The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The title text is centered in the middle of the slide.

# AGRICULTURAL APPLICATION BASED ON SATELLITE IMAGE ANALYSIS AND ARTIFICIAL INTELLIGENCE

DUSTIN NGUYEN

# GOALS

## **OPERATIONAL GOAL ?**

DEVELOP APPLICATIONS THAT PROVIDE USEFUL INFORMATION FOR MAIN PLAYERS IN THE FIELD OF AGRICULTURE

## **FINAL GOAL ?**

FACING AGAINST FOOD INSECURITY USING MODERN TECHNOLOGIES INCLUDING REMOTE SENSING, GIS AND ARTIFICIAL INTELLIGENCE

# GOALS

## **WERE THE GOALS ACHIEVED?**

FOR THE OPERATIONAL GOAL WE IMPLEMENTED A WEB GIS SOFTWARE USING TWO USEFUL LAYERS (VEG. INDEX LAYER + ELEVATION LAYER) FOR AGRICULTURAL INDUSTRY. THESE LAYERS WERE PRODUCED BASED ON CLASSIC AND MODERN (DEEP LEARNING) TECHNIQUES.

# GOALS

## WERE THE GOALS ACHIEVED?

THE DEMO OF THE SOFTWARE WAS IMPLEMENTED WHICH USED SEVERAL TECHNOLOGIES (RS,GIS,AI) SUCCESSFULLY!

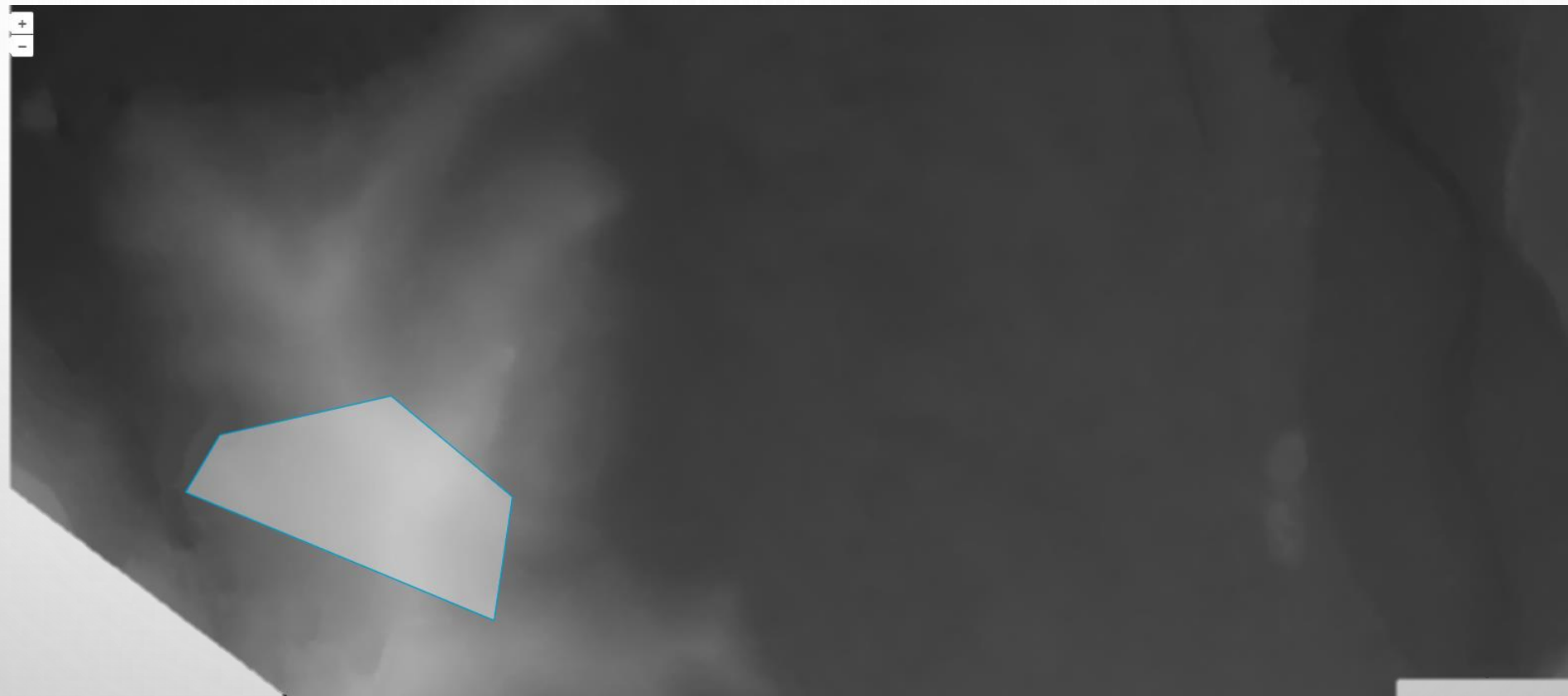
BUT STILL WE HAVE NOT SEEN ANY REAL WORLD EFFECT!

# **CLOUD ENVIRONMENTS HELPFULNESS**

- **CONNECTING THE DATA WORLD TO THE PROCESSING WORLD WAS AN AMAZING EXPERIENCE. SPECIALLY WHEN THE DATA IS COMMERCIAL.**
- **THE PROCESSING PART OF THE STORY WAS LIMITED, MADE US TO DOWNLOAD AND NOT DO THE WHOLE PROCESS ON THE CLOUD.**

# **BENEFITS**

- AS SAID BEFORE AGRICULTURE INDUSTRY STILL HAS NOT BENEFITED TOO MUCH!
- BUT ACCORDING TO POSSIBLE USAGES OF STEREO DATA, WE COULD PROVIDE PRODUCTS FOR TELECOM INDUSTRY (AS THEY ARE ALSO INTERESTED IN ELEVATION MODELS)



DTM of the selected region