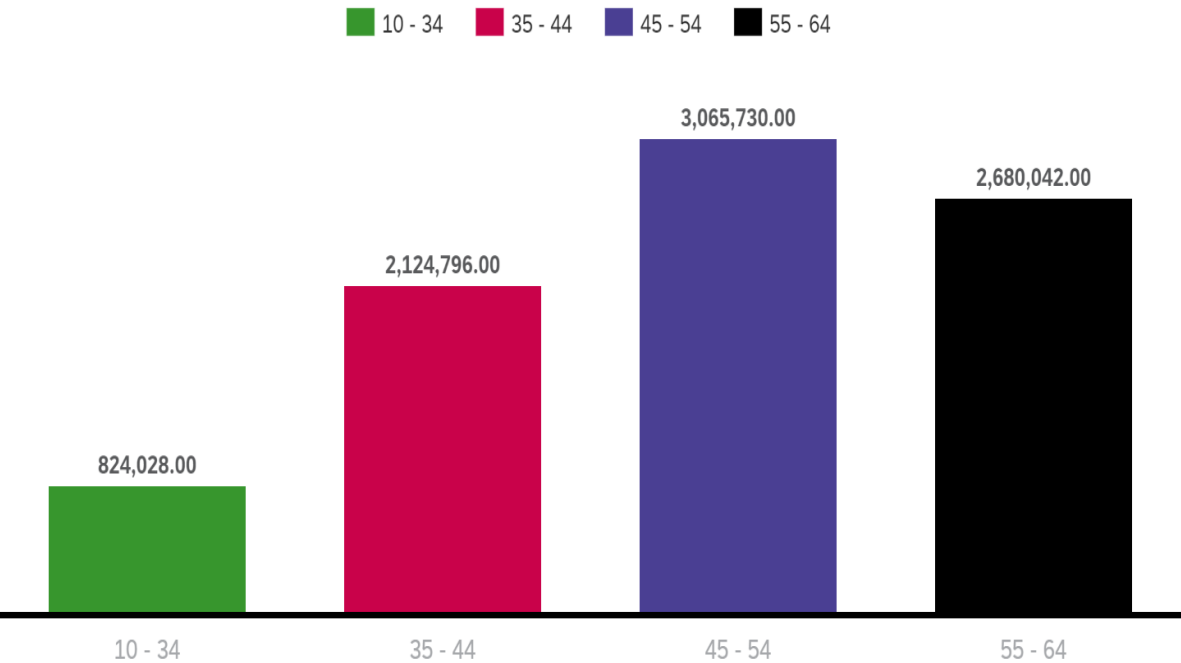
Forecast



Object 2.3: Average Age of the Population in Indonesia

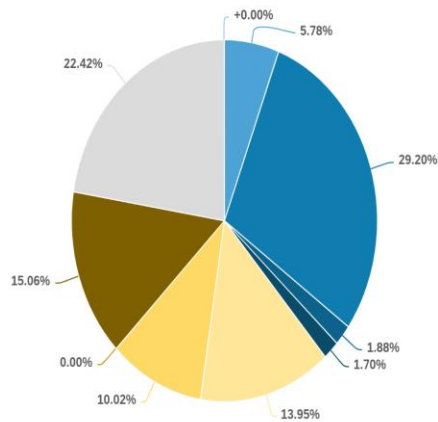
How can we take advantage of the increase in the index?

Average age population in Indonesia



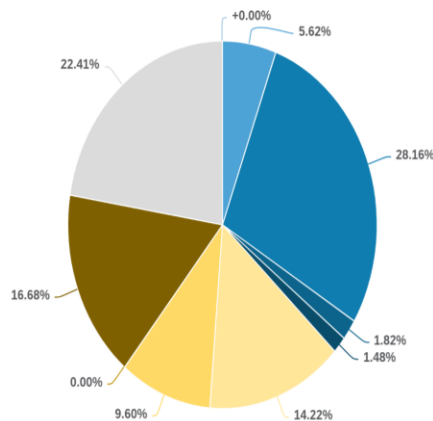
The average age index of young people in Indonesia has increased

Brunei Darussalam Cambodia Indonesia Lao PDR Malaysia Myanmar Philippines Singapore Thailand Vietnam



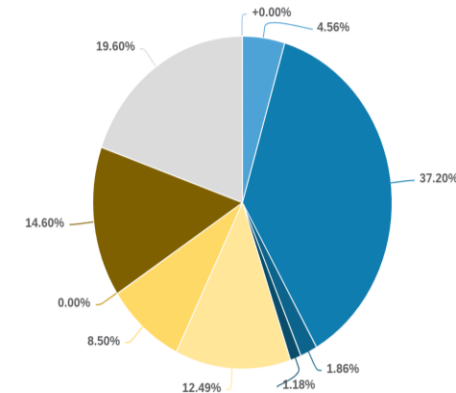
Rice Production in Asean 2018

Brunei Darussalam Cambodia Indonesia Lao PDR Malaysia Myanmar Philippines Singapore Thailand Vietnam



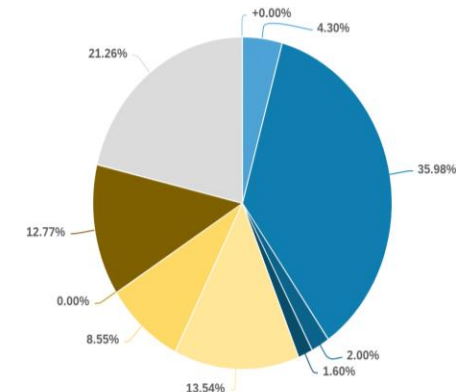
Rice Production in Asean 2017

Brunei Darussalam Cambodia Indonesia Lao PDR Malaysia Myanmar Philippines Singapore Thailand Vietnam



Rice Production in Asean 2016

Brunei Darussalam Cambodia Indonesia Lao PDR Malaysia Myanmar Philippines Singapore Thailand Vietnam



18.84%

The rice production index in ASEAN has decreased

Object 3: Percentage of Rice Production in ASEAN

Object 4: Planted Area and Rice Production in Vietnam

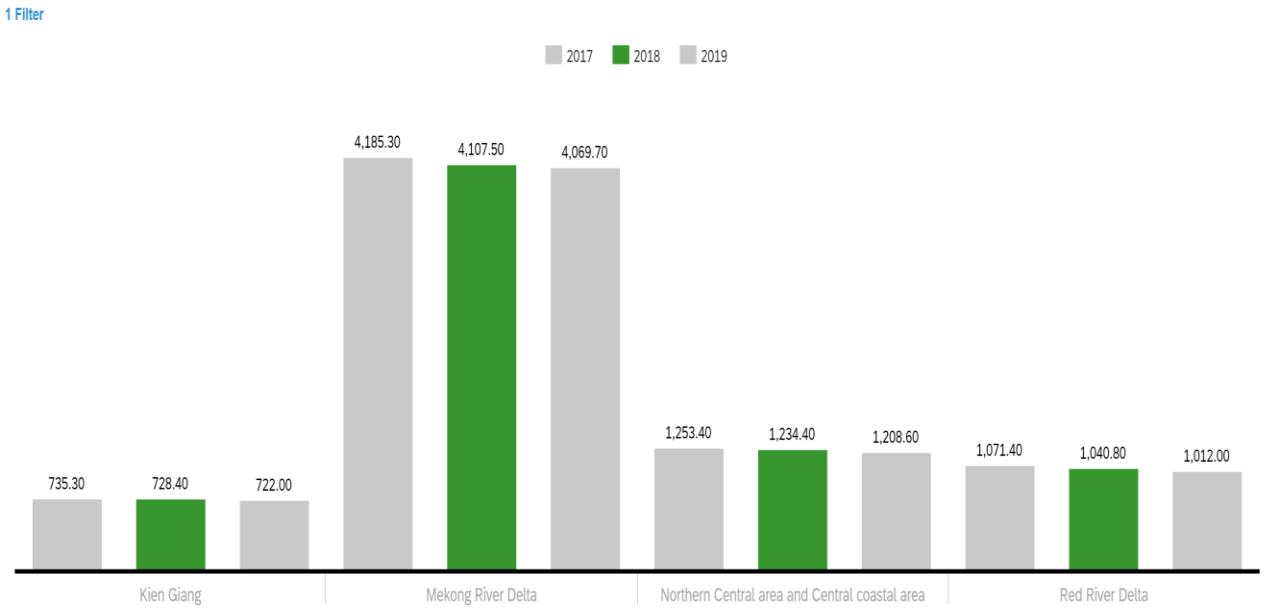


The paddy planting area in Vietnam has decreased **3.4%**

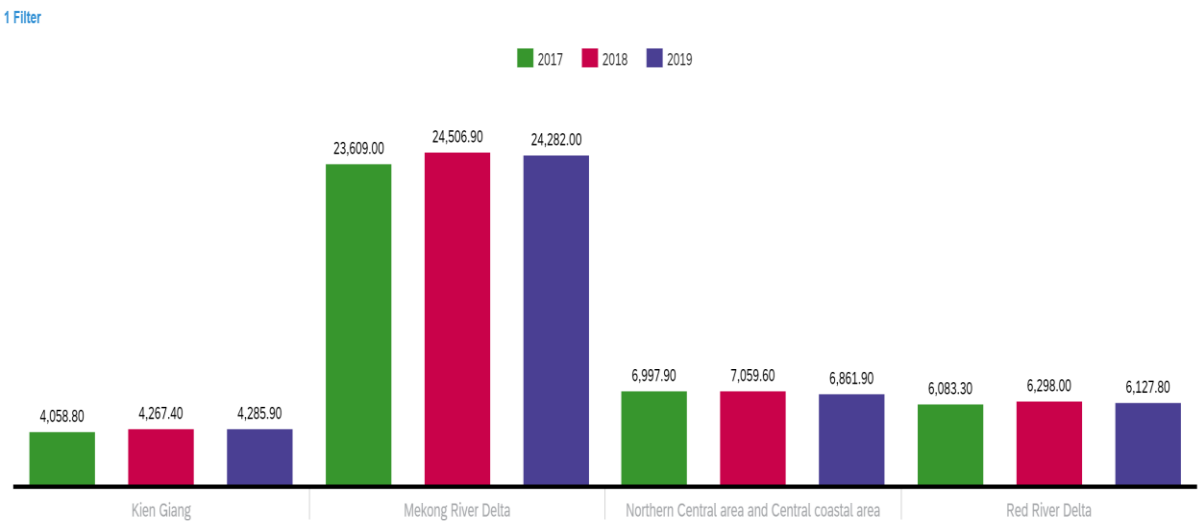


The production of rice in Vietnam has increased **0.97%**

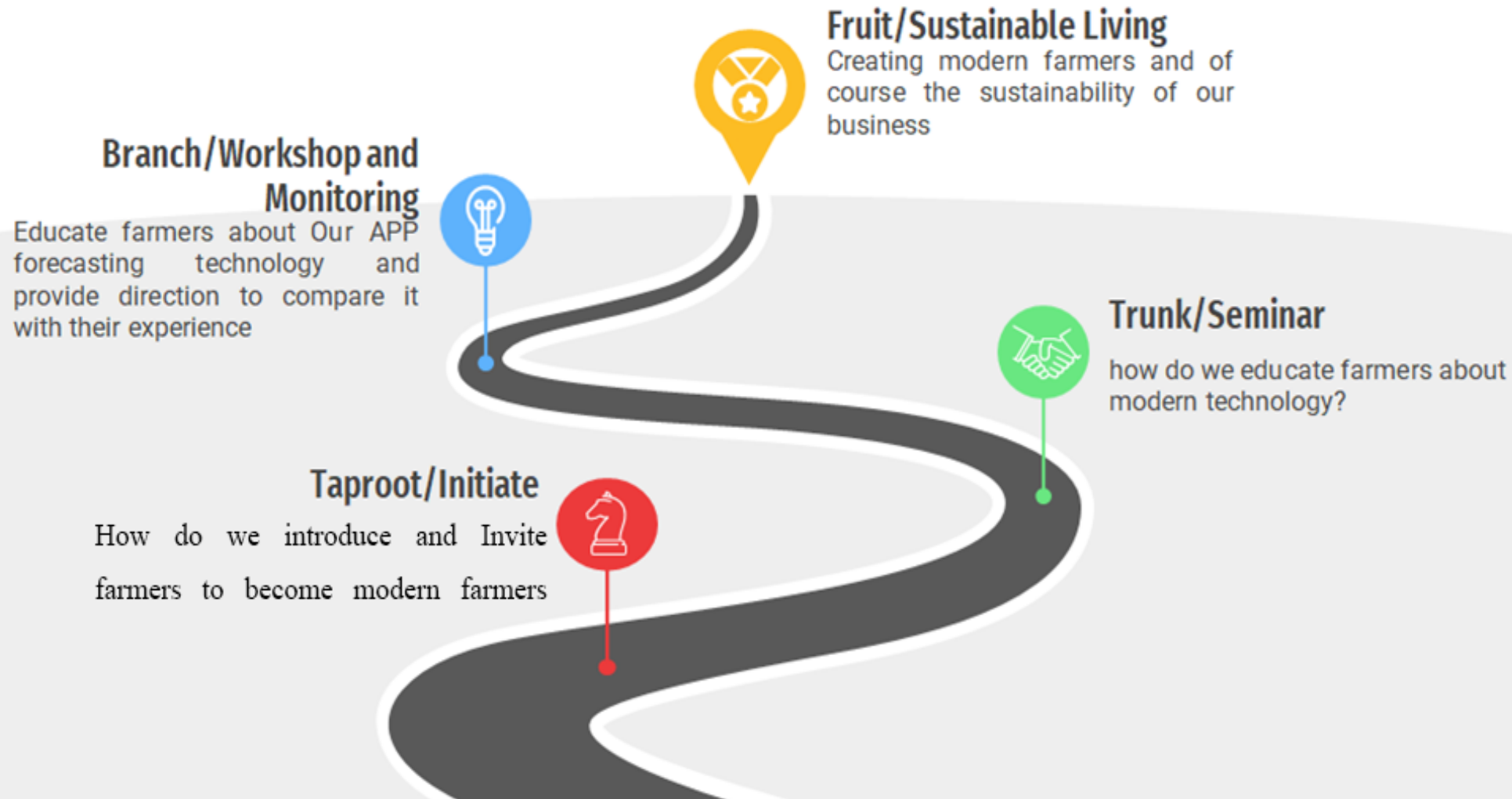
Top 4 Planted Area Paddy Province in Vietnam (Hectares)



Production of Paddy by Province in Vietnam (Ton)



Solution



We apply the philosophy of trees to our initiative. The taproot represents our effort to introduce and invite farmers to become modern farmers. The trunk symbolizes our education efforts about modern technology for farmers. The branch is when we educate farmers about our app's forecasting technology and compare it with their experience. Lastly, the fruit represents our goal in sustainable living and food security, creating modern farmers, and promoting sustainable living.

REFERENCE

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4. <https://www.gso.gov.vn/en/homepage/>
5. <https://www.youtube.com/watch?v=DPMgFRbRSFE>
6. Statistical Yearbook of Viet Nam Journal
7. Indeks Pembangunan Manusia 2020 Indonesia Journal
8. Statistik Pendidikan Indonesia Journal

Disclaimer:

Due to COVID-19 outbreak pandemic in Indonesia there is limitation to collect data in Data Center and Actual field collection

