

New mobile robot to support agri-tech experiments in the field

October 19 2016



The Thorvald robot, which will be given it's 'brains' by the University of Lincoln, UK Credit: University of Lincoln

Scientists at the University of Lincoln, UK, have taken delivery of an advanced new mobile robot to support agri-tech experiments at the

University's agricultural field station.

The Thorvald agricultural robot, developed with scientists from the Norwegian University of Life Sciences, is the latest piece of technology added to the facilities of the Lincoln Institute for Agri-food Technology (LIAT).

It will support field trials delivered by scientists from the University of Lincoln at the University's Riseholme Campus in Lincolnshire.

The Thorvald robotic platform has been built to perform a wide variety of agricultural tasks, including deployment as a multi-purpose light weight robotic carrying platform, as a sensor platform to monitor crops and soils and, potentially, as a platform to manage crops and for precision weed control.

It is capable of operating on uneven terrain and agile enough to navigate between rows of crops without touching plants.

Professor Simon Pearson, Director of LIAT, said: "In much of our agri-tech research, the fields we use are our laboratory, which brings its own technical and logistical challenges with certain experiments.

"The Thorvald robot will be a welcome addition to LIAT—in effect our own roaming, robotic lab assistant—capable of supporting a wide variety of research activities. The robot will support research on autonomous outdoor navigation and mapping, soil quality assessment, crop yield prediction, in-field logistics and transportation."

Provided by University of Lincoln

Citation: New mobile robot to support agri-tech experiments in the field (2016, October 19)
retrieved 1 May 2024 from <https://phys.org/news/2016-10-mobile-robot-agri-tech-field.html>

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