



**FARMDRÖID**



# Agenda



Video of FD20



About FarmDroid ApS



Challenges for farmers



Benefits with FD20



Benjamin Christensen



Updates for next robot



**FARMDRUID**

# ABOUT FARMDROID



Founded  
2011



Founders  
Jens Warming  
Kristian Warming



Launch of FD20  
May 2019





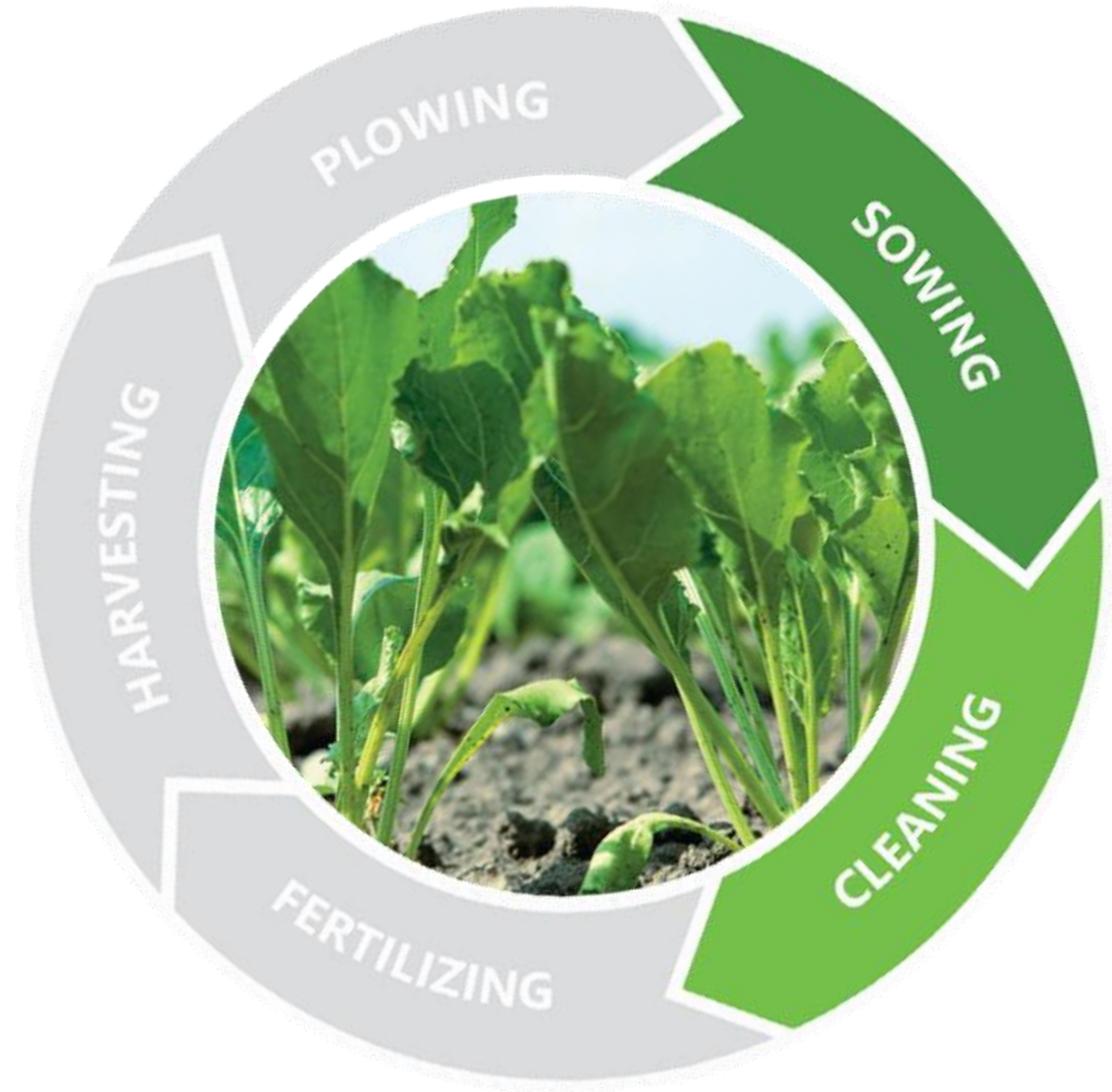
# FARMDROID

The future of sustainable farming

**FARMDROID**

## Challenges for farmers

- Lack of labor
- High labor cost



# Solutions and Benefits

## With Farmdroid

### FD20





FarmDroid  
FD20 uses  
GPS  
technology

instead of vision system.

**FARMDROID**





# Fully autonomous

seeding and weeding process  
of sugar and fodder beets

**FARMDROID**





Able to start  
weeding  
process right  
after sowing

even before plants have  
surfaced





Does not  
destroy the  
soil's  
microstructure

because of the robot's low  
weight

**FARMDROID**

A neon sign with the words "OPEN", "24", and "HOURS" arranged vertically. The sign is illuminated with a bright green light, and the background is dark, making the neon stand out. The sign is mounted on a wall, and the reflection of the sign is visible on the surface below it.

# Autonomous 24/7 operation

due to approved safety  
standards – no need for  
constant supervision





# Meets high environmental standards

battery operated operation  
using solar cells to generate  
power during the day.

**FARMDROID**





# Payback time

approx. 2,5 year





# Enables the return of fodder beets for organic milk farmers

by increasing production beet output  
using precision mechanical weeding

**FARMDROID**

# Technical Details

Model: FD20

Crops: Sugar beets, rapeseed  
and vegetables

Capacity: 20 ha

Soil types: Sand and clay soil  
(JB1 to JB7)

Max slope: 11% (6 degrees)  
depending on soil types

Working width: 3 meters

Row spacing: Configurable in  
interval 20-25cm and 40-50cm

Solar cell capacity: 1.6 kW

Battery capacity: 4.8 kWh

Speed: Configurable 0.5-1.0  
km/h

Weight: <700 kg

Temperature: 0-50 ° C

Degree of protection: IP65

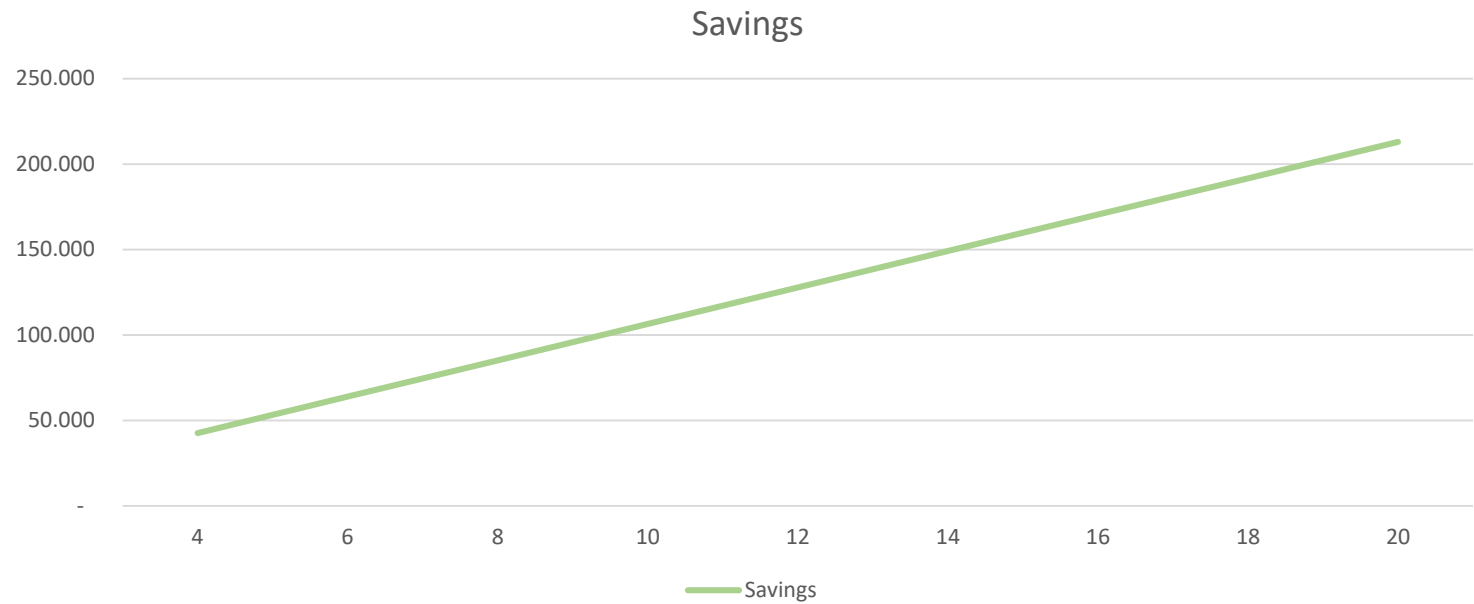
Communications: GSM/radio

Material: Stainless steel: AISI  
304, Plastic: Carbon fiber  
reinforced nylon





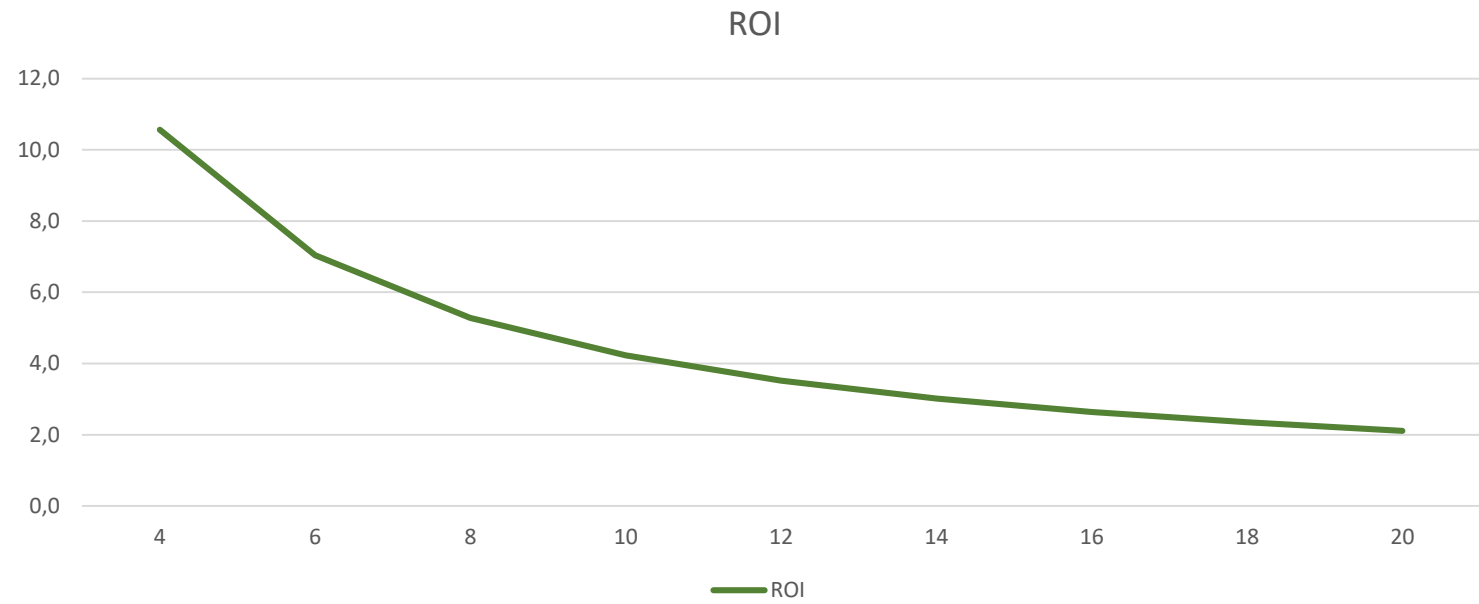
## Business case



Savings per ha: 10.650 kr.



## Return on Investment



Price: 450.000 kr.



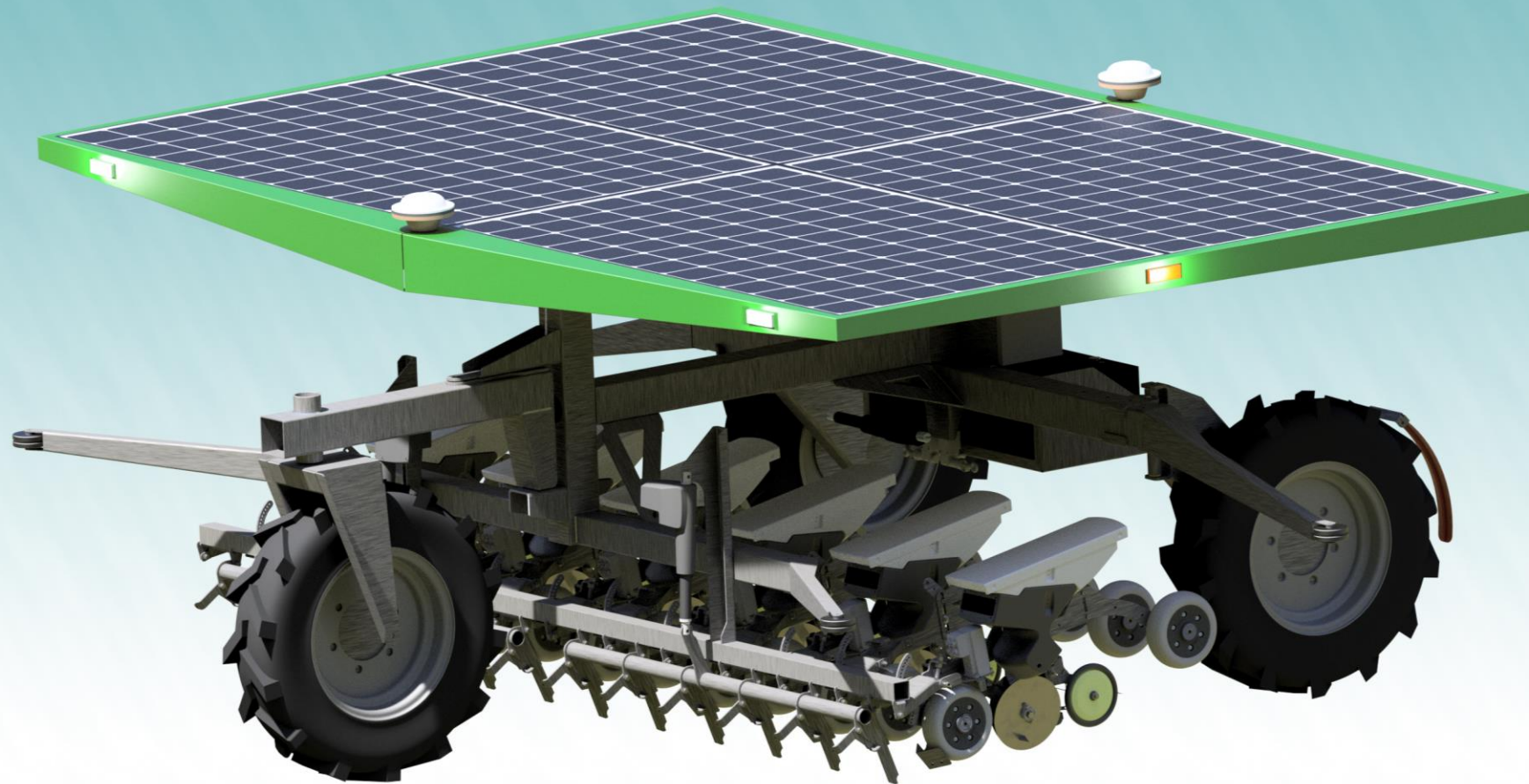


Benjamin Christensen





# Updated robot



# Updated sowing tool

