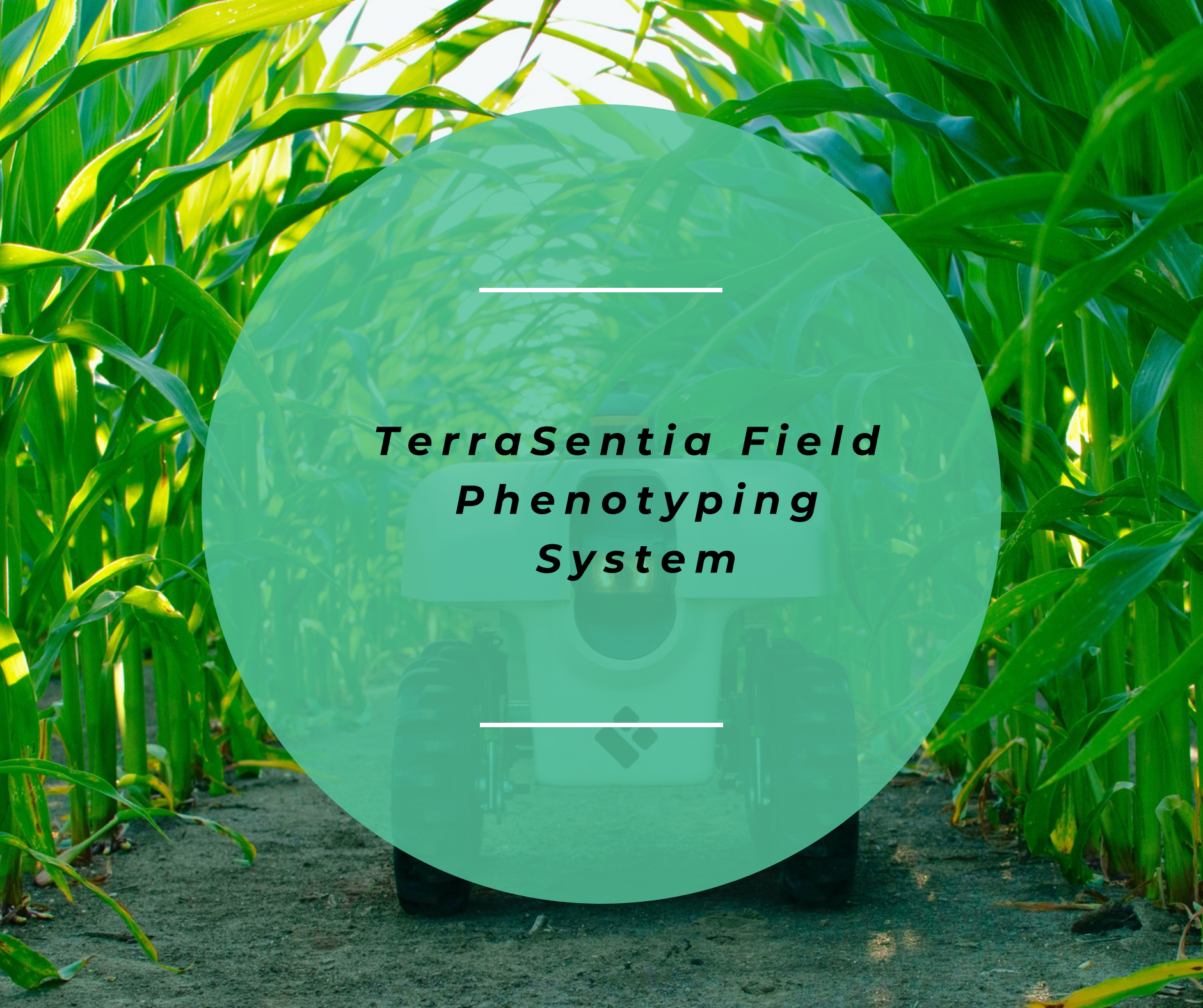
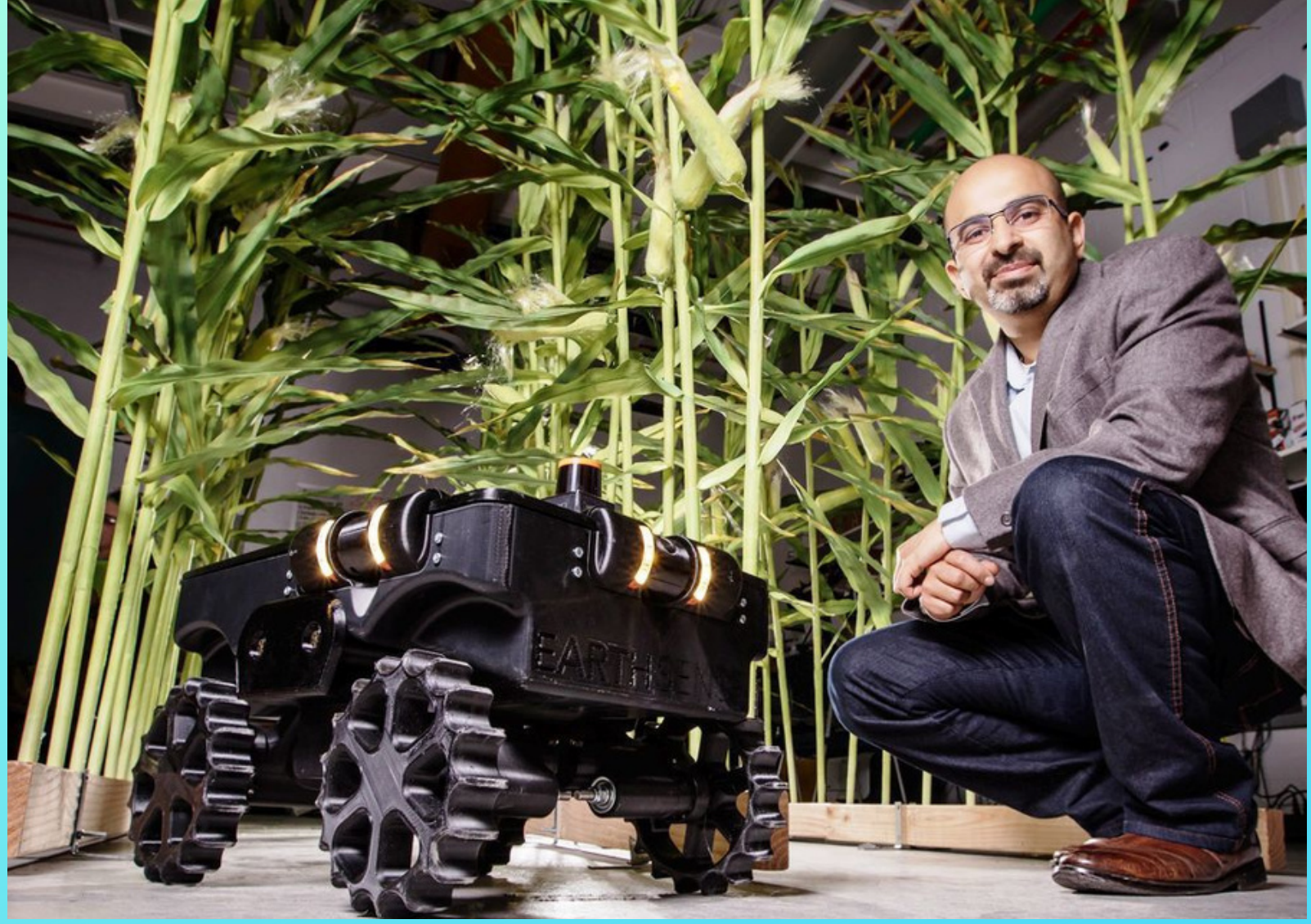

TerraSentia Field
Phenotyping
System

TerraSentia is a crop-phenotyping robot developed by scientists at the University of Illinois. The robot recently was featured at the 2018 Energy Innovation Summit Technology Showcase in National Harbor, Maryland.

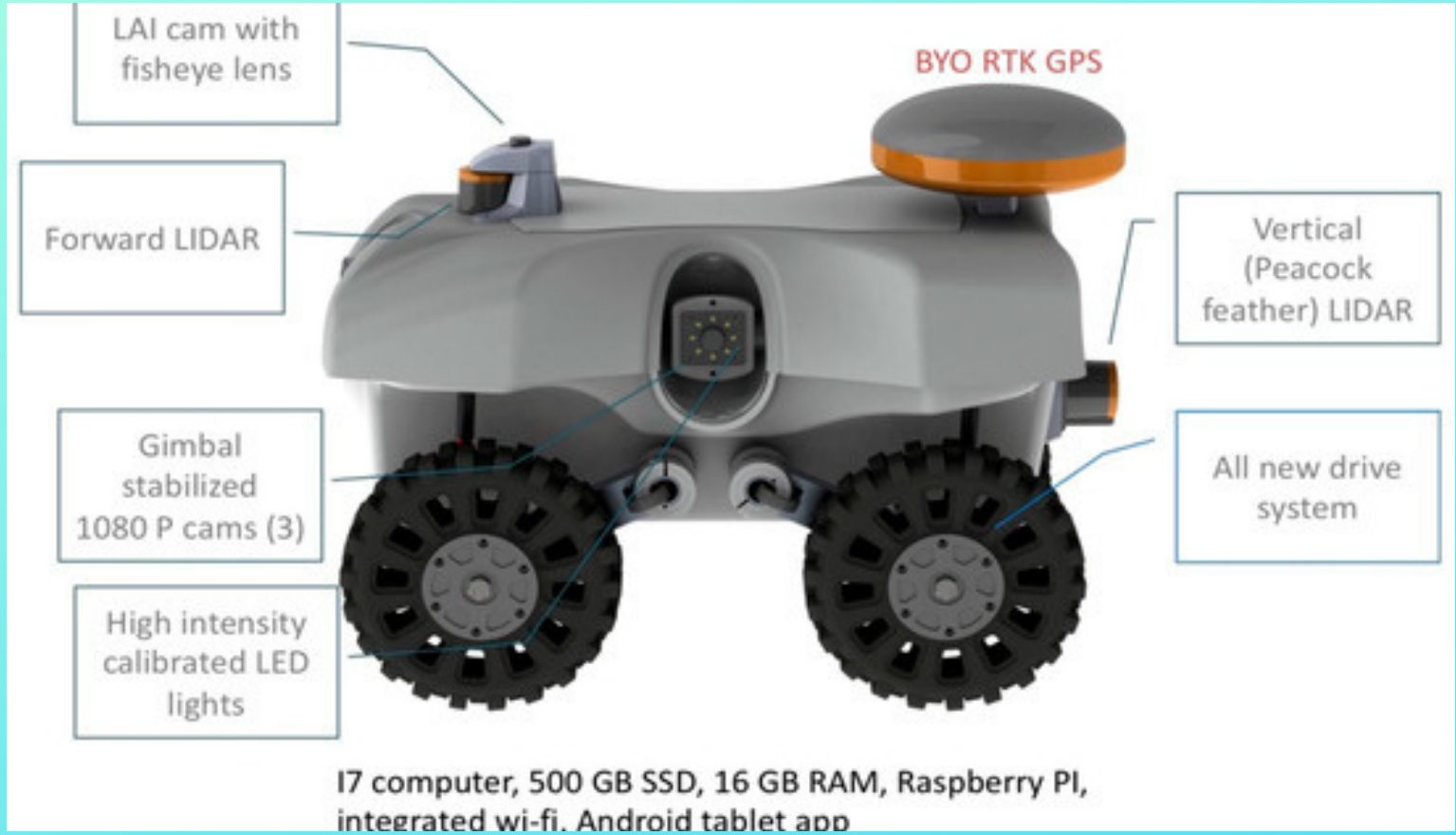
University of Illinois scientists are developing machine-learning algorithms to “teach” the robot to detect and identify common diseases. They also are teaching the robot to measure several traits such as plant and corn-ear height, leaf-area index and biomass.

“The robots will fundamentally change the way people collect and use data from their fields,” said Girish Chowdhary, agricultural- and biological-engineering professor at the University of Illinois.

TerraSentia weighs about 24 pounds so it can roll over young plants without damaging them. The 13-inch-wide robot also is portable.



Girish Chowdhary a proffesor of agriculture and biological enginerring at the University of Illinios , leads a team of scientists in development .



TerraSentia uses a proprietary combination of sensors—including RGB cameras, LIDAR, GPS, and more—to autonomously collect data on traits for plant health, physiology, and stress response.