

HORSE SMART MONITORING SYSTEM · BY GREENFIELD HYDROPONICS (GHI)

Know every horse, day and night.

A smart collar and connected platform that tracks how each horse lives, moves, and eats — turning everyday behavior into clear, timely information for owners, caretakers, and veterinarians.

EXECUTIVE SUMMARY

From guesswork to measured care

Most horse operations still rely on what people happen to see during barn checks. Changes in appetite, activity, or rest — often the first signs that something is wrong — are easy to miss, especially overnight or out in the pasture.

The Horse Smart Monitoring System, developed by Greenfield Hydroponics Inc. (GHI), closes that gap. The **Equine Core** collar records activity, rest, location, and feeding behavior around the clock. Paired with scale-equipped smart feeders, it shows exactly how much each horse actually eats, so operators can compare hay, alfalfa, pellets, and fresh hydroponic fodder using real data.

AT A GLANCE

- **24/7 monitoring** of activity, rest, and feeding — per horse
- **Built-in cellular + GPS:** no antennas or gateways to install on the property
- **Intake by weight** with smart feeders — see what each horse really eats
- **Alerts that explain why**, compared with each horse's own normal
- **Scales from one horse to the whole farm** on a single platform



Made to wear 24/7

Light, low-profile capsule rides on top of the neck facing the sky for strong GPS. Soft-lined strap with a breakaway link that releases if the horse gets caught.



Know what they eat

The collar logs when and how long each horse eats. Smart feeders with built-in scales add how many pounds were actually consumed.



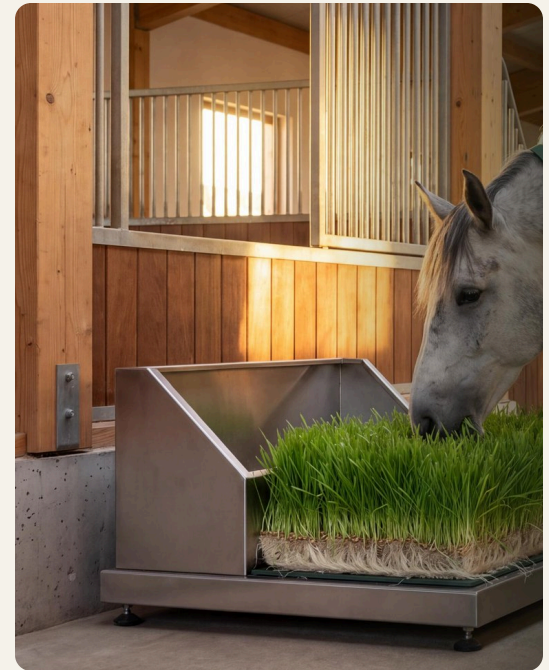
Right information, right time

Hour-by-hour activity and rest, location and geofences, and plain-language alerts for owners, caretakers, and vets — on any phone or tablet.

HOW IT WORKS

Collar, feeder, cloud – one picture of each horse

- 1 Wear**
Each horse wears an Equine Core collar. A 6-axis motion sensor captures movement, grazing, and rest; GPS tracks position.
- 2 Weigh**
Smart Feed stations with load-cell scales record how much feed each horse removes, matched to the horse at the feeder.
- 3 Connect**
Data travels over the collar's own LTE-M / NB-IoT link. Out of coverage, it stores 72+ hours and syncs when back in range.
- 4 Understand**
The platform learns each horse's normal pattern and flags meaningful changes, explaining what changed and why it matters.



THE PLATFORM

Equine Core

Smart collar: activity, rest, location, feeding behavior

Smart Feed

Scale-equipped feeders that measure actual intake

Equine Cloud

Secure data platform, history, and herd-wide reporting

Equine Mobile

Phone and tablet app for owners, staff, and vets

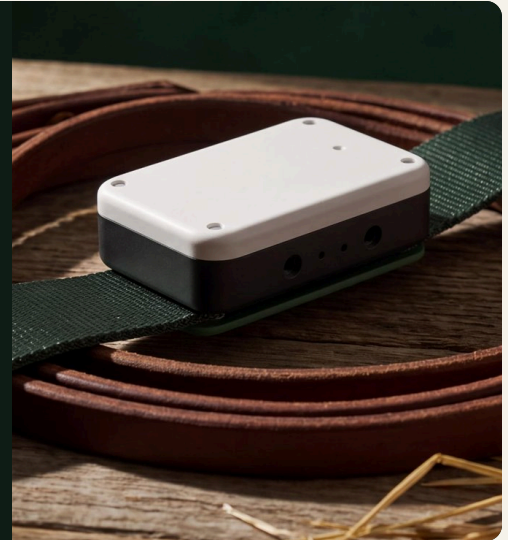
Equine AI

Per-horse baselines and alerts that explain the "why"

EQUINE CORE · SPECIFICATIONS

Small outside, complete inside

SIZE / WEIGHT	80 × 54 × 21.5 mm (3.1 × 2.1 × 0.85 in) · approx. 73 g (2.6 oz)
CONNECTIVITY	LTE-M / NB-IoT cellular · GPS · Bluetooth LE
SENSORS	6-axis IMU (motion) · device temperature
MEMORY	72+ hours of data stored without coverage
BATTERY	Rechargeable · target 14+ days per charge
CHARGING	Magnetic dock with sealed contacts
PROTECTION	Target IP67 · -4 °F to 122 °F (-20 °C to +50 °C)
MATERIALS	PC/PBT housing · stainless steel · TPE
SAFETY	Soft-lined strap, no sharp edges, breakaway link



WHO BENEFITS

Built for everyone who cares for horses

- Owners & breeders** — peace of mind and early warning, even when away from the barn
- Boarding & training facilities** — fewer manual checks, documented care for clients
- Veterinarians** — objective activity, rest, and intake history to support exams
- Farm managers** — feed-program comparisons and lower feed waste based on measured intake

CONTACT



Allan M. Olbur
CHAIRMAN
GREEN TECHNOLOGY
GLOBAL, INC.

EMAIL amo@GreenTechnologyGlobal.com
PHONE 224-425-9236
WEB www.GreenTechnologyGlobal.com
www.GreenfieldHydroponics.com

Product in development (prototype). Specifications are design targets, pending testing and certification. Alerts are behavioral observations, not veterinary diagnoses. Product images are AI-generated renderings based on the device CAD design.