

## What the Trust did for us

**The**  
**DOUGLAS BOMFORD**  
SUPPORTING AGRICULTURAL ENGINEERING *Trust*

**Support for innovative research  
and developing businesses**

Dr Nick Tillet  
*(Director, Tillett & Hague Technology Ltd)*

# What the Trust did for us

## Tillett and Hague Technology Ltd

- Our association with the Douglas Bomford Trust goes back to 1992.
- We needed backers for a speculative idea to move computer vision into the field.
- Idea was to target inputs down to the individual plant level.



# Tony Hague: Douglas Bomford Fellow 1993 - 1996

- Needed a full time team member on the control side.
- Douglas Bomford Trust funded Tony on a 3 year fellowship.
- *He forgot to leave!*





# Plant Scale Husbandry 1993 -96

- Aim to demonstrate computer vision plant detection in the field
- Era of 386 PC, NIR camera (pre webcam)
- Squirted dye from a 1mm diameter hole at detected cauliflower
- Ran autonomously without GPS (to make an academic point)
- Live public demonstration



Tillett and Hague Technology

# Applied same technology to inter-row cultivation

- Credibility gained from Bomford-funded project enabled us to bid into MAFF and to industry levy bodies
- Organic cereal and sugar beet
- Start of a collaboration with Garford's who supplied steerage hoes





# Matt Home's in-row weeding mechanism



# Our first commercial camera a repackaged Toucan!





# First commercial inter-row guidance system 2001





# Collaborative Defra and industry-funded project to develop multi-bout spanning guidance 2002-05



# Prototype in-row weeding rig 2005



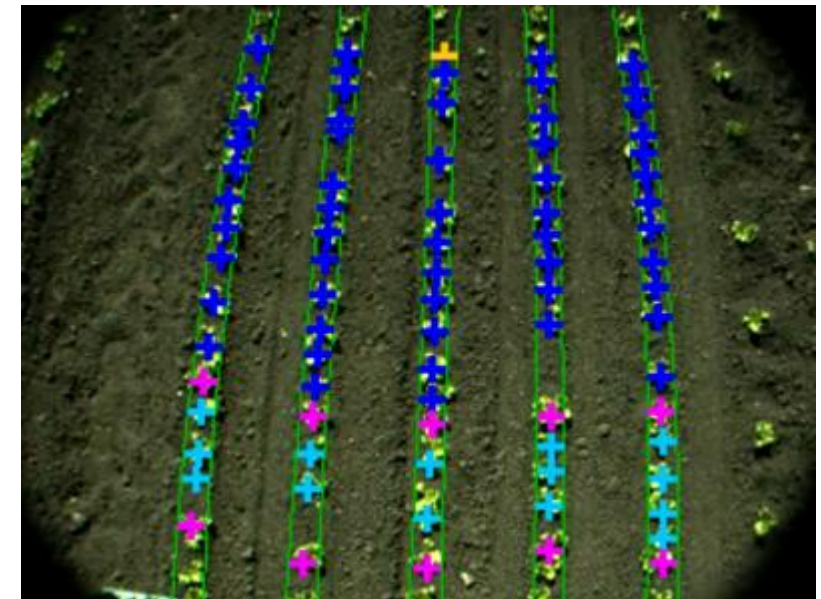


# BBSRC closes SRI!





# Thinning lettuce in California with DBT support 2007





# Tillett and Hague Experimental Spot Sprayer



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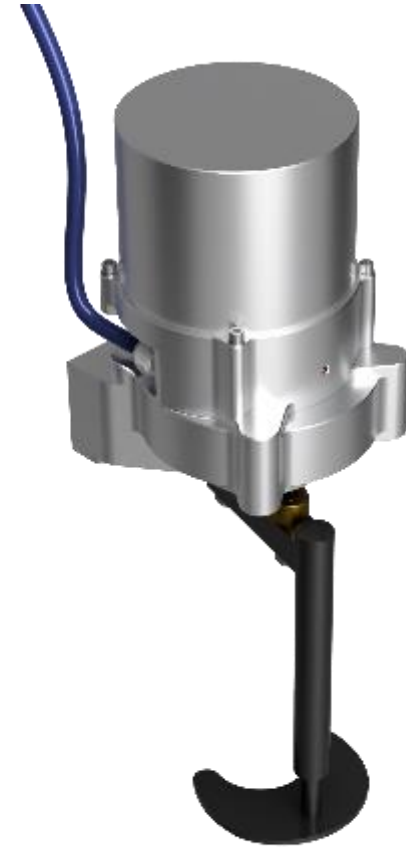
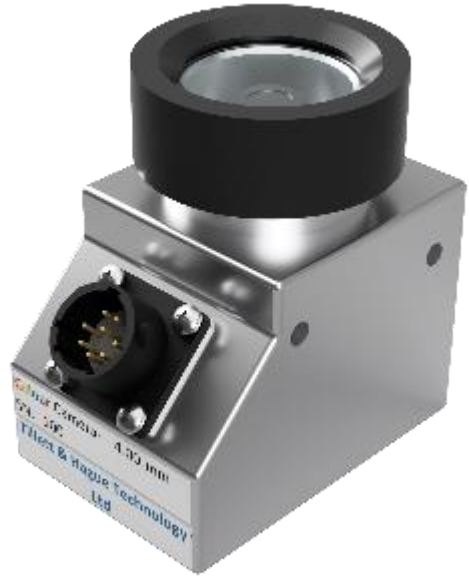
# In-row guidance



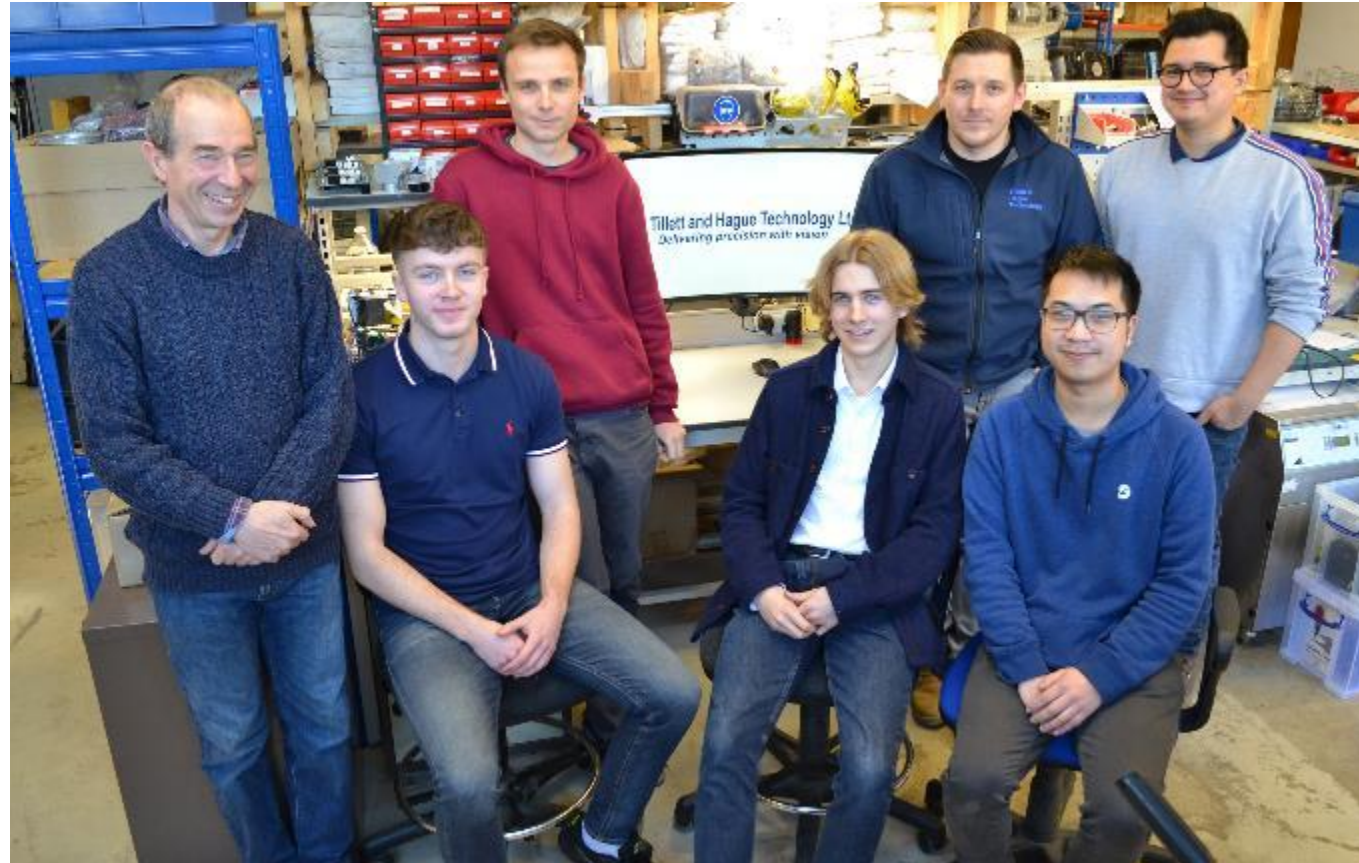
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# Some of the things we make



# Some of our students and staff





# Most customers are European implement manufacturers but product is used worldwide



**Tillett and Hague Technology wish the Trust  
all the best in supporting the next generation**

