

satellite data for higher food security

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**these field are filled according to the request document

What was the project goal?

- Using satellite data for crop mapping based on web and Image processing technologies.
- These maps can provide valuable evidence for controlling and managing requirements for the agriculture sector

To what extent have the project goals been realized?

- We could successfully use state-of-the-art techniques (artificial intelligence) to process purchased data. We also applied manual work to produce high quality digital terrain models. Digital terrain models are known to be a great tool to help farmers to make more optimized decisions.
- We produced a spectral index more complex than simple NDVI!. This layer can be used as an indicator of crop health status.
- We used web mapping service
- Although we made a minimum valuable product, but we have not expose that to the farming role-players and consequently have not any feedback.

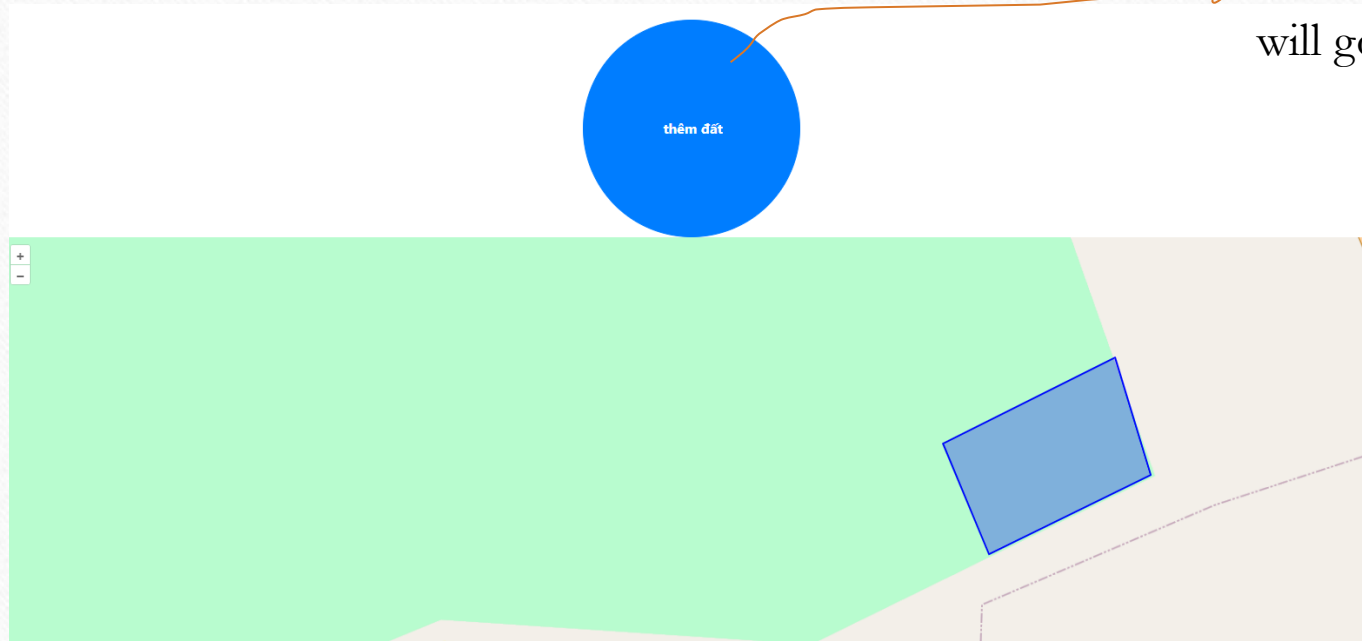
How using tools and data within cloud environments helped us to achieve our goals?

- Unfortunately I expected more! I could not implement my whole workflow in the provider's infrastructure. So some steps of the workflow have not been done at all on the cloud.
- The data part was great. The provider, supplied my needed data in an efficient way.

What are the highlights of benefits to society derived from our project?

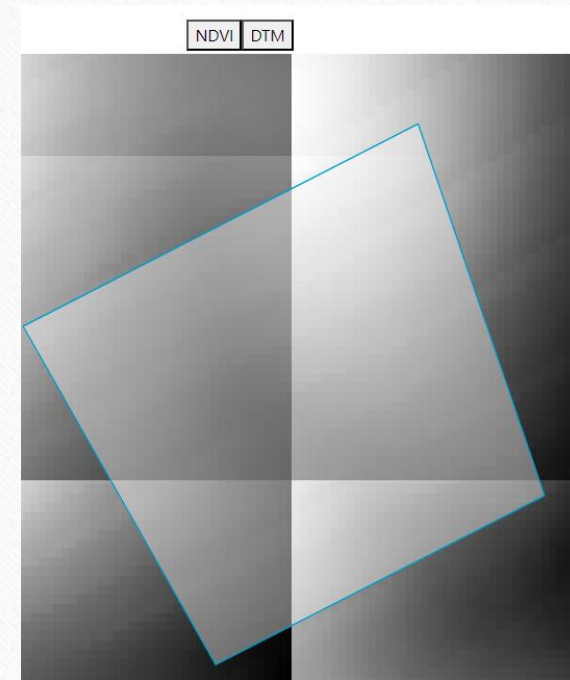
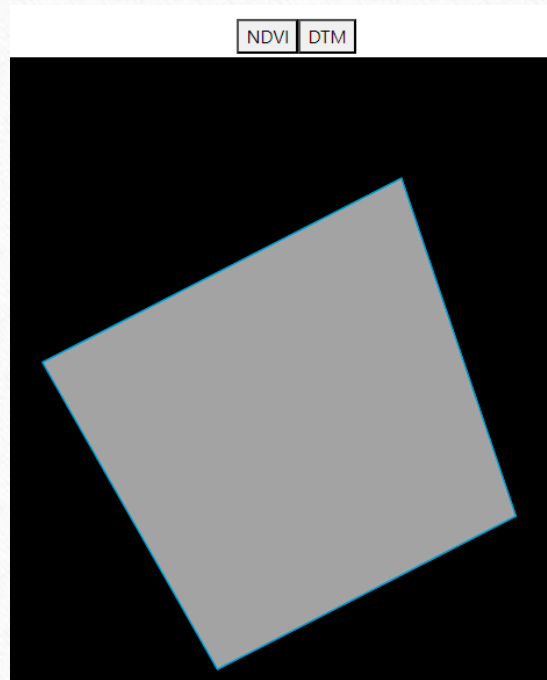
- The main benefit of my products for the society was that they will access data services better than before.
- Another possible benefit which has not been realized yet is providing farming services. Although we have a demo!

Just some print screen from the final web app



When the user draws the boundary of the region will press this button and then will go to the next page.

Just some print screen from the final web app



We already know that the visualization is too weak and should be improved!