

POV

The South African government needs to ensure food security and agriculture development on the basis of maintaining socio-ecological sustainable development because they lack the ability to scientifically and systematically make analysis and decisions.

HMW

1. How might we make accurate and specific presentation of the full range of food safety issues in South Africa?
2. How might we give solutions for the poor agricultural productivity in the South Africa?
3. How might we give solutions for the natural disasters and the epidemic influence in the South Africa?
4. How might we use technical innovation to help improve scientific decision making?
5. How might we develop a systematical plan for the South African government to utilize Digital Earth Africa and other similar techniques?

Solutions

1. Our group splits up to carry out different aspects of research activities, brainstorming at regular meetings and integrating our findings into a final outline. – Question 1
2. Using Digital Earth Africa's current techniques including Sandbox and satellite map to monitor and analysis the agricultural situation in a certain area. – Question 2 & 4
3. Using techniques like Crop health monitoring by Digital Earth Africa and other crop quality test techniques. – Question 3
4. Considering the Global Root-zone moisture Analysis & Forecasting System (GRAFS) produced by the ANU Centre for Water and Landscape Dynamics – Question 3
5. Once the solution for each aspect has been identified, a comprehensive view of what needs to be integrated and leads to the final plan will be held by our group in regular meetings. – Question 5
6. Identifying the customer's needs for the solution, determining the feasibility of the solution. Prioritizing the solution according to the urgency and feasibility. – Question 5