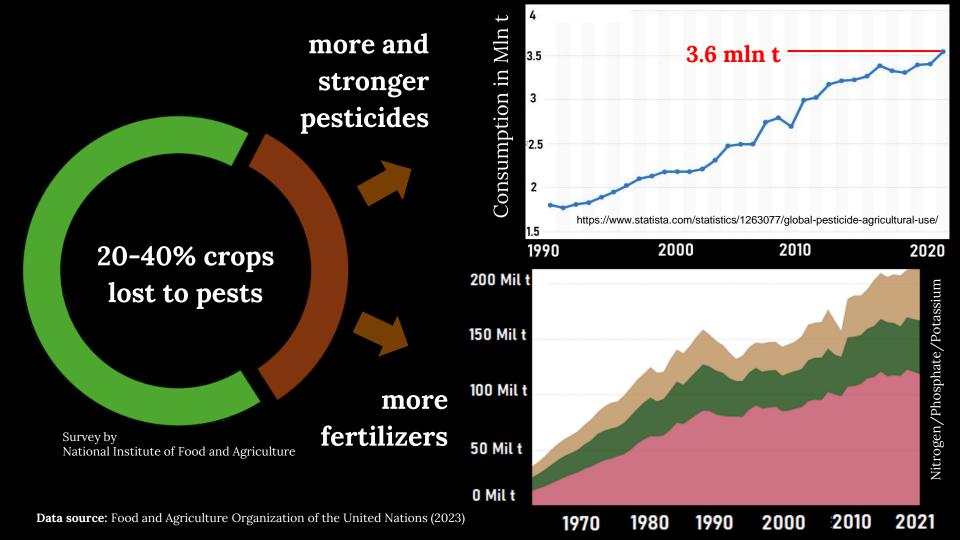
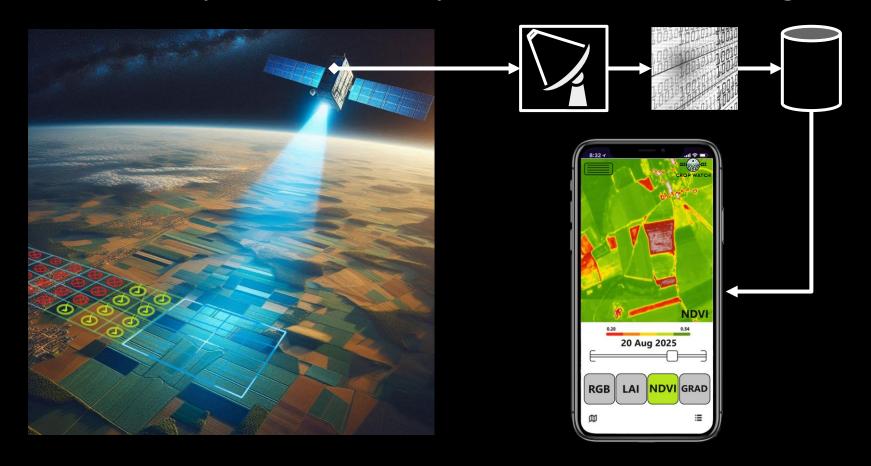


Alexandra Kobakova, Abinash Dhakal, Pedro Perez Hita, Yavor Tsokov, Yavor Yordanov, Oskar Grudziński

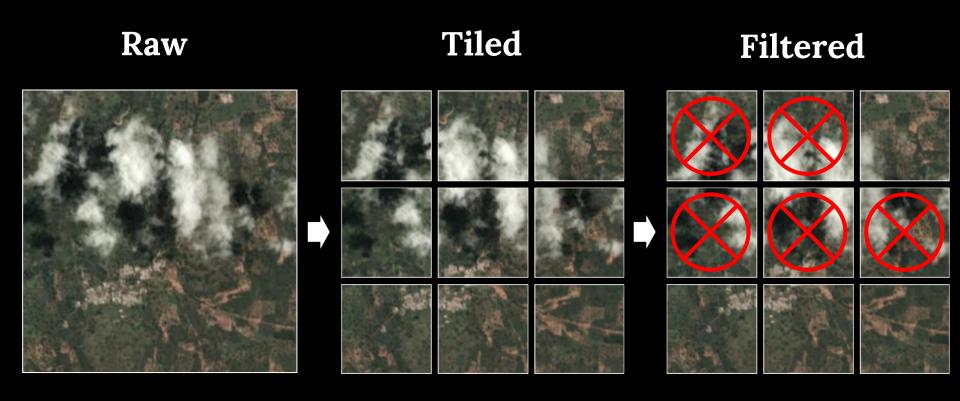




### — Data Analysis for Healthy, Sustainable Farming –



## In-Orbit Processing



### **In-Orbit Processing**

Tile

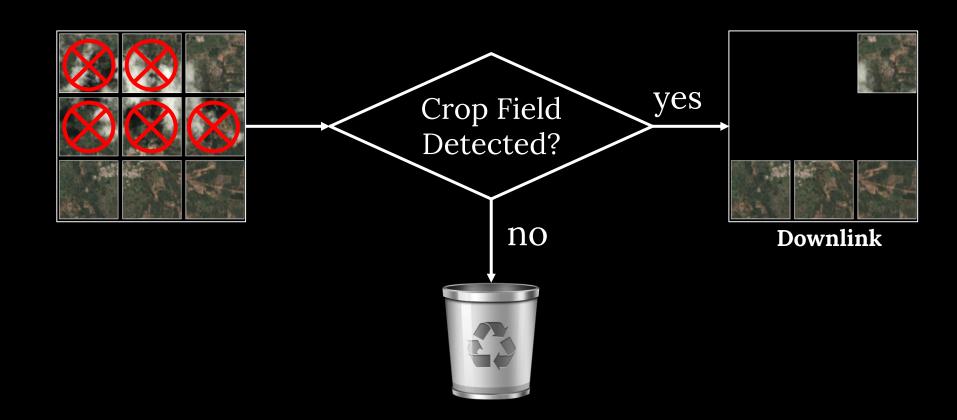


# ML Biome Classification

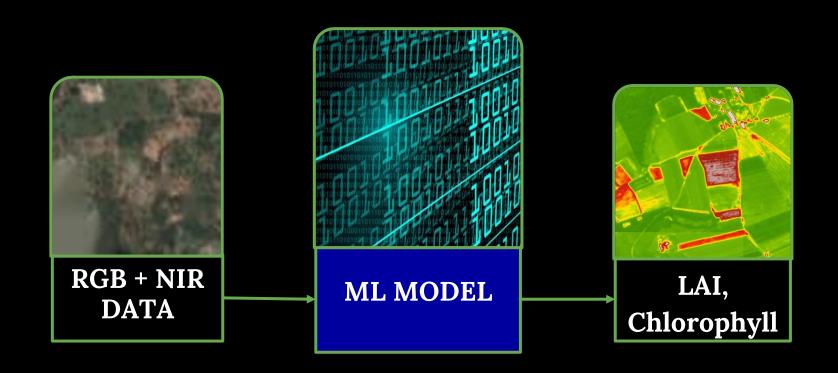


Predicted: Crop Accuracy: 94%

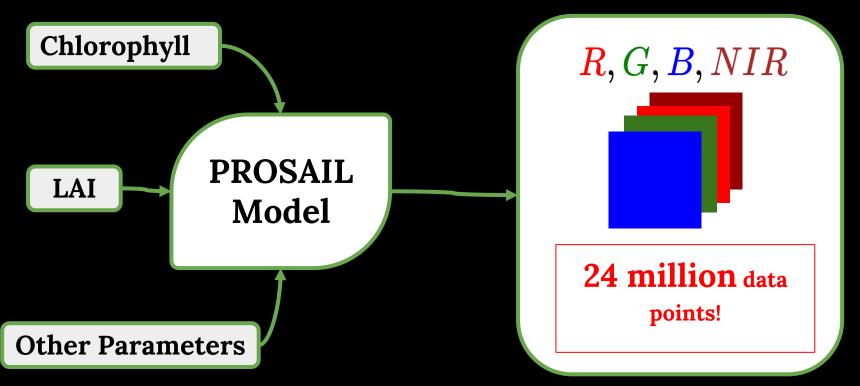
## **In-Orbit Processing**



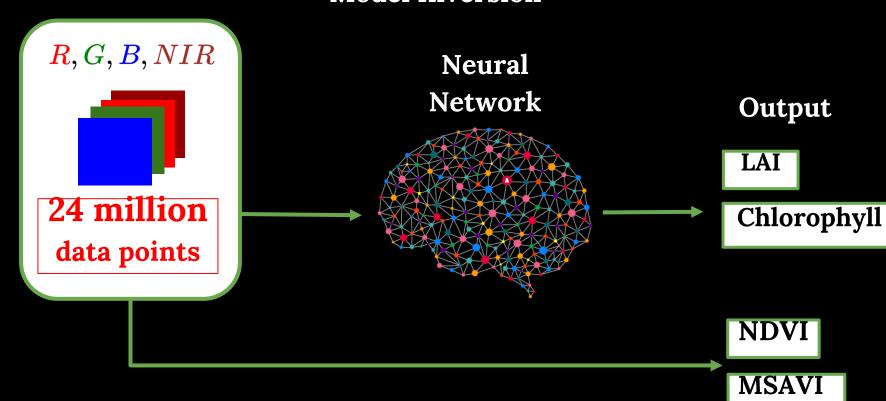
### **On-Ground Processing**



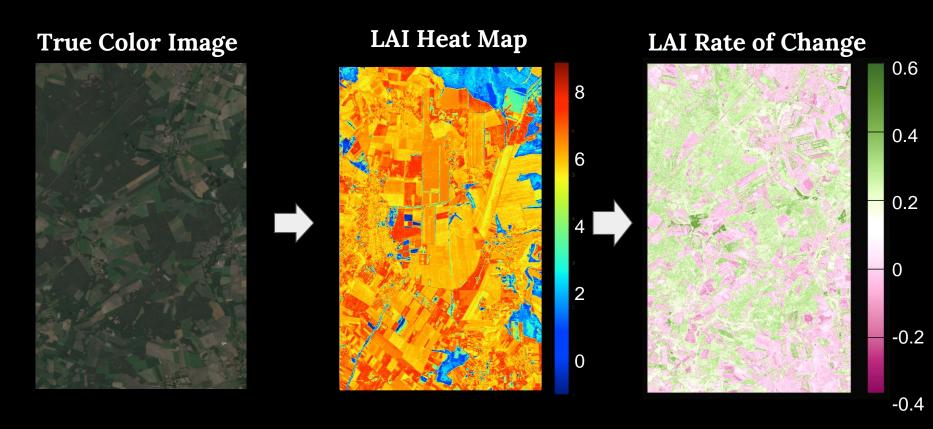
# On-Ground Processing Data Preparation



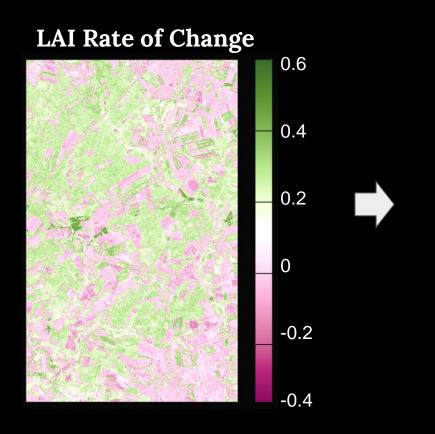
# On-Ground Processing Model Inversion

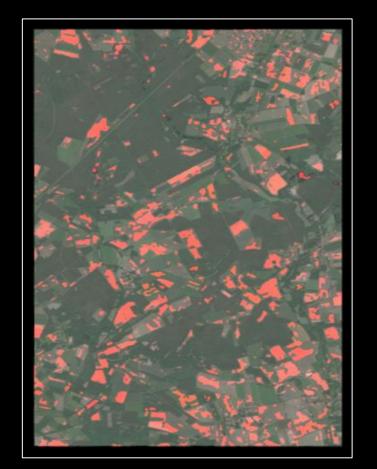


# On-Ground Processing Data Visualization

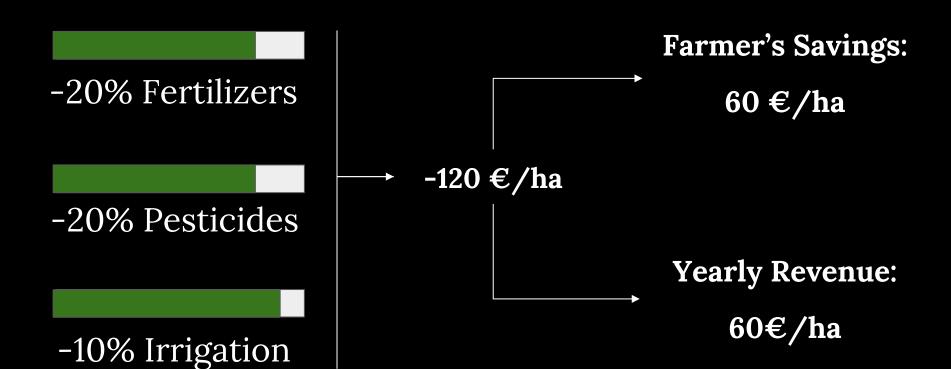


#### Illness Indicator





#### **Everybody Wins**



### $-\!-\!$ Data Analysis for Healthy, Sustainable Farming $-\!-\!$

**HEALTHIER FOOD** 

**FARMERS' SAVINGS** 

LOWER POLLUTION





Oskar Filip Grudziński Team Captain & Business Strategist



**Alexandra Kobakova** Literature Research & Data Visualisation



Pedro Perez Hita Machine Learning & Image Recognition Specialist



Yavor Yordanov Hardware Integration & Data Scientist



**Abinash Dhakal** Lead Programmer & Data Scientist



**Yavor Tsokov** Machine Learning & Documentation

