

# Hecterra

Solution for agribusiness

Control. Management. Analytics.



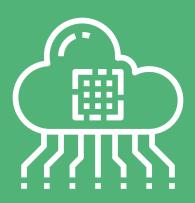
# Scope of application



This is a simple yet effective application for the agro-industry, which allows controlling field works based on telematics data.









## Fields and crops

Crop rotation and the detailed operations history for each field.

## **Special vehicles and drivers**

Using drivers, units, and trailers created in Wialon. Calculation and control of multiple parameters for each field cultivation.

## Integration

API for data transfer to any accounting systems and the development of solutions tailored to the enterprise needs.

## Reports

Easy reports generation by various parameters.
Reports export in .csv and .xlsx formats.



## Hecterra user profile





## **Dispatcher**

- Controls the performance quality and workload of agricultural machinery on a daily basis
- Processes the performance reports



## **Agronomist**

Controls crops and operations over them



## **Accountant**

 Works with data received through API in accounting systems



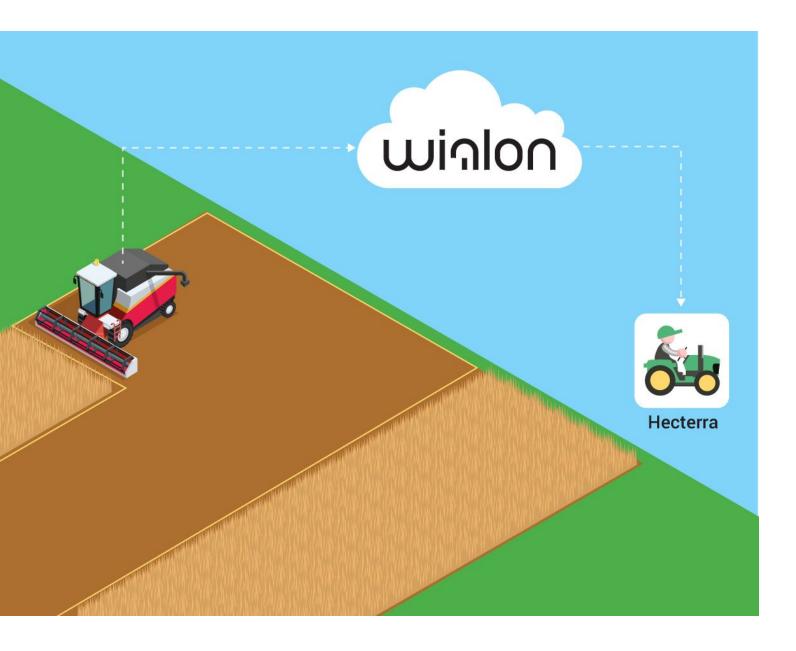
## Manager

- Makes decisions based on reliable data
- Plans and optimizes the agribusiness processes



# How Hecterra changes business?







#### Reliable data

Hecterra calculates the field cultivations of complex shapes, taking in overlaps, omissions, and uncultivated areas inside the fields. You can control all works regardless of the field shape and monitor the number of cultivations improving the overall results.



#### **Special vehicles control**

Get clear data about the quality and volume of the field operations, as well as about the actions of the agricultural vehicles and vehicle operators. Monitor the performance of each employee daily.



#### **Automated calculations**

The application calculates the cultivated field areas, overlaps and omissions, fuel consumption, mileage, speed, and other parameters, saving employees' and managers' time. Get the daily detailed information on the completed works and use it in accounting and reporting.



### **API integration**

Transfer data from Hecterra and employ it in any accounting systems using API. Stop practicing the time-consuming manual data transfer.

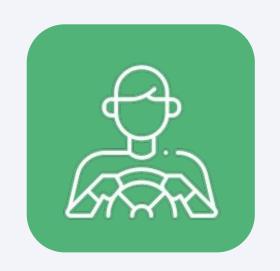














Specialized Wialon-based solution

Full-featured API for all sorts of integrations

Simple and user-friendly interface

Special vehicles and drivers control

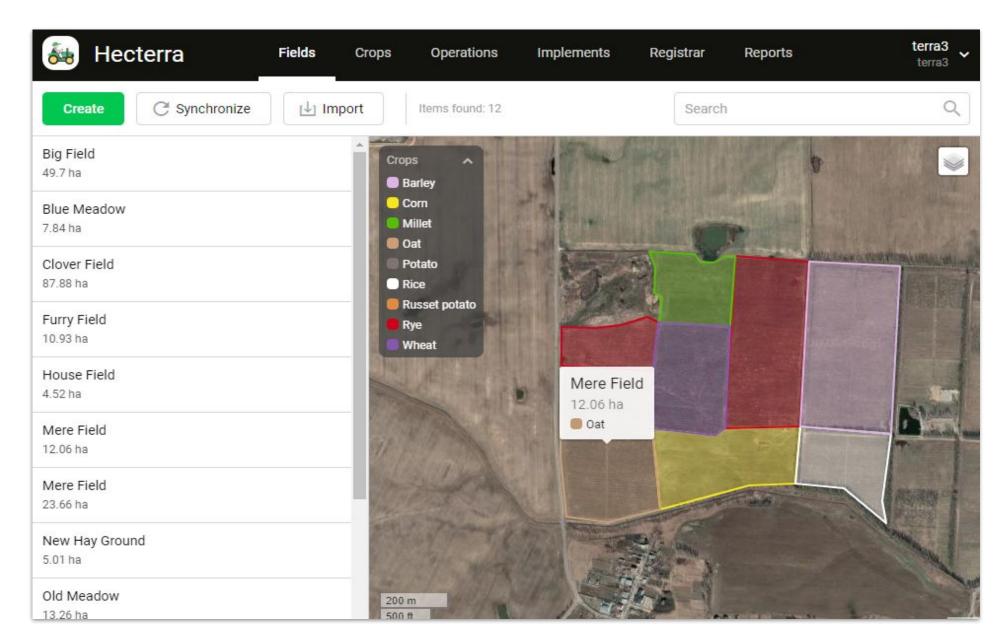
Detailed reports on operations performed



# How does it work? Fields and crops



- 1
- Fill in **crops catalogs**. Each crop has its color. Later, it will be the color of the field where this crop grows. It facilitates working with the fields on the maps.
- Import (from Wialon or KML, KMZ, SHP files) or create fields. You can export fields into KMZ files.
- Control the fields **crop rotation**. For each field in the system you can:
  - specify the crop that grew in this field before or is growing there now;
  - add the seasons specifying the crops planting and harvesting dates.
- View in reports the each field operations history.

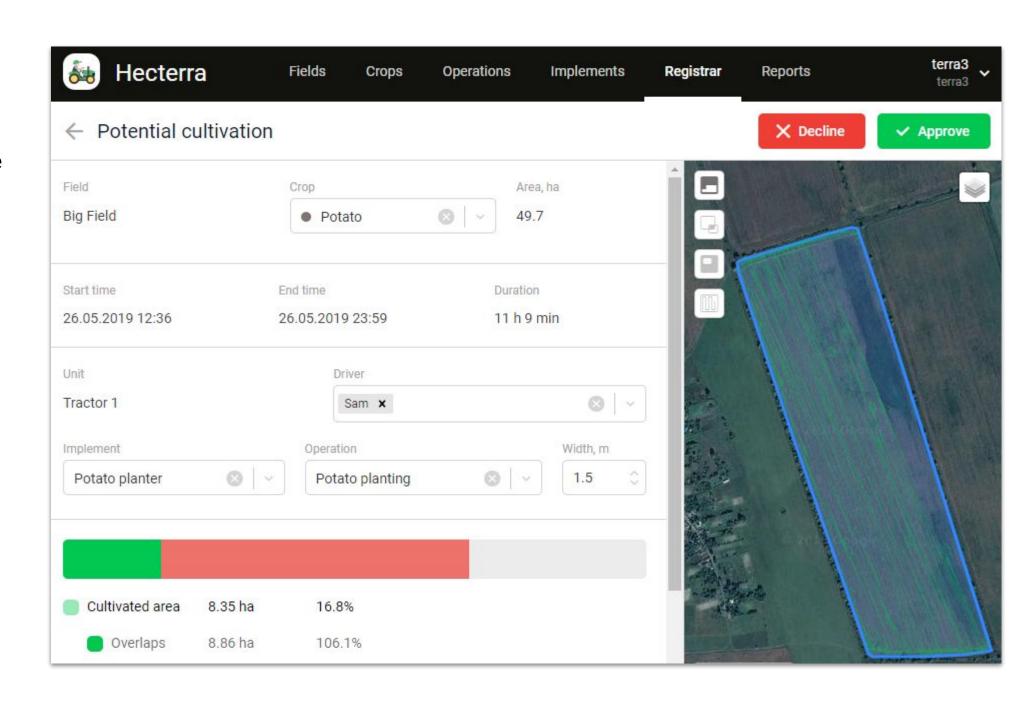






- 2
- Finished the working day? Launch the new field cultivations search to know what your employees did today and how. Hecterra will show the list of new cultivations. **Potential cultivation** is the intersection of the unit's track with the field geofence.
- View and edit the found cultivations. **Approve or reject cultivations**; when approved they will get into reports.

We recommend searching and approving cultivations daily. During the process, the dispatcher can take the attached equipment work sensors into account as well. Thus, you will be aware of all the operations performed, and through the reports will get the most recent and accurate data on what was going on in your fields.



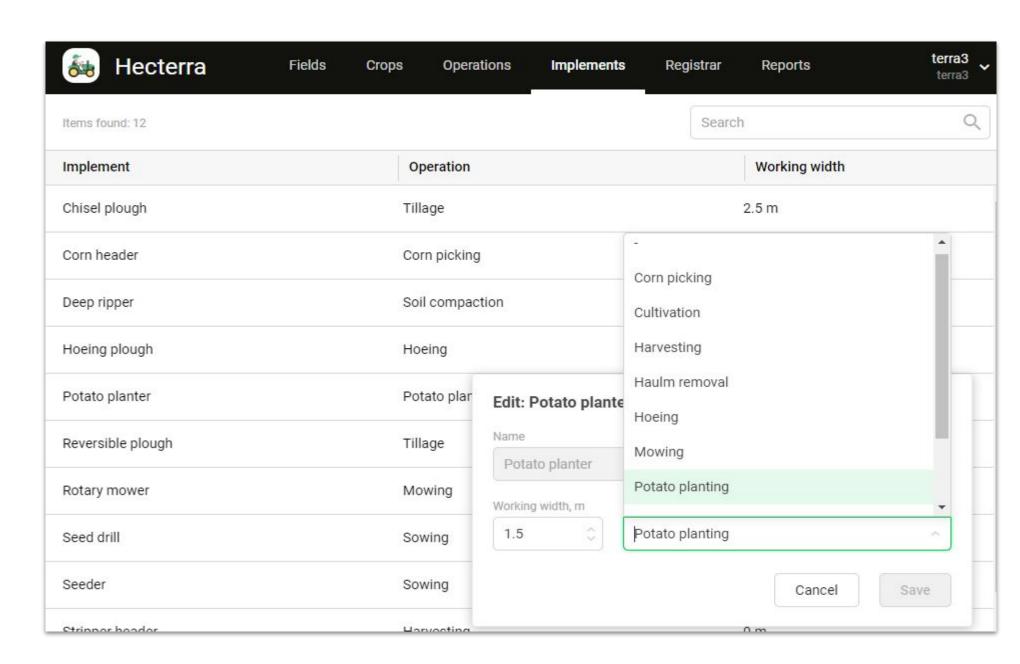


# How does it works? Special vehicles and drivers



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- Use drivers, units, and trailers created in Wialon.
- Trailers from Wialon are called **implements** in Hecterra. You can specify the working width in meters and operation for each implement, for example, harrowing. Hecterra uses the working width to define where the cultivation took place and if there are missed or overlapping areas in it.
- Fill in **the operations catalog**. Operations are specified in implements properties and used in cultivations and reports.
- **Drivers** are defined for each cultivation and are displayed in the reports.





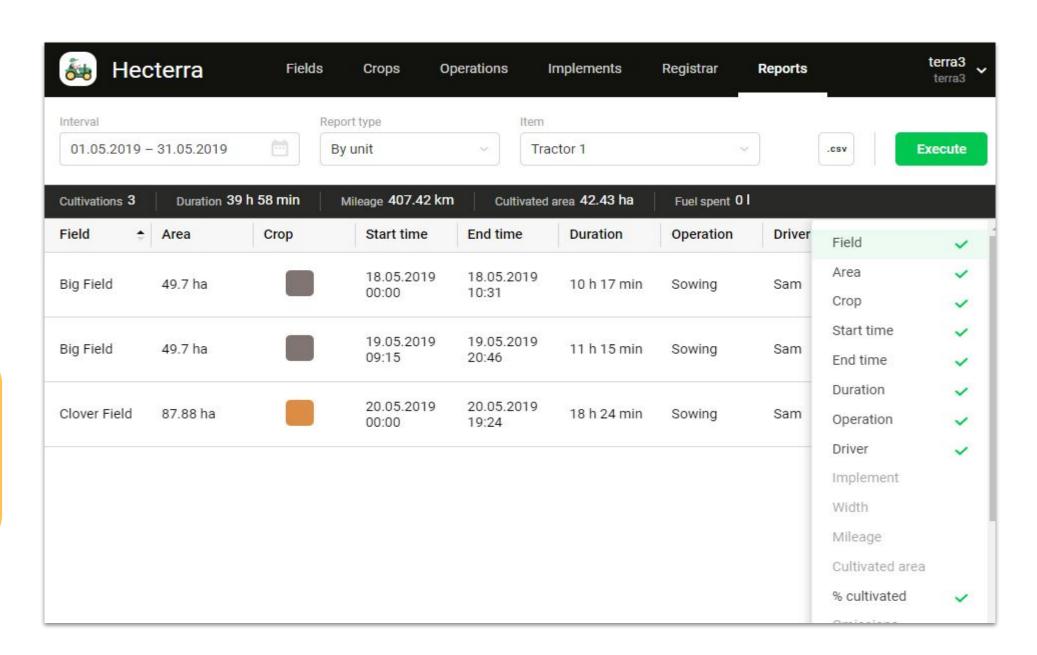
# How does it works? Reports





- **Build reports** by all cultivations, specific drivers, fields, operations, units, and crops.
- Reports contain **all the data on cultivations**: mileage, omissions, duration, fuel consumption, overlaps, maximum and average speed, and other parameters.
- Export reports in the .csv and .xlsx formats.

Reports are generated based on the approved cultivations. Data on the approved cultivations is stored for 5 years, its visual elements (polygons, tracks on the map, etc.) are stored for 11 months.





# How does it works? Reports





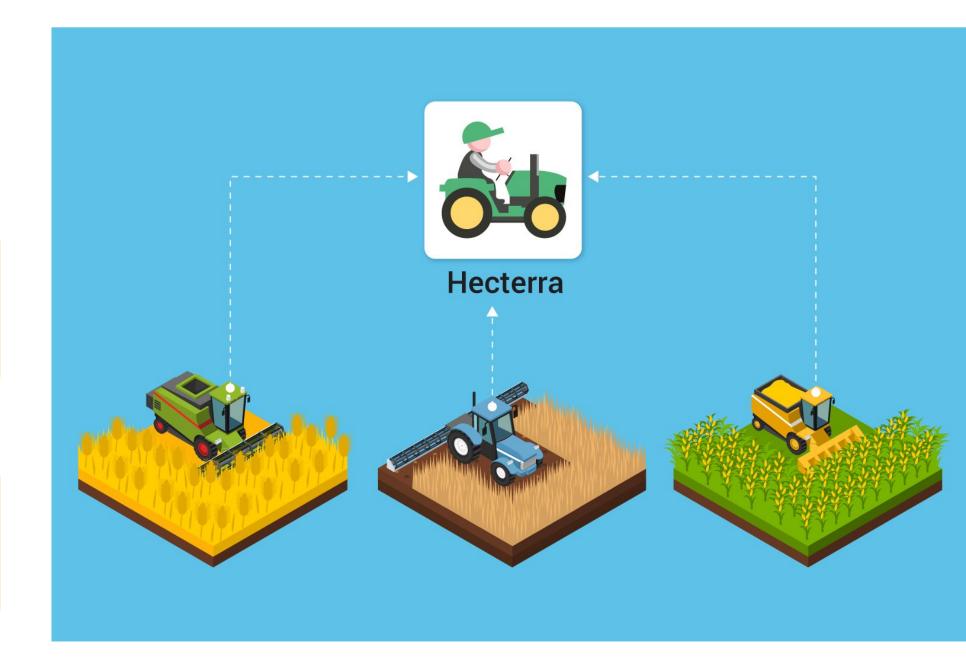
Reports allow you to not only control all types of work but also assess their quality, and improve the agricultural processes of your enterprise.

#### **Example 1**

Too many omissions or overlaps during the field cultivation? Give instructions to the driver because part of the field was left unplanted or the other way around, the too dense sowing can affect the quality of seedlings.

#### **Example 2**

Coming up with the financial plan? Check how much fuel your employees spent last season, and consider these numbers upon allocating funds for future costs.





# **API for integration with all kinds of software**



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**Hecterra** is a ready-made solution for agribusinesses which can be set up and put into use in one day. But for the solution to be able to function for literally any agricultural enterprise, we created Hecterra API within Wialon API and SDK.

- Transfer fields, cultivations, operations, crops, drivers, and implements data to all sorts of accounting systems. **Use this data when creating financial, personnel, or technical reports.**
- Add, edit, or delete crops, operations, cultivations, and fields through API. Give the client a possibility to manage agricultural processes using any software by combining Hecterra API with custom development.
- Develop the agribusiness management system of any complexity with data received from Hecterra.





# API for integration with all kinds of software



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#### Results::

- Agribusiness automation and digitalization
- Integration with corporate accounting systems
- Integration with any corporate software
- Ease of use, resources savings, employees and enterprise effectiveness

#### **API Hecterra use cases::**

- Trip tickets auto-filling
- Field works billing for salary calculation
- Farming machinery lease calculation
- Maintenance intervals calculation for farming machinery



