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*“GreenTech Hub: Georgian Farmer Association Digital Projects”*





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# Crop Monitoring

*Listening to the pulse of fields*



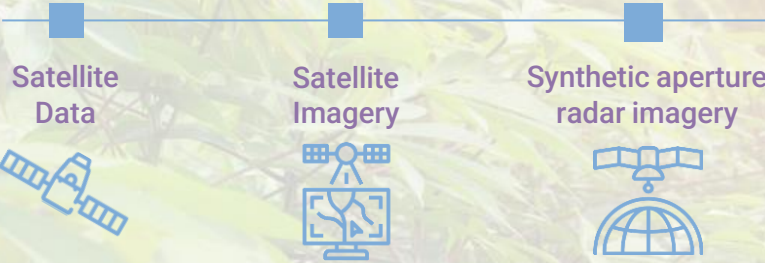
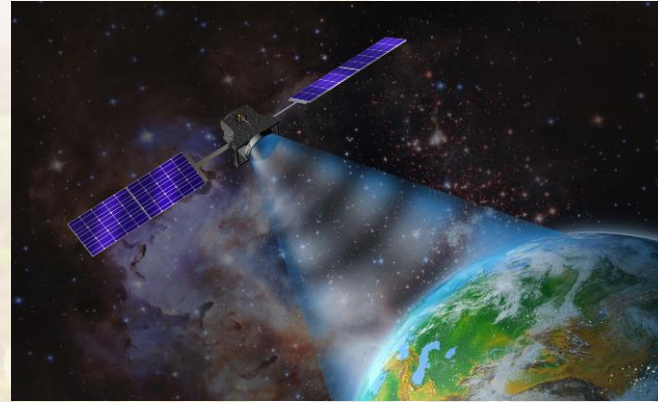


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# EARTH OBSERVING SYSTEM

EOS is an international company specializing in high quality satellite imagery analysis.



EOS uses a number of algorithms that allow us to analyze the resulting data for any required aspect of business and to adapt them to work for a number of industries.



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## Features



Field monitoring



Weather data



Zoning



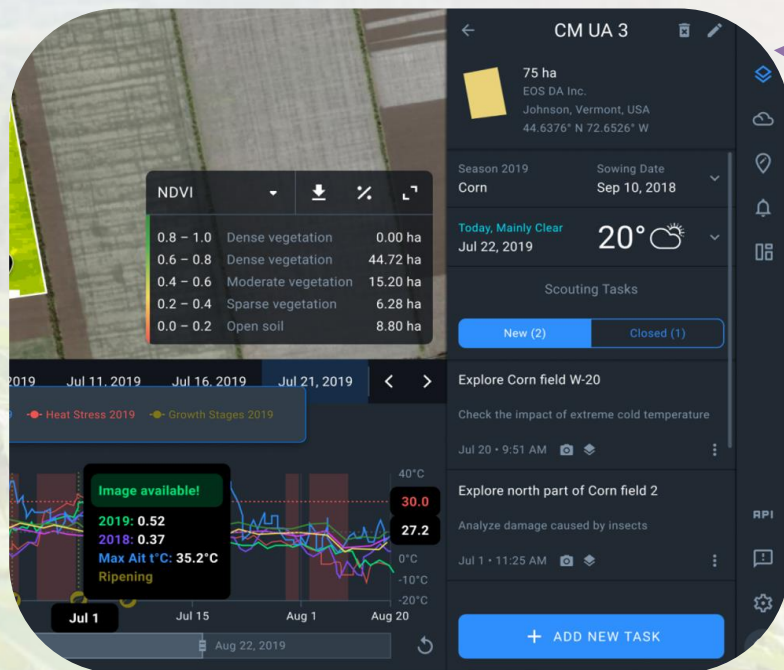
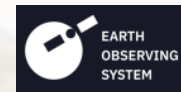
Scouting



Field Rating



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## Field monitoring tab

1. Timely detect stressed areas on your fields with NDVI, MSAVI, NDRE, NDMI, and RECI indices.
2. Perform historical analysis based on 5-year satellite data and 10-year weather data.
3. Detect the correlation between weather data (precipitation, soil moisture, heat/cold stress) and vegetation deviations.
4. Keep crop rotation data and other records in a single source.



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**NDVI** (Development stage - Harvesting. This index displays the crop's readiness to be harvested)



**NDRE** (Development stage - Harvesting. This index displays the crop's readiness to be harvested)



**RECI** (Development stage - Active phase of crop development. This index highlights problematic areas)



**MSAVI** (Development stage - Seedlings. This index displays the seedling density rate)





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# Detect Winter-killed Crops



Winter-killed cover crops

Far from the road to detect it  
with your unaided eye





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# Fertilizer tracking

Tracking the effects of fertilizers and  
plant protection agents





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# Field rating



**Filter fields by Group and Crop Type**

**Follow every NDVI deviation**

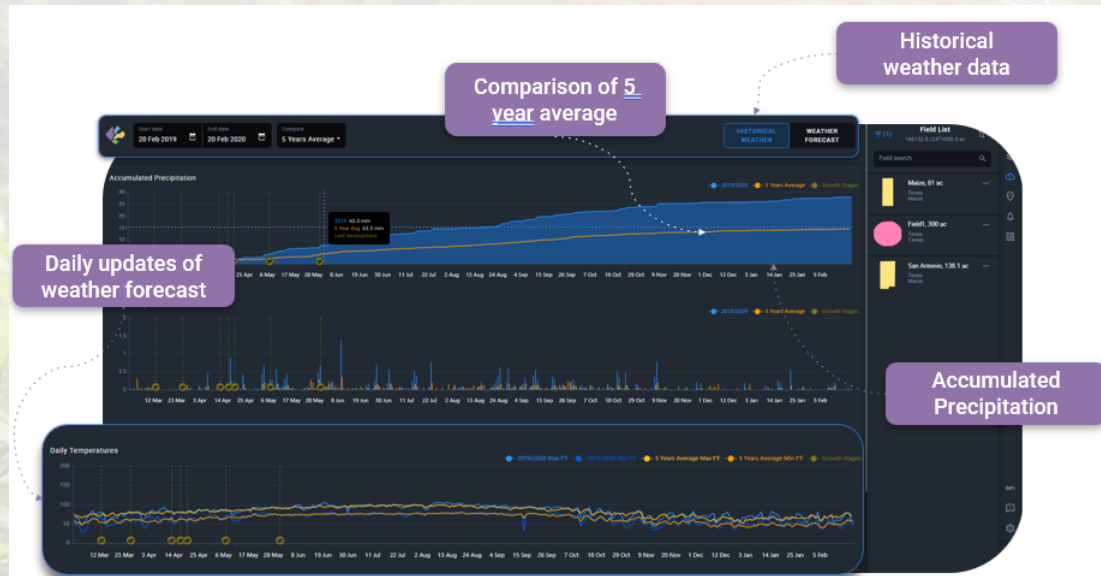
Field	Location	Coordinates	Area	Crop	Sowing date	Index value	Value change	Image date	Preview
Field 64	Argentina Rio Grande del Sur	31.8302°S 63.9221°W	496.4 ac	Group 2	01.01.2019	0.13	-0.05	23.06.2020 Open	
Field 80	New Zealand Canterbury	48.8005°S 171.7388°E	318.3 ac	Group 2	01.01.2020	0.77	+0.78	22.06.2020 Open	
Field 81	Angola Luanda Sur Province Bundo	11.2053°S 13.8562°E	13.8 ac	Group 2	01.01.2019	0.38	-0.02	21.06.2020 Open	
Field 67	United States Iowa Millsboro County	42.6543°N 113.5873°W	20.5 ac	Group 2 Potatoes	20.04.2020	0.64	+0.20	19.06.2020 Open	
Field 85	United States Mississippi Franklin Parish Lafayette	44.7504°N 93.5416°W	125.5 ac	Group 2 Maize	30.04.2020	0.48	+0.08	18.06.2020 Open	
Field 86	United States California Santa Barbara County	34.6167°N 120.4920°W	7.7 ac	Group 2	01.01.2019	0.62	+0.06	15.06.2020 Open	



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# Weather data

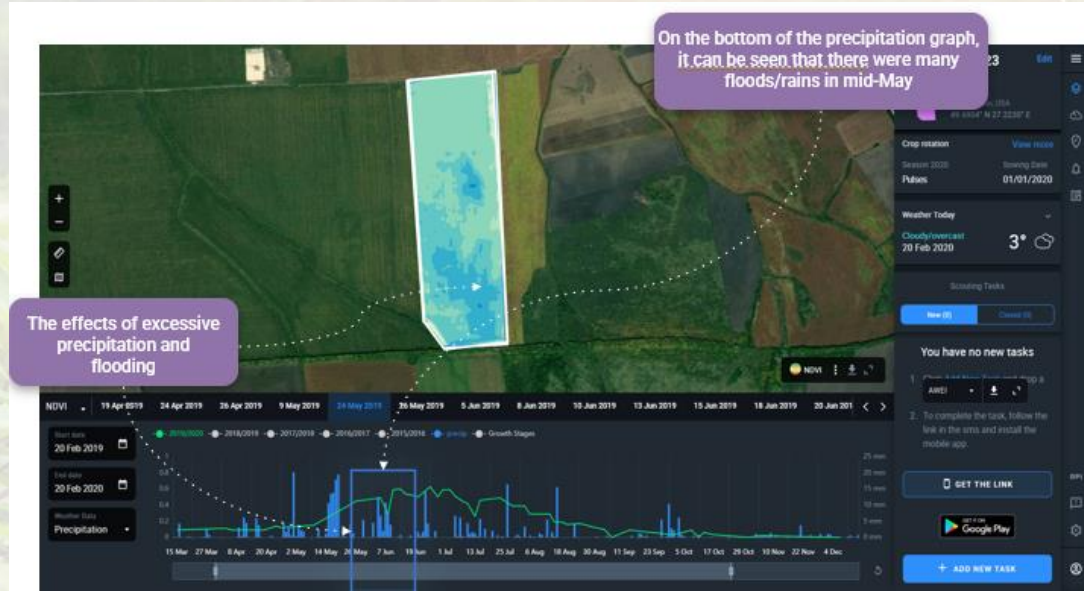




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# Field Flood Identification





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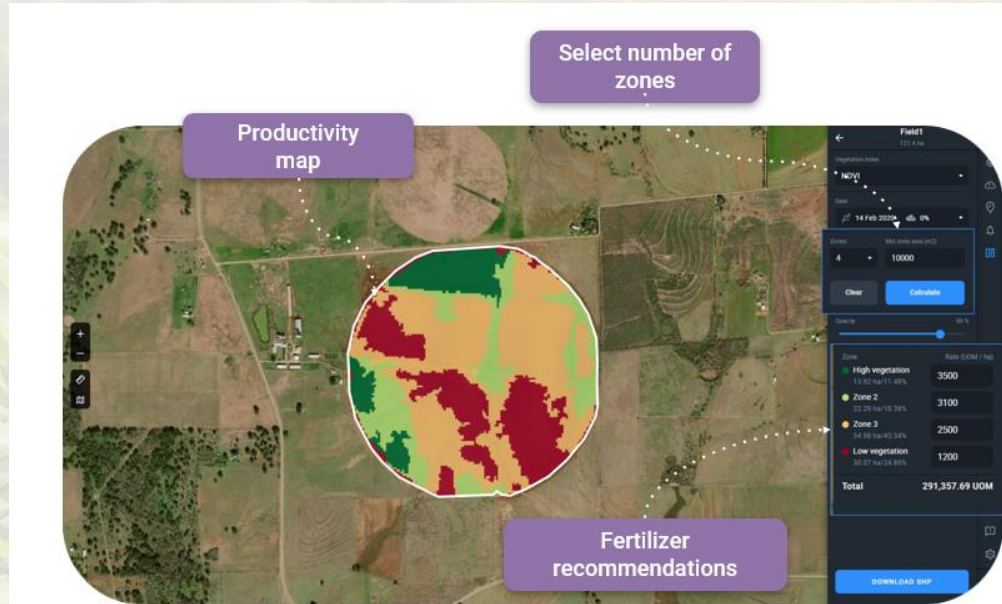


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# Nitrogen VRA map

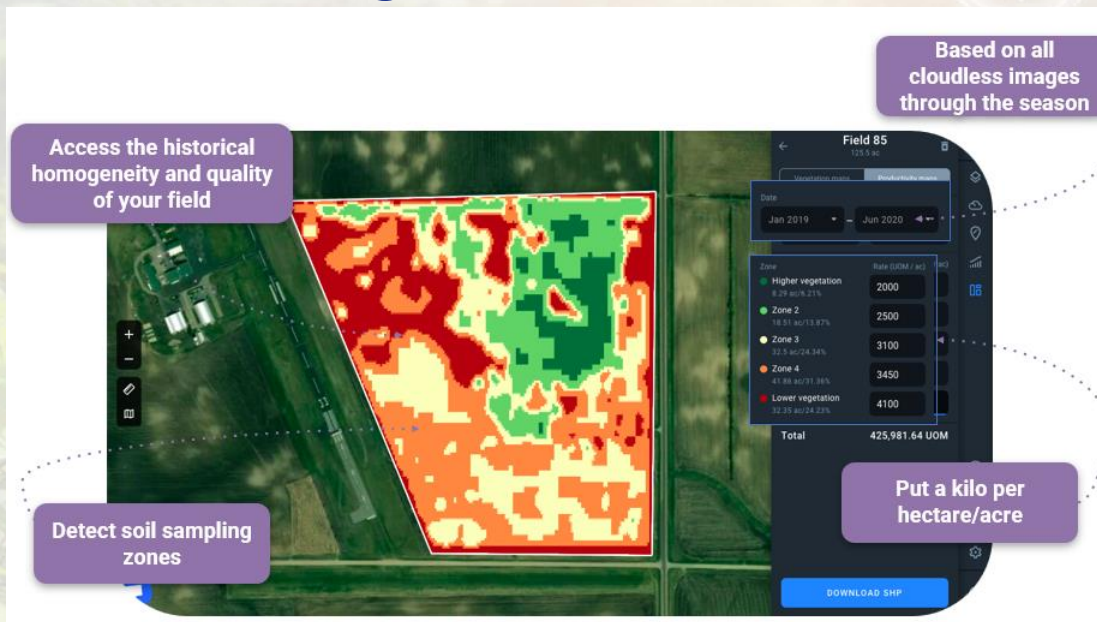




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# Access historical homogeneity of your field





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# Scouting

Online and offline modes

Track the progress of your tasks

Indicate the GPS coordinates of the field





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# Vehicle Data Manager



**Field Activities** 2020 Season

All Groups All Crops All Activities

March 2020

Field C

Sowing date

CM UA 1, 98 ha Group 1, Winter Wheat 02.03.2020 Fertilization 01.03.20.03 Other 35.03.20.03

CM UA 1, 98 ha Group 1, Winter Wheat 02.03.2020 Fertilization 06.03.20.04 Fertilization 01.03.20.04

CM UA 1, 98 ha Group 1, Winter Wheat 02.03.2020 Fertilization 04.03.20.03 Spraying 11.03.20.04

CM UA 1, 98 ha Group 1, Winter Wheat 02.03.2020 Fertilization 04.03.20.03 Tillage 08.02.19.03 Other 14.03.20.03

CM UA 1, 98 ha Group 1, Winter Wheat 02.03.2020 Tillage 15.02.21.03 Other 14.03.20.03

CM UA 1, 98 ha Group 1, Winter Wheat 02.03.2020 Spraying 04.03.20.04 Other 35.03.20.04

CM UA 1, 98 ha Group 1, Winter Wheat 02.03.2020 Fertilization 04.03.20.03 Other 35.03.20.03

CM UA 1, 98 ha Group 1, Winter Wheat 02.03.2020 Fertilization 08.03.20.03 Other 35.03.20.03

CM UA 1, 98 ha Group 1, Winter Wheat 02.03.2020 Tillage 08.03.19.03 Other 36.03.04.04

Indicate the GPS coordinates of the field

Sort by type crop, groups, activities

Spraying +

Plan Date: 19.03-24.03

Plan Coast: \$100500

Plan Description: Recommended average rates of nutrients for open field Winter Wheat (Kg/ha)

Read More





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## Benefits

- ✓ Cost-efficient entry into the smart farming trend
- ✓ Effective decision-making with satellite data
- ✓ Increasing profits from your fields
- ✓ Reduction of scouting costs
- ✓ Advanced problem-spotting within your fields
- ✓ Precise weather predictions
- ✓ Determine which are your most productive fields
- ✓ 24/7 access to your fields from anywhere at anytime





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**THANK YOU FOR YOUR PARTICIPATION!**  
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