



SORGHUM,
A KEY TO BUILD
OUR FUTURE.

3RD EUROPEAN SORGHUM CONGRESS

DRONE TEST TO IMPROVE SORGHUM POLLINATION



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Gabor FECZAK
General Director



- AGROSZEMEK Kft.(Ltd.) was founded in the year 1990, it is located in Hungary
- More than 30 years knowledge in case of Sorghum



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AGROSZEMEK MAIN ACTIVITIES

- Sorghum seeds production
- Breeding
- Demo trials, plant protection trials
- Advisement of Sorghum's cultivation technology to our partners
- Sorghum plant protection consultancy with our clients



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THE REASON WHY WE USE DRONE

- Windlessness:
There is no wind during the flowering time and hot weather condition
- Increasing yields: pollen pressure is extended (e.g female's middle rows)





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DRONE

- Type: TTA M6E-1 Agriculture sparying Drone
- 6 pcs rotors
- Diameter: 1400 mm
- Performance: approx. 2 hectares with
- 1 battery/flight

Flying without spraying, we need only the turbulence



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DRONE MAKES HUGE TURBULENCE







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SETTING THE DRONE'S PARAMETERS

-  Height: over the plants 1,5 m
-  Speed: 4-5 m/sec
-  Setting the AB point (straight) of the male line
-  Setting the line spacing (swath):
calibrating the distance between
male lines:
4,5-5 meter (ratio 8:2, row distance:
45 cm)

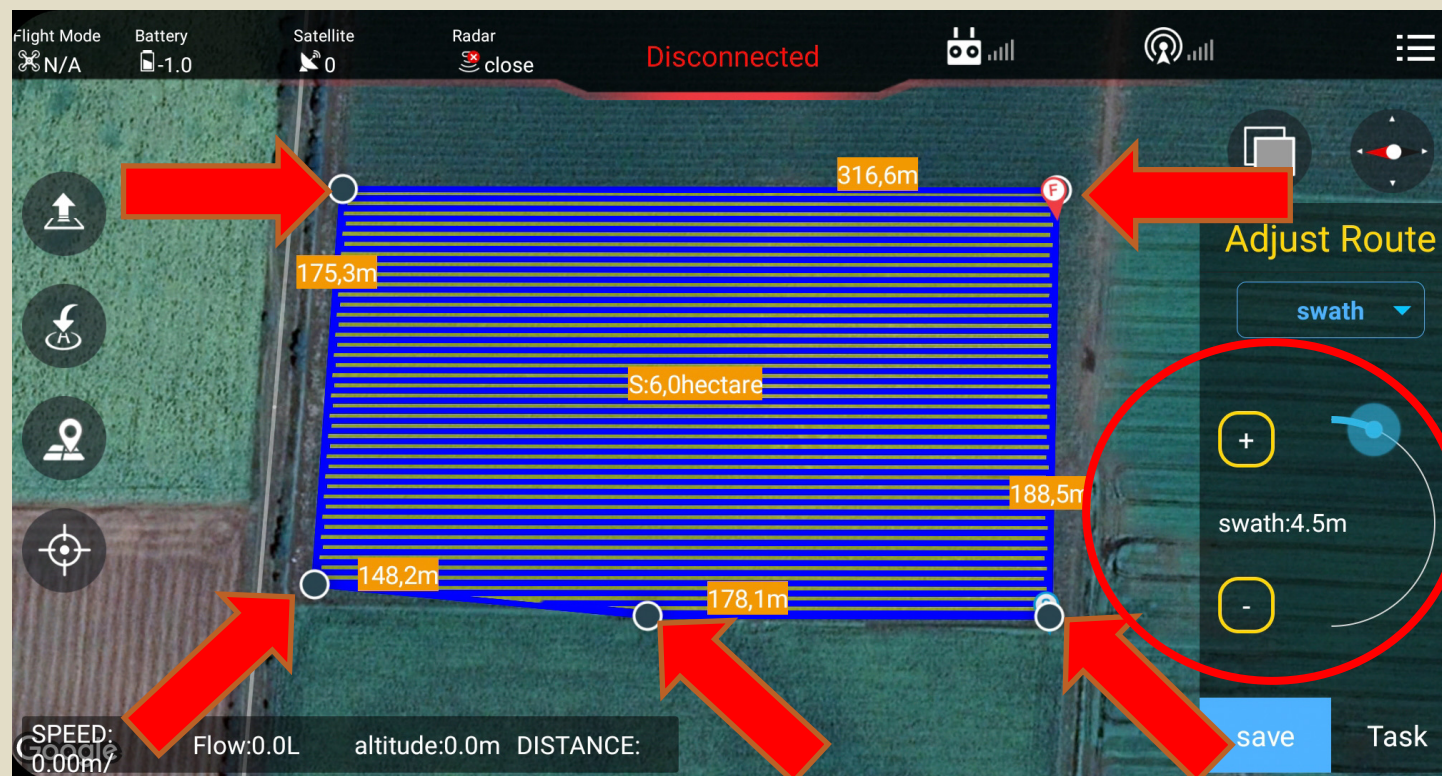




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TASK ADJUSTMENT 1 (SET CORNERS)

- Adjust the corners of the area
- Use map point or phone dots (not so precise)



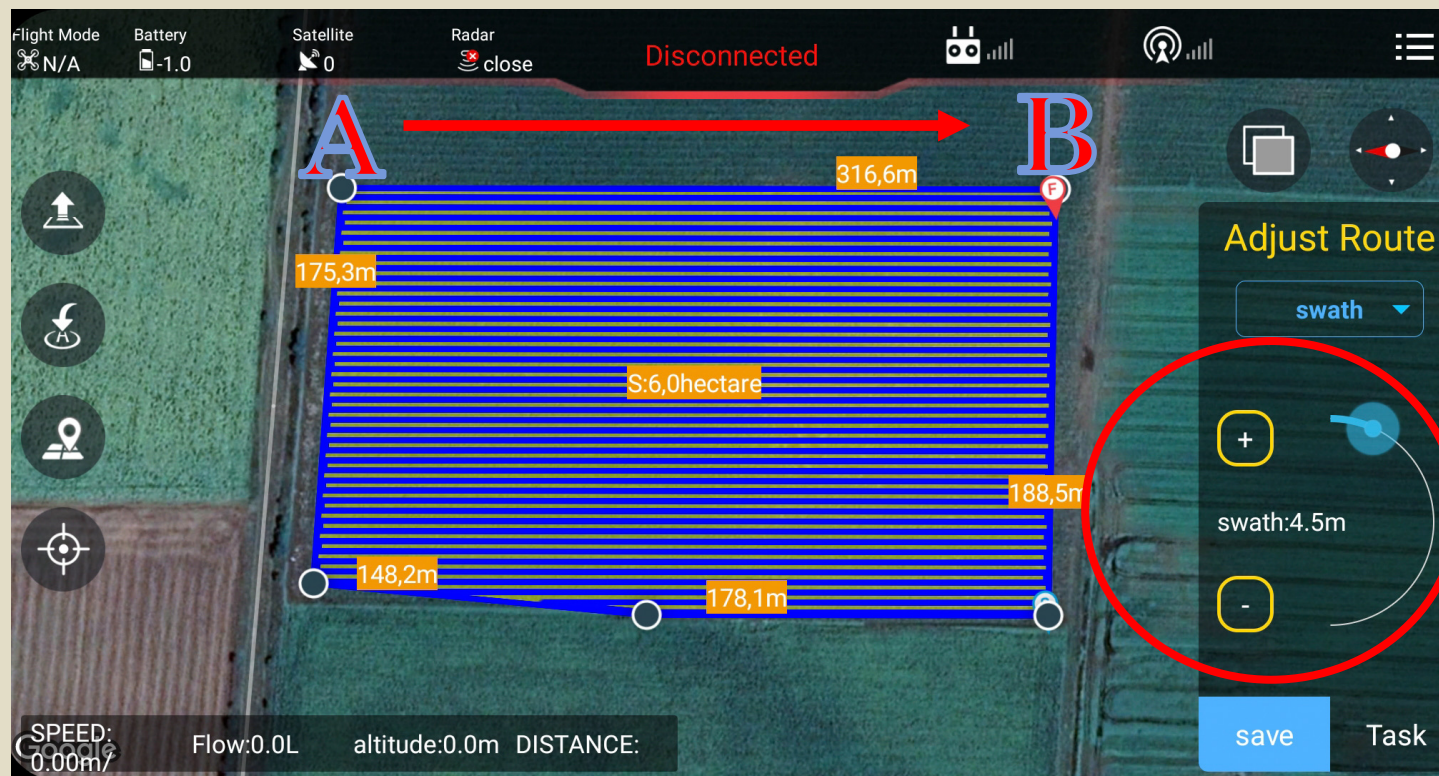
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TASK ADJUSTMENT 2 (AB POINT)

- Much more precise(Drone's GPS)
- Straight above the male line



- Hovering with Drone → Set A (start) point above the male line → Fly till the end of this m
line and → B (finish) point Left or right direction



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FLYING ABOVE THE MALE LINES



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RESULTS

(IN SEEDS PRODUCTION)

- Safer grain fixing in the panicles (windlessness, hot weather condition)
- + 10-15% yield increasing



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HARVESTING SEEDS PRODUCTION 2021



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**ENJOY
IT'S FROM
EUROPE**

