

What It Can Do



1 Sense the state of the surroundings and the mower

2 Drive with an informed view of one's surroundings

3 Record driving dynamics for future analysis

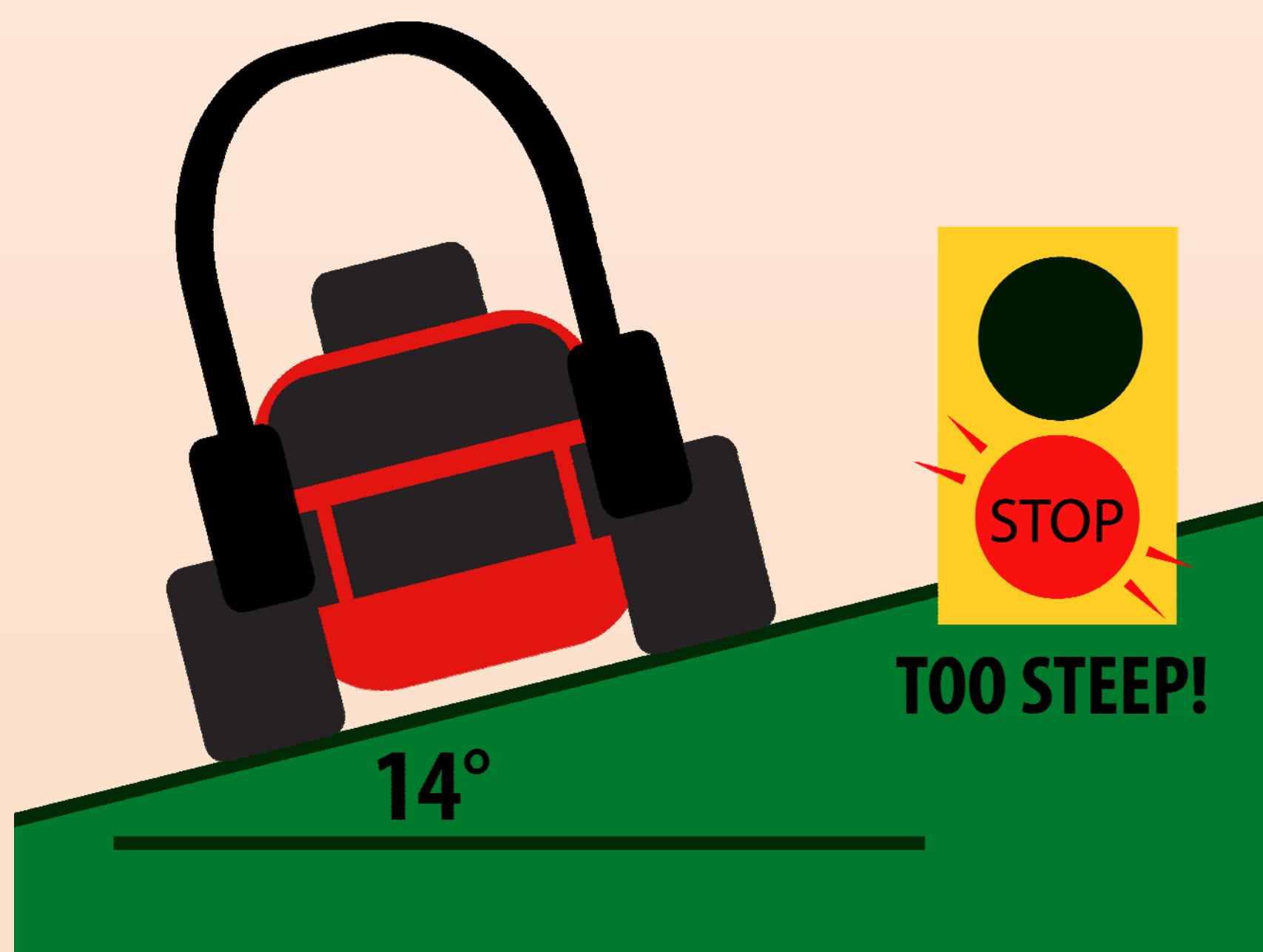
4 Increase safety and driving performance

The **sensor suite** records the dynamics of the mower while driving, giving Ariens the ability to investigate **wheel position, velocity, accelerations, and driver input** for every moment of a test run.

Drive by wire capability allows implementation of **electronic controls** on a previously fully mechanical system. The drive by wire system is also designed to be easily adaptable to any mower. Stick input to motor driving output can now be customized for individual users.

Capabilities

Slope Limiting Safety Mechanism

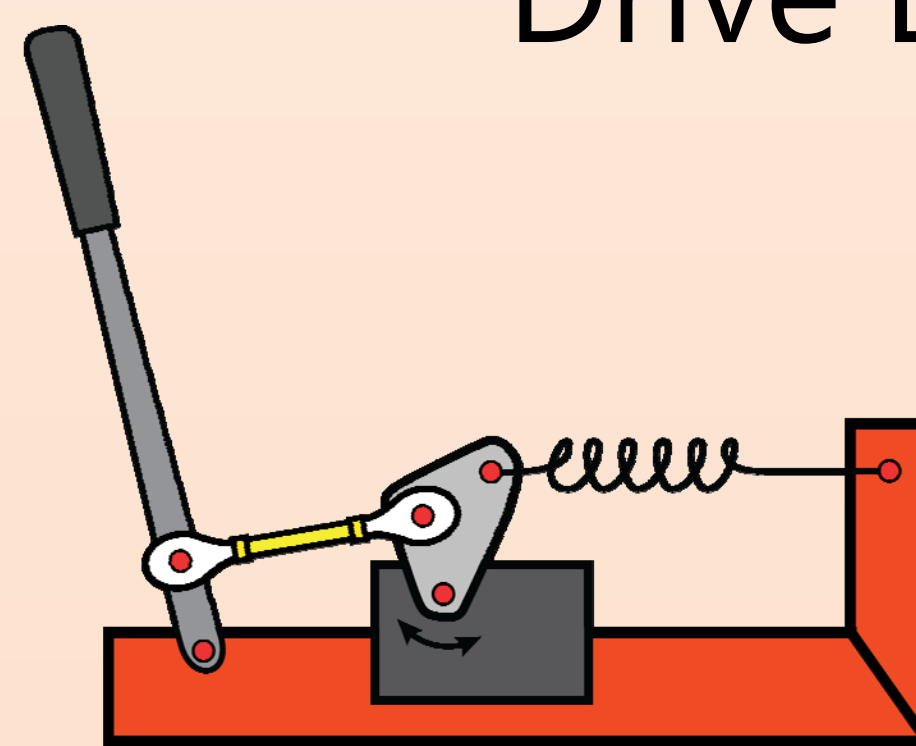


System recognizes dangerous slope

Warns operator with visual readout

Implements automatic safety response

Drive By Wire



Old Mechanical System:

Tie-rod physically links operator stick to hydraulic pump.

New Drive By Wire System:

(1) Potentiometer senses operator stick angle.

(2) Motor receives signal and spins the hydraulic pump.

