that is cost-efficient and respects data privacy using active sensors, UAVs, and robots.

cattle currently feed on grazing land

theSTATS

94,400,000 38,000,000

acres are owned/managed by ranchers

INTELLI-RANCH

AUTONOMOUS CYBER-PHYSICAL LIVESTOCK MANAGEMENT WITH INTELLIGENCE-INTEGRATED UAV'S, ROBOTS, & SENSORS

heCOMPONENTS

O

+ camera-enabled drones & robots with health sensors & data analytic software & interfaces



+ acquisition, adaptive
 flight path optimization
 & sensor selection
 strategies for most
 actionable information



+ hardware
accelerator for
adaptive sensing,
planning, & control to
minimize power
consumption

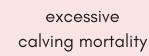
security

breakdowns



+ privacy integrated into data analytics & autonomous tracking & monitoring system







unpredicted & untreated diseases

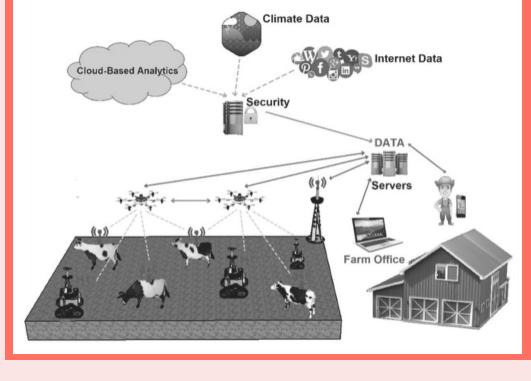


cost & availability of labor



predator attacks





a visual
representation
of the
relationships
between
servers, data,
and farms using
Intelli-Ranch





+ predator warnings



+ disease & diagnostic information



+ climate prediction



+ commercial spread of tech



INTELLI-RANCH BY DETEC**drone**

