

6 Plense Technologies

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Empowering breeders and growers with data-driven insights in their crops

in our vision we put the plant as the centre of cultivation enabled through technology that can listen to plants



efficient



accessible

easy



Crop yield is the result of crop performance, which comes from a complex interplay between genetics, environment and management. To understand yield, you need to know how these variables interact.



We are the first in the world to commercially use ultrasound to non-invasively measure inside crops. We combine this with measuring the local microclimate.



We translate acoustic data into information such as water uptake, stress and recovery. Our active method allows for monitoring plant reactions early and in real-time.

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PATENT PROTECTED



sensordata

information

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easy-to-use data



We have tested our technology already on greenhouse crops such as tomatoes and chrysanthemums, but it is applicable to any crop with phloem and xylem vessels.



Combining genetics with crop performance can help you find the fingerprint of the plant. Although scalability at this stage is a challenge, our technology can be used to distinguish between varieties.



We can help you link varieties to the right geography and its corresponding environment. You will get objective feedback how a variety performs at a specific location.



We can help growers grow your seeds. With all the genetic information, you already know a lot about the potential of a variety. We want to help growers extract the potential.



We're Berend and Thijs, and we're passionate about developing precision plant sensing technology. Our startup company is located in YES!Delft and this is us during a trial at Delphy.

Meet our team that is motivated to pursue our mission.



Berend de Klerk co-founder & CEO

- Graduated on developing algorithms to understand ultrasound crop signals
 Graduated from Delft Center of
- Entrpreneurship



Thijs Bieling co-founder & CTO

- Graduated on replicating crop mechanisms in 3D printed vessels
- After studies worked on understanding interplay between crops and electronics



Miranda van Duijn data scientist

- Graduated on predictive tomato crop model from Systems & Control
- Worked in several data-teams for a large energy company



Dr. Joep Lambalk advisor via StartLife

Former head R&D and CSO of Enza Zaden



Arend van de Stadt advisor via YES!Delft

Founder of several companies focussing on vision technology



Dr. Gerard Verbiest technology advisor

Associate professor at TU Delft specializing in ultrasound technology

For the past year, we have made some significant steps.

Successfully conducted a proof Plense Technologies Build a plant-response library of concept at the NPEC in and validate our current founded as spin-off from WUR and TU Delft correlations with >3 paid pilots Wageningen jul mar 2023 2024 feb sep may Funding from NWO (Dutch Scale up our production with ±100 sensors Scientific Organisation)















